

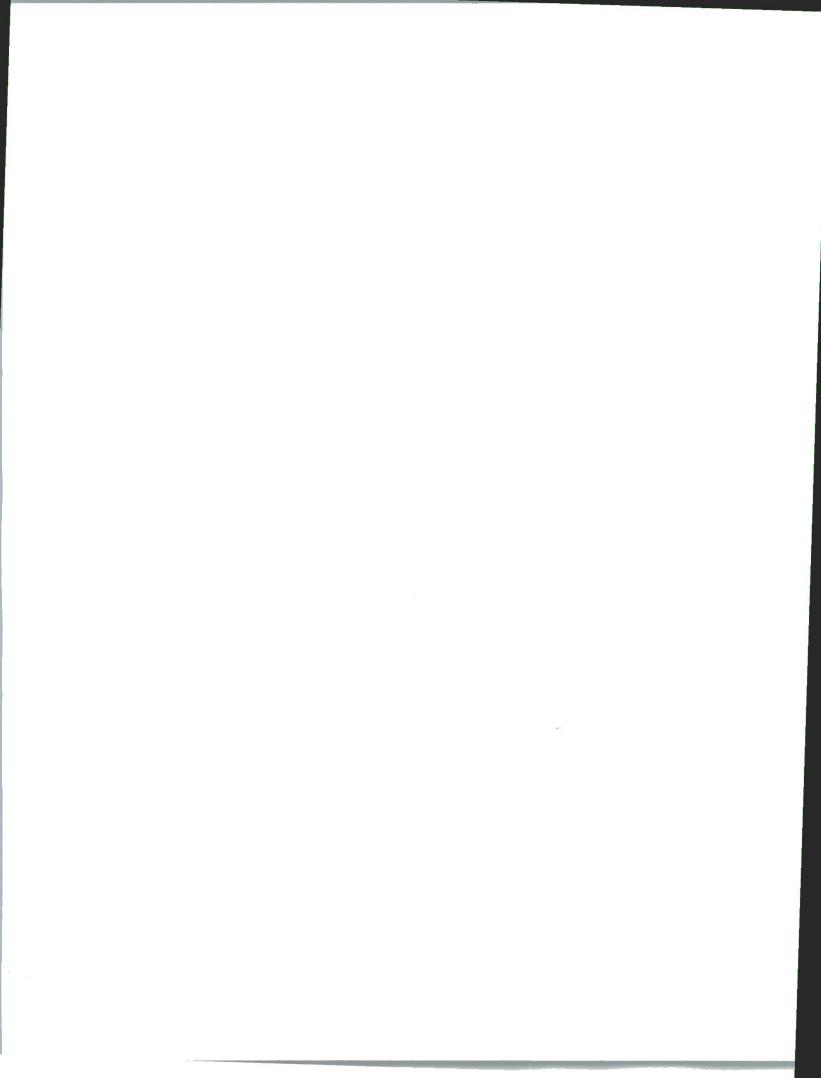
Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJK1424832159

3RP - 1011
ENTERPRISE PRODUCTS OPERATING, LLC



3R-1011

Release Report/ General Correspondence

Enterprise SJ

Date: 2012





December 30, 2011

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

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

www.animasenvironmental.com

Durango, Colorado 970-403-3274 **RCVD JAN 12**'12

OIL CONS. DIV.

DIST. 3

RE: Confirmation Soil Sampling Results for Lateral H-37 Release San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to submit the final report for confirmation soil sampling results associated with a release, which occurred along the Enterprise Products Company (Enterprise) 6-inch diameter Lateral H-37 pipeline. The release is located approximately 12 miles north of Farmington, San Juan County, New Mexico, on private land owned by Patrick and Joleen Walters.

1.0 Release Information

1.1 Release Location

On November 18, 2011, the release was discovered by the property owner and reported to Enterprise. On the same date, Enterprise employees were dispatched to confirm the release and proceeded to shut in four affected wells, de-pressurize the associated lines, and lock out/tag out associated control valves.

The release is located within the NE¼, NE¼, Section 3, T31N, R13W, San Juan County, New Mexico. Latitude and longitude at the point of release were recorded as N36°56.051′ and W108°10.986′, respectively. A topographic site location map is included as Figure 1, and an aerial map showing a portion of the pipeline and the release location is included as Figure 2.

The release occurred in a portion of the property that is utilized as an irrigated alpha/grass field. Surface runoff drains west towards the La Plata River, which flows south and ultimately discharges into the San Juan River located approximately 14.5 miles to the south-southwest. Based on the elevation difference between the release location and the La Plata River, the depth to groundwater at the release location is estimated to be less than 30 feet below ground surface (bgs). The release is located within 600 feet of a wellhead protection area.

1.2 Assessment and Mitigation

On November 29, 2011, Enterprise contractor Industrial Mechanical, Inc. (IMI) completed a small excavation to expose the pipeline, which was located at 5.7 feet bgs. Upon inspection, IMI determined that the release resulted from a 1/8 inch corrosion hole located at the underside of the pipe. IMI and Enterprise personnel worked late into the evening, and a new section of pipe was installed.

On November 30, 2011, IMI expanded the excavation at the direction of AES to remove hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base as the excavation was expanded. At about 12:30, an archeological feature was unearthed, and work was subsequently halted. AES contacted Runell Seale and Aaron Dailey of Enterprise, and Enterprise personnel then contacted the San Juan County Museum Division of Conservation Archaeology (DCA) according to standard procedures. Arrangements were made between Enterprise and DCA for a qualified representative from DCA to inspect the cultural resources on December 1, 2011.

On December 1, 2011, Larry Baker from DCA inspected and recorded the archaeological feature. Following clearance from DCA, the excavation of contaminated soil proceeded. An additional archeological feature was encountered later during the day and was also recorded and cleared by DCA. Excavation work continued until contaminant field screening results indicated that impacted soils had been removed to the extent required by New Mexico Oil Conservation Division (NMOCD) regulations.

The final excavation dimensions measured approximately 22 feet long by 22 feet wide by 13 feet deep. Approximately 236 cubic yards of hydrocarbon contaminated soil were transported by IMI to the IEI Landfarm, near Farmington, New Mexico, for disposal. Following the collection of soil confirmation samples, which is discussed in the next section, the excavation was backfilled with sandy clay material from 13 feet bgs to 2 feet bgs and topsoil from 2 feet bgs to grade. A photograph log and waste manifests are attached.

2.0 Soil Sampling

On December 1 2011, prior to backfilling the excavation, AES personnel completed soil field screening and collected soil samples for laboratory confirmation at 15 locations within the excavation. Soil sample locations are included on Figure 3.

Mr. Aaron Dailey Lateral H-37 Release Report December 30, 2011 Page 3 of 5

2.1 Soil Field Screening

Fifteen soil samples (S-1 through S-15) were field screened for volatile organic compound (VOC) vapors with a photo-ionization detector (PID) organic vapor meter (OVM), which was calibrated to 100 parts per million (ppm) with isobutylene gas. OVM sample locations and results are presented in Table 1 and in Figure 3.

2.2 Soil Laboratory Analyses

Fifteen confirmation soil samples (S-1 through S-15) were collected for laboratory analysis from approximately 6 feet bgs (mid-wall) and 13 feet bgs (base) within the excavation. The 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. The 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;
- 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 1.

Table 1. Soil OVM and Analytical Results, Lateral H-37 November 2011 Release

Sample ID and Date	Depth	OVM	Benzene	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylene (mg/kg)	BTEX	TPH- GRO	TPH- DRO
una Date	(ft)	(ppm)	(mg/kg)		OCD Action		(mg/kg)	(mg/kg)	(mg/kg)
		1/	00						
		100	10	NE	NE	NE	50	10	
S-1 12/1/11	6	53.5	<0.049	0.056	<0.049	0.39	<0.54	<4.9	<9.9
S-2 12/1/11	6	57.3	<0.049	<0.049	<0.049	0.47	<0.62	6.5	<10
S-3 12/1/11	6	37.1	<0.050	0.063	<0.050	0.61	<0.77	<5.0	<9.7
S-4 12/1/11	6	34.6	<0.049	0.078	<0.049	0.74	<0.92	<4.9	<10
S-5 12/1/11	6	11.3	<0.047	<0.047	<0.047	<0.094	<0.24	<4.7	<9.6
S-6 12/1/11	6	14.5	<0.048	0.056	<0.048	0.32	<0.47	<4.8	<9.9
S-7 12/1/11	6	41.8	<0.048	0.065	<0.048	0.45	<0.61	<4.8	<9.9
S-8 12/1/11	6	38.3	<0.050	0.10	<0.050	0.70	<0.90	<5.0	<10
S-9 12/1/11	6	28.1	<0.047	0.048	<0.047	0.23	<0.37	<4.7	<9.9
S-10 12/1/11	6	54.5	<0.047	0.052	<0.047	0.29	<0.44	<4.7	<9.9
S-11 12/1/11	13	13.0	<0.046	<0.046	<0.046	<0.091	<0.23	<4.6	<9.9
S-12 12/1/11	13	24.3	<0.048	<0.048	<0.048	0.11	<0.25	<4.8	<10
S-13 12/1/11	13	17.5	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
S-14 12/1/11	13	44.1	<0.049	0.075	<0.049	0.54	<0.71	<4.9	<9.9
S-15 12/1/11	13	62.8	<0.047	0.14	<0.047	0.57	<0.80	<4.7	<10

^{*}Note - NE is not established

Mr. Aaron Dailey Lateral H-37 Release Report December 30, 2011 Page 5 of 5

BTEX and TPH concentrations for all soil samples collected were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Recommendations

Based on field observations, field screening values, and laboratory analytical results for the confirmation soil samples, petroleum hydrocarbon impacted soils were removed to below NMOCD action levels. Reseeding of the area disturbed during the pipeline repair and soil excavation is scheduled to be completed in May 2012 per the landowner's specifications.

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

Sincerely,

Ross Kennemer

Sr. Project Manager

Elizabeth McNally, P.E.

Elizabeth V MeNelly

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

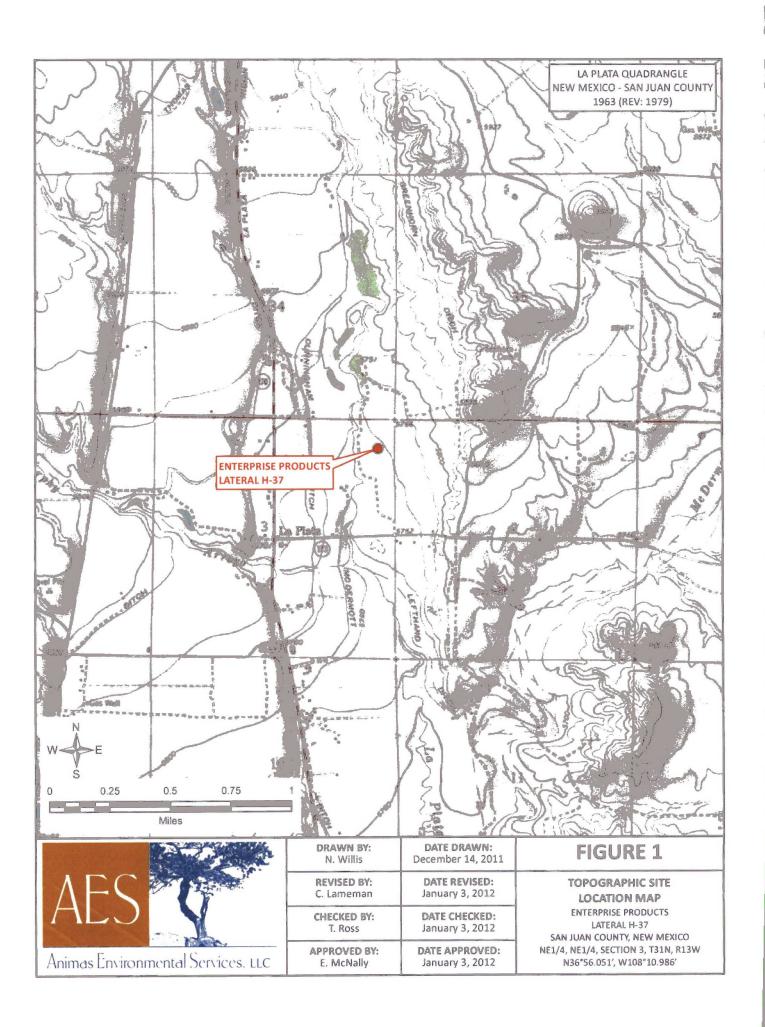
Figure 3. Sample Location Map, December 2011

Photograph Log

Waste Disposal Manifest – Form C-138

Laboratory Analytical Reports (Hall #1112194)

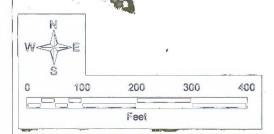
S:\Animas 2000\2011 Projects\Enterprise Products\Lateral H 37\Enterprise Lateral H37 letter report 123011.docx



CUNNINGHAM DITCH

RELEASE LOCATION ON NOVEMBER 15, 2011

ENTERPRISE PRODUCTS 6-INCH LATERAL H-37





	Drawn ey: n. Willis	DATE DRAWN: December 14, 2011
	REVISED BY: C. Lameman	DATE REVISED: January 3, 2012
1	CHECKED BY: T. Ross	DATE CHECKED: January 3, 2012
-	APPROVED 8Y: E. McHally	DATE APPROVED: January 3, 2012

FIGURE 2

AERIAL SITE MAP

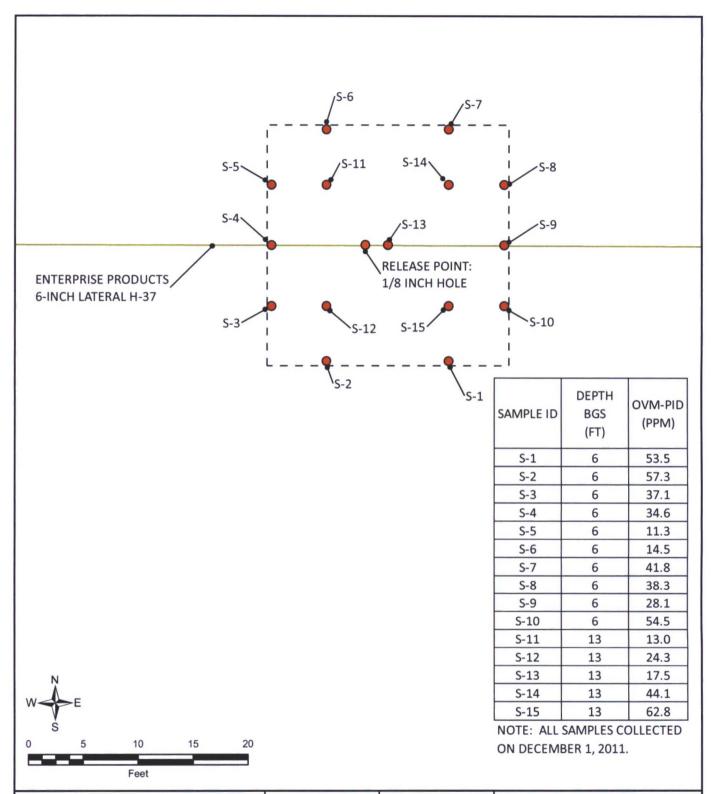
ENTERPRISE PRODUCTS

LATERAL H-37

SAN JUAN COUNTY, NEW MEXICO

NE1/4, NE1/4, SECTION 3, T31N, R13W

N36°56.051′, W108°10.986′



AES
Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: December 14, 2011
REVISED BY: C. Lameman	DATE REVISED: January 3, 2012
CHECKED BY: T. Ross	DATE CHECKED: January 3, 2012
APPROVED BY: E. McNally	DATE APPROVED: January 3, 2012

FIGURE 3 SAMPLE LOCATION MAP DECEMBER 2011 ENTERPRISE PRODUCTS LATERAL H-37 SAN JUAN COUNTY, NEW MEXICO NE1/4, NE1/4, SECTION 3, T31N, R13W N36°56.051′, W108°10.986′

Client:
Enterprise Products
Company

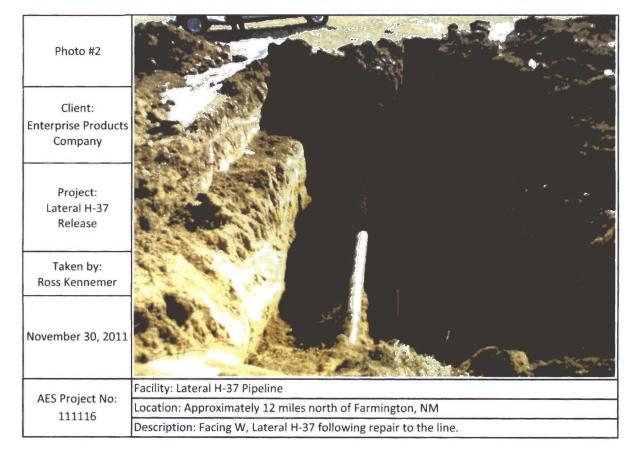
Project:
Lateral H-37
Release

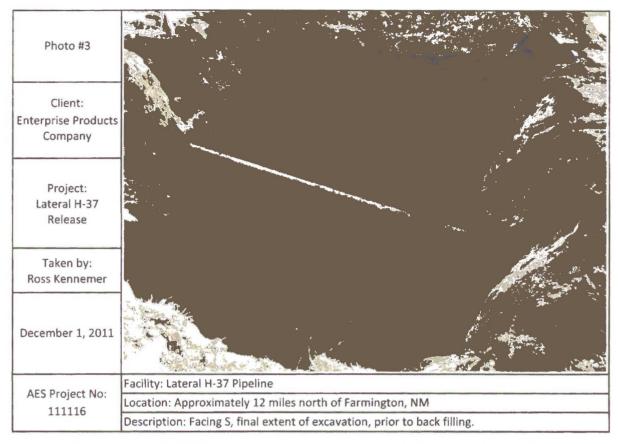
Taken by:
Ross Kennemer

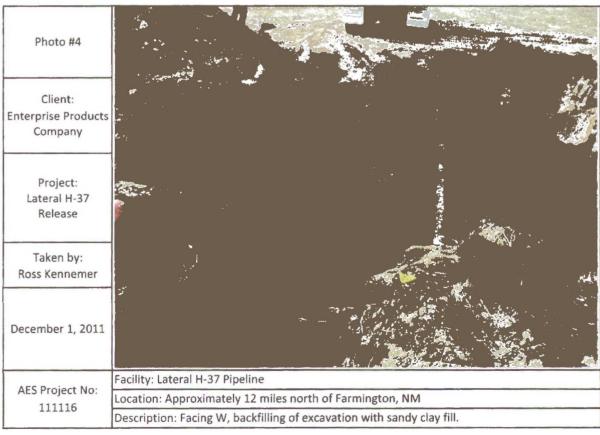
November 29, 2011

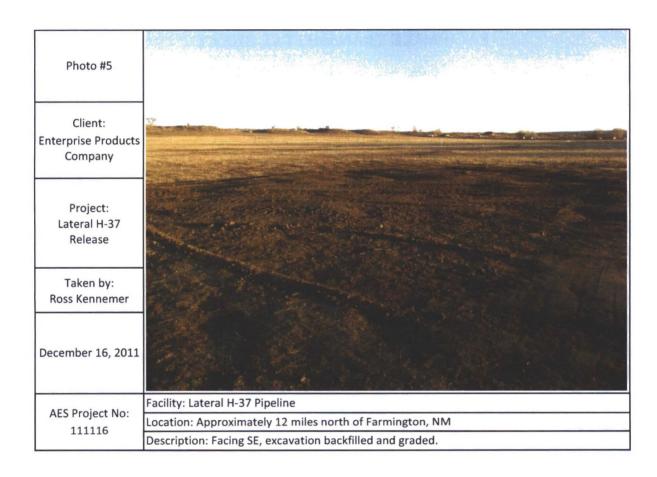
AES Project No:
111116

Facility: Lateral H-37 Pipeline
Location: Approximately 12 miles north of Farmington, NM
Description: Facing E, general view of stained soils, prior to excavation.











Industrial Ecosystems Inc. Soil Reclamation Center

Phone: (505) 632-1782 Fax: (505) 334-1003

#49 CR 3150 Aztec, NM 87410

www.industrialecosystems.com

"This is bioremediation at its best; fast, effective, and cost efficient"

FACSIMILE TRANSMITTAL SHEET

FOR THE USE OF THE ADDRESSEE LISTED BELOW AND NO ONE ELSE. IF YOU ARE NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER THIS MESSAGE TO THE INTENDED RECIPIENT, PLEASE DO NOT USE THIS TRANSMISSION IN ANY WAY, BUT PLEASE CONTACT THE SENDER BY TELEPHONE.

TO: Deppie

FROM: 324-2022

FAX #: marcella

DATE:

COMMENTS:

Per your request - 236 cy total If you have any questions, please feel free to contact me at 632-1782. Thanks.

2 pages total

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

OO Rio Brazos Road, Aztec, NM 87410

strict IV -220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-138 Revised March 12, 2007 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
Enterprise Products Operating, LP.
2. Originating Site:
Lateral H-37
3. Location of Material (Street Address, City, State or ULSTR):
Section 3T31N R13W; GPS: N 36 56.051 W 108 10.986
4. Source and Description of Waste:
Source: Pipeline release
Description: Stained soil from natural gas condensate and produced water released from in service pipeline.
Estimated Volume20vd / bbls Known Volume (to be entered by the operator at the end of the haul) U (yd)/ bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I,Aaron Dailey, representative or authorized agent forEnterprise Products Operating, LP
SIGNATURE OF REPRESENTATIVE PRINT NAME COMPANY NAME
do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste.
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261,
subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
- CI L
I, Aaron Dailey, representative for Enterprise Products Operating, LP_ authorize Envirotech to complete the required
testing/sign the Generator Waste Testing Certification.
1. The do hereby certify that representative samples of
the oil field waste have been sabjected to the paint filter test and tested for chloride content and that the samples have been found to
conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative
samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: IMI-Contact R. Campbell
Transporter said commercial components
OCD remitted Surface waste Management racinty
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B
The same a worse, a second of the same and t
Address of Facility: 49 CR 3150 Aztec. NM 87410
Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Injection Landfalm Landfill Other
Evaporation Injection Treating Plant Landfarm Landfall Other
Waste Acceptance Status:
APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: M. WARGH DT TITLE: HSE DATE: 11/84/11
SIGNATURE: TELEPHONE NO.: 63d-1777

11-21-11



COVER LETTER

Monday, December 12, 2011

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

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

RE: Enterprise Products Company Lateral H-37 Pipeline

Dear Ross Kennemer:

Order No.: 1112194

Hall Environmental Analysis Laboratory, Inc. received 15 sample(s) on 12/2/2011 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: 12-Dec-11

Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-1

Lab Order:

1112194

Collection Date: 12/1/2011 11:09:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE OF	RGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/7/2011 9:09:26 PM
Surr: DNOP	103	77.4-131		%REC	1	12/7/2011 9:09:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 3:40:48 PM
Surr: BFB	81.8	75.2-136		%REC	1	12/8/2011 3:40:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Toluene	0.056	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Xylenes, Total	0.39	0.098		mg/Kg	1	12/8/2011 3:40:48 PM
Surr: 4-Bromofluorobenzene	76.8	80-120	S	%REC	1	12/8/2011 3:40:48 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 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-2

Lab Order:

1112194

Collection Date: 12/1/2011 11:12:00 AM

Lab Olde

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Project: Lab ID:

1112194-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/7/2011 10:16:54 PM
Surr: DNOP	98.5	77.4-131		%REC	1	12/7/2011 10:16:54 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: RAA
Gasoline Range Organics (GRO)	6.5	4.9		mg/Kg	1	12/8/2011 4:11:05 PM
Surr: BFB	107	75.2-136		%REC	1	12/8/2011 4:11:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Toluene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Xylenes, Total	0.47	0.098		mg/Kg	1	12/8/2011 4:11:05 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/8/2011 4:11:05 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 2 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-3

Lab Order:

1112194

Collection Date: 12/1/2011 11:17:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID: 1112194-03

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/7/2011 10:50:48 PM
Surr: DNOP	102	77.4-131	%REC	1	12/7/2011 10:50:48 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/8/2011 4:41:26 PM
Surr: BFB	98.9	75.2-136	%REC	1	12/8/2011 4:41:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	12/8/2011 4:41:26 PM
Toluene	0.063	0.050	mg/Kg	1	12/8/2011 4:41:26 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/8/2011 4:41:26 PM
Xylenes, Total	0.61	0.10	mg/Kg	1	12/8/2011 4:41:26 PM
Surr: 4-Bromofluorobenzene	95.0	80-120	%REC	1	12/8/2011 4:41:26 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 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-4

Lab Order:

1112194

onent oumpte in. 54

Project:

Lab ID:

Enterprise Products Company Lateral H-37 Pipe

Collection Date: 12/1/2011 11:30:00 AM Date Received: 12/2/2011

1112194-04

Matrix: SOIL

240 220						
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	12/7/2011 11:24:44 PM
Surr: DNOP	94.4	77.4-131		%REC	1	12/7/2011 11:24:44 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 5:11:48 PM
Surr: BFB	96.2	75.2-136		%REC	1	12/8/2011 5:11:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Toluene	0.078	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Xylenes, Total	0.74	0.098		mg/Kg	1	12/8/2011 5:11:48 PM
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1 *	12/8/2011 5:11:48 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 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-5

Lab Order:

1112194

Collection Date: 12/1/2011 11:35:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-05

Matrix: SOIL

Analyses	Result	PQL	Qual U	J nits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.6	n	ng/Kg	1	12/7/2011 11:58:03 PM
Surr: DNOP	108	77.4-131	%	6REC	1	12/7/2011 11:58:03 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	m	ng/Kg	1	12/8/2011 5:42:04 PM
Surr: BFB	92.1	75.2-136	%	6REC	1	12/8/2011 5:42:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047	m	ng/Kg	1	12/8/2011 5:42:04 PM
Toluene	ND	0.047	m	ng/Kg	1	12/8/2011 5:42:04 PM
Ethylbenzene	ND	0.047	т	ng/Kg	1	12/8/2011 5:42:04 PM
Xylenes, Total	ND	0.094	m	ng/Kg	1	12/8/2011 5:42:04 PM
Surr: 4-Bromofluorobenzene	89.6	80-120	%	6REC	1	12/8/2011 5:42:04 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 5 of 15

Date: 12-Dec-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-6

Lab Order:

1112194

Collection Date: 12/1/2011 11:38:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-06

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE OF	RGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 12:31:41 AM
Surr: DNOP	98.2	77.4-131		%REC	1	12/8/2011 12:31:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2011 6:12:16 PM
Surr: BFB	93.5	75.2-136		%REC	1	12/8/2011 6:12:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Toluene	0.056	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Xylenes, Total	0.32	0.097		mg/Kg	1	12/8/2011 6:12:16 PM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	12/8/2011 6:12:16 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
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Page 6 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-7

Lab Order:

1112194

Collection Date: 12/1/2011 11:42:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-07

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/8/2011 1:05:20 AM
Surr: DNOP	106	77.4-131	%REC	1	12/8/2011 1:05:20 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/8/2011 6:42:25 PM
Surr: BFB	101	75.2-136	%REC	1	12/8/2011 6:42:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	12/8/2011 6:42:25 PM
Toluene	0.065	0.048	mg/Kg	1	12/8/2011 6:42:25 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/8/2011 6:42:25 PM
Xylenes, Total	0.45	0.096	mg/Kg	1	12/8/2011 6:42:25 PM
Surr: 4-Bromofluorobenzene	97.9	80-120	%REC	1	12/8/2011 6:42:25 PM

Oualifiers:

- * 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: 12-Dec-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-8

Lab Order:

Enterprise Products Company Lateral H-37 Pipe

Collection Date: 12/1/2011 11:46:00 AM Date Received: 12/2/2011

Project: Lab ID:

1112194-08

Matrix: SOIL

Analyses	Result	Result PQL Qual Units		Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB			
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 1:38:57 AM			
Surr: DNOP	93.6	77.4-131		%REC	1	12/8/2011 1:38:57 AM			
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA			
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2011 7:12:44 PM			
Surr: BFB	103	75.2-136		%REC	1	12/8/2011 7:12:44 PM			
EPA METHOD 8021B: VOLATILES						Analyst: RAA			
Benzene	ND	0.050		mg/Kg	1	12/8/2011 7:12:44 PM			
Toluene	0.10	0.050		mg/Kg	1	12/8/2011 7:12:44 PM			
Ethylbenzene	ND	ND 0.050		mg/Kg	1	12/8/2011 7:12:44 PM			
Xylenes, Total	0.70	0.10		mg/Kg	1	12/8/2011 7:12:44 PM			
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	12/8/2011 7:12:44 PM			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value E
- 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
 - Spike recovery outside accepted recovery limits

Page 8 of 15

Date: 12-Dec-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-9

Lab Order:

1112194

Collection Date: 12/1/2011 11:49:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-09

Matrix: SOIL

Analyses	Result	PQL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/8/2011 2:12:21 AM
Surr: DNOP	97.0	77.4-131	%REC	1	12/8/2011 2:12:21 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/9/2011 1:45:40 AM
Surr: BFB	93.0	75.2-136	%REC	1	12/9/2011 1:45:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	12/9/2011 1:45:40 AM
Toluene	0.048	0.047	mg/Kg	1	12/9/2011 1:45:40 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/9/2011 1:45:40 AM
Xylenes, Total	0.23	0.095	mg/Kg	1	12/9/2011 1:45:40 AM
Surr: 4-Bromofluorobenzene	92.4	80-120	%REC	1	12/9/2011 1:45:40 AM

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 Blank
- 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 9 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-10

Lab Order:

1112194

Collection Date: 12/1/2011 11:53:00 AM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-10

Matrix: SOIL

Analyses	Result	Result PQL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 2:46:16 AM
Surr: DNOP	93.5	77.4-131	1 %REC 1 12/8/2011 2		12/8/2011 2:46:16 AM	
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	1	mg/Kg	1	12/9/2011 2:15:46 AM
Surr: BFB	94.9	75.2-136		%REC	1	12/9/2011 2:15:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Toluene	0.052	0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Ethylbenzene	ND	ND 0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Xylenes, Total	0.29	0.094		mg/Kg	1	12/9/2011 2:15:46 AM
Surr: 4-Bromofluorobenzene	96.0	80-120		%REC	1	12/9/2011 2:15:46 AM

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 10 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-11

Lab Order:

1112194

Collection Date: 12/1/2011 1:52:00 PM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-11

Matrix: SOIL

200 201						
Analyses	Result	PQL	Qual U	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS					Analyst: JB
Diese! Range Organics (DRO)	ND	9.9	n	ng/Kg	1	12/8/2011 3:20:00 AM
Surr: DNOP	100	77.4-131	9	%REC	1	12/8/2011 3:20:00 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	r	ng/Kg	1	12/9/2011 2:45:41 AM
Surr: BFB	94.8	75.2-136	9	%REC	1	12/9/2011 2:45:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.046	n	ng/Kg	1	12/9/2011 2:45:41 AM
Toluene	ND	0.046	n	ng/Kg	1	12/9/2011 2:45:41 AM
Ethylbenzene	ND	0.046	n	ng/Kg	1	12/9/2011 2:45:41 AM
Xylenes, Total	ND	0.091	п	ng/Kg	1	12/9/2011 2:45:41 AM
Surr: 4-Bromofluorobenzene	97.1	80-120	9	%REC	1	12/9/2011 2:45:41 AM

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 11 of 15

Date: 12-Dec-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-12

1112194-12

Lab Order:

1112194

Collection Date: 12/1/2011 2:04:00 PM

Project: Lab ID:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Matrix: SOIL

Analyses	Result	Result PQL Qual Units		Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 4:27:31 AM
Surr: DNOP	92.5	77.4-131		%REC	1	12/8/2011 4:27:31 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2011 3:15:50 AM
Surr: BFB	79.4	75.2-136		%REC	1	12/9/2011 3:15:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Xylenes, Total	0.11	0.096		mg/Kg	1	12/9/2011 3:15:50 AM
Surr: 4-Bromofluorobenzene	80.8	80-120		%REC	1	12/9/2011 3:15:50 AM

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 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 12 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-13

Lab Order:

1112194

Collection Date: 12/1/2011 2:10:00 PM

Project:

Enterprise Products Company Lateral H-37 Pipe

Date Received: 12/2/2011

Lab ID:

1112194-13

Matrix: SOIL

Lab 10.									
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JB			
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 9:32:28 AM			
Surr: DNOP	90.4	77.4-131		%REC	1	12/8/2011 9:32:28 AM			
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2011 3:46:01 AM			
Surr: BFB	77.0	75.2-136	75.2-136 %REC 1 12/9/2011						
EPA METHOD 8021B: VOLATILES						Analyst: RAA			
Benzene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM			
Toluene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM			
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM			
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2011 3:46:01 AM			
Surr: 4-Bromofluorobenzene	78.5	80-120	S	%REC	1	12/9/2011 3:46:01 AM			

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 13 of 15

Date: 12-Dec-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-14

Lab Order:

1112194

Collection Date: 12/1/2011 2:24:00 PM

Project: Lab ID: Enterprise Products Company Lateral H-37 Pipe 1112194-14

Date Received: 12/2/2011

Matrix: SOIL

Analyses	Result	Result PQL Qual Units		DF	Date Analyzed				
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JB				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/8/2011 11:14:36 AM				
Surt: DNOP	92.8		%REC	1	12/8/2011 11:14:36 AM				
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2011 4:16:16 AM				
Surr: BFB	97.6	75.2-136	%REC	1	12/9/2011 4:16:16 AM				
EPA METHOD 8021B: VOLATILES					Analyst: RAA				
Benzene	ND	0.049	mg/Kg	1	12/9/2011 4:16:16 AM				
Toluene	0.075	0.049	mg/Kg	1	12/9/2011 4:16:16 AM				
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2011 4:16:16 AM				
Xylenes, Total	0.54	0.097	mg/Kg	1	12/9/2011 4:16:16 AM				
Surr: 4-Bromofluorobenzene	98.2	80-120	%REC	1	12/9/2011 4:16:16 AM				

Qualifiers:

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

Page 14 of 15

Date: 12-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-15

Lab Order:

1112194

Project:

Enterprise Products Company Lateral H-37 Pipe

Collection Date: 12/1/2011 2:35:00 PM **Date Received:** 12/2/2011

Lab ID:

1112194-15

Matrix: SOIL

Analyses	Result	Result PQL Qual Units		DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JB		
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 11:48:46 AM		
Surr: DNOP	94.2	77.4-131		%REC	1	12/8/2011 11:48:46 AM		
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2011 4:46:31 AM		
Surr: BFB	94.8	75.2-136						
EPA METHOD 8021B: VOLATILES						Analyst: RAA		
Benzene	ND	0.047		mg/Kg	1	12/9/2011 4:46:31 AM		
Toluene	0.14	0.047		mg/Kg	1 -	12/9/2011 4:46:31 AM		
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2011 4:46:31 AM		
Xylenes, Total	0.57	0.095		mg/Kg	1	12/9/2011 4:46:31 AM		
Surr: 4-Bromofluorobenzene	98.9	80-120		%REC	1	12/9/2011 4:46:31 AM		

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 15 of 15

QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project:

Enterprise Products Company Lateral H-37 Pipe

Work Order:

1112194

Analyte	Result	Units	PQL	SPK V	a SPK ref	%Rec L	owLimit Hi	ghLimit %RPI	D RPDLimit Qual
Method: EPA Method 8015B:	Diesel Range	Organics							
Sample ID: 1112194-13AMSD		MSD				Batch ID:	29631	Analysis Date:	12/8/2011 10:40:16 AM
Range Organics (DRO)	49.13	mg/Kg	9.8	48.97	6.525	87.0	57.2	146 11.0	26.7
Sample ID: MB-29630		MBLK				Batch ID:	29630	Analysis Date:	12/7/2011 4:05:01 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Sample ID: MB-29631		MBLK				Batch ID:	29631	Analysis Date:	12/8/2011 5:00:34 AM
Range Organics (DRO)	ND	mg/Kg	10						
ID: LCS-29630		LCS				Batch ID:	29630	Analysis Date:	12/7/2011 4:38:55 PM
Range Organics (DRO)	51.15	mg/Kg	10	50	0	102	62.7	139	
Sample ID: LCS-29631		LCS				Batch ID:	29631	Analysis Date:	12/8/2011 5:34:30 AM
Range Organics (DRO)	45.46	mg/Kg	10	50	0	90.9	62.7	139	
∍ ID: 1112194-13AMS		MS				Batch ID:	29631	Analysis Date:	12/8/2011 10:06:24 AM
Range Organics (DRO)	54.86	mg/Kg	10	50.76	6.525	95.2	57.2	146	
Marked COAST	Onnelles Bas							4.	
Method: EPA Method 8015B: (Sample ID: 1112194-01AMSD	Jasoline Kar	MSD				Batch ID:	29626	Analysis Date:	12/8/2011 11:44:37 PM
•	20.44		40	24.60	4.504			•	
Gasoline Range Organics (GRO)	30.41	mg/Kg	4.9	24.68	4.504	105 Batch ID:	72.4 29626	149 7.19 Analysis Date:	
Sample ID: MB-29626		MBLK				Datch ID.	29020	Analysis Date:	12/8/2011 1:09:29 PN
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0			D-4-L ID.		A t i- D-t	40/0/0044 40:00:50 PM
Sample ID: LCS-29626		LCS	LL			Batch ID:	29626	Analysis Date:	12/8/2011 12:08:50 PN
Gasoline Range Organics (GRO)	29.96	mg/Kg	5.0	25	0	120	86.4	132	
∍ ID: 1112194-01AMS		MS				Batch ID:	29626	Analysis Date:	12/8/2011 11:14:13 PM
Gasoline Range Organics (GRO)	28.30	mg/Kg	4.9	24.51	4.504	97.1	72.4	149	
Method: EPA Method 8021B: \	/olatiles								
Sample ID: MB-29626		MBLK				Batch ID:	29626	Analysis Date:	12/8/2011 1:09:29 PM
Benzene	ND	mg/Kg	0.050						
Tol 9	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
ID: LCS-29626		LCS				Batch ID:	29626	Analysis Date:	12/8/2011 12:39:09 PM
Benzene	1.055	mg/Kg	0.050	1	0	106	80	120	
Toluene	1.025	mg/Kg	0.050	1	0.0056	102	80	120	
Ethylbenzene	1.091	mg/Kg	0.050	1	0.000	108	80	120	
X _! Total	3.431	mg/Kg	0.10	3	0	114	80	120	

On	alif	iers

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

Page 1

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL			Date Receive	ed:	12/2/2011	
Work Order Number 1112194			Received b	y: MMG	- manual -	\sim
Checklist completed by: Muhu Caru	i p	2/2/1 Det	Sample ID	labels checked l	by: Initials	
Matrix: C	arrier name: <u>Cou</u>	rier				
Shipping container/cooler in good condition?	Yes	\checkmark	No 🗌	Not Present		
Custody seals intact on shipping container/cooler?	Yes	V	No 🗌	Not Present	☐ Not Shippe	d 🗆
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	V	No 🗆			
Samples in proper container/bottle?	Yes	V	No 🗆			
Sample containers intact?	Yes	V	No 🗌			
Sufficient sample volume for indicated test?	Yes	✓	No 🗆			
All samples received within holding time?	Yes	V	No 🗆		Number	of preserved checked for
Water - VOA vials have zero headspace? No VO	OA vials submitted	✓	Yes	No 🗌	pH:	checked for
Water - Preservation labels on bottle and cap match?	Yes		No 🗔	N/A 🗹		
Water - pH acceptable upon receipt?	Yes		No 🗆	N/A	<2 >12 u below.	ınless noted
Container/Temp Blank temperature?	1.	.3°	<6° C Acceptai		DOIOW.	
COMMENTS:			If given sufficier	nt time to cool.		
	=====		====		====:	====
Client contacted Date con	ntacted:		Per	son contacted		
Contacted by: Regarding	ng:					
Comments:		16				
Corrective Action						

	Chain-of-Custody Record				Turn-Around Time:						н	IA		EN	v	TD		NN	1FI	UT.	10	
Client:	li'ma	Envir	ronnental Services	Sta	andard	□ Rush		HALL ENVIRONMENTAL ANALYSIS LABORATORY														
				Project	t Name	· Aroducts	Company peline Release				,	ww	/.hall	envii	ronn	nent	al.co	m				
Mailing	Address:	624	E. Commone	hat	-eral	H-37 A	peline Release		49	01 H	awki	ns N	IE -	Albu	aupu	erque	e, NN	M 87	109			
Fare	nine	ton 1	Um 87401	Project	t#:				Te	el. 50	5-34	5-39	975	Fa	ax 5	505-	345-	4107	,			
Phone	#: (50)	-156	14-2281										A	naly	sis F	Requ	uest					
			-2022	Project	t Mana	ger: nnemer		ø	nly)	sel)					040	,,						1 1
QA/QC I	Package:		☐ Level 4 (Full Validation)	Koss	s Kei	nnemer			TPH (Gas only)	(Gas/Diesel)					PO4,S	PCB's						
Accredi				Sampler: Rasskenne mer				1	PH (=	=			02,	082						
□ NEL	AP	□ Oth	er	Sampler: Rass Kennemer On Ice: Yes No					+	015B	418.1)	504.1)	PAH)	<i>ω</i>	3	8/8		8				or
	□ EDD (Type)			Sampl	e Temi	oerature: :::::::		H	+ MTBE	8 pc	pol 4	pol	o	etal	C,N	cide	(A)	Š				S (
Date	Time	Matrix	Sample Request ID	1	Container Type and #				W + X	TPH Method 801	TPH (Method	(Method	O (PNA or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	0 (Semi-VOA)				Air Bubbles (Y or N)
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C	hain	of-Cu	stody Record	Turn-Around Time:							44		FI	NV	TE	20	NP	4 E	NT	AI	
Client	nimas	Envicor	mental Services	X Standard □ Rush					HALL ENVIRONMENTAL ANALYSIS LABORATORY												
				Enterprise Hoducts Confirming Lateral #-37-Pipeline Retease				www.hallenvironmental.com													
Mailing	Address	6248	Commehe					4901 Hawkins NE - Albuquerque, NM 87109													
Farmin ton MM 87401				Project #:				1	el. 5	05-34	15-39	975	F	ах	505-	345	4107	7			,
Phone	#/500	1564-	2281									Α	naly	sis	Req	uest	:				
Farmington, NM 87401 Phone #/505/564-2281 email or Fax#: 324-2022				Project Manager:			1	1 3	sel)					04)							
QA/QC Package: Standard Level 4 (Full Validation)				Koss Kennemer				+ TPH (Gas only)	sas/Die					,PO4,S	PCB's						
Accreditation				Sampler: Ross Kennemer				Hd	9 (0	=	=	⊋		NO2	308						5
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALTNO	DTCV 1.4	BTEX + MTRE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
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if	f necessary,	semples subr	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratorie	s. This serves as notice to	of this pos	sibility	. Any s	ub-con	tracted	d data	will be	dear	ty nota	ated or	the ar	nalytica	ıl repor	t.	

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action																	
						OPERA'	ΓOR		☐ Initial Report ☐ Final Re								
Name of Co	ompany E	nterprise Pro	ducts		(Contact Aa	ron Dailey										
		venue, Farm		NM 87401			No. (505) 599-2										
Facility Na	me Val Ve	erde Gas Pla	nt		1	Facility Type Amine Treating Plant											
Surface Ow	ner Privat	e		Mineral ()wner I	Private			API No).							
				LOCA	ATION	TION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County							
SE/4 SE/4	11	29N	11W							Sant	Juan	ι					
			Lat	itude N 36 485	8" 1	ongitude	W 108 1200'	,									
Latitude_N 36.4858" LongitudeW 108.1200" NATURE OF RELEASE																	
Type of Rele	ease Natural	l gas condensa	ate and wa		UKE	Volume of			Volume I	Recovered							
-5,7		9				5 -10 barre	els estimated		136 cubic	yards of sta	ained so	oil was					
Source of Re	elease Train	7 + 8 sump o	verflow			Date and I	lour of Occurrence	ce	Date and	Hour of Dis	covery						
							@ 0:630 (estimate	ed)		2 @ 0:6:50							
Was Immedi	ate Notice C		Yes [No Not R	equired	If YES, To	Whom?										
By Whom?						Date and I											
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	olume Impacting t	the Wate	ercourse.								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*													
Describe Car	use of Proble	em and Reme	dial Actio	n Taken.* A pu	mp isola	tion valve wa	as leaking liquids	which w	as not disc	covered unti	l after t	he startup of					
		ed an overflor e affected area		imp. Operator dis	covered	the release a	nd shut in all equi	ipment a	nd piping a	and began w	orking	on					
				ken.* The area	affected	by the conde	nsate and water is	s located	on Enterp	rise property	y well i	nside the					
							pproximately 15 fe				party						
I hamby cont	al contracto	r oversaw the	cleanup e	fforts. The third	party env	ironmental c	orrective action re knowledge and u	eport is	attached to	this c-141.	OCD -	11					
							nd perform correct										
							arked as "Final R										
should their	operations h	ave failed to	adequately	investigate and r	emediate	contaminati	on that pose a thr	eat to gr	ound water	r, surface wa	ater. hu	man health					
				otance of a C-141	report de	oes not reliev	e the operator of	responsi	bility for c	ompliance v	vith any	other					
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	/ (OIL CON	SEKV	ATION	DIVISIO	JN A						
Signature:	Hay	1								1100	///						
Printed Nam	e: Aaron D	ailey			2	Approved by	Environmental S	pecialist	Jone	HO J.	elle	<i>y</i>					
Title: Enviro	onmental Sc	ientist			1	Approval Da	ie: 6/04/2	0121	Expiration	Date:		0					
E-mail Addr	ess: amdaile	y@eprod.con	n		(Conditions o	f Approval:		Attached								
Date: 5.22.	2012	Ph	one: (505) 599-2286		, market 🗀											

* Attach Additional Sheets If Necessary

ri5K1215638989

RCVD MAY 25'12 OIL CONS. DIV. DIST. 3





April 19, 2012

Aaron Dailey Enterprise Products Company 614 Reilly Avenue Farmington, New Mexico 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RE: Valverde Plant Train 8 Sump Release Report **February 2012 Release** San Juan County, New Mexico

Dear Mr. Dailey:

RCVD MAY 25 17 DIL CONS. DIV. DIST. A

On March 5, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with release of an unknown amount of natural gas condensate and water from the Enterprise Products Company (Enterprise) Valverde Plant Train 8 sump. The release, which is located approximately 2 miles northeast of Bloomfield, San Juan County, New Mexico, resulted from an overflow of the Train 8 sump at Enterprise's Valverde Plant.

Site Information 1.0

1.1 Location

Location - SE¼ NE¼, Section 14, T29N, R11W, San Juan County, New Mexico Latitude/Longitude - N36.72841 and W107.95591, respectively Surface Owner - Private

Figure 1 – Topographic Site Location Map

Figure 2 - Aerial Site Map

Figure 3 – Soil Borings and Sample Locations, February 2012 Release

Figure 4 – Excavation Sample Locations and Results, February 2012 Release

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and information obtained from the facility groundwater discharge permit cites that groundwater ranges from 26 to 55 feet below ground surface (bgs) on the southern half of the facility. This information was used in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private domestic water wells, and records of one nearby registered water well (SJ 0007) were located.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. Based on an elevation differential between the release location (5,587 feet above mean sea level (amsl) and information obtained from the facility discharge permit, groundwater is estimated to be less than 50 feet bgs. Distance to the nearest surface water body, Citizens Ditch, is approximately 1,000 feet southwest of the release location. One water well (SJ 0007) is located within the facility within 1,000 feet of the release location. The location was assessed a NMOCD ranking score of 20.

1.3 Assessment and Mitigation

Initial response and remediation activities were performed by Enterprise contractor West States Energy Contractors (WSEC) on February 26, 2012. WSEC contained the release and excavated soil where visible staining was observed. WSEC stockpiled the petroleum hydrocarbon contaminated soil on plastic sheeting outside the fence on the southern property boundary. After the initial response activities were completed, WSEC backfilled the excavated areas; however, no closure samples were collected.

On February 27, 2012, Tom Long of AES completed a site assessment at the release location. Six soil borings were installed to depths of 3 feet bgs with a hand auger, and soil samples were collected for field screening. Soil boring locations are included on Figure 3.

On March 5, 2012, WSEC completed an excavation south of the Train 8 sump to remove petroleum hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base of the excavation. A test hole was also excavated approximately 25 feet to the west of the south end of the excavation to confirm that no hydrocarbon contamination was present further west.

The final excavation covered an area of approximately 729 square feet with an average depth of 4 feet deep. Approximately 136 cubic yards of petroleum hydrocarbon contaminated soil were transported by Doug Foutz Construction to Industrial Ecosystems, Inc. (IEI), located near Aztec, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with clean imported fill. A photograph log and waste manifests are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected nine composite soil samples (SC-1 through SC-9) and one discrete soil sample (TH-1) from the excavation base,

excavation sidewalls, and one test hole for field screening and confirmation laboratory analyses. Excavation samples (SC-1 through SC-9) were collected at depths ranging from 3 to 5 feet bgs, and the test hole sample TH-1 was collected at above 3 feet bgs. Soil sample locations are included on Figure 4.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field-screening for volatile organic compounds (VOC) vapors was conducted with a Photo Ionization Detector (PID) Organic Vapor Meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (SC-1 through SC-9 and TH-1) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

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

2.3 Soil Field Screening and Laboratory Analytical Results

On February 27, 2012, soil samples collected for field screening (SB-1 through SB-6) had VOC concentrations (via OVM) ranging from 0.8 ppm in SB-6 (2 feet bgs) up to 772 ppm in SB-1 (1 foot bgs). VOC readings are included in Table 1 and presented on Figure 3.

On March 5, 2012, soil field screening results showed VOC concentrations that ranged from 3.0 ppm in TH-1 up to 138 ppm in SC-9. VOC readings are included in Table 1 and on Figure 4.

Laboratory analytical results for soil samples collected at SC-1 through SC-9 and TH-1 showed that benzene, total BTEX and TPH concentrations were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Table 1 and on Figure 4. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results Valverde Plant Train 8 February 2012 Release

			VOCs		Total	ТРН-	TPH-
Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	Date	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMO	CD Action Le	evel*	100	10	50	10	00
SB-1	2/27/12	1	772	NA	NA	NA	NA
	2/27/12	2	272	NA	NA	NA	NA
SB-2	2/27/12	1	6	NA	NA	NA	NA
	2/27/12	2	230	NA	NA	NA	NA
SB-3	2/27/12	1	296	NA	NA	NA	NA
	2/27/12	2	68	NA	NA	NA	NA
SB-4	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.6	NA	NA	NA	NA
SB-5	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.8	NA	NA	NA	NA
SB-6	2/27/12	1	3.5	NA	NA	NA	NA
	2/27/12	2	0.8	NA	NA	NA	NA
	2/27/12	3	5.8	NA	NA	NA	NA
SC-1	3/5/12	1-3	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	3	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	1-3	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	1-3	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	4	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	1-4	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	5	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	1-5	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	1-4	138	<0.049	<0.244	<4.9	<9.9
TH-1	3/5/12	3	3.0	<0.049	<0.244	<4.9	<9.6

^{*}Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993); NA is not analyzed.

3.0 Conclusions and Recommendations

AES completed an assessment of the Valverde Plant Train 8 sump release in February and March 2012. Soil field screening and laboratory analytical results showed that concentrations for benzene, BTEX and TPH were below laboratory detection limits or well below applicable standards. Note that VOC field screening readings from SC-8 (126 ppm) and SC-9 (138 ppm) on March 5, 2012, were confirmed with laboratory analyses for benzene and BTEX and showed concentrations to be below laboratory detection limits or below the NMOCD threshold of 10 mg/kg for BTEX.

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, petroleum hydrocarbon impacted soils have been removed to below NMOCD action levels. No further work is recommended.

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

Sincerely,

Thomas Long Field Geologist

Elizabeth McNally, P.E.

Elizabeth V Mervelly

Thomas ff- Long

Mr. Aaron Dailey Valverde Plant Train 8 Sump February 2012 Release Report April 19, 2012 Page 6 of 6

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Soil Boring and Sample Locations, February 2012 Release

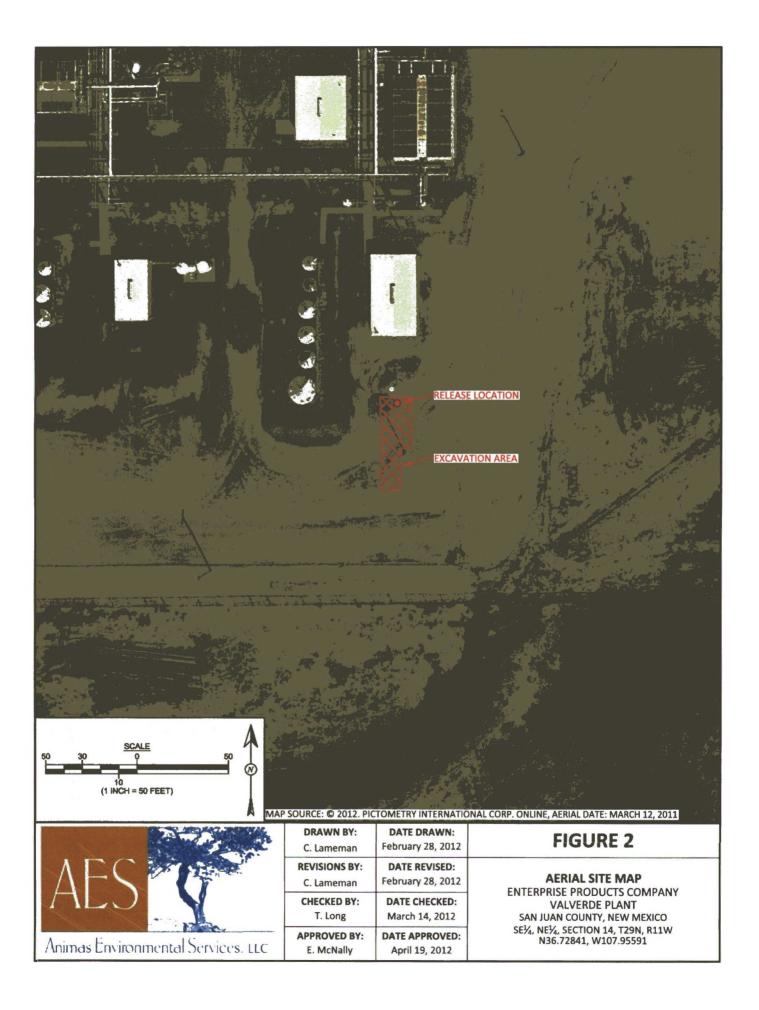
Figure 4. Excavation Sample Locations and Results, February 2012 Release

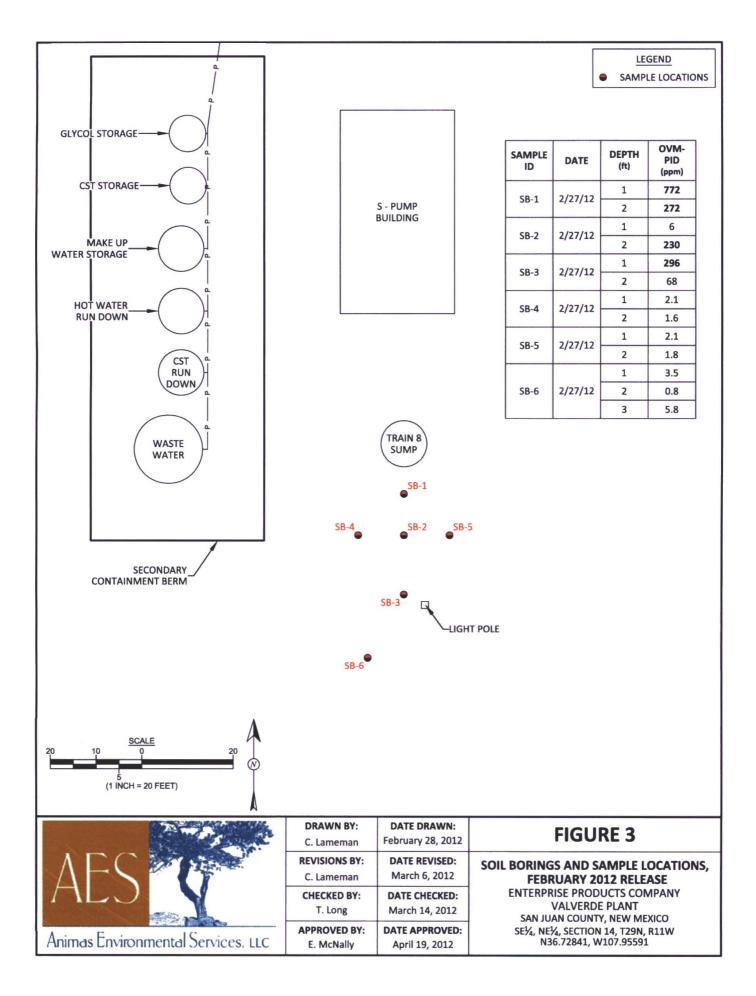
Photograph Log

Waste Disposal Manifests (C-138 documents)

Laboratory Analytical Reports (Hall 1203156)

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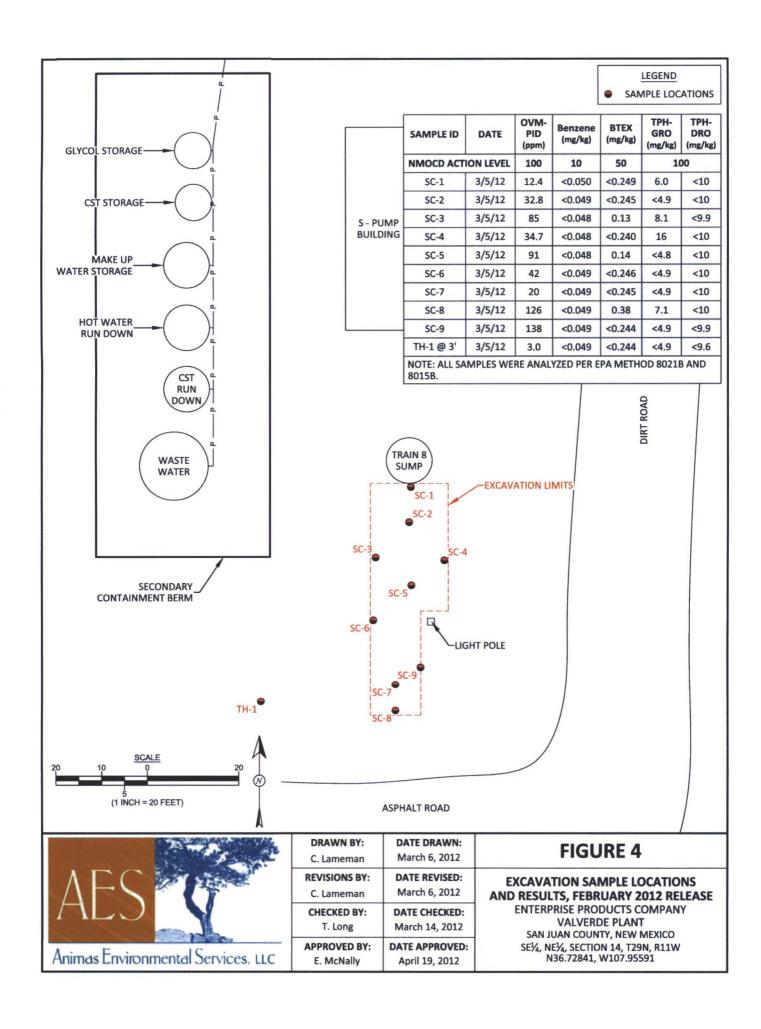
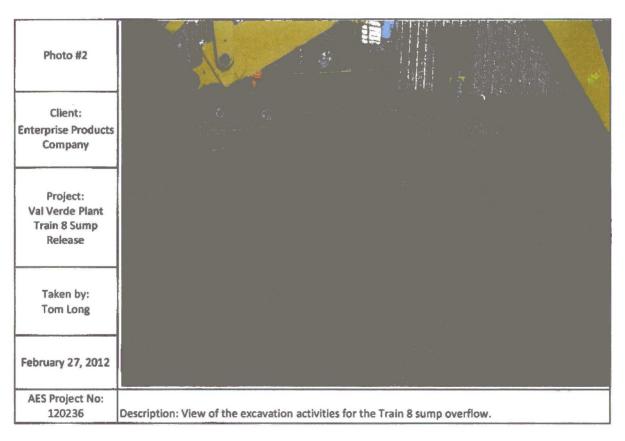
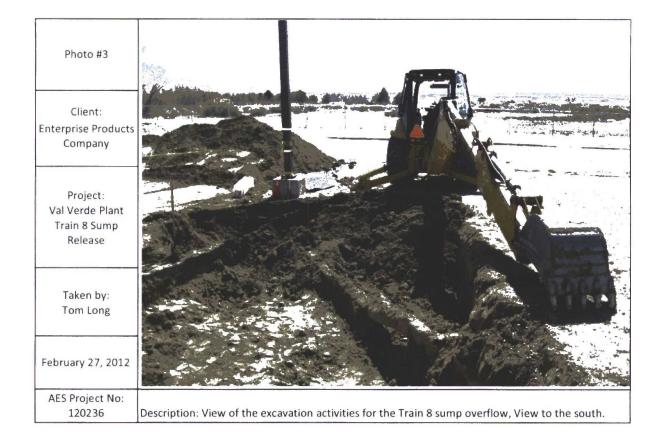


Photo #1		
Client: Enterprise Products Company		
Project: Val Verde Plant Train 8 Sump Release		
Taken by: Tom Long		
February 27, 2012		
AES Project No: 120236	Description: View soil boring SB-1 during the initial investigation.	





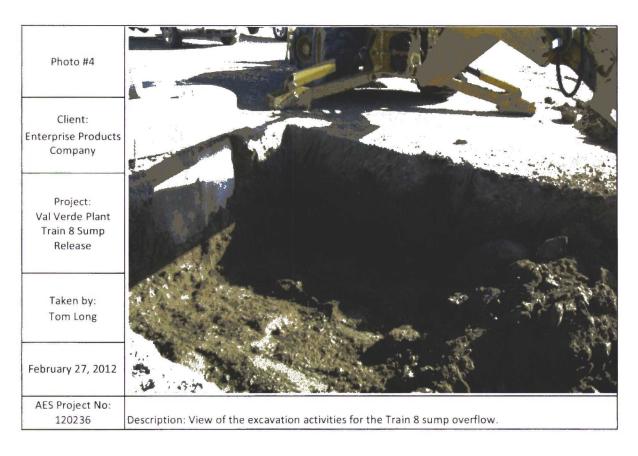


Photo #5

Client:
Enterprise Products
Company

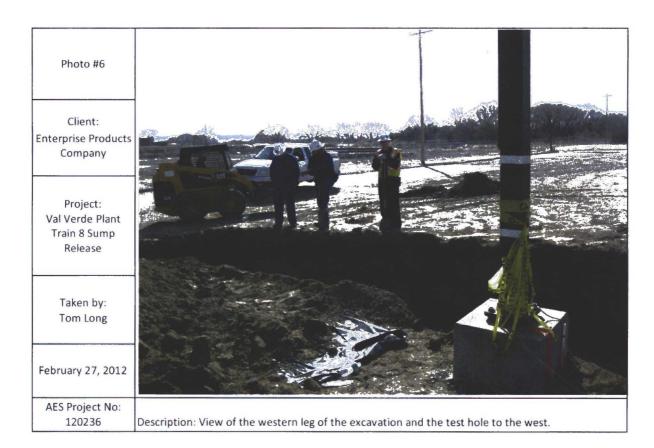
Project:
Val Verde Plant
Train 8 Sump
Release

Taken by:
Tom Long

February 27, 2012

AES Project No:
120236

Description: View of the excavation activities for the Train 8 sump overflow.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

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

Form C-138 Revised 08/01/11

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505	
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	
1. Generator Name and Address:	
Enterprise Products Operating, L.P.	
2. Originating Site: Val Verde Gas Treating Facility PAYICE: JA130 61	
3. Location of Material (Street Address, City, State or ULSTR): Sec 14/T29N/R11W, Lat 107.9820W Lon 36.7327N, 1119 County Road 4900, Bloomfield, NM 87413 3-7-17 (00) Ca	
Sec 14/T29N/R11W, Lat 107.9820W Lon 36.7327N, 1119 County Road 4900, Bloomfield, NM 87413 3-7-/2 (60 c. 4. Source and Description of Waste: Source: Amine train 7 and 8 Sump Area	P
Source: Amme train / and o Samp Area	
Description: Exempt condensate stained soil from release cleanup activities	.
Estimated Volume 40 yd / bbls Known Volume (to be entered by the operator at the end of the haul) (yd) / bbl	S
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	1
I,Aaron Dailey representative or authorized agent for Enterprise Products do hereby do hereby Signature	
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's Jul 1988 regulatory determination, the above described waste is: (Check the appropriate classification)	
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load** **Transport of the content of th	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazard by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, p 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazard (Check the appropriate items)	
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box ☐ **	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	
I, representative for Enterprise Products authorize JFJ/IEI to com-	
Generator Signature the required testing/sign the Generator Waste Testing Certification.	
I, cepresentative for do hereby certify that	
Representative/Agent Signature	
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the	
samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC.	
The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: West States Energy Contractors (505)632-6988	\dashv
OCD Permitted Surface Waste Management Facility	
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B	
Address of Facility: #49 CR 3150 Aztec, NM 87410	1
Method of Treatment and/or Disposal:	_
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other	
Waste Acceptance Status:	
APPROVED DENIED (Must Be Maintained As Permanent Record) - />
RINT NAME: L'Machardo TITLE: Chiral DATE: 3-5	12
SIGNATURE: TELEPHONE NO.: 505-632-1782	

Surface Waste Management Facility Authorized Agent

		Waste Profile #						
Requested Disposal Facility:	BONDAD LANDFILL		WCA	A Sales Rep:Susan Wright				
			VVCA					
I. Generator Inform			Date:	APRIL 16, 2012				
	RISE PRODUCTS COMPANY							
	T H, SEC 14, T29N, R11W; N 3							
City:	County: SAN JUAN	State: NEW MEXICO		Zip:				
Generator Mailing Address(If	Different): 614 REILLY AVENU	E						
City: FARMINGTON	County: SAN JUAN	State: NM		Zip: 87401				
Generator Contact Name (pri	nt): AARON DAILEY	T						
Phone Number: 505-599-228		Fax Number:						
IIa. Transporter Info	rmation							
Transporter Name: TO BE D	ETERMINED	Transporter Conta	ct Nam	e:				
Transporter Address:								
City:	City: County: State:							
Phone Number:		Fax Number:						
IIb. Billing Information	on							
Bill To: ENTERPRISE PRO	ODUCTS COMPANY							
Billing Address: 614 REILL				T				
City: FARMINGTON III. Waste Stream In	County: SAN JUAN	State: NM		Zip: 87401				
Name of Waste: CARBON M								
	EXEMPT WASTE FROM NATUR	RAL GAS PROCESSING	AND	TREATING PER				
) CFR 261.4(b)(5)	V.E 0/10 1/10 0 E 0 0 1/10	71110	THE THIRD I EN				
40	7 OF IX 201.4(b)(3)							
Type of Waste: X Ind	lustrial Process Waste	Pollution Control Waste						
Physical State: X Solid		Powder Liqui	d	Other:				
Method of Shipment:X	Bulk Bagged	Other:						
	_600 Cubic Yards			Other:				
Frequency: One Time	e Daily We	ekly _X Monthly		Other				
Special Handling Instructions:								
IV. Representative Sam	ple Certification							
Is the representative sample of	collected to prepare this profile a celines or equivalent rules?	and laboratory analysis,	collecte	ed in accordance with U.S.				
Sample Date: 4/10/2012	Type of Sample: X Com			mple				
Laboratory: HALL ENVIRONM		Sample ID Numbers: Carbon Media		SEE ANALYTICAL REPORTS				
Sampler's Employer: ANIMAS	S ENVIRONMENTAL SERVICE							
Sampler's Employer: ANIMAS ENVIRONMENTAL SERVICES Sampler's Name (printed): Kelsey Christiansen Signature:								

					Was	ste Profile #				

	ical Characteris	tics of Waste								
Characteristic					% by weight (range))				
1. CAR	BON MEDIA				100					
		X THE								
Color BLACK	Odor (describe) HYDROCARBON	Free Liquids Yes X No	% Solids 100	pH:	Flash Point:	Phenol				
		Content %			°F	ppm				
Attach Laborat	ory Analytical Report	(and/or Material Safet	ty Data Sheet) Ir	ncluding Requi	red Parameters provi	ided for this Profile				
following Pesti epoxides), Lin- in 40 CFR 261		les: Chlordane, Endr Toxaphene, 2,4-D, o	in, Heptachlor (r 2, 4,5-TP Silve	and it ex as defined	Yes or _X	No				
	te or generating proc ls of Hydrogen Sulfid				Yes or _X No					
	te contain regulated of fined in 40 CFR Part		ychlorinated Bip	ohenyls	Yes or _X	No				
Does this was	te contain regulated of	concentrations of liste			Yes orX_	No				
	CFR 261.31, 261.32, te contain regulated of			olvents?						
	enzodioxin (2,3,7,8-T			d in 40 CR	Yes orX_ N	No				
Is this a regula	ted Toxic Material as	defined by Federal	and/or State reg	gulations?	Yes orX_ I	No				
Is this a regular regulations?	ted Radioactive Was	te as defined by Fed	eral and/or Stat	te	Yes or _X	No				
	ted Medical or Infecti	ous Waste as define	d by Federal ar	nd/or State	Yes orX_ N	10				
	enerated at a Federa	Superfund Clean U	p Site?		Yes orX_ I	No				
	rator Certification									
description of the Analytical Result further certify the attempt to deliver waste material condition pertagacility/recycling the company has a company to the company that company that company the company that company the company that company that company the compa	that to the best of methe waste material becoming the waste material becomes that by utilizing this prover for disposal any wethis facility is prohibitining to the waste not gracility against any lass not altered the for ants that he/she is autility the waste is autility.	ing offered for disposed at a Sheets submitted offile, neither myself of a steep which is classified from accepting by the provided herein. Of damages resulting from or content of this part and sheet from accepting from or content of this part and sheet from the sheet from th	sal and all know d are truthful ar nor any other en ied as toxic was y law. I shall in ur company he om this certificatorofile sheet as	or or suspected complete and co	d hazards have been dare representative a company will delive a waste or infectious a written notice of are full indemnify this docurate or untrue. I Clean Environment	n disclosed. All e of the waste. I er for disposal or waste, or any other ny change or lisposal further certify that				
ARON DAILE	Y, ENVIRONMENTA	AL SPECIALIST								

Authorized Representativ	e Signature	Date	
VII. Decision			
Approved	Rejected	Expiration:	
Conditions:			
Name, Title	-	Signature	Date

Authorized Representative Name And Title (Printed)

ENTERPRISE PRODUCTS COMPANY

Company Name

APRIL 16, 2012



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

April 13, 2012

Tami Ross

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 793-2072

FAX

RE: Enterprise Val Verde Plants

OrderNo.: 1204427

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1204427

Date Reported: 4/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Carbon Media

Project: Enterprise Val Verde Plants

Collection Date: 4/10/2012 4:30:00 PM

Lab ID: 1204427-001

Matrix: MEOH (SOIL) Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JMP	
Diesel Range Organics (DRO)	110,000	2,000		mg/Kg	200	4/12/2012 2:41:49 PM
Motor Oil Range Organics (MRO)	ND	10,000		mg/Kg	200	4/12/2012 2:41:49 PM
Surr: DNOP	0	77.4-131	S	%REC	200	4/12/2012 2:41:49 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Range Organics (GRO)	240	100		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: BFB	108	69.7-121		%REC	20	4/12/2012 6:31:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	12	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Toluene	56	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Ethylbenzene	2.9	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Xylenes, Total	16	2.0		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%REC	20	4/12/2012 6:31:55 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Result

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS Batch ID: 1481

RunNo: 2046

Prep Date: 4/11/2012

Analysis Date: 4/11/2012 POL

10

50

SeqNo: 57041

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte

Analyte

Surr: DNOP

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

ND ND 9.9

10.00

99.4 77.4 131

Sample ID LCS-1481

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Prep Date: 4/11/2012

Batch ID: 1481 Analysis Date: 4/11/2012 RunNo: 2046 SeqNo: 57042

Units: mg/Kg

%RPD

Diesel Range Organics (DRO) Surr: DNOP

PQL 41 10 4.7

Batch ID: 1505

50.00 82.8 5.000 93.0

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

62.7

HighLimit 139

131

RPDLimit

Qual

Sample ID MB-1505

Prep Date: 4/12/2012

Client ID: PBS

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics RunNo: 2071

77.4

77.4

LowLimit

Units: %REC

131

131

Analyte Surr: DNOP Result

Analysis Date: 4/12/2012 SPK value SPK Ref Val %REC PQL 10.00

5.000

LowLimit 95.4

SegNo: 57799

HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-1505

Prep Date: 4/12/2012

Client ID: LCSS

SampType: LCS Batch ID: 1505

9.5

TestCode: EPA Method 8015B: Diesel Range Organics RunNo: 2071

Units: %REC

Qual

Analyte Surr: DNOP Result 4.5

Analysis Date: 4/12/2012

SeqNo: 57804 SPK value SPK Ref Val %REC

89.5

LowLimit HighLimit

77.4

%RPD

RPDLimit

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

- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Reporting Detection Limit

RL

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:
Project:

Animas Environmental Services Enterprise Val Verde Plants

Sample ID B5

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS Batch ID: R2054

RunNo: 2054

Analysis Date: 4/11/2012

SeqNo: 57183

Units: %REC

Prep Date:

Result

%REC

Analyte

SPK value SPK Ref Val

100

HighLimit %RPD Qual

Surr: BFB

Lowl imit

69.7

RPDLimit

1,000

1,000

121

Sample ID 2.5UG GRO LCS

SampType: LCS

RunNo: 2054

TestCode: EPA Method 8015B: Gasoline Range

%RPD

%RPD

%RPD

0

Client ID: Prep Date:

LCSS

Batch ID: R2054 Analysis Date: 4/11/2012

SeqNo: 57436

Units: %REC

Analyte

Qual

1,100

SPK value SPK Ref Val 1,000

%REC 111

HighLimit

RPDLimit

Surr: BFB

Sample ID 1204426-002AMS

SampType: MS

69.7 121

RunNo: 2054

TestCode: EPA Method 8015B: Gasoline Range

Client ID: **BatchQC**

Batch ID: R2054 Analysis Date: 4/11/2012

SeqNo: 57437

Units: %REC

SPK value SPK Ref Val

649.7

649.7

SPK value SPK Ref Val %REC

LowLimit

LowLimit

69.7

69.7

HighLimit

121

RPDLimit

Qual

Analyte Surr: BFB

Prep Date:

Result 770

Result

119 TestCode: EPA Method 8015B: Gasoline Range

Sample ID 1204426-002AMSD Client ID: BatchQC

SampType: MSD Batch ID: R2054 Analysis Date: 4/11/2012

RunNo: 2054

SeqNo: 57438

Units: %REC

HighLimit

RPDLimit Qual

S

Qual

Prep Date: Analyte Surr: BFB

POI 790

121

%REC

121

Sample ID MB-1460

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

RPDLimit

Client ID:

PBS

Batch ID: 1460

RunNo: 2089

0

Analyte

Prep Date: 4/10/2012 Analysis Date: 4/12/2012 Result **PQL**

SeqNo: 58688 SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO)

Surr: BFB

ND 1,000

1,100

1,000

25.00

1,000

101

121

Sample ID LCS-1460

Gasoline Range Organics (GRO)

SampType: LCS

5.0

TestCode: EPA Method 8015B: Gasoline Range

%REC

SeqNo: 58689

121

112

69 7

Client ID:

LCSS 4/10/2012 Batch ID: 1460

RunNo: 2089

Prep Date: Analyte

Surr: BFB

Analysis Date: 4/12/2012 **PQL** Result 30 5.0

SPK value SPK Ref Val 0

LowLimit 98.5

69.7

Units: mg/Kg %RPD HighLimit

133

121

- Qualifiers: */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range
- Analyte detected below quantitation limits RPD outside accepted recovery limits
- B
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

- Analyte detected in the associated Method Blank
- Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Sample ID 1204362-001AMS

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

85.4

85.4

69.7

Client ID: **BatchQC** Batch ID: 1460

Prep Date:

4/10/2012

Analysis Date: 4/12/2012

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result **PQL** SPK value SPK Ref Val

23.74

949.7

14.69

14.69

SeqNo: 58709 %REC

HighLimit

Surr: BFB

30 4.7 1,100

63.3 69.7 112

147 121

%RPD

RPDLimit Qual S

Qual

Sample ID 1204362-001AMSD

SampType: MSD

RunNo: 2089

Client ID: **BatchQC** 4/10/2012 Batch ID: 1460

Prep Date:

Analysis Date: 4/12/2012

SeqNo: 58710

Units: mg/Kg

Gasoline Range Organics (GRO) Surr: BFB

Result **PQL** SPK value SPK Ref Val 30 4.7 23.70 1,100 947.9

%REC LowLimit 64.6 114

HighLimit 147 121 %RPD **RPDLimit** 0.922 0

0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client: Animas Environmental Services Project: Enterprise Val Verde Plants

Sample ID B5

SampType: MBLK Batch ID: R2054 TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

RunNo: 2054

Prep Date:

Analysis Date: 4/11/2012

SeqNo: 57190

Units: %REC

Analyte

Result 0.96 SPK value SPK Ref Val 1.000

%REC LowLimit HighLimit 95.8 80

TestCode: EPA Method 8021B: Volatiles

RPDLimit %RPD

Qual

Surr: 4-Bromofluorobenzene

120

Sample ID 1204426-003AMS Client ID: BatchQC

SampType: MS

RunNo: 2054

120

Prep Date:

Batch ID: R2054 Analysis Date: 4/11/2012

SeqNo: 57456

Units: %REC

Analyte Surr: 4-Bromofluorobenzene Result PQL SPK value SPK Ref Val

HighLimit

RPDLimit Qual

0.73

0.7231

%REC LowLimit 101

80

Sample ID 1204426-003AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC

Batch ID: R2054

RunNo: 2054

Units: %REC

%RPD

%RPD

Qual

Analyte

Prep Date:

Analysis Date: 4/11/2012

SeqNo: 57457 LowLimit

HighLimit

RPDLimit

PQL SPK value SPK Ref Val %REC Surr: 4-Bromofluorobenzene 0.7231

Sample ID 100NG BTEX LCS

SampType: LCS

Analysis Date: 4/11/2012

POI

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS

Batch ID: R2054

RunNo: 2054

103

120

SeqNo: 57458

Units: %REC

Analyte

Prep Date:

Result

Result

Result

Result

0.95

1.0

SPK value SPK Ref Val

Surr: 4-Bromofluorobenzene

0.99

%REC LowLimit

HighLimit

RPDLimit

Qual

Qual

Qual

Client ID: PBS

1.000

986

80

%RPD

Sample ID MB-1460

4/10/2012

SampType: MBLK Batch ID: 1460

Analysis Date: 4/12/2012

PQL

TestCode: EPA Method 8021B: Volatiles

120

RunNo: 2089 SeqNo: 58717

Units: %REC

RPDLimit

RPDLimit

Analyte

Prep Date:

Surr: 4-Bromofluorobenzene

0.96

96.1

%REC HighLimit LowLimit

Sample ID LCS-1460

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

%REC

102

I owl imit

%RPD

%RPD

%RPD

Prep Date:

Client ID: LCSS

Batch ID: 1460 Analysis Date: 4/12/2012

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val

1.000

1.000

0.9434

RunNo: 2089 SeqNo: 58718

Units: %REC

HighLimit

120

Analyte Surr: 4-Bromofluorobenzene

4/10/2012

SampType: MS

TestCode: EPA Method 8021B: Volatiles

Sample ID 1204365-001AMS Client ID: BatchQC

Prep Date: 4/10/2012

Surr: 4-Bromofluorobenzene

Batch ID: 1460

Analysis Date: 4/12/2012

PQL

RunNo: 2089

%REC

101

SeqNo: 58737

LowLimit

80

80

Units: %REC

120

HighLimit

RPDLimit

Qual

Analyte

Oualifiers:

*/X Value exceeds Maximum Contaminant Level. Value above quantitation range

B Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

Page 5 of 6

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Sample ID 1204365-001AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC

Batch ID: 1460

RunNo: 2089

Prep Date: 4/10/2012

Analysis Date: 4/12/2012

SeqNo: 58738

Units: %REC

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Surr: 4-Bromofluorobenzene

0.9560

0.97

102

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name:	Animas En	vironmental	1 1	Wo	ork Ore	der I	Numb	oer: 1	20442	7				
Rec	eived by/date	1	20	>4/11/12	_										
Log	ged By:	Ashley Gal	llegos	4/11/2012 10:	05:00 AM				SA	す					
Con	npleted By:	Ashley Gal	llegos	4/11/2012 10:	14:16 AM				SA:	ず					
Rev	iewed By:	1	4	04/11/12	2_				,	0					
Cha	in of Cust	ody	3	, 0 1 1											
	Were seals i					Yes		No	1 1	Not F	Present	V			
	Is Chain of C		plete?			Yes	~	No		Not F	resent				
	How was the					Cour	ier								
Log	ı In														
			- 40 for each	!	->	V	.,	No			NA				
4.	Coolers are	present? (see	e 19. for cooler sp	pecific information	n)	Yes	•	NO			NA				
5.	Was an atter	mpt made to	cool the samples	?		Yes	~	No			NA				
6.	Were all sam	nples receive	ed at a temperatur	re of >0° C to 6.	0°C	Yes	V	No			NA				
-	Constate (a) in		-!(-)0					NI-							
	Sample(s) in			/-\0	*	Yes	.,	No							
			for indicated test			Yes		No							
9.	Are samples	(except VOA	A and ONG) prope	erly preserved?		Yes	V .	No							
10.	Was preserv	ative added t	to bottles?			Yes		No	V		NA				
11.	VOA vials ha	ve zero head	dspace?			Yes		No		No VO	A Vials	~			
12.	Were any sa	mple contain	ners received brok	cen?		Yes		No	v						
13	Does paperv	vork match be	ottle labels?			Yes	~	No			# of pres				
	(Note discrep	oancies on ch	hain of custody)								oottles of for pH:	пескеа			
14.	Are matrices	correctly ide	entified on Chain o	of Custody?		Yes	~	No	1 - 4			(<	2 or >12	unless i	noted)
15.	Is it clear wh	at analyses v	were requested?			Yes	V	No			Ac	ljusted?			
16.	Were all hold	ding times ab	ole to be met?			Yes	~	No	. :						
	(If no, notify	customer for	authorization.)								Ch	ecked by	r:		
Spe	cial Handl	ing (if app	olicable)												
17.	Was client no	otified of all d	discrepancies with	this order?		Yes		No			NA	~			
	Person	Notified:	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Additional Property of the Parket of the Par	Date:	***********		*******		Mich Mandre Lista at B					
	By Who	om:			Via:	eMai	1	Ph	one	Fax	In	Person			
	Regard	ing:		RELIEF CHILDREN		and Miles	-	NAME OF TAXABLE	ALM MINES		AND DESCRIPTION OF THE PARTY OF				
	Client In	nstructions:			************************		-						-		
18	Additional re	marks:													
19.	Cooler Infor		1		1										
	Cooler No	Temp °C		t Present	No Se	eal Dat	te	1 3	Signe	d By	-				

C	Chain-of-Custody Record		Turn-Around Time: Standard Rush by 4/13/12 Project Name: Extreprise Val Verde Plant Project #:						124				EN	n.	TD	_	AI B	4 E N	TA			
Client:	ed An	imas E	Environmenta	.(☐ Standard	Rush	by 41	13/12	HALL ENVIRONMENTAL ANALYSIS LABORATORY													
Mailing	Service	es				MILL		Plant	www.hallenvironmental.com													
Ivialling	Address	624	E. Coman	che	Entroprise val vale				4901 Hawkins NE - Albuquerque, NM 87109													
Farmi	naton	87401	N.M.		Project #:					Tel. 505-345-3975 Fax 505-345-4107												
Phone a	#: So!	5-56	1-2281						Analysis Request													
email o	r Fax#:	tross@	animas environ	mental. Con	Project Manager:				_	(yl	sel)					(4)						
	Package:		☐ Level 4 (Full '			ROS	S		8 (8021)	+ TPH (Gas only)	(Gas/Diesel)	MRO				PO ₄ ,SO ₄)	PCB's					
Accredi	tation				Sampler: Pur	687 386B	d Kers	Stianstr	*	표	9		=		1	٥ ک	8082					
□ NEL	AP	□ Othe	er		Ön ka	MYEST NO			Ħ	F	15	9.	8	AH		3,5	-		8			Z
□ EDD	(Type)				Samole	nermure 🥳			4	H	180	4 6	d 5	P	tals	<u>z</u>	ides	\overline{a}	9			2
Date	Time	Matrix	Sample Re	quest ID	Container Type and #	Preservative Type	erie Program Program	yl no 127	BTEX + MIRE	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals		8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
4/10/12	1630	SOLLD	CARBON ME	DIA	WX 802	MeOto		100-	X		X											
														1		_				\perp	_	
										\dashv	\dashv	\dashv	-	\dashv	\dashv	+	+	\dashv	-	+	+	\vdash
-		2								\dashv	\dashv	\dashv	+	+	+	\dashv	\dashv	\dashv	-	+	+	\vdash
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	necessary	samples sub	mitted to Hall Environme	ntal may be subo	contracted to other a	ceredited laboratorie	s. This serve	s as notice of this	possil	bility. A	Any su	b-cont	racted	data	will be o	clearly	/ notate	ed on	the an	alytical r	eport.	



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

OrderNo.: 1203156

March 08, 2012

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

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

RE: Val Verde Plant Samp Overflow

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/6/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Val Verde Plant Samp Overflow

Lab ID: 1203156-001

Project:

Client Sample ID: SC-1

Collection Date: 3/5/2012 10:55:00 AM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 2:59:02 PM
Surr: DNOP	85.7	77.4-131	%REC	1	3/7/2012 2:59:02 PM
EPA METHOD 8015B: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	6.0	5.0	mg/Kg	1	3/7/2012 12:27:33 PM
Surr: BFB	116	69.7-121	%REC	1	3/7/2012 12:27:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Toluene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2012 12:27:33 PM
Surr: 4-Bromofluorobenzene	99.8	85.3-139	%REC	1	3/7/2012 12:27:33 PM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 1 of 13

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-002

Client Sample ID: SC-2

Collection Date: 3/5/2012 10:58:00 AM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 10:37:18 AM
Surr: DNOP	81.7	77.4-131	%REC	1	3/7/2012 10:37:18 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 12:57:48 PM
Surr: BFB	103	69.7-121	%REC	1	3/7/2012 12:57:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/7/2012 12:57:48 PM
Surr: 4-Bromofluorobenzene	101	85.3-139	%REC	1	3/7/2012 12:57:48 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-003

Client Sample ID: SC-3

Collection Date: 3/5/2012 11:40:00 AM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2012 10:58:40 AM	
Surr: DNOP	87.1	77.4-131	%REC	1	3/7/2012 10:58:40 AM	
EPA METHOD 8015B: GASOLINE R	EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	8.1	4.8	mg/Kg	1	3/7/2012 1:27:56 PM	
Surr: BFB	117	69.7-121	%REC	1	3/7/2012 1:27:56 PM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM	
Toluene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM	
Xylenes, Total	0.13	0.095	mg/Kg	1	3/7/2012 1:27:56 PM	
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 1:27:56 PM	

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 3 of 13

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-004

Client Sample ID: SC-4

Collection Date: 3/5/2012 11:50:00 AM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 11:20:13 AM
Surr: DNOP	90.1	77.4-131	%REC	1	3/7/2012 11:20:13 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	16	4.8	mg/Kg	1	3/7/2012 1:58:18 PM
Surr: BFB	106	69.7-121	%REC	1	3/7/2012 1:58:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Toluene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/7/2012 1:58:18 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 1:58:18 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-005

Client Sample ID: SC-5

Collection Date: 3/5/2012 1:07:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:03:08 PM
Surr: DNOP	90.9	77.4-131	%REC	1	3/7/2012 12:03:08 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/7/2012 2:28:41 PM
Surr: BFB	111	69.7-121	%REC	1	3/7/2012 2:28:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Toluene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Xylenes, Total	0.14	0.095	mg/Kg	1	3/7/2012 2:28:41 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 2:28:41 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-006

Client Sample ID: SC-6

Collection Date: 3/5/2012 1:47:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANG	EPA METHOD 8015B: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:24:33 PM		
Surr: DNOP	88.9	77.4-131	%REC	1	3/7/2012 12:24:33 PM		
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 2:58:40 PM		
Surr: BFB	111	69.7-121	%REC	1	3/7/2012 2:58:40 PM		
EPA METHOD 8021B: VOLATILES					Analyst: RAA		
Benzene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM		
Toluene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM		
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2012 2:58:40 PM		
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 2:58:40 PM		

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-007

Client Sample ID: SC-7

Collection Date: 3/5/2012 2:58:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:46:05 PM
Surr: DNOP	92.2	77.4-131	%REC	1	3/7/2012 12:46:05 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 3:28:55 PM
Surr: BFB	94.5	69.7-121	%REC	1	3/7/2012 3:28:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/7/2012 3:28:55 PM
Surr: 4-Bromofluorobenzene	93.8	85.3-139	%REC	1	3/7/2012 3:28:55 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-008

Client Sample ID: SC-8

Collection Date: 3/5/2012 3:01:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 1:07:32 PM
Surr: DNOP	89.2	77.4-131	%REC	1	3/7/2012 1:07:32 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	7.1	4.9	mg/Kg	1	3/7/2012 3:59:17 PM
Surr: BFB	117	69.7-121	%REC	1	3/7/2012 3:59:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Xylenes, Total	0.38	0.099	mg/Kg	1	3/7/2012 3:59:17 PM
Surr: 4-Bromofluorobenzene	102	85.3-139	%REC	1	3/7/2012 3:59:17 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-009

Client Sample ID: SC-9

Collection Date: 3/5/2012 3:04:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2012 3:20:35 PM
Surr: DNOP	87.9	77.4-131	%REC	1	3/7/2012 3:20:35 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 4:29:27 PM
Surr: BFB	86.8	69.7-121	%REC	1	3/7/2012 4:29:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/7/2012 4:29:27 PM
Surr: 4-Bromofluorobenzene	85.8	85.3-139	%REC	1	3/7/2012 4:29:27 PM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 9 of 13

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-010

Client Sample ID: TH-1@3'

Collection Date: 3/5/2012 3:05:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP				
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2012 3:42:10 PM
Surr: DNOP	88.2	77.4-131		%REC	1	3/7/2012 3:42:10 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: BFB	85.2	69.7-121		%REC	1	3/7/2012 4:59:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: 4-Bromofluorobenzene	84.3	85.3-139	S	%REC	1	3/7/2012 4:59:36 PM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203156

08-Mar-12

Client:

Animas Environmental Services

Project:

Val Verde Plant Samp Overflow

Sample ID MB-966	SampTy	pe: ME	BLK	Test	Code: El	PA Method	8015B: Diese	el Range (Organics	
Client ID: PBS	Batch	ID: 96	6	R	RunNo: 1	303				
Prep Date: 3/6/2012	Analysis Da	ate: 3/	7/2012	S	eqNo: 3	7163	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.9		10.00		88.7	77.4	131			

Sample ID LCS-966	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Batch	ID: 96	6	F	RunNo: 1	303				
Prep Date: 3/6/2012	Analysis Da	ate: 3/	7/2012	S	SeqNo: 3	7224	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.7	62.7	139			
Surr: DNOP	4.3		5.000		86.5	77.4	131			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Page 11 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203156

08-Mar-12

Client: Animas Environmental Services
Project: Val Verde Plant Samp Overflow

Sample ID MB-962 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS Batch ID: 962 RunNo: 1340

Prep Date: 3/6/2012 Analysis Date: 3/7/2012 SeqNo: 37738 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1,000 96.2 69.7 121

Sample ID LCS-962 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS Batch ID: 962 RunNo: 1340

Prep Date: 3/6/2012 Analysis Date: 3/7/2012 SeqNo: 37741 Units: mg/Kg

%RPD Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 31 5.0 25.00 0 125 98.5 133

 Surr: BFB
 1,000
 1,000
 104
 69.7
 121

Sample ID 1203156-001AMS SampType: MS TestCode: EPA Method 8015B: Gasoline Range

Client ID: SC-1 Batch ID: 962 RunNo: 1340

Prep Date: 3/6/2012 Analysis Date: 3/7/2012 SeqNo: 37742 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.8 24.25 6.024 119 85.4 147

Gasoline Range Organics (GRO) 35 4.8 24.25 6.024 119 85.4 147 Surr: BFB 1,000 969.9 105 69.7 121

Sample ID 1203156-001AMSD SampType: MSD TestCode: EPA Method 8015B: Gasoline Range

Client ID: SC-1 Batch ID: 962 RunNo: 1340

Prep Date: 3/6/2012 Analysis Date: 3/7/2012 SeqNo: 37743 Units: mg/Kg

SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 41 4.9 24.51 6.024 142 85.4 147 15.6 19.2 Surr: BFB 1,000 980.4 105 69.7 121 0 0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Page 12 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203156

08-Mar-12

Client:

Animas Environmental Services

Project:

Val Verde Plant Samp Overflow

Sample ID MB-962	SampType: MBLK TestCode: EPA Method 8021							iles		
Client ID: PBS	Batch	n ID: 96	2	F	RunNo: 1	340				
Prep Date: 3/6/2012	Analysis D	ate: 3/	7/2012	S	SeqNo: 3	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	85.3	139			

Sample ID LCS-962	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 96	2	F	RunNo: 1	340				
Prep Date: 3/6/2012	Analysis D	ate: 3/	7/2012	8	SeqNo: 3	7771	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.2	83.3	107			
Toluene	0.99	0.050	1.000	0	99.4	74.3	115			
Ethylbenzene	1.1	0.050	1.000	0	105	80.9	122			
Xylenes, Total	3.3	0.10	3.000	0	109	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	85.3	139			

Sample ID	1203156-002AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	SC-2	Batch	ID: 962	2	F	RunNo: 1	340				
Prep Date:	: 3/6/2012 Analysis Date: 3/7/2012 SeqNo: 37788 Units: mg/Kg										
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.049	0.9756	0	104	67.2	113			
Toluene		1.1	0.049	0.9756	0	110	62.1	116			
Ethylbenzene		1.1	0.049	0.9756	0.009931	116	67.9	127			
Xylenes, Total		3.6	0.098	2.927	0.05949	120	60.6	134			
Surr: 4-Brom	ofluorobenzene	0.91		0.9756		93.7	85.3	139			

Sample ID 1203156-002AMSI	D SampTy	pe: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SC-2	Batch	ID: 96	2	F	RunNo: 1	340				
Prep Date: 3/6/2012	Analysis Da	ate: 3/	7/2012	S	SeqNo: 3	7795	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9930	0	102	67.2	113	0.251	14.3	
Toluene	1.1	0.050	0.9930	0	106	62.1	116	1.76	15.9	
Ethylbenzene	1.1	0.050	0.9930	0.009931	113	67.9	127	1.44	14.4	
Xylenes, Total	3.5	0.099	2.979	0.05949	117	60.6	134	1.01	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9930		107	85.3	139	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1203156 Client Name: Animas Environmental Received by/date:> Logged By: **Ashley Gallegos** 3/6/2012 10:00:00 AM Completed By: **Ashley Gallegos** 3/6/2012 10:53:56 AM Reviewed By: Chain of Custody Yes No 1. Were seals intact? Not Present 2. Is Chain of Custody complete? Yes V No Not Present 3. How was the sample delivered? Courier Log In Yes V No NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes V No 5. Was an attempt made to cool the samples? NA 🗌 Yes V No 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes No V 10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗌 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Yes V No Adjusted? 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? Yes V No (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 4.5 Good Yes

Chain-or-Custody Record				Turn-Around Time:											NI W	TE				NIT	- 4.1	
Client:	Anina	· Pau	Services	☑ Standa	ard	□ Rush															AL OR	,
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⊋A/QC I	ackage:		□ Level 4 (Full Validation)					\$ (8021)	(Gas only)	(Gas/Diesel)					PO4,SC	PCB's						
Accredi ☐ NEL		□ Othe	r	Sampler:		Yes V	ONE CALL	+ TMB's	+ TPH	8015B (G	418.1)	04.1)	AH)		O3,NO2	s / 8082		(A)				o Z
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Date	Time	Matrix	Sample Request ID	Containe Type and	er Pre	eservative Type		BTEX + MTBE -	BTEX + MTBE	TPH Method	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)						Air Bubbles (Y or N)			
1/12	1055	Soil	Sc-1	1 x 402	K. R	(Mase)	,	X		X												
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November 14, 2011

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

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RE: Soil Sampling Results for Lateral 2B-24 October 2011 Release San Juan County, New Mexico

Dear Mr. Dailey:

RCVD APR 5'12 OIL CONS. DIV. DIST. 3

Animas Environmental Services, LLC (AES) is pleased to provide the initial report and soil sampling results for a release which occurred along the Enterprise Products Company (Enterprise) 6-inch diameter Lateral 2B-24 pipeline, located approximately 7 miles southeast of Bloomfield, San Juan County, New Mexico. The release was reported by a third party on October 10, 2011. On the same date, Enterprise Bisti Gathering Area technicians were dispatched to isolate the leak, depressurize the line, and lock/tag out associated control valves.

1.0 Release Information

1.1 Release Location

The release is located on Bureau of Land Management (BLM) leased land along the Enterprise Lateral 2B-24 pipeline within the SW¼, NE¼, Section 22, T28N, R10W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36° 38.920' and W107° 52.767'. The approximate site elevation is approximately 6,020 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 among rolling hills comprised of minor sandstone outcrops. Surface runoff drains north towards an unnamed tributary of Armenta Canyon, which flows north and ultimately discharges into the San Juan River several miles to the north. Based on the surrounding topography and landforms observed at the release location, AES has estimated the depth of groundwater to be greater than 100 feet below ground surface (bgs). The release is not located within a wellhead protection area and is located more than 1,000 feet from a surface water body.

1.2 Site Activities

AES was initially contacted by Aaron Dailey of Enterprise on October 11, 2011, and on October 14, 2011, Ross Kennemer and Blaine Watson of AES met with Enterprise representative Aaron Lucero at the release location. Initial line repair and excavation activities were completed when AES arrived on site. Representatives from Enterprise, AES, and EMS (excavation contractor) were present on-site during the initial site activities. The cause of the release was attributed to a line leak due to corrosion on the underside of the line.

Following repair of the line leak, Enterprise and EMS expanded the excavation to remove contaminated soil to the estimated extent of the release. At the request of Mr. Lucero, AES collected field screening samples to evaluate the level of contamination present in the walls and base of the excavation. Due to elevated field screening readings in the north and south walls, and in the base of the excavation, the north side of the excavation was deepened to try to define the vertical extent of contamination. The excavation was deepened at the direction of Enterprise personnel on the basis of field screening of soil samples conducted by AES. AES also field screened stockpiled material previously removed from the excavation and found elevated readings in three different composite field samples. AES informed Enterprise that all the excavated material also appeared to be contaminated.

On October 14, 2011, due to limited effectiveness of digging with a safety bar installed on the excavator bucket teeth, the equipment operator was able to deepen the excavation to a maximum depth of only about 10 feet bgs. As a result, the excavation was terminated about 2 feet below the first depth at which semi-competent sandstone was encountered. At the depth of 10 feet bgs, a field screening reading indicated significant contamination was still present, so AES and Enterprise decided to collect a preliminary laboratory sample to determine the analytical concentration of contaminants for purposes of comparison with field results. The sample was sent for rush analysis so results would be available for further work planned for October 17, 2011. AES was requested to return to the site on October 17, 2011, to continue field screening and for possible confirmation sample collection. Enterprise personnel also requested permission for the operator to remove the safety bar from the excavator bucket to permit easier digging within the sandstone material.

On October 17, 2011, AES returned to the release location to continue field screening of the excavated materials and collect confirmation samples if needed. Billy Snell was the Enterprise representative on the date. Excavation continued on the north side of the pipeline to a depth of approximately 20 feet bgs. Excavated materials were sampled for field screening at intervals of 1 to 2 feet. Although field screening readings initially decreased over a depth of a few feet, with increased depth the readings stabilized and

Mr. Aaron Dailey Lateral 2B-24 October 2011 Release Report November 14, 2011 Page 3 of 5

then increased again. The sample collected at 20 feet bgs (the maximum excavation depth of the backhoe) had strong odors and a high field screening reading. Limited vertical excavation was then conducted on the south side of the pipeline, but elevated readings were still present at a depth of 12 feet bgs when further work was terminated for the day. AES was requested to return to the site on October 18, 2011, when larger excavation equipment was to be mobilized to the site by EMS.

On the morning of October 18, 2011, AES mobilized to the site but received a phone call and was informed that Enterprise had postponed further work at the site. Enterprise indicated that the excavation would be backfilled, and additional investigation of the release would be scheduled with AES in the future.

The primary excavation area along the pipeline measured approximately 20 ft long by 10 ft wide by 20 ft deep. During the removal of contaminated soil, approximately 88 cubic yards were transported by Sweazea Trucking for disposal at the Envirotech Landfarm, near Bloomfield, New Mexico. Approximately 88 cubic yards of clean soil were transported by Sweazea Trucking from Envirotech for use as backfill. A limited amount of clean overburden from the site was also utilized as backfill material. A photograph log is attached along with waste manifests.

On October 20, 2011, Ross Kennemer of AES and Aaron Dailey and David Smith of Enterprise conducted a short field visit to discuss additional release investigation work. Based on this visit, AES will propose the installation of a passive soil venting well within the release area to allow natural volatilization of the contaminants to occur through wind-driven or solar-assisted venting to the atmosphere.

2.0 Soil Sampling

On October 14, 2011, AES personnel conducted soil field screening and collected a single soil grab sample from within the Lateral 2B-24 October 2011 release excavation. One sample (S-1) was collected from the excavation base at a depth of approximately 10 feet bgs. Soil sample locations are included on Figure 3.

2.1 Soil Field Screening

Samples from the excavation were field screened for volatile organic compound (VOC) vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with isobutylene gas.

Upon completion of excavation and line repair activities, initial OVM readings were taken prior to the collection of the laboratory sample. OVM measurement locations and results are presented in Table 1 and in Figure 3.

2.2 Soil Laboratory Analyses

One confirmation soil sample (S-1) for laboratory analysis was collected from approximately 10 feet bgs in the base of the initial excavation. The sample for laboratory analysis was placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil sample was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- 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 2B-24 October 2011 Release

		OVM			Ethyl-			TPH-	TPH-
Sample ID and Date	Depth (ft)	Result (ppm)	Benzene (mg/kg)	Toluene (mg/kg) NM	benzene (mg/kg) OCD Action	Xylene (mg/kg) Level	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
		100	10	NE	NE	NE	50	10	00
S-1	10	4.500	<10	210	97	960	<1.277	7.500	630

^{*}Note - NE is not established

Elevated OVM field screening results were associated with elevated total BTEX, TPH-GRO, and TPH-DRO in the laboratory analyzed sample S-1. Although benzene was reported below the laboratory detection limit and below the applicable New Mexico Oil Conservation Division (NMOCD) action level, the NMOCD action levels for total BTEX, TPH-GRO and TPH-DRO were all exceeded. Laboratory analytical results are included in Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Recommendations

Based on field observations and laboratory analytical results for the preliminary soil samples, soil at the release site contains total BTEX, TPH-GRO, and TPH-DRO contaminants above the NMOCD action levels applicable for this release.

AES recommends that Enterprise conduct additional field work to begin remediation of the release. Initially, AES proposes that a soil venting well(s) be installed within the release zone utilizing a truck-mounted environmental drilling rig. The drill rig would be able to conduct a determination of the vertical extent of soil contamination beyond the 20-foot depth currently known. During the same mobilization, AES would utilize the drilling rig to install a passive soil venting well that would be vertically screened across the entire contaminated soil zone. The passive venting well would be capped with a wind-driven or solar-assisted vent mounted on a stick-up surface completion, so that soil contamination could be transferred to the vapor phase and vented to the atmosphere. A proposed well schematic 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,

Elizabeth McNally, P.E.

Elizabeth V Milly

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Sample Location Map, October 2011

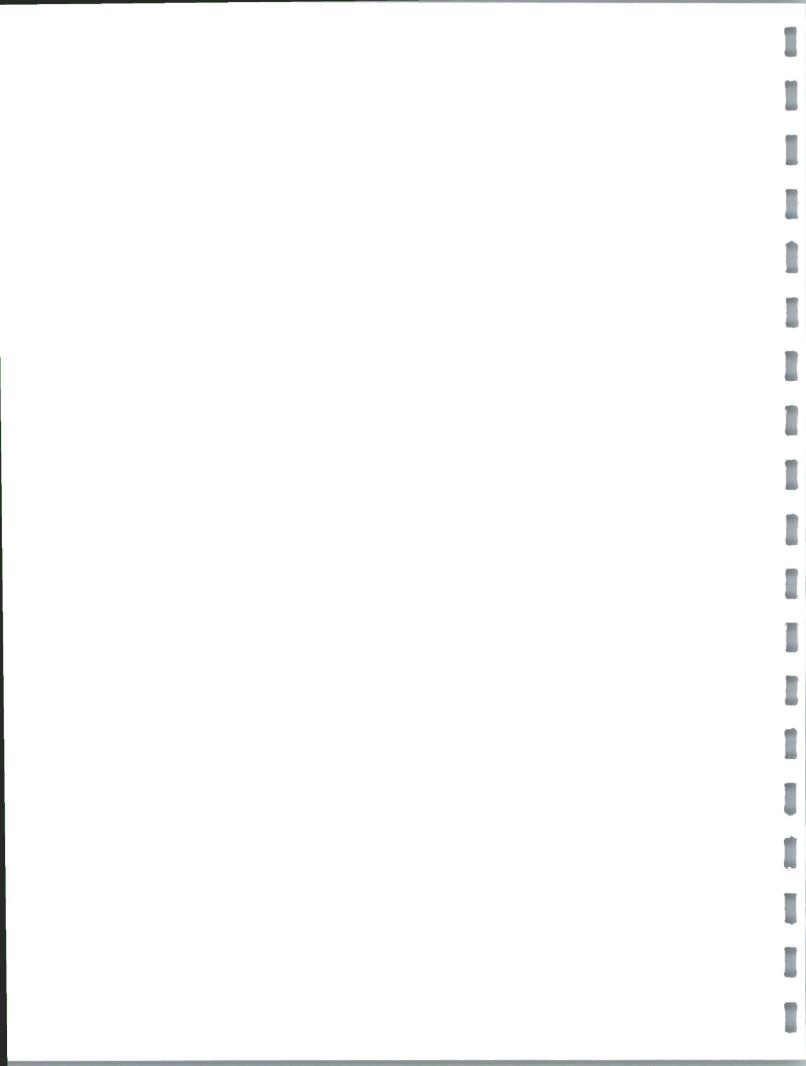
Figure 4. Proposed Soil Venting Well Schematic

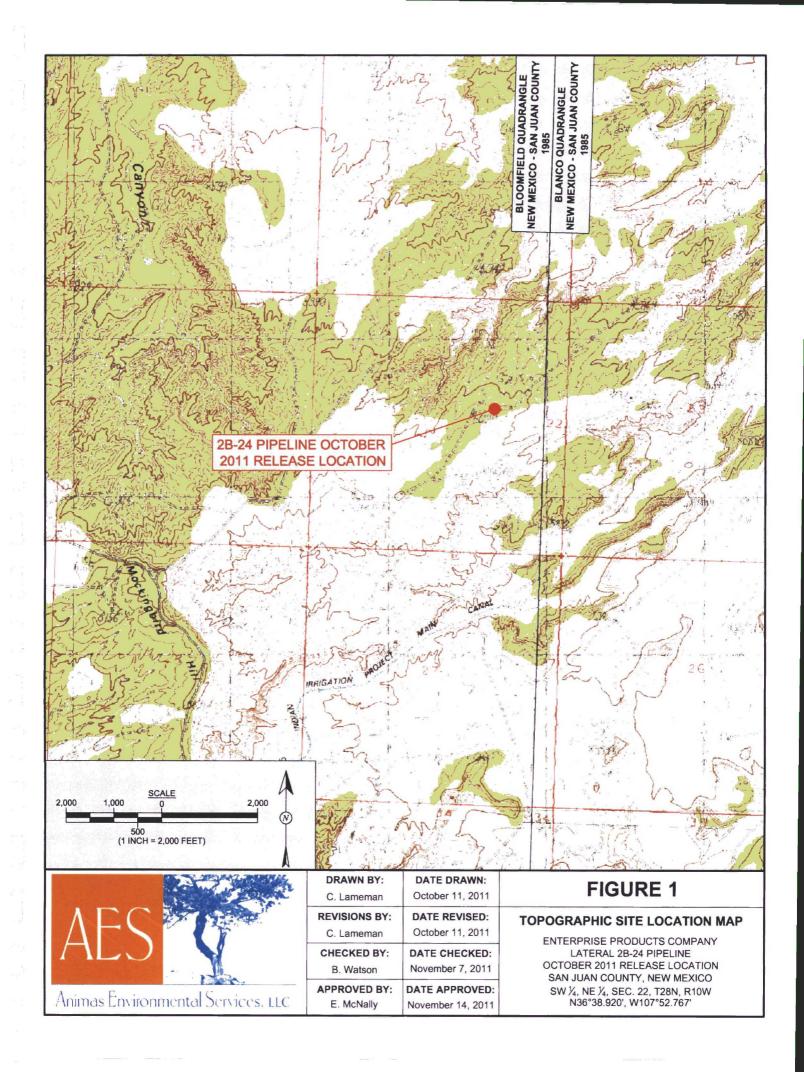
Site Photograph Log

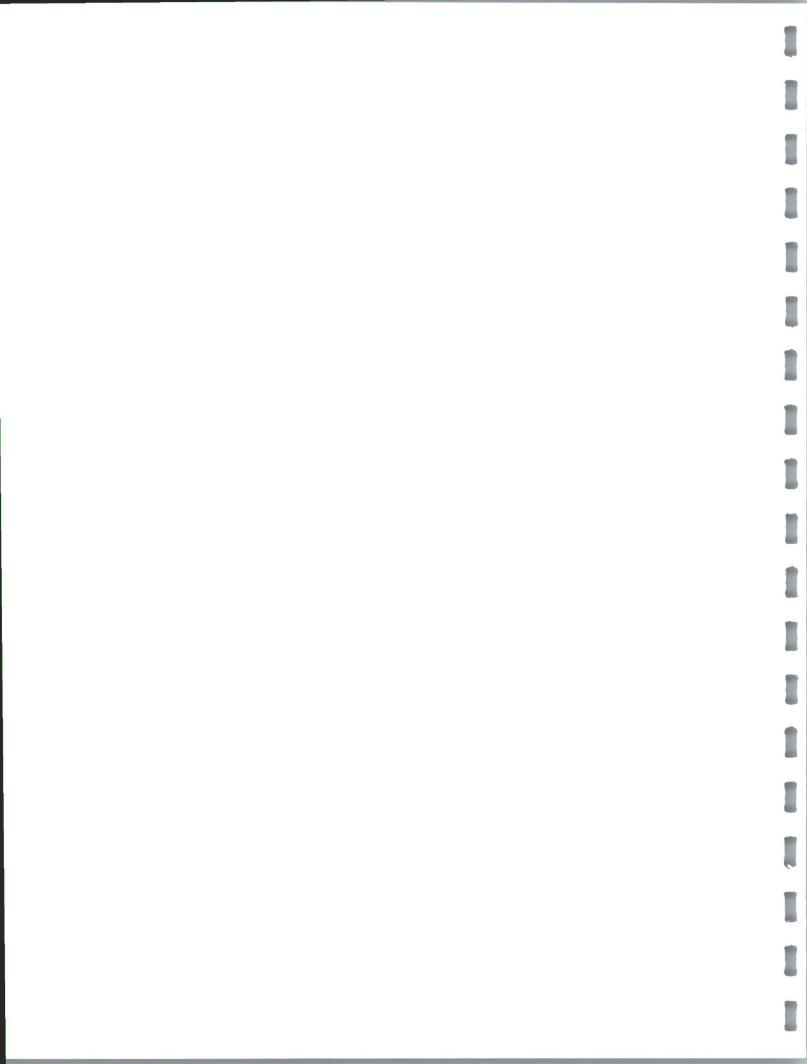
Waste Manifests (Envirotech #39985, 39996, 40014)

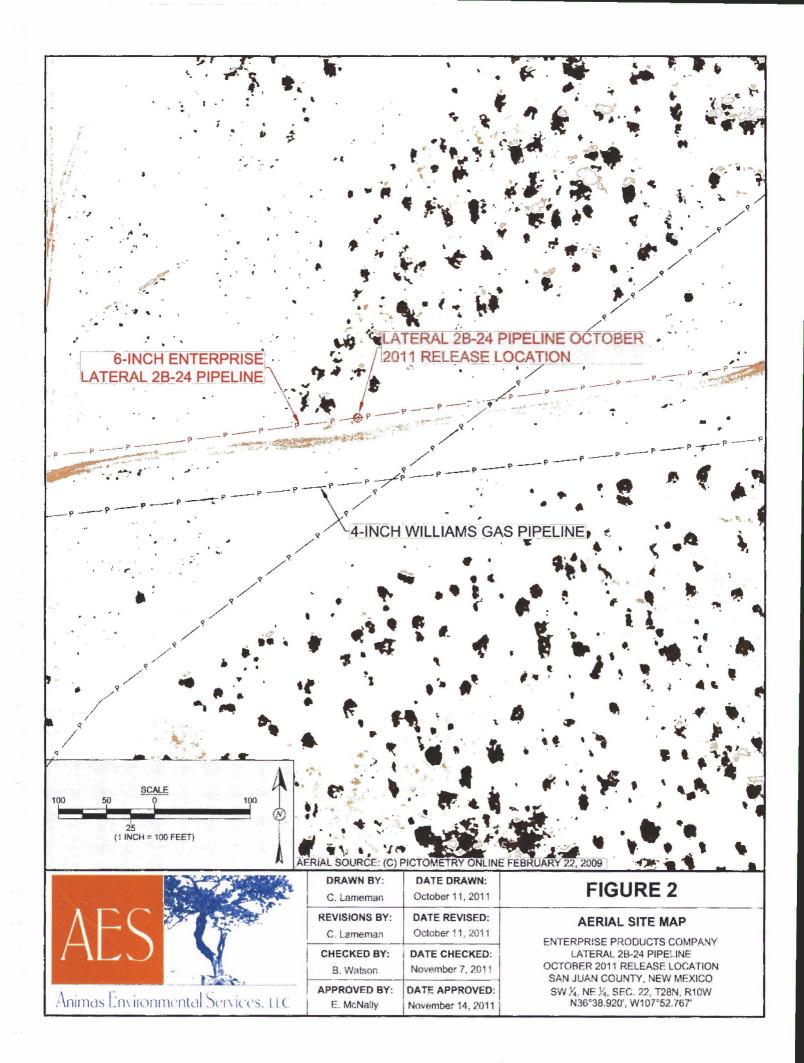
Laboratory Analytical Reports (Hall #1110768)

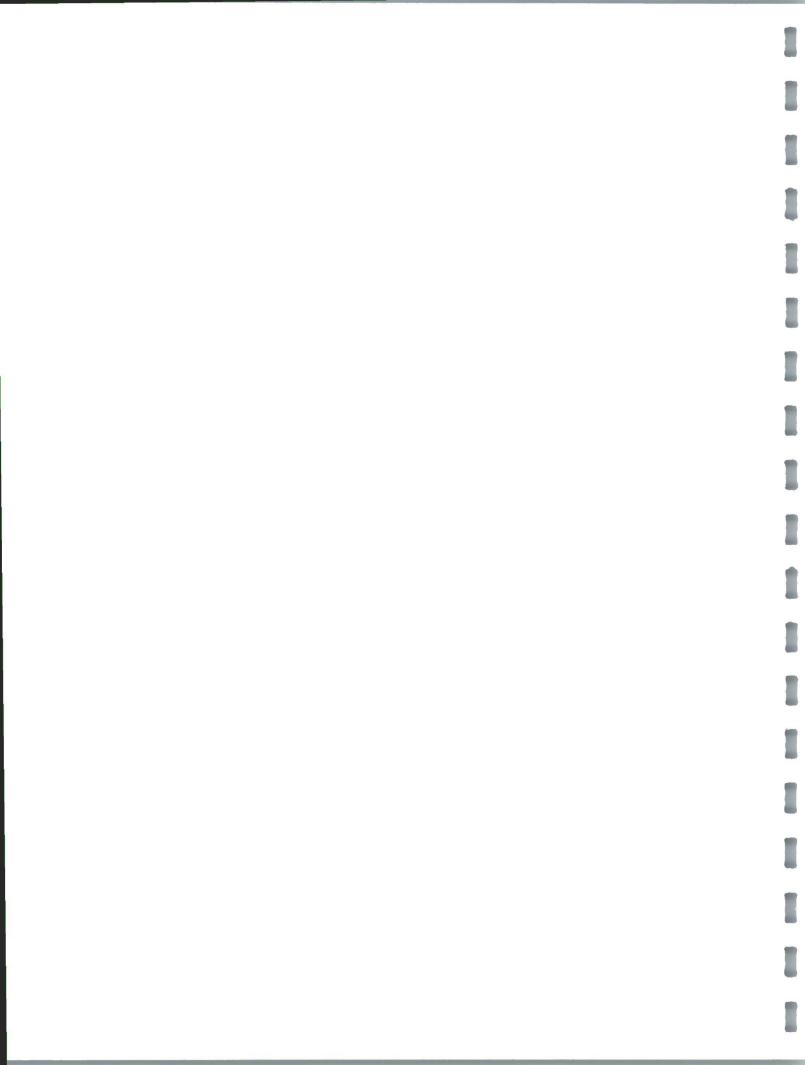
S:\Animas 2000\2011 Projects\Enterprise Products\Lateral 2B-24 (October 2011)\Enterprise Lateral 2B-24 October 2011 letter report 111511.docx

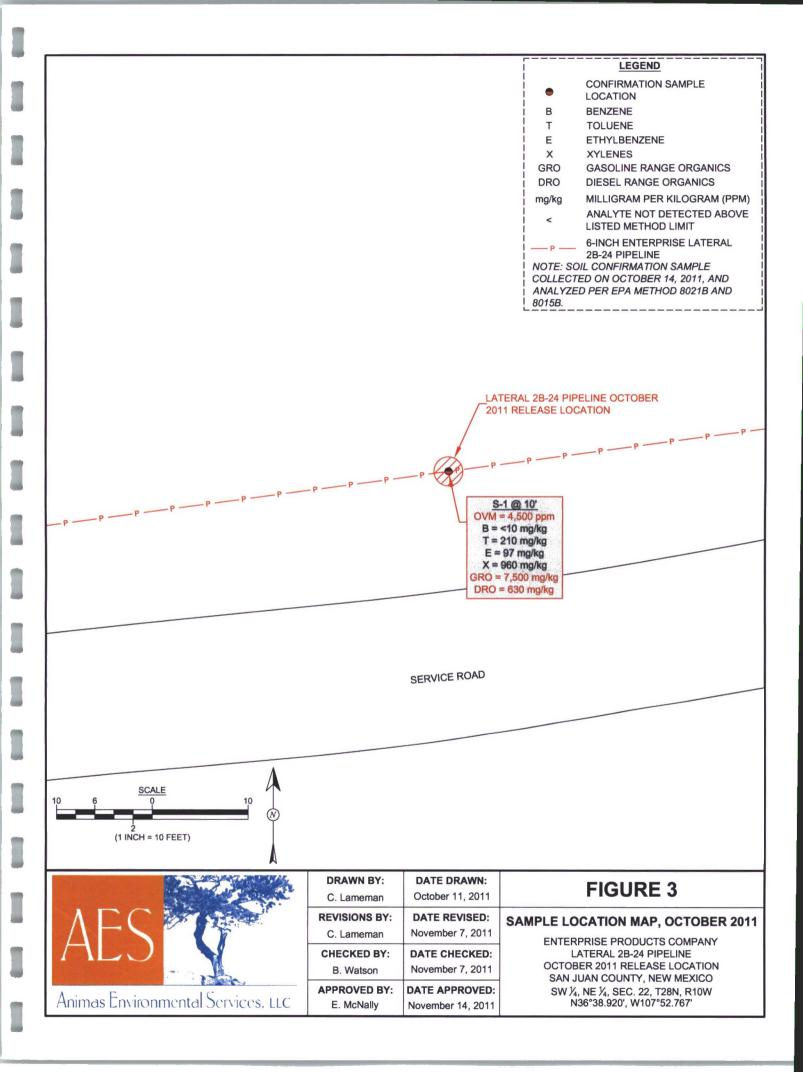


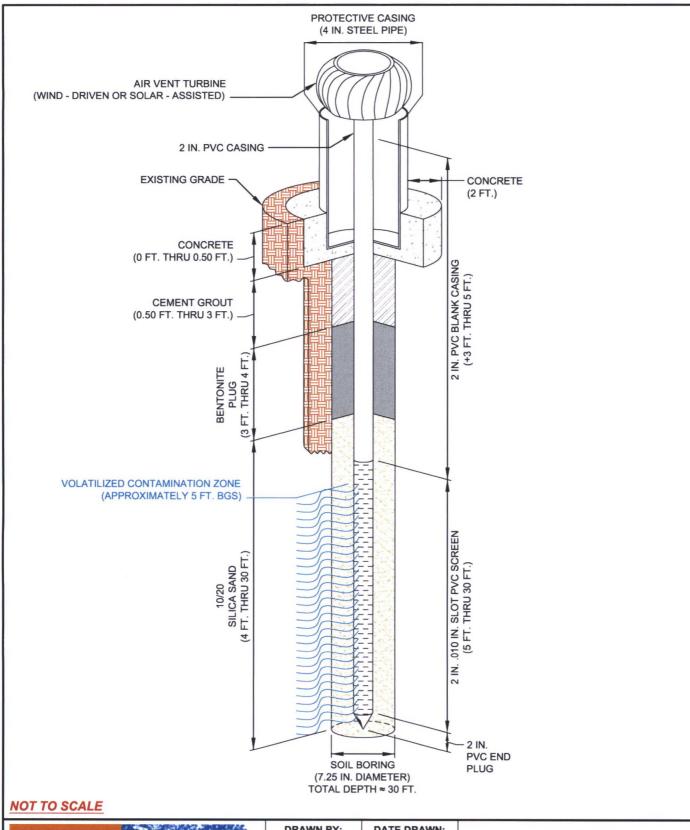














Animas Environmental Services, LLC

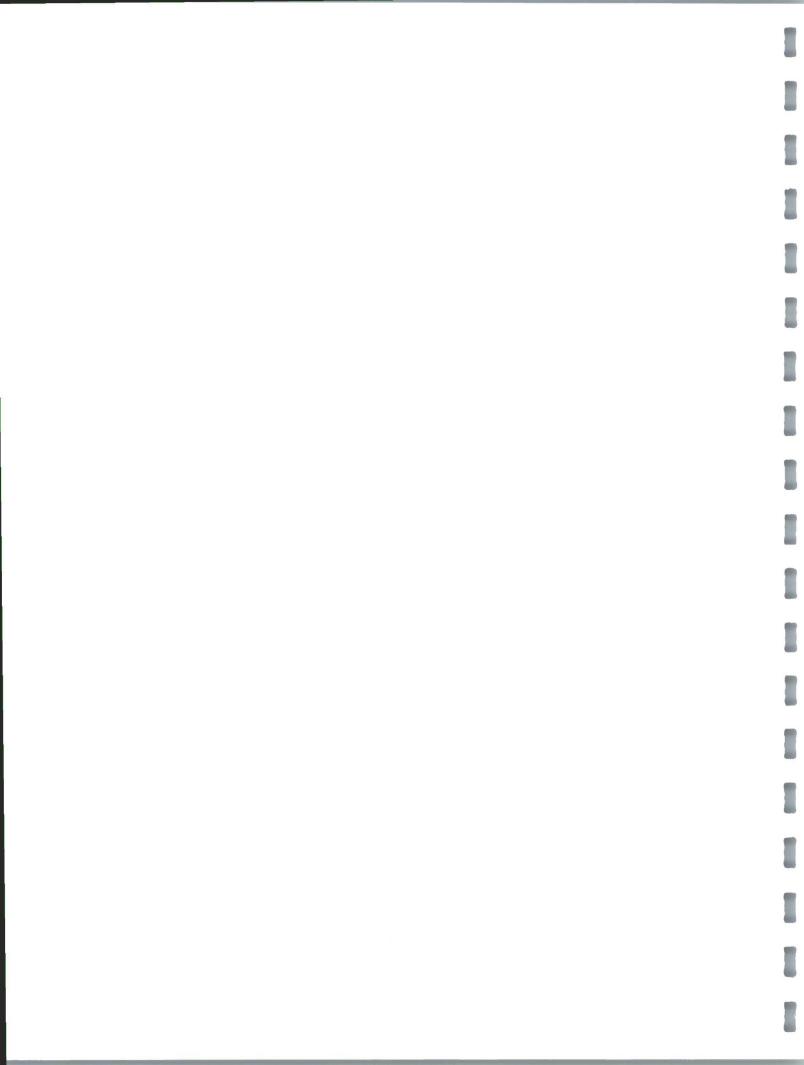
	DRAWN BY: C. Lameman	DATE DRAWN: October 11, 2011
	REVISIONS BY: C. Lameman	DATE REVISED: November 7, 2011
	CHECKED BY: B. Watson	DATE CHECKED: November 7, 2011
١		Secretary and and a second second

APPROVED BY: DATE APPROVED: E. McNally November 14, 2011

FIGURE 4

PROPOSED SOIL VENTING **WELL SCHEMATIC**

ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 PIPELINE OCTOBER 2011 RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO SW 1/4, NE 1/4, SEC. 22, T28N, R10W N36°38.920', W107°52.767'



Client:
Enterprise Products
Company

Project:
Lateral 2B-24
October 2011
Release

Taken by:
Ross Kennemer

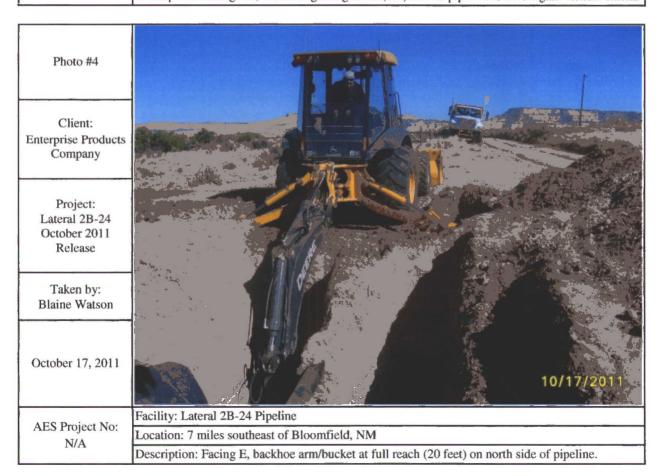
October 14, 2011

AES Project No:
N/A

Facility: Lateral 2B-24 Pipeline
Location: 7 miles southeast of Bloomfield, NM



Photo #3 Client: **Enterprise Products** Company Project: Lateral 2B-24 October 2011 Release Taken by: Ross Kennemer October 14, 2011 Facility: Lateral 2B-24 Pipeline AES Project No: Location: 7 miles southeast of Bloomfield, NM N/A Description: Facing NE, excavating along north (left) side of pipeline to investigate vertical extent.





Bill of Lading

MANIFEST #	39996

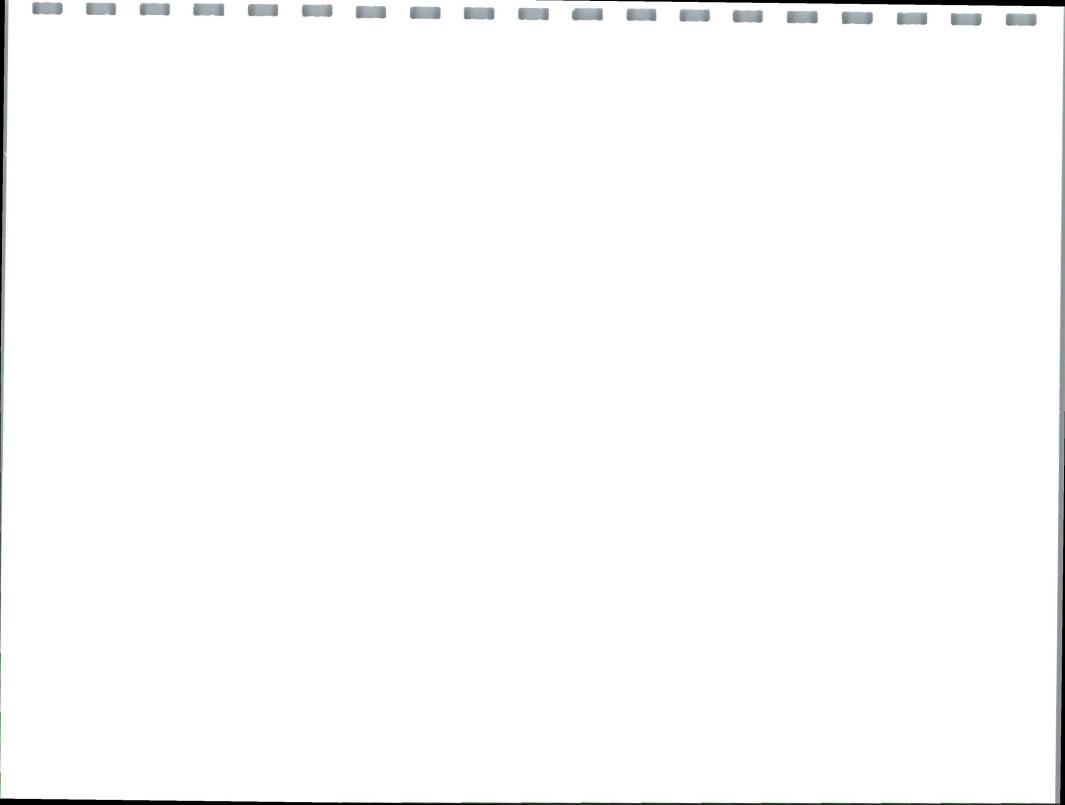
DATE 10-17-11 JOB# 97057-0454 PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. DRIVER SIGNATURE TIME POINT OF ORIGIN DESTINATION **BBLS** COMPANY TRK# MATERIAL GRID YDS Entemprise LFII SWeaza Lat 2B-24 1) 0 1 (11 11 11 11 10 0-14 h 1+ 11 11 0 (OUR) RESULTS: NOTES: LANDFARM CHLORIDE TEST EMPLOYEE: PAINT FILTER Certification of above receival & placement "I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

COMPANY CONTACT MIKE EMS PHONE DATE

Signatures required prior to distribution of this legal document.

White - Company Records, Yellow - Billing, Pink - Customer

ACCENT Printing • Form 28-1212





Bill of Lading

MANIFEST	#	3)	9	9	8	5
1411 11411 201	••		_				

PHON	E: (505) 632-06	15 • 579	96 U.S. HIGHWAY	64 • FARMINGTO	ON, NEW M	EXICO 874	101	DATE 10-17-1	1	JOB# _	7057-0454
LOAD		CON	PLETE DESCRI	PTION OF SHIP	PMENT						DMPANY
NO.	POINT OF ORI	GIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
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RESU	A	T	LANDFARM EMPLOYEE:	Lon	1	7	- (sec	NOTES:			
	PAINT FILTER TEST		Certifica	ation of above re			nt C	1			
certif	y the material haule	a from th	e above location ha	as not been added	to or mixed	with, and	is the sai	me materiai receive	a from th	e above	mentioned Generator, and

TRANSPORTER CO. SWCAZCA Trucking NAME ROBERT GALAUS SIGNATURE ROBERT COMPANY CONTACT Mike WEMS PHONE DATE 10-17-01

Signatures required prior to disfribution of this legal document.



Bill of Lading

MANIFEST #______40014

PHON	E: (505) 632-0615 •	5796 U.S. HIGHWAY	64 • FARMINGTO	ON, NEW M	EXICO 874	101	DATE (0-18	11	JOB# $\frac{4}{2}$	7057-0454	
LOAD	С	OMPLETE DESCR	PLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY								
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	Enterprise	LFIL	CON. +	0-14	12		Swearen	001	1029	Ton day	
2	lot 28-24	1 (Soil	0-14	10	_) /	202	1824	Wesle (Dels	
				-	22						
						6401					
RESUL 427		LANDFARM EMPLOYEE:	Gount	Din	Don	cup	NOTES:				
7.70	PAINT FILTER /		ation of above			nt					
that no	y the material hauled from additional materials have	been added."								mentioned Generator, and	
TRANS	PORTER CO. Silve 12 2	CA Truckin	NAME_	Cobent	GALH	11:2	SIG	NATURE	Then	Aulan	
COMPA	ANY CONTACT		PHONE _				DAT	E/0	-18-	-11	
Signa	tures required prior to	distribution of this	s legal docume	nt.							



COVER LETTER

Wednesday, October 19, 2011

Blaine Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401

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

RE: Enterprise 2B-24 Oct 10

Dear Blaine Watson:

Order No.: 1110768

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 10/15/2011 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

Hall Environmental Analysis Laboratory, Inc.

Date: 19-Oct-11 Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: S-1

Lab Order:

1110768

Collection Date: 10/14/2011 10:00:00 AM

Project: Lab ID: Enterprise 2B-24 Oct 10 1110768-01

Date Received: 10/15/2011

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				-	Analyst: JB
Diesel Range Organics (DRO)	630	51		mg/Kg	5	10/18/2011 9:58:18 AM
Surr: DNOP	0	73.4-123	S	%REC	. 5	10/18/2011 9:58:18 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	7500	1000		mg/Kg	200	10/17/2011 4:03:48 PM
Surr: BFB	133	75.2-136		%REC	200	10/17/2011 4:03:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	10		mg/Kg	200	10/17/2011 4:03:48 PM
Toluene	210	10		mg/Kg	200	10/17/2011 4:03:48 PM
Ethylbenzene	97	10		mg/Kg	200	10/17/2011 4:03:48 PM
Xylenes, Total	960	20		mg/Kg	200	10/17/2011 4:03:48 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	200	10/17/2011 4:03:48 PM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL			Date Received	:	10/15/2011	
Work Order Number 1110768			Received by:	AT	1	
Checklist completed by:	M	(C)	Sample ID lat	bels checked l	by: Initials	
Matrix:	Carrier name: Co	<u>ourier</u>				
Shipping container/cooler in good condition?	Ye	es 🗹	No 🗌	Not Present		
Custody seals intact on shipping container/cooler	? Ye	es 🗸	No 🗆	Not Present	☐ Not Shipped	
Custody seals intact on sample bottles?	Ye	es 🗌	No 🗌	N/A	\checkmark	
Chain of custody present?	Ye	es 🗸	No 🗆			
Chain of custody signed when relinquished and re	ceived? Ye	es 🗸	No 🗆			
Chain of custody agrees with sample labels?	Ye	s 🗸	No 🗆			
Samples in proper container/bottle?	Ye	s 🗹	No 🗌			
Sample containers intact?	Ye	s 🗹	No 🗀			
Sufficient sample volume for indicated test?	Ye	s 🗸	No 🗌			
All samples received within holding time?	Ye	s 🗸	No 🗆			f preserved
Water - VOA vials have zero headspace?	No VOA vials submitte	d 🗹	Yes	No 🗌	bottles che pH:	ecked for
Water - Preservation labels on bottle and cap mate	ch? Ye	s \square	No 🗌	N/A	_	
Water - pH acceptable upon receipt?	Ye	s 🗌	No 🗔	N/A	<2 >12 unli below.	ess noted
Container/Temp Blank temperature?		3.7°	<6° C Acceptable		201011.	
COMMENTS:			If given sufficient t	ime to cool.		
		===		====		====
Client contacted D	ate contacted:		Perso	n contacted		
Contacted by:	egarding:					
Comments:						
Corrective Action			7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			

C	hain-	of-Cu	stody Record	Turn-Around 1	Time:	Pos. H	4									TP		A I B	4 = 1	NT	AI	
Client:	Inima	s Envi	ronnental	□ Standard	t⊿ Rush	10/7/11	AM	-		_										TO		1
	Circle	ics LL	/	Project Name:		, ,							.hall									
Mailing	Address:	624 F	Comanche	□ Standard Project Name:	e 2B-2L	1 Oct	10		490)1 Ha								и 87°	109			
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		564											Aı	naly	sis I	Req	uest					
email or	Fax#: 5	05 32	4 2022	Project Manag	ger:				<u>Ş</u>	Seg					04)							
QA/QC F	ackage:		□ Level 4 (Full Validation)	Blaine	Watso	n		(8021)	TPH (Gas only)	as/Die					PO4,SC	PCB's						
Accredit				Sampler: B	aine M	latson			TPH	15B (G	18.1)	04.1)	AH)		3,NO ₂ ,	/ 8082		(A)				or N
□ EDD	(Type)_			On Ice. Sample Temp	erature 3	7/			BE.	1 80	4 6	9 20	or P	tals	Š,	des		0				2
Date	Time	Matrix	Sample Request ID		Preservative Type	4	No.	BTEX +-WH	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
10/14/11	10:00	soil	5-1	(1) 802 glass	4°C		-1	χ		χ												
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Date:	1450 Time:	Black Relinquish	ine le ator	Received by	gwate	10/14/1 Date	1450 17523	B	ill	to	E	nte	erp	ris	e T	Pro	zdu	cts	S			
₽/H] H	1523	Phr	estre Walters		and	10/15	111					_										



March 27, 2012

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

RE: Lateral 2B-24 October 2011

Soil Biovent Well Installation Report

San Juan County, New Mexico

Dear Mr. Dailey:

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

ROVO AFRE 11 311 CC V5. T.

Animas Environmental Services, LLC (AES) is pleased to submit a report detailing the installation of a soil biovent well for the Enterprise Products Company (Enterprise) Lateral 2B-24 October 2011 release. The release area is located approximately 3 miles south of Bloomfield, San Juan County, New Mexico.

1.0 Site Information

1.1 Location

Location - SW¼ NE¼, Section 22, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.64866 and W107.87945, respectively

Surface Owner - Federal (BLM)

Figure 1 - Topographic Site Location

Figure 2 - Aerial Site Map

Figure 3 - Sample Location and Results, January 2012

Figure 4 –SVE-1 Soil Boring Log with Well Construction Details

1.2 Assessment and Mitigation

Release Response - October 2011 1.2.1

Initial line repair and excavation activities associated with the pipeline release were completed on October 14 and 17, 2011. The cause of the release was attributed to a line leak due to corrosion. The primary excavation area along the pipeline measured approximately 20 feet by 10 feet with a total depth of 20 feet. Due to the close proximity of the excavation and a busy service road, soil contamination below 20 feet could not be removed without greatly expanding the horizontal dimensions of the excavation. Therefore, AES recommended that the excavation be backfilled and a soil biovent well be

Mr. Aaron Dailey Lateral 2B-24 October 2011 Release Soil Biovent Well Installation Report March 27, 2012 Page 2 of 5

installed to mitigate residual soil contaminant vapors to an acceptable level. Details of the initial mitigation activities were submitted to Enterprise in a report dated November 14, 2011.

1.2.2 Soil Biovent Well Installation – January 2012

On January 4, 2012, prior to installing the biovent well and under the supervision of AES personnel, Riley Industrial (Riley) exposed the Lateral 2B-24 pipeline using a hydro-excavator. Riley excavated approximately 2 barrels (bbls) of petroleum hydrocarbon contaminated water and soil. The excavated material was disposed of at Envirotech's Landfarm located near Bloomfield, New Mexico. A Bill of Lading is attached.

Once the pipeline was exposed, Kyvek, Inc. installed a biovent well (SVE-1) to a depth of 30 feet below ground surface (bgs) within the previously excavated area. The soil boring was split spoon sampled at 5-ft intervals. Soil samples were field screened for volatile organic compounds (VOCs), and two soil samples were collected for laboratory analysis (SB-1 and SB-2). On January 18, 2012, AES personnel completed the construction of the solar-assisted bioventilation system and conducted a short pilot test on SVE-1.

2.0 Soil Sampling

2.1 Soil Field Screening

Seven soil samples were collected at the ground surface and at 5 ft intervals (to 30 feet bgs) from the soil boring for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas. VOC readings ranged from 11 ppm at 20 feet bgs up to 210 ppm at ground surface. VOC concentrations at the base of the boring (30 feet bgs) were recorded at 88 ppm.

2.2 Soil Laboratory Analyses

Two confirmation soil samples (SB-1 and SB-2) were collected for laboratory analysis. SB-1 was collected from the surface to 2 feet bgs, and SB-2 was collected from 30 to 32 feet bgs. The soil samples were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil samples were laboratory analyzed for:

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

2.3 Soil Laboratory Analytical Results

Soil laboratory analytical results showed that benzene concentrations were below laboratory detection limits in SB-1 and SB-2. Total BTEX concentrations were reported at 0.27 mg/kg in SB-1 and 0.47 mg/kg in SB-2. TPH concentrations (as GRO and DRO) for SB-1 and SB-2 were also well below the NMOCD action level of 5,000 mg/kg. Field screening and laboratory analytical results are summarized in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Soil OVM and Laboratory Analytical Results, Lateral 2B-24 October 2011 Release, January 2012

Lateral 2B-24 October 2011 Release, January 2012										
			VOCs		Total	TPH-	TPH-			
		Depth	OVM	Benzene	BTEX	GRO	DRO			
Sample ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
NMO	CD Action L	Level	100 10		50	5,0	000			
SB-1	1/4/12	0 to 2	210	<0.049	0.27	<4.9	<10			

^{*}Note – Action Level Determined by NMOCD *Guidelines for Leaks, Spills, and Releases* (August 1993)

New Mexico Oil Conservation Division (NMOCD) action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Soil benzene, BTEX and TPH concentrations for soil samples collected were below laboratory detection limits or below the applicable NMOCD action levels. Field screening of VOCs (via OVM) exceeded the NMOCD action level of 100 ppm in SB-1 with 210 ppm. However, laboratory analytical results for benzene and total BTEX were below applicable action levels of 10 mg/kg and 50 mg/kg, respectively.

2.4 Soil Biovent Well Construction

The soil biovent well (SVE-1) was installed to a total depth of 30 feet bgs and was constructed of 25 feet of 2-inch inside diameter (ID) 0.010 inch slotted poly vinyl chloride (PVC) well screen and 5 feet of 2-inch ID blank PVC well casing. Colorado silica 10/20 sand pack was placed from 1 foot above the top of the well screen (4 feet bgs) to the total depth of the borehole (30 feet bgs). A 1 foot thick bentonite seal was placed on top of the filter pack and hydrated. Cement grout was placed from 0.5 feet bgs to approximately 3

feet bgs. Concrete was placed from ground surface to 0.5 feet bgs. A soil boring log with biovent well construction details is included as Figure 4.

2.5 Soil Biovent Well System

AES contracted Fosters Heating and Plumbing of Farmington, New Mexico, to fabricate a connection that enabled a Master Flow Green Machine® solar powered roof vent to be connected to the 2-inch ID PVC well casing in order to provide solar assisted fan in the biovent well. The vent fan was installed on January 18, 2012, by AES personnel and has a flow rate capability of 500 cubic feet per minute (cfm) when utilized as designed. Flow rates from this specific application as a subsurface hydrocarbon vapor removal system will be variable. A photograph log of the biovent system is attached.

2.6 Soil Biovent Well Pilot Testing

On January 18, 2012, AES personnel conducted a pilot test on SVE-1 using a small electric vacuum pump. The test was conducted for 15 minutes with 27 inches H_2O of vacuum applied to the well. Hydrocarbon vapor concentrations were field screened with a PID OVM, which was calibrated to 100 ppm with isobutylene gas. Field screening was conducted every 2 minutes. OVM pilot test results are presented in Table 2.

Table 2. Soil Biovent Well Pilot Test, Lateral 2B-24 October 2011 Release, January 2012

Sample ID	Date Tested	Time	Applied Vacuum (Inches H₂O)	OVM Reading (ppm)
FS-1	01/18/12	11:55	27	1,013
FS-2	01/18/12	11:57	27	1,003
FS-3	01/18/12	11:59	27	1,007
FS-4	01/18/12	12:01	27	1,020
FS-5	01/18/12	12:03	27	1,011
FS-6	01/18/12	12:06	27	1,016
FS-7	01/18/12	12:08	27	995
FS-8	01/18/12	12:10	27	1,001

Mr. Aaron Dailey Lateral 2B-24 October 2011 Release Soil Biovent Well Installation Report March 27, 2012 Page 5 of 5

3.0 Conclusions and Recommendations

As part of mitigation of the Lateral 2b-24 October 2011 release, AES installed a soil biovent well (SVE-1) in January 2012. The biovent well was supplemented with a solar assisted ventilation fan to enhance venting of subsurface vapors. In order to monitor the soil biovent well performance, AES recommends quarterly measurement of air flows and vapor monitoring with a PID OVM to determine the effectiveness of the of the solar powered ventilation system.

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

Sincerely,

Thomas J. Long Project Manager

Elizabeth McNally, P.E.

Elizabeth V MiNdly

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Thomas J. Long

Figure 3. Sample Location and Results, January 2012

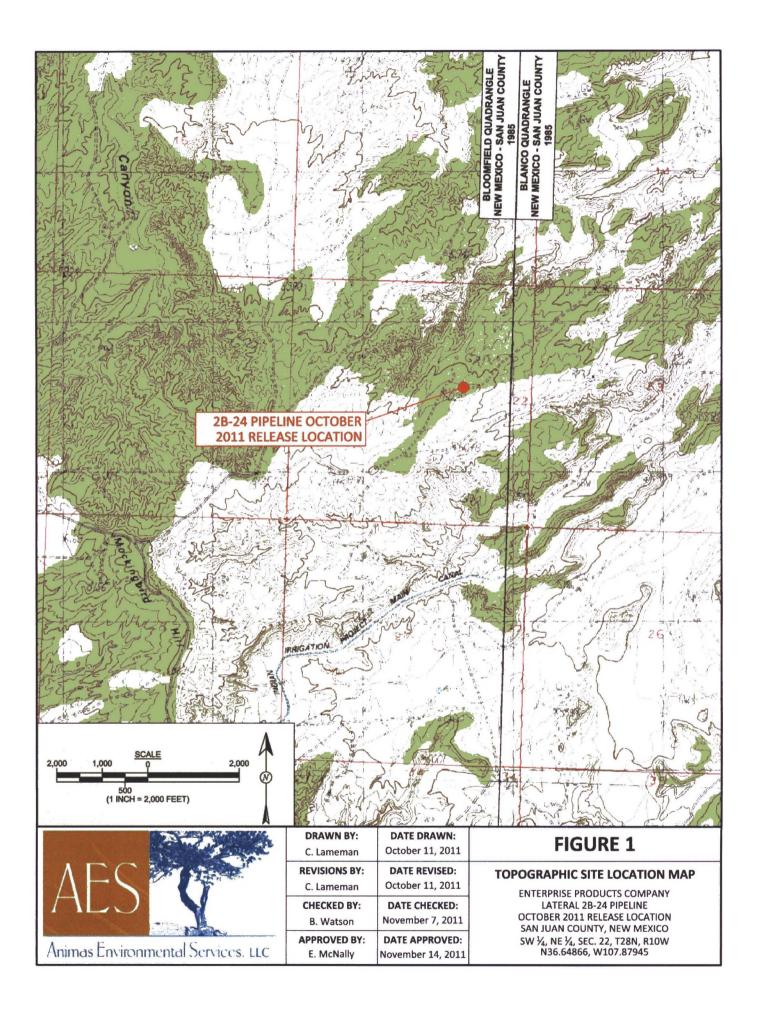
Figure 4. Soil Boring Log with Well Construction Details

Photograph Log

Bill of Lading (40587)

Laboratory Analytical Reports (Hall 1201133)

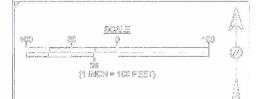
S:\Animas 2000\2012 Projects\Enterprise\Lateral 2B-24\Lateral 2B-24 Soil Biovent Well Installation Letter Report 032712.docx



S-INCH ENTERPRISE LATERAL 25-24 PIPELINE

LATERAL 2B-24 OCTOBER 2011 RELEASE EXCAVATION AND SOIL BIOVENT WELL LOCATION

4-INCH WELLAMS GAS PIPELINE





Animas Environmental Services, LLC

intensyk 167:	DATE DEASON:
K. Christiansen	January 20, 2012
RFVISIONS 67:	DATE REVISED:
K. Christiansen	January 20, 2012
CKECKED BY:	DAATE CHECKED:
T. Long	January 20, 2012
APPROVED BY:	DATE APPROVED:
E. Michally	Warch 27, 2012

FECURE 2

AERIAL SITE MAP

Enterprise products company lateral 20-24 preline octorer 2011 release soil biovent well san Juan County, new medco sw K. ne K., sec. 22, T20n, r10w k 26.64525, w107.57345

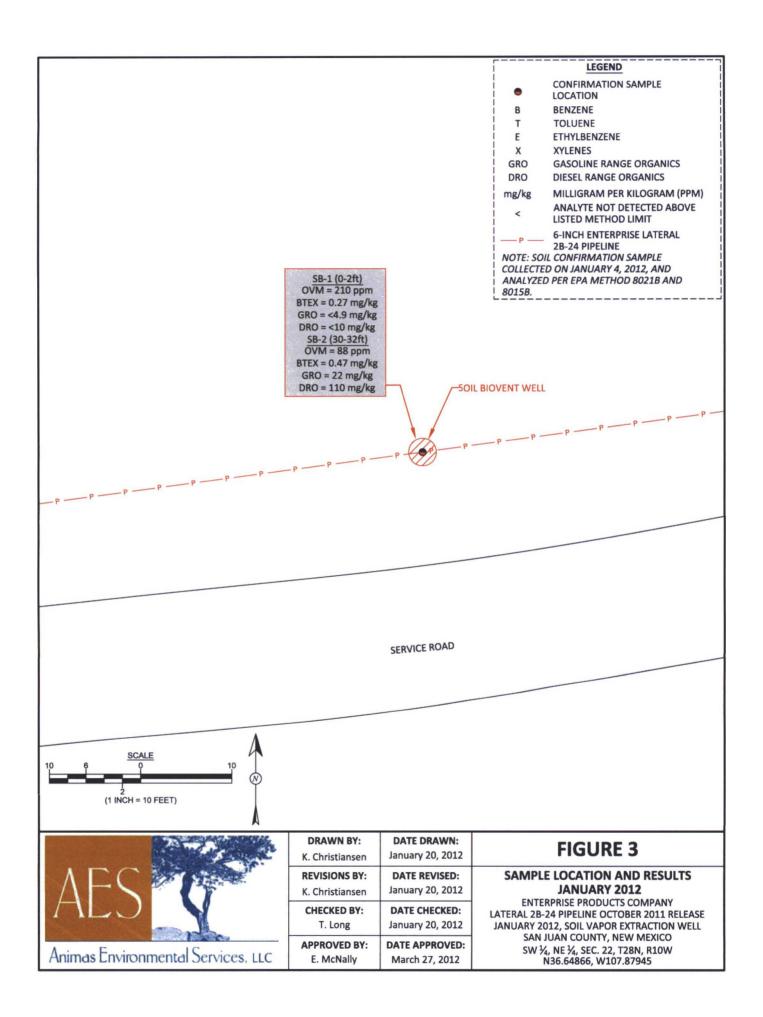




Figure 4 Soil Boring Log w/ Well Construction Details

ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 PIPELINE

: 1/4/12 **Date Started** : 1/4/12 Date Completed

Latitude Longitude : 36°38.9068 : -107°52.7895

SAN JUAI	N COUN	011 RELEAS TY, NEW ME C. 22, T28N,	E EXICO	Hole Diameter : 7.25 in. Drilling Method : HSA Sampling Method : Split Spoon		Survey By Logged By	
Depth Surf. in Elev. Feet 0	nscs	GRAPHIC		DESCRIPTION	Blow Count		Well: SVE-1 Elev: Solar Panel Solar Powered Ventilation System
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SW		Light Brov Soft, 2.5 Y	vn, Fine, Sandy Fill Material, Dry, Nor /R 3/3*.	n-plastic,	210	—Concrete —Grout —2" PVC Casing —Bentonite Seal
1010 1212 1414 1616 1818	SW		Tan/Gray, 7.5 YR 8/4	Fine, Sand, Moist, Non-plastic, Soft, 4*.	No Odor,	71	— Sand Pack (10/20) ———————————————2" PVC 0.010" Scre
202022222424	SW		Tan/Light No Odor,	Brown, Fine, Sand, Moist, Non-plasti 7.5 YR 8/4*.	c, Soft,	11	
2828			Light Gray Odor, GLE	/, Clay/Shale, Moist, Dense, Non-plas EY 4/10B*.	stic, Slight	101	2" PVC Well Point
32-			Odor, GLE	EY 4/10B*.	suo, oligiti	88	

Photo #1

Client:
Enterprise Products
Company

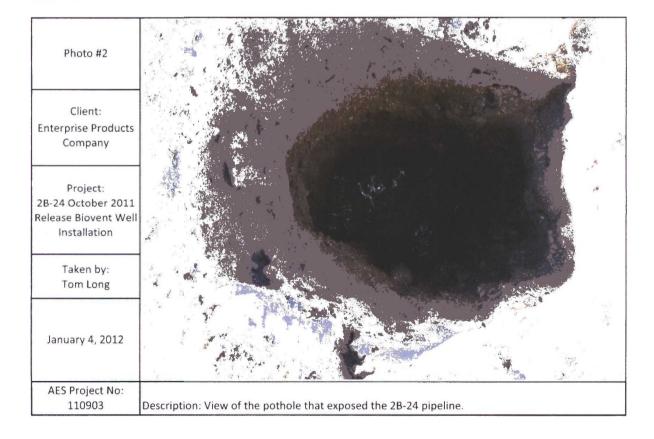
Project:
28-24 October
2011 Release
Biovent Well
Installation

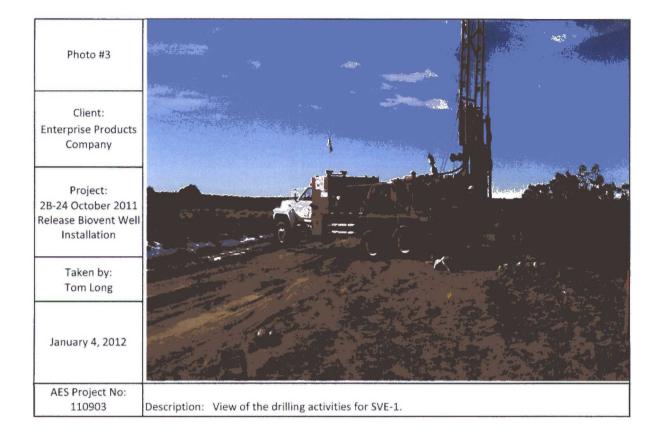
Taken by:
Tom Long

January 4, 2012

AES Project No:
110903

Description: View of the hydro-excavation activities around the pipeline.





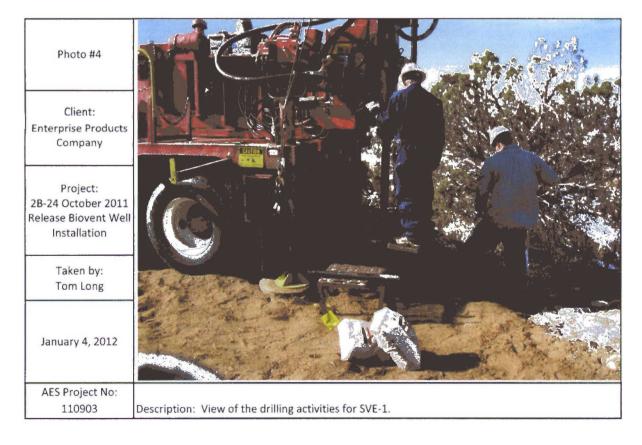


Photo #5

Client: Enterprise Products Company

Project: 2B-24 October 2011 Release Biovent Well Installation

> Taken by: Tom Long

January 4, 2012

AES Project No: 110903

Description: View of the well construction activities for SVE-1.

Photo #6

Client: Enterprise Products Company

Project: 2B-24 October 2011 Release Biovent Well Installation

> Taken by: Tom Long

January 4, 2012

AES Project No: 110903

View of the well construction activities for SVE-1.

Photo #7

Client:
Enterprise Products
Company

Project:
2B-24 October 2011
Release Biovent Well
Installation

Taken by:
Tom Long

January 4, 2012

AES Project No:

Description: View of the well construction activities for SVE-1.

110903

Photo #8

Client:
Enterprise Products
Company

Project:
28-24 October 2011
Release Biovent Well
Installation

Taken by:
Tom Long

January 18, 2012

AES Project No:
110903

View of the installation of the soil bioventing system.

Photo #9

Client:
Enterprise Products
Company

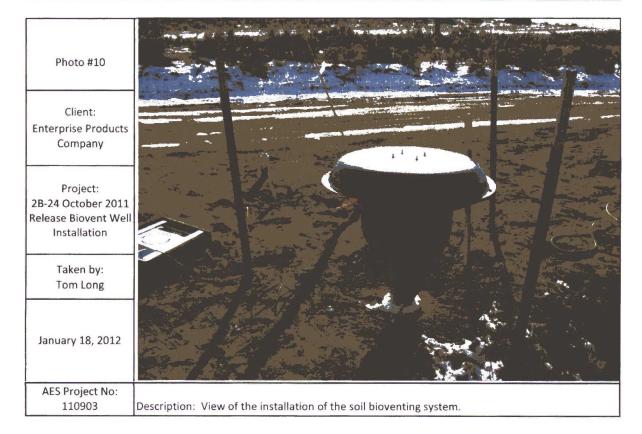
Project:
2B-24 October 2011
Release Biovent Well
Installation

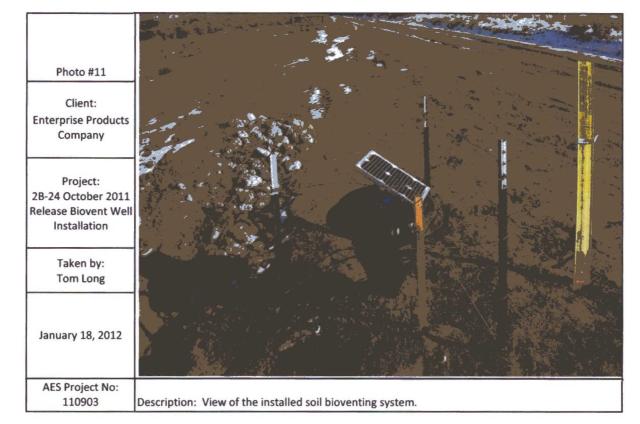
Taken by:
Tom Long

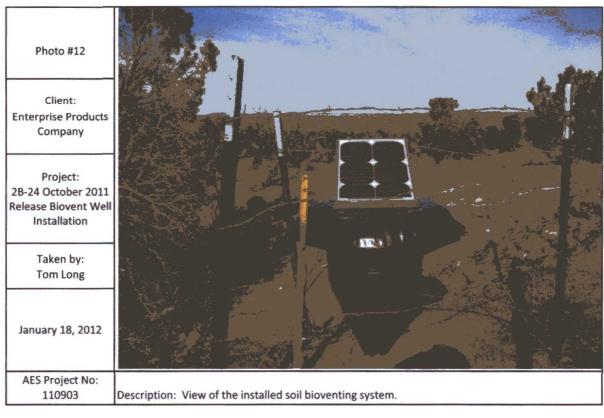
January 18, 2012

AES Project No:
110903

Description: View of the installation of the soil bioventing system.









Bill of Lading

40587

PHONE	E: (505) 632-0615	5 • 579	96 U.S. HIGHWAY	64 • FARMINGTO	ON, NEW M	EXICO 874	401	DATE 1-4.	-12	JOB# _	97057-0476
LOAD			TING CO								
NO.	POINT OF ORIGI		DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
	2-B-24		BFLFII-5	Sciluoter	EE-15		6	Riley 19	6079	1.300	Herfrey Belogard
						-	1				ov y
							4				
									3237 ; 3300 dama 4700		
				1		1					
RESULT		7	LANDFARM EMPLOYEE:	(rous	la	Mins	lan	NOTES:			
	PAINT FILTER TEST	/		tion of above re							
"I certify that no a	the material hauled f additional materials h	from the ave bee	e above location ha en added."	as not been added	to or mixed	with, and i	s the san				mentioned Generator, and
TRANSF	PORTER CO. Biles	Too	lustrial	NAME G	offrey !	<u>soloce</u>	d	SIGN	NATURE	Hwl	Jugalofarol
COMPA	NY CONTACT \mathcal{D}	2 Brai	ckney	PHONE	505)327	-4947		DAT	E	-4.	-12
Signati	ures required prio	r to dis	stribution of this	White - Company	nt.					,	CCENT Printing • Form 28-1212



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 11, 2012

Thomas Long

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

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

RE: Enterprise 2B-24

Dear Thomas Long:

OrderNo.: 1201133

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/5/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1201133

Date Reported: 1/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise 2B-24

Lab ID: 1201133-001

Client Sample ID: SVE1@ 0-2'

Collection Date: 1/4/2012 12:25:00 PM

Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/8/2012 9:13:35 PM					
Surr: DNOP	84.8	77.4-131	%REC	1	1/8/2012 9:13:35 PM					
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/9/2012 2:25:56 PM					
Surr: BFB	99.2	69.7-121	%REC	1	1/9/2012 2:25:56 PM					
EPA METHOD 8021B: VOLATILES					Analyst: RAA					
Benzene	ND	0.049	mg/Kg	1	1/9/2012 2:25:56 PM					
Toluene	0.054	0.049	mg/Kg	1	1/9/2012 2:25:56 PM					
Ethylbenzene	ND	0.049	mg/Kg	1	1/9/2012 2:25:56 PM					
Xylenes, Total	0.12	0.098	mg/Kg	1	1/9/2012 2:25:56 PM					
Surr: 4-Bromofluorobenzene	101	85.3-139	%REC	1	1/9/2012 2:25:56 PM					

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 2 of 6

Analytical Report

Lab Order 1201133

Date Reported: 1/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise 2B-24

Lab ID: 1201133-002

Client Sample ID: SVE1@30-32'

Collection Date: 1/4/2012 1:17:00 PM

Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	110	10		mg/Kg	1	1/8/2012 9:47:23 PM
Surr: DNOP	89.3	77.4-131		%REC	1	1/8/2012 9:47:23 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	22	9.4		mg/Kg	2	1/9/2012 2:56:19 PM
Surr: BFB	149	69.7-121	S	%REC	2	1/9/2012 2:56:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Toluene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Ethylbenzene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Xylenes, Total	0.19	0.19		mg/Kg	2	1/9/2012 2:56:19 PM
Surr: 4-Bromofluorobenzene	110	85.3-139		%REC	2	1/9/2012 2:56:19 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201133

11-Jan-12

Client:

Animas Environmental Services

Result

37

4.5

10

50.00

5.000

Project:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

Enterprise 2B-24

Troject. Emerpr	130 2D-24												
Sample ID: MB-162	SampT	ype: MI	BLK	Tes	PA Method	8015B: Diese	el Range (Organics					
Client ID: PBS	Batch	n ID: 16	2	F	lunNo: 2	55							
Prep Date: 1/6/2012	Analysis D)ate: 1/	8/2012	S	eqNo: 7	852	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Motor Oil Range Organics (MRO)	ND	50											
Surr: DNOP	8.3		10.00		82.9	77.4	131						
Sample ID: LCS-162	SampT	SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics											
Client ID: LCSS	Batch	ID: 16	2	R	unNo: 2	55							
Prep Date: 1/6/2012	Analysis D	ate: 1/	8/2012	S	eqNo: 7	854	Units: mg/K	g					

SPK value SPK Ref Val %REC LowLimit

73.6

90.5

0

HighLimit

139

131

62.7

77.4

%RPD

RPDLimit

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL. Reporting Detection Limit

Page 4 of 6

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201133

11-Jan-12

Client:

Animas Environmental Services

Result

Result

Result

1,000

Result

27

29

Project:

Enterprise 2B-24

Sample ID:	MB-161
Client ID:	PBS
Prep Date:	1/6/2012

SampType: MBLK Batch ID: 161

PQL

TestCode: EPA Method 8015B: Gasoline Range

69.7

LowLimit

86.4

69.7

RunNo: 283

SPK value SPK Ref Val %REC

0

0

1,000

25.00

24.02

960.6

Analysis Date: 1/9/2012

SeqNo: 8734

Units: mg/Kg

121

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Sur: BFB

ND 910 SPK value SPK Ref Val %REC LowLimit

HighLimit

Sample ID: LCS-161 Client ID: LCSS

Analyte

SampType: LCS Batch ID: 161

TestCode: EPA Method 8015B: Gasoline Range RunNo: 283

91.3

Prep Date: 1/6/2012

Gasoline Range Organics (GRO)

Client ID: SVE1@ 0-2'

Gasoline Range Organics (GRO)

Analysis Date: 1/9/2012

PQL

SeqNo: 8741

114

101

Units: mg/Kg

132

121

HighLimit %RPD **RPDLimit** Qual

Surr: BFB Sample ID: 1201133-001AMS 1,000 1,000 SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

RunNo: 283

Units: mg/Kg

Prep Date: 1/6/2012 Analyte

Batch ID: 161 Analysis Date: 1/9/2012 PQL

SeqNo: 8742

SPK value SPK Ref Val %REC HighLimit LowLimit 114 72.4 149 109 69.7 121

Surr: BFB Sample ID: 1201133-001AMSD

SampType: MSD Batch ID: 161

RunNo: 283

TestCode: EPA Method 8015B: Gasoline Range

Client ID: SVE1@ 0-2' Prep Date: 1/6/2012

Analysis Date: 1/10/2012

PQL

SeqNo: 8743

%REC

Units: mg/Kg HighLimit

149

121

Analyte Gasoline Range Organics (GRO) Surr: BFB

SPK value SPK Ref Val 30 4.9 24.53 820 981.4

123 83.2 72.4 69.7

LowLimit

10.5 0

%RPD

%RPD

19.2 0

RPDLimit

RPDLimit

Qual

Qual

Qualifiers:

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Reporting Detection Limit

Page 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201133 11-Jan-12

Client:

Animas Environmental Services

0.92

0.99

3.1

0.91

0.049

0.049

0.099

0.9862

0.9862

2.959

0.9862

0.006763

0.02126

93.0

100

104

91.8

62.1

67.9

60.6

85.3

116

127

134

139

Project:

Enterprise 2B-24

Sample ID: MB-161	SampType: MBLK TestCode: EPA Method 80				8021B: Vola	tiles					
Client ID: PBS	Batch	Batch ID: 161 RunNo: 283									
Prep Date: 1/6/2012	Analysis D)ate: 1/	9/2012	SeqNo: 8753 Uni			Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	85.3	139				
Sample ID: LCS-161	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: LCSS	Batch	ID: 16	1	F	RunNo: 2	83					
Prep Date: 1/6/2012	Analysis D	ate: 1/	9/2012	8	SeqNo: 87	757	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	103	83.3	107				
Toluene	1.0	0.050	1.000	0	102	74.3	115				
Ethylbenzene	1.1	0.050	1.000	0	107	80.9	122				
Xylenes, Total	3.3	0.10	3.000	0	111	85.2	123				
Surr: 4-Bromofluorobenzene	1.1		1.000		108	85.3	139				
Sample ID: 1201132-001AMS	SampT	ype: MS		Test	Code: EF	A Method	8021B: Volat	iles			
Client ID: BatchQC	Batch	ID: 161	1	R	tunNo: 28	33					
Prep Date: 1/6/2012	Analysis D	ate: 1/	9/2012	S	eqNo: 87	758	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.049	0.9862	0	94.8	67.2	113				

Sample ID: 1201132-001AMS	SD Samp	SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: BatchQC	Batcl	n ID: 16	1	F	RunNo: 2	83					
Prep Date: 1/6/2012	Analysis D)ate: 1/	9/2012	8	SeqNo: 8	759	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.047	0.9497	0	97.4	67.2	113	1.13	14.3		
Toluene	0.91	0.047	0.9497	0.006763	95.5	62.1	116	1.07	15.9		
Ethylbenzene	0.99	0.047	0.9497	0	104	67.9	127	0.160	14.4		
Xylenes, Total	3.1	0.095	2.849	0.02126	108	60.6	134	0.723	12.6		
Surr: 4-Bromoffuorobenzene	1.1		0.9497		112	85.3	139	0	0		

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

RL Reporting Detection Limit Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Receipt Checklist

Client Name Animas Environmental	Date and Time Receive 1/5/2012 2:35:00 PM							
Work Order Numbe 1201133 RcptNo: 1	Received by Lindsay Mangin							
Checklist Completed By:	Checked by:							
Completed Date: <u>1/5/2012 5:19:40 PM</u>	Checked Date: 1/10/12							
Carrier name Courier	101							
Shipping cooler present and in acceptable condition?	es ✓ No NA							
	res ✔ No							
	res ✓ No							
	res ✓ No Not Present							
	res ✓ No							
	Yes ✓ No							
Custody Seals present on cooler?	res No							
Custody Seals intact on sample bottles?	res No NA ✓							
Samples in proper container/bottle?	res ✓ No							
Were correct preservatives used and noted?	res ✓ No							
Sample containers intact?	res ✓ No							
Sufficient sample volume for indicated test?	res ✔ No							
Were container lables complete (ID, Pres, Date)?	res ✓ No							
· · · · · · · · · · · · · · · · · · ·	res ✓ No							
	res ✓ No							
	res V No							
Response when temperature is outside of range:								
Preservative added to bottles:								
	res ✓ No 2.4 °C							
	Yes No NA ✓							
pri deseption of the second of	Yes No NA V							
Sample Condition?	act Broken Leaking							
Number of preserved bottles checked for pH:								
<2 or >12 unless noted	Adjusted? Checked by							
Client Contacted? Yes No ✓ NA Person Contact	ted: Comments:							
Contact Mode: Phone: Fax: Ema	ail: In Person:							
Date Contacted: Contacted By:								
Regarding:								
CorrectiveAction:								

C	Chain-of-Custody Record		Turn-Around	Time:									E	MX	/TE	•	NI B	4EI	AIT	AL		
Client:	Anima	s Env	Services	Standard	□ Rush			HALL ENVIRONMENTAL ANALYSIS LABORATORY														
				Project Name	E 1 10150								v.hal									,
Mailing	Address	624	E. Comanche	Project Name	2B-2	<i>\</i>			49	01 H			VE -						109			
Fai	ming t	ba WV	4	Project #:				Tel. 505-345-3975 Fax 505-345-4107														
Phone	#: 505	564	4 (-229/					Analysis Request														
email o	r Fax#:	tlonge	anime sentionmental co	Project Mana	iger:			T	uly)	sel)					O ₄)				T	T	1	П
QA/QC Star	Package: ndard	,	☐ Level 4 (Full Validation)					-208) e	+ TPH (Gas only)	(Gas/Diesel)					,PO4,S	PCB's						
Accred		□ Othe	r	Sampler: Thomas Long On Ice Annual Annual No.			HARB.	+ TPH		18.1)	04.1)	AH)		3,NO ₂	/ 8082		(A)				or N)	
	(Type)			Sample Tem	perature: 2	4	1,475	#	BE	d 80	pd 4	od 5	or P	stals	J,NC	ides	(F)	9-				2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	(a) (a) (b)	AL No.	BTEX + MTBE + TMB's (8024)	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1/4/12	(325	Soil	SVE-12 0-21	402 Jev	IcE		- 1	X		X										\top		
1	4/12 (225 Soil SVE-1e 0-21 1/ 1317 / SVE1e 30-32'		SVE1 e 30-32'	+	1		-2	4		4										\top	\top	
								1											\top	1	\top	\top
			1444																	\top	\top	T
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Date: Y IL Date:	Time:	Relinquish	· Tv	Received by:	Docto	Date /4/12 Date	Time /5 24	Rer	nark	s:												
	If necessary,	samples subi	mitted to Hall Environmental may be sub-	contracted to other a	coredited laboratori	es. This serve	s as notice of this	possi	bility.	Any su	ub-con	tracte	d data	will be	clear	ly nota	ited or	the ar	nalytical	report		



August 3, 2012

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

RE: 52 & C-52 Loop

> **Drip Pit Closure Report** San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RCVD SEP 7'12 OIL CONS. DIV. DIST. 3

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the drip pit closure at the Enterprise Products Company (Enterprise) 52 & C-52 Loop Drip Pit, located in San Juan County, New Mexico.

Site Information 1.0

1.1 Location

Site Name - 52 & C-52 Loop Drip Pit Legal Description - NW¼ NE¼, Section 29, T29N, R9W, San Juan County, New Mexico Drip Pit Latitude/Longitude - N36.70240 and W107.79888, respectively Land Jurisdiction - Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), the location was assigned a ranking score to establish action levels. The ranking score was obtained by reviewing available records of nearby oil/gas wells using the NMOCD online database. A Below Grade Tank Closure Report for a nearby well dated September 2003 indicated groundwater was greater than 100 feet below ground surface (bgs). Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water, and no surface waters were identified within 1,000 feet of the location. Canyon Largo wash is located approximately 2,000 feet to the northeast. Based on these factors, the location was assessed a ranking score of 0.

1.3 Drip Pit Assessment

AES was initially contacted by Aaron Dailey, Enterprise representative, on April 3, 2012, and on April 4, 2012, Ross Kennemer and Deborah Watson of AES completed the assessment of the drip pit, which included collection of five soil samples from the pit footprint for field screening and laboratory analysis.

2.0 Soil Sampling

On April 4, 2012, AES personnel used a hand auger to collect five soil samples (TH-1 through TH-5) from the pit footprint. Soil samples were collected from the following depths: TH-1 (1.7 feet), TH-2 (2 feet), TH-3 (1.6 feet), TH-4 (1.1 feet), and TH-5 (1.3 feet). Samples were field screened for volatile organic compounds (VOCs) and submitted for laboratory analysis. Sample locations are included on Figure 3.

2.1 Field Screening

A portion of each sample was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

Samples TH-1 through TH-5 were collected for laboratory analysis and 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 Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Samples were analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B;
- Chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

VOC field screening readings ranged from 2.4 ppm in TH-1 and TH-5 up to 2.8 ppm in TH-4. Field screening results are summarized in Table 1 and presented on Figure 3.

Table 1. Soil Field Screening VOCs Results 52 & C-52 Loop Drip Pit Closure April 2012

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)
TH-1	04/04/12	1.7	2.4
TH-2	04/04/12	2	2.6
TH-3	04/04/12	1.6	2.6
TH-4	04/04/12	1.1	2.8
TH-5	04/04/12	1.3	2.4

Laboratory analytical results showed that the benzene, total BTEX, TPH, and chloride concentrations were below laboratory detection limits or NMOCD action levels in each of the samples. Laboratory analytical results are summarized in Table 2 and are included on Figure 3. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results, 52 & C-52 Loop Drip Pit Closure, April 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action	Level (NMAC 19.15	.17.13C)	3C) 0.2 50 100		250		
TH-1	4/4/12	1.7	<0.049	<0.246	<4.9	97	<1.5
TH-2	4/4/12	2	<0.050	<0.250	<5.0	50	2.7
TH-3	4/4/12	1.6	<0.048	<0.240	<4.8	40	<1.5
TH-4	4/4/12	1.1	<0.049	<0.244	<4.9	<10	<1.5
TH-5	4/4/12	1.3	<0.049	<0.245	<4.9	55	<1.5

3.0 Conclusions and Recommendations

NMOCD action levels for permanent pit closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13C. Benzene and BTEX concentrations in each sample were below the laboratory detection limits and the NMOCD action level of 0.2 mg/kg and 50 mg/kg, respectively. TPH concentrations as GRO/DRO were below the

NMOCD threshold of 100 mg/kg in each soil sample. The highest concentration was reported in TH-1 with 97 mg/kg. Chloride concentrations for all samples were below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, BTEX, TPH, and chlorides, no further work is recommended.

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

Sincerely,

Tami C. Ross, CHMM Project Manager

Jami Ross

Elizabeth McNally, P.E.

Elizabeth V MeNelly-

Attachments:

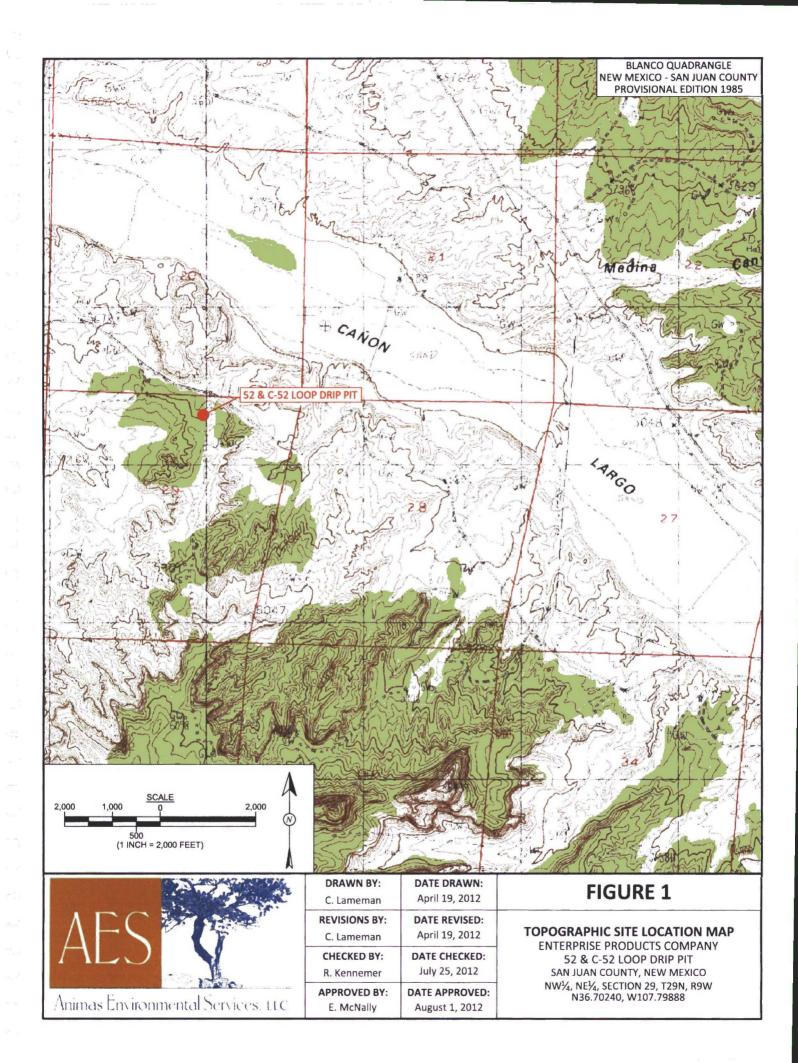
Figure 1. Topographic Site Location Map

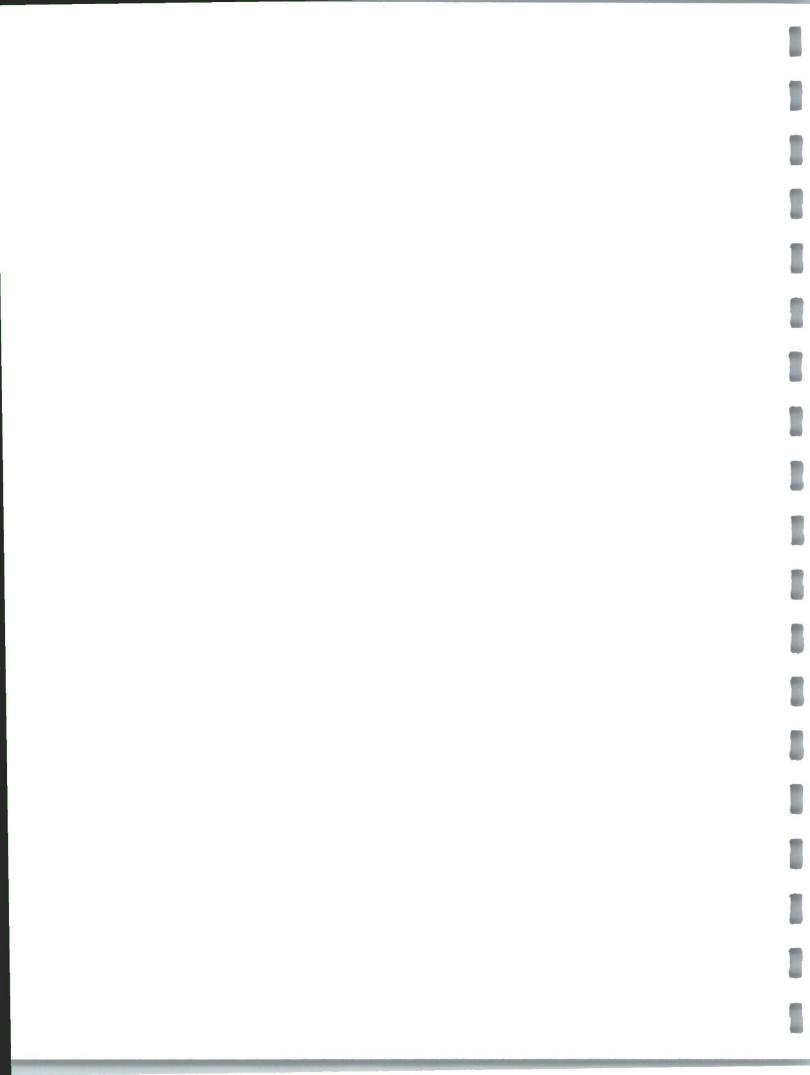
Figure 2. Aerial Site Map

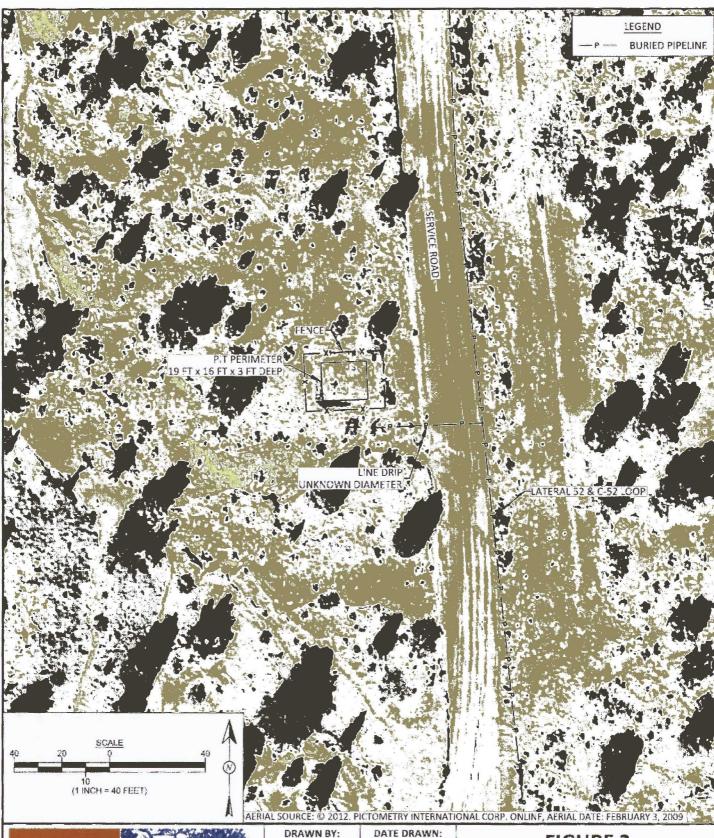
Figure 3. Sample Locations and Results, April 2012

Hall Analytical Report 1204238

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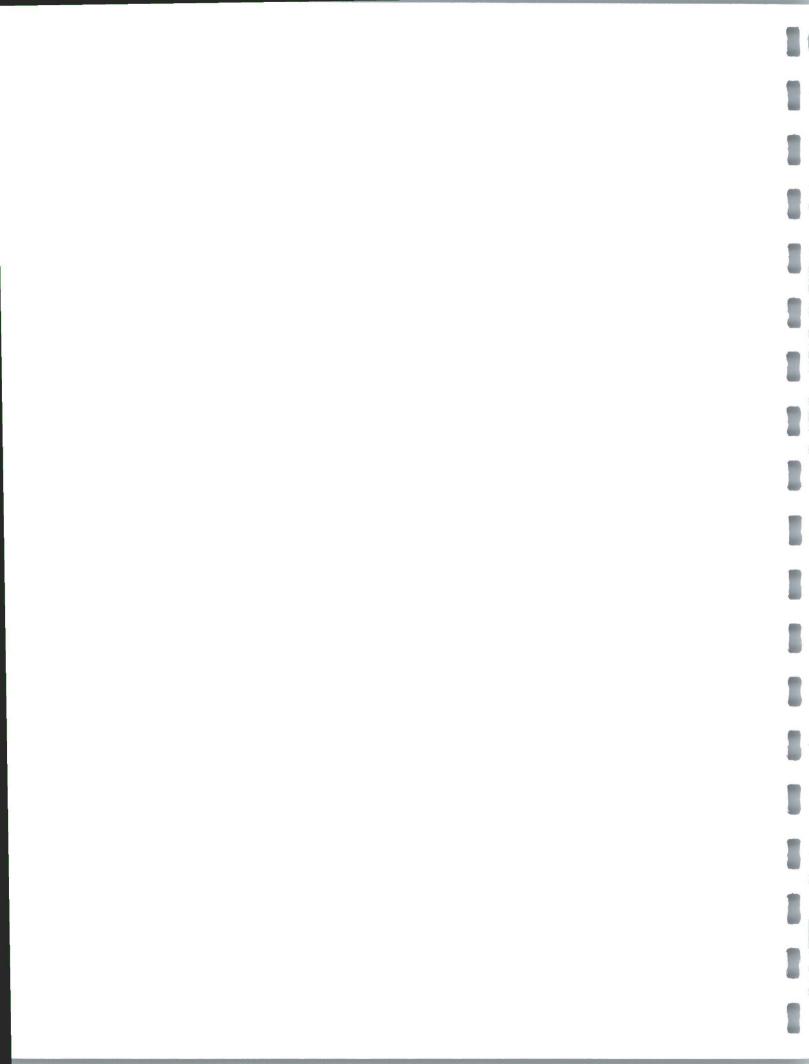


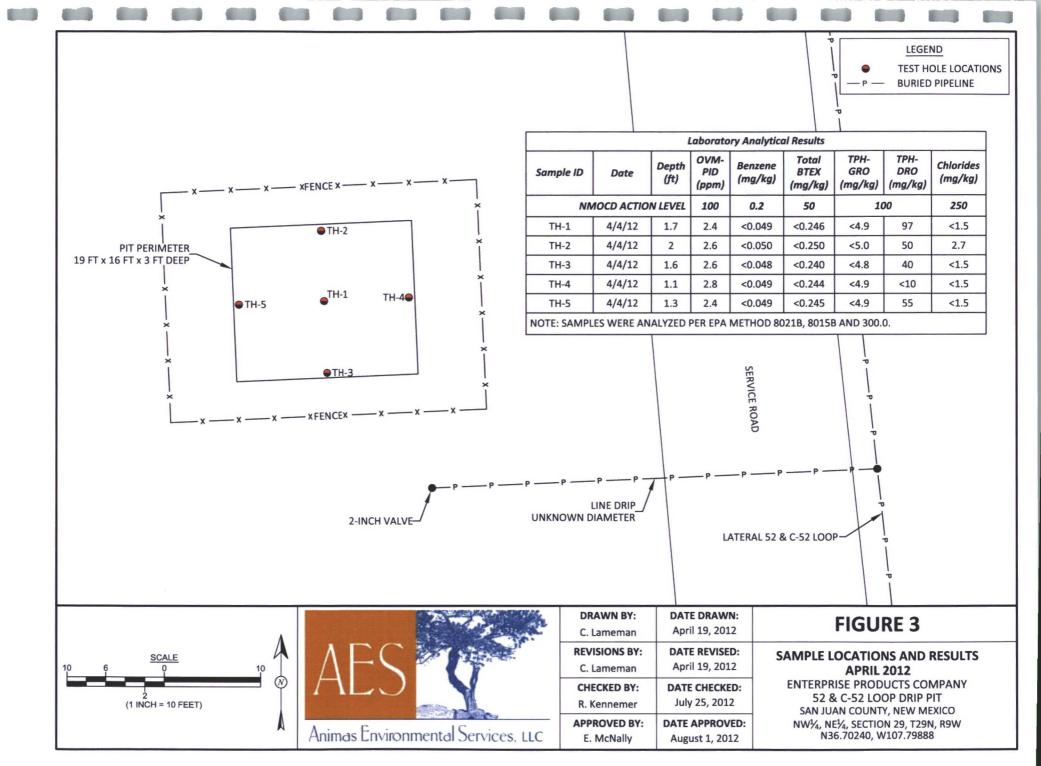
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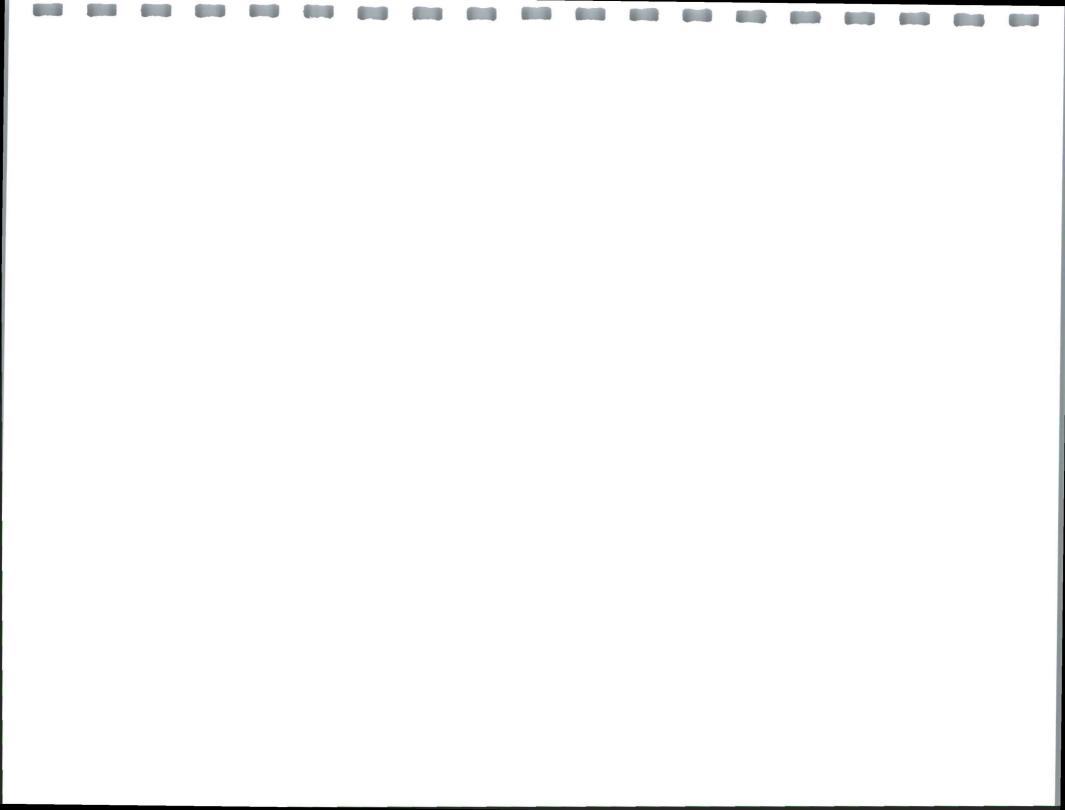
	DRAWN BY:	DATE DRAWN:
	C. Lameman	April 19, 2012
	REVISIONS BY:	DATE REVISED:
ļ	C. Lameman	April 19, 2012
	CHECKED BA:	DATE CHECKED:
	R. Kennemer	July 25, 2012
	APPROVED BY:	DATE APPROVED:
	E. McNally	August 1, 2012

FIGURE 2

AERIAL SITE MAP ENTERPRISE PRODUCTS COMPANY 52 & C-52 LOOP DRIP PIT SAN JUAN COUNTY, NEW MEXICO NW¼, NE¼, SECTION 29, T29N, R9W N36.70240, W107.79888









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

April 12, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: 52 & C-52 Loop Drip Pit

OrderNo.: 1204238

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1204238

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Lab ID: 1204238-001

Client Sample ID: TH-1@20"

Collection Date: 4/4/2012 2:20:00 PM

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	97	9.8	mg/Kg	1	4/8/2012 1:16:37 AM
Surr: DNOP	108	77.4-131	%REC	1	4/8/2012 1:16:37 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/9/2012 7:18:59 PM
Surr: BFB	100	69.7-121	%REC	1	4/9/2012 7:18:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	4/9/2012 7:18:59 PM
Toluene	ND	0.049	mg/Kg	1	4/9/2012 7:18:59 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/9/2012 7:18:59 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/9/2012 7:18:59 PM
Surr: 4-Bromofluorobenzene	96.7	80-120	%REC	1	4/9/2012 7:18:59 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	4/9/2012 4:12:51 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 1 of 10

Analytical Report

Lab Order 1204238

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Lab ID: 1204238-002

Client Sample ID: TH-2@24"

Collection Date: 4/4/2012 2:22:00 PM

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	50	10	mg/Kg	1	4/8/2012 1:37:46 AM
Surr: DNOP	104	77.4-131	%REC	1	4/8/2012 1:37:46 AM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/9/2012 7:47:41 PM
Surr: BFB	99.6	69.7-121	%REC	1	4/9/2012 7:47:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	4/9/2012 7:47:41 PM
Toluene	ND	0.050	mg/Kg	1	4/9/2012 7:47:41 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/9/2012 7:47:41 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/9/2012 7:47:41 PM
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	4/9/2012 7:47:41 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	2.7	1.5	mg/Kg	1	4/9/2012 4:37:40 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 2 of 10

Analytical Report Lab Order 1204238

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Lab ID: 1204238-003

Client Sample ID: TH-3@19"

Collection Date: 4/4/2012 2:25:00 PM

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE (ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	40	10	mg/Kg	1	4/8/2012 1:58:55 AM
Surr: DNOP	106	77.4-131	%REC	1	4/8/2012 1:58:55 AM
EPA METHOD 8015B: GASOLINE RANG	Ε				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/9/2012 8:16:25 PM
Surr: BFB	101	69.7-121	%REC	1	4/9/2012 8:16:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	4/9/2012 8:16:25 PM
Toluene	ND	0.048	mg/Kg	1	4/9/2012 8:16:25 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/9/2012 8:16:25 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/9/2012 8:16:25 PM
Surr: 4-Bromofluorobenzene	95.8	80-120	%REC	1	4/9/2012 8:16:25 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	4/9/2012 2:58:22 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1204238

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Lab ID: 1204238-004

Client Sample ID: TH-4@13"

Collection Date: 4/4/2012 2:27:00 PM

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/6/2012 6:21:08 PM
Surr: DNOP	94.4	77.4-131	%REC	1	4/6/2012 6:21:08 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/9/2012 8:45:09 PM
Surr: BFB	101	69.7-121	%REC	1	4/9/2012 8:45:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	4/9/2012 8:45:09 PM
Toluene	ND	0.049	mg/Kg	1	4/9/2012 8:45:09 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/9/2012 8:45:09 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/9/2012 8:45:09 PM
Surr: 4-Bromofluorobenzene	97.2	80-120	%REC	1	4/9/2012 8:45:09 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	4/9/2012 12:54:14 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 4 of 10

Analytical Report

Lab Order 1204238

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Lab ID: 1204238-005

Client Sample ID: TH-5@16"

Collection Date: 4/4/2012 2:30:00 PM

Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	55	9.8	mg/Kg	1	4/6/2012 6:42:35 PM
Surr: DNOP	104	77.4-131	%REC	1	4/6/2012 6:42:35 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/10/2012 6:22:41 PM
Surr: BFB	110	69.7-121	%REC	1	4/10/2012 6:22:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	4/10/2012 6:22:41 PM
Toluene	ND	0.049	mg/Kg	1	4/10/2012 6:22:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/10/2012 6:22:41 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/10/2012 6:22:41 PM
Surr: 4-Bromofluorobenzene	98.0	80-120	%REC	1	4/10/2012 6:22:41 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	4/9/2012 1:19:03 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 5 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204238

12-Apr-12

Client:

Animas Environmental Services

Project:

52 & C-52 Loop Drip Pit

Sample ID MB-1412

SampType: MBLK

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 1412

RunNo: 2004

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC

Prep Date: 4/6/2012

SeqNo: 55785

Units: mg/Kg

Analyte

Analysis Date: 4/9/2012

HighLimit

%RPD **RPDLimit**

Qual

Chloride

Result

PQL 1.5

ND

SampType: LCS Batch ID: 1412

RunNo: 2004

Client ID: LCSS

Sample ID LCS-1412

97.0

Prep Date: 4/6/2012

Analysis Date: 4/9/2012

SeqNo: 55786

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

Sample ID 1204093-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

110

Client ID:

BatchQC

Batch ID: 1412

15

RunNo: 2004

118

Prep Date:

4/6/2012

Analysis Date: 4/9/2012

1.5

1.5

PQL

1.5

SeqNo: 55792

Units: mg/Kg

Analyte

Result 14

14

POL SPK value SPK Ref Val

15.00

15.00

15.00

%REC 0.5140 87.7

LowLimit HighLimit 74.6

RPDLimit

Qual

Chloride

Sample ID 1204093-001AMSD

4/6/2012

SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC** Batch ID: 1412

RunNo: 2004

Analysis Date: 4/9/2012

SeqNo: 55793

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Prep Date:

PQL SPK value SPK Ref Val %REC

88.4

0.5140

LowLimit

74.6

HighLimit 118 %RPD 0.788

%RPD

20

Qualifiers:

- Value exceeds Maximum Contaminant Level. */X
- Value above quantitation range
- Analyte detected below quantitation limits RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Page 6 of 10

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204238

12-Apr-12

Client:

Animas Environmental Services

Project:

Prep Date:

52 & C-52 Loop Drip Pit

Result

Sample ID	MB-1397
Client ID:	PBS

4/5/2012

SampType: MBLK

Analysis Date: 4/6/2012

TestCode: EPA Method 8015B: Diesel Range Organics

Batch ID: 1397

10

RunNo: 1949 SeqNo: 54287

Units: mg/Kg

131

RPDLimit Qual

Qual

Qual

Analyte Diesel Range Organics (DRO)

PQL ND 10

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

100

HighLimit

Sample ID LCS-1397 Client ID: LCSS Prep Date: 4/5/2012

Batch ID: 1397 Analysis Date: 4/6/2012 RunNo: 1949 SeqNo: 54449

Units: mg/Kg

%REC Result PQL SPK value SPK Ref Val LowLimit HighLimit 50 10 50.00 100 62.7 139 Range Organics (DRO)

10.00

Surr: DNOP 4.7 5.000 94.1 77.4 131

Sample ID 1204093-001AMS Client ID: **BatchQC**

SampType: MS Batch ID: 1397

PQL

Result

53

4.9

RunNo: 1949

%REC

TestCode: EPA Method 8015B: Diesel Range Organics

Prep Date: 4/5/2012 Analysis Date: 4/6/2012

SeqNo: 54714

SPK value SPK Ref Val

Units: mg/Kg

HighLimit %RPD **RPDLimit**

Analyte Range Organics (DRO) Surr: DNOP

55 9.9 49.60 4.960 4.9

110 99.6 77.4

LowLimit

Qual

RPDLimit

Sample ID 1204093-001AMSD Client ID: **BatchQC**

SampType: MSD Batch ID: 1397

RunNo: 1949

TestCode: EPA Method 8015B: Diesel Range Organics

Prep Date: 4/5/2012 Analysis Date: 4/6/2012

SeqNo: 54718

Units: mg/Kg

131

Analyte Diesel Range Organics (DRO) Surr: DNOP

PQL SPK value SPK Ref Val 9.8 49.12 4.912

%REC LowLimit 108 57.2 98.9 77 4 HighLimit %RPD 146 2.82 131 0

26.7 0

RPDLimit

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits 1

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Reporting Detection Limit

RL

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204238

12-Apr-12

Client:

Animas Environmental Services

Project:

52 & C-52 Loop Drip Pit

Result

Sample ID	MB-1393
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

Batch ID: 1393

PQL

RunNo: 2012

Prep Date: 4/5/2012

Analysis Date: 4/9/2012

SeqNo: 56099

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

RPDLimit

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 1.000

SPK value SPK Ref Val %REC

100 69 7 121

Qual

Qual

Sample ID LCS-1393

SampType: LCS Batch ID: 1393

TestCode: EPA Method 8015B: Gasoline Range

Prep Date: 4/5/2012

Client ID: LCSS Analysis Date: 4/9/2012 RunNo: 2012 SeqNo: 56100

Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit **HighLimit** Analyte Gasoline Range Organics (GRO) 29 25.00 115 98.5 133

1,000

1,000

24.51

980.4

963.4

Surr: BFB

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

106

69.7 121

%RPD

Sample ID 1204093-001AMS

Sample ID 1204093-001AMSD

Batch ID: 1393

RunNo: 2012

Client ID: BatchQC

SeqNo: 56114

119

107

85.4

69.7

85.4

69.7

69.7

TestCode: EPA Method 8015B: Gasoline Range

Units: mg/Kg

147

121

Analyte Gasoline Range Organics (GRO)

Prep Date: 4/5/2012 Analysis Date: 4/9/2012 Result PQL

29

1,000

1,100

%REC SPK value SPK Ref Val LowLimit HighLimit %RPD

RPDLimit Qual

Surr: BFB

SampType: MSD

RunNo: 2012

TestCode: EPA Method 8015B: Gasoline Range

Client ID: BatchQC Prep Date: 4/5/2012 Batch ID: 1393

49

Analyte

Analysis Date: 4/9/2012

SeqNo: 56115

Units: mg/Kg

SPK value SPK Ref Val 24.08

%REC

108

Result PQL Gasoline Range Organics (GRO) 29 4.8 Surr: BFB 1,000

LowLimit 0 122

HighLimit %RPD **RPDLimit** Qual 19.2 147 0.769 121 0 0

Sample ID MB-1436

SampType: MBLK

RunNo: 2021

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS Prep Date: 4/9/2012 Batch ID: 1436

SeqNo: 56803

Units: %REC

Analyte

Analysis Date: 4/11/2012

%RPD **RPDLimit** Qual

Surr: BFB

1,000

Result

SPK value SPK Ref Val

%REC LowLimit

SampType: LCS

1,000 101 HighLimit 121

Sample ID LCS-1436 Client ID: LCSS

Batch ID: 1436

RunNo: 2021

Prep Date: Analyte

Analysis Date: 4/11/2012

SeqNo: 56804

Units: %REC

%RPD

Surr: BFB

PQL 1,100

1,000

SPK value SPK Ref Val %REC LowLimit 111 69.7

HighLimit 121

RPDLimit Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range

4/9/2012

- Analyte detected below quantitation limits RPD outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204238

12-Apr-12

Client:

Animas Environmental Services

Project:

52 & C-52 Loop Drip Pit

Sample ID MB-1393	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch	Batch ID: 1393			RunNo: 2					
Prep Date: 4/5/2012	ep Date: 4/5/2012 Analysis Date: 4/9/2012			S	SeqNo: 5					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID LCS-1393	Test	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Client ID: LCSS Batch ID: 1393				RunNo: 2013								
Prep Date: 4/5/2012 Analysis Date: 4/9/201			9/2012	012 SeqNo: 56127 Units: mg/l					g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.050	1.000	0	102	83.3	107						
Toluene	1.0	0.050	1.000	0	105	74.3	115						
Ethylbenzene	1.0	0.050	1.000	0	104	80.9	122						
Xylenes, Total	3.2	0.10	3.000	0	105	85.2	123						
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120						

Sample ID 1204093-001A M	ble ID 1204093-001A MS SampType: MS					TestCode: EPA Method 8021B: Volatiles					
Client ID: BatchQC	Batch	Batch ID: 1393			RunNo: 2013						
Prep Date: 4/5/2012	Analysis D	ate: 4/	9/2012	5	SeqNo: 5	6138	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.050	0.9901	0	93.7	67.2	113				
Toluene	0.95	0.050	0.9901	0	95.9	62.1	116				
Ethylbenzene	0.92	0.050	0.9901	0	93.4	67.9	127				
Xylenes, Total	2.8	0.099	2.970	0	94.9	60.6	134				
Surr: 4-Bromofluorobenzene	0.97		0.9901		98.0	80	120				

Sample ID 1204093-001A MS	SD SampTy	pe: MS	SD	Tes	Code: El	PA Method	8021B: Volat	tiles			
Client ID: BatchQC	Client ID: BatchQC Batch ID: 1393					RunNo: 2013					
Prep Date: 4/5/2012	Analysis Da	te: 4/	9/2012	S	SeqNo: 5	6139	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.049	0.9785	0	96.6	67.2	113	1.87	14.3		
Toluene	0.96	0.049	0.9785	0	98.1	62.1	116	1.14	15.9		
Ethylbenzene	0.95	0.049	0.9785	0	96.9	67.9	127	2.49	14.4		
Xylenes, Total	2.9	0.098	2.935	0	98.2	60.6	134	2.25	12.6		
Surr: 4-Bromofluorobenzene	0.99		0.9785		101	80	120	0	0		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204238

12-Apr-12

Client:

Animas Environmental Services

Project:

52 & C-52 Loop Drip Pit

Sample ID MB-1436

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS**

Batch ID: 1436

RunNo: 2021

Prep Date:

4/9/2012

Analysis Date: 4/11/2012

SeqNo: 56829

Units: %REC

Analyte

SPK value SPK Ref Val

Surr: 4-Bromofluorobenzene

Result 0.96

1.000

%REC LowLimit HighLimit

RPDLimit Qual

Sample ID LCS-1436

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS

4/9/2012

Batch ID: 1436

RunNo: 2021

Units: %REC

%RPD

Prep Date:

Analysis Date: 4/11/2012

SeqNo: 56834

Analyte

%REC

HighLimit

SPK value SPK Ref Val

RPDLimit

Qual

1.0

1.000

%RPD

101

120

Qual *

Surr: 4-Bromofluorobenzene

Sample ID 1204317-001AMS **BatchQC**

SampType: MS Batch ID: 1436

RunNo: 2021

TestCode: EPA Method 8021B: Volatiles

Prep Date: Analyte

Client ID:

4/9/2012

Analysis Date: 4/11/2012

1.0

Result

Result

0.99

0.9833

0.9542

SPK value SPK Ref Val

SeqNo: 56844

SPK value SPK Ref Val %REC

LowLimit

LowLimit

80

Units: %REC %RPD

RPDLimit Qual

Sample ID 1204317-001AMSD

Surr: 4-Bromofluorobenzene

SampType: MSD Batch ID: 1436

PQL

TestCode: EPA Method 8021B: Volatiles RunNo: 2021

103

HighLimit

HighLimit

120

120

Analyte

Prep Date: 4/9/2012

Surr: 4-Bromofluorobenzene

Client ID: BatchQC

Analysis Date: 4/11/2012

SeqNo: 56845

%REC

104

Units: %REC

%RPD

RPDLimit 0

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

B

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Page 10 of 10

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

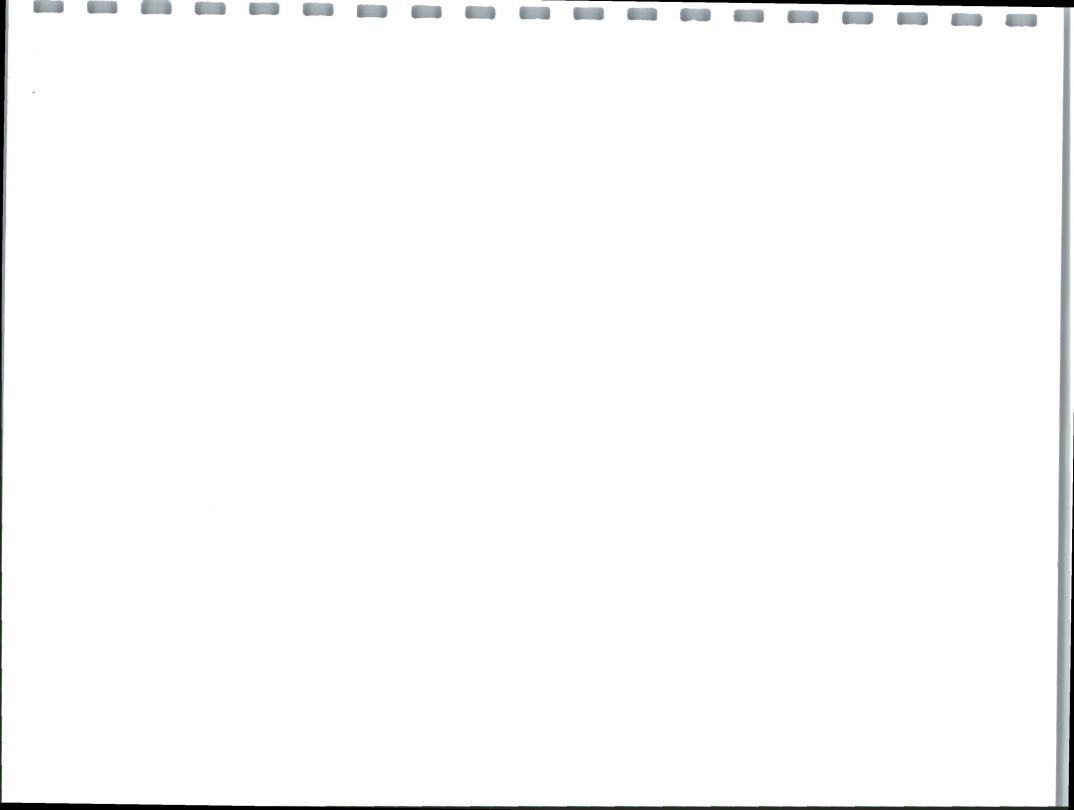
TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	ent Name: Animas Environmental	Work Order Number: 1204238	
Red	ceived by/date: DY DY DY	5/12	
Log	gged By: Ashley Gallegos 4/5/2012 9	45:00 AM	
Cor	mpleted By: Ashley Gallegos 4/5/2012 1	2:17:25 PM	
Rev	viewed By:		
Cha	ain of Custody		
1.	Were seals intact?	Yes ☐ No ☐ Not Present 🗹	
2.	Is Chain of Custody complete?	Yes ✓ No ☐ Not Present ☐	
3.	How was the sample delivered?	Courier	
Log	<u>a In</u>		
4.	Coolers are present? (see 19. for cooler specific information)	ation) Yes 🗹 No 🗌 NA 🗌	
5.	Was an attempt made to cool the samples?	Yes ☑ No □ NA □	
6.	Were all samples received at a temperature of >0° C to	6.0°C Yes ☑ No ☐ NA ☐	
7.	Sample(s) in proper container(s)?	Yes ✔ No □	
8.	0.000	Yes ☑ No □	
	Are samples (except VOA and ONG) properly preserved	d? Yes ☑ No □	
	Was preservative added to bottles?	Yes □ No ✓ NA □	
11	VOA vials have zero headspace?	Yes ☐ No ☐ No VOA Vials 🗹	
	Were any sample containers received broken?	Yes No 🗹	
	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✓ No ☐ # of preserved bottles checked for pH:	
14.	Are matrices correctly identified on Chain of Custody?	Yes ✓ No ☐ (<2 or >12 unless no	oted)
15.	Is it clear what analyses were requested?	Yes ☑ No ☐ Adjusted?	_
	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✓ No ☐ Checked by:	
	cial Handling (if applicable)	G. 10 a.	
	Was client notified of all discrepancies with this order?	Yes □ No □ NA 🗹	
	Person Notified:	Date:	
	By Whom:	Via: eMail Phone Fax In Person	
	Regarding:		
	Client Instructions:		
18.	Additional remarks:		
10	Cooler Information		
13.		Seal No Seal Date Signed By	

	IIaIII-	UI-Cu:	Stouy Record						'stell.	-	AL		ENI	VTI		NIR/	EN	ITA		
Client:	Animas	Environ	mental Services	X Standard	□ Rusi	h		##										ΓOR		
				Project Name	e:		žų.													
Mailing A	ddress:	624 E Co	omanche	1	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109															
			on , NM 87401	52 & C-52 Loop Drip Pit Project #:				Tel. 505-345-3975 Fax 505-345-4107												
Phone #:		505-327-		1								-		-	ques	-				
email or	Fax#:	505-324-	2022	Project Mana	iger:						\neg					T	T			
QA/QC Pa	ackage:				Ross Kenner	mer														
X Standa	ard		☐ Level 4 (Full Validation)					2												
Accredita		□ Other		Sampler:	D. Watson			TPH (GRO/DRO)	,,											or N)
□ EDD (Type)			Senoroite (Velji)	igranurgi i i M			(GR	ride											2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	120 758	8021 BTEX	8015 TPH	300.0 Chlorides											Air Bubbles (Y or N)
4/4/12	14:20	soil	TH-1 @ 20"	(1) 4-oz glass jar	non	-001	Х													
4/4/12	14:22	soil	TH-2 @ 24"	(1) 4-oz glass jar	non	- 002	Х	Х	Х											
4/4/12	14:25	soil	TH-3 @ 19"	(1) 4-oz glass jar	non	- 003	X	Х	Х											
4/4/12	14:27	soil	TH-4 @ 13"	(1) 4-oz glass jar	non	-004	Х	Х	Х											
4/4/12	14:30	soil	TH-5 @ 16"	(1) 4-oz glass jar	non	-005	Х	Х	Х											
							\vdash			-						+	+	-	H	
							_			_						_				
							_	-	_							\dashv	_		\sqcup	
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4/4/1Z Date:	Time: 16:59 Time:	Relinquish	uh Watu	Received by:	elicetan	Date Time 4/4/12 1639 Date Time	Re	mark	(S: B	ill to	∟nte	rpris	se							
4/4/12	Пю	Chris	itine Watters	Talanh	SHOW	Doublostiz 09	24.5													
	If necessary	, samples sul	bmitted to Hall Environmental may be sur	bcontracted to other	accredited laborator				Any :	sub-co	ntracte	d data	will be	e clear	ly notate	ed on t	ne analy	tical rep	ort.	





April 19, 2012

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

RE: Valverde Plant Train 8 Sump Release Report February 2012 Release

San Juan County, New Mexico

Dear Mr. Dailey:

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

PICUD MAN ACTUAL DISCUSSION OF THE PROPERTY OF

On March 5, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with release of an unknown amount of natural gas condensate and water from the Enterprise Products Company (Enterprise) Valverde Plant Train 8 sump. The release, which is located approximately 2 miles northeast of Bloomfield, San Juan County, New Mexico, resulted from an overflow of the Train 8 sump at Enterprise's Valverde Plant.

1.0 Site Information

1.1 Location

Location - SE¼ NE¼, Section 14, T29N, R11W, San Juan County, New Mexico Latitude/Longitude - N36.72841 and W107.95591, respectively Surface Owner – Private

Figure 1 – Topographic Site Location Map

Figure 2 – Aerial Site Map

Figure 3 – Soil Borings and Sample Locations, February 2012 Release

Figure 4 – Excavation Sample Locations and Results, February 2012 Release

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and information obtained from the facility groundwater discharge permit cites that groundwater ranges from 26 to 55 feet below ground surface (bgs) on the southern half of the facility. This information was used in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private domestic water wells, and records of one nearby registered water well (SJ 0007) were located.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. Based on an elevation differential between the release location (5,587 feet above mean sea level (amsl) and information obtained from the facility discharge permit, groundwater is estimated to be less than 50 feet bgs. Distance to the nearest surface water body, Citizens Ditch, is approximately 1,000 feet southwest of the release location. One water well (SJ 0007) is located within the facility within 1,000 feet of the release location. The location was assessed a NMOCD ranking score of 20.

1.3 Assessment and Mitigation

Initial response and remediation activities were performed by Enterprise contractor West States Energy Contractors (WSEC) on February 26, 2012. WSEC contained the release and excavated soil where visible staining was observed. WSEC stockpiled the petroleum hydrocarbon contaminated soil on plastic sheeting outside the fence on the southern property boundary. After the initial response activities were completed, WSEC backfilled the excavated areas; however, no closure samples were collected.

On February 27, 2012, Tom Long of AES completed a site assessment at the release location. Six soil borings were installed to depths of 3 feet bgs with a hand auger, and soil samples were collected for field screening. Soil boring locations are included on Figure 3.

On March 5, 2012, WSEC completed an excavation south of the Train 8 sump to remove petroleum hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base of the excavation. A test hole was also excavated approximately 25 feet to the west of the south end of the excavation to confirm that no hydrocarbon contamination was present further west.

The final excavation covered an area of approximately 729 square feet with an average depth of 4 feet deep. Approximately 136 cubic yards of petroleum hydrocarbon contaminated soil were transported by Doug Foutz Construction to Industrial Ecosystems, Inc. (IEI), located near Aztec, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with clean imported fill. A photograph log and waste manifests are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected nine composite soil samples (SC-1 through SC-9) and one discrete soil sample (TH-1) from the excavation base,

excavation sidewalls, and one test hole for field screening and confirmation laboratory analyses. Excavation samples (SC-1 through SC-9) were collected at depths ranging from 3 to 5 feet bgs, and the test hole sample TH-1 was collected at above 3 feet bgs. Soil sample locations are included on Figure 4.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field-screening for volatile organic compounds (VOC) vapors was conducted with a Photo Ionization Detector (PID) Organic Vapor Meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (SC-1 through SC-9 and TH-1) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

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

2.3 Soil Field Screening and Laboratory Analytical Results

On February 27, 2012, soil samples collected for field screening (SB-1 through SB-6) had VOC concentrations (via OVM) ranging from 0.8 ppm in SB-6 (2 feet bgs) up to 772 ppm in SB-1 (1 foot bgs). VOC readings are included in Table 1 and presented on Figure 3.

On March 5, 2012, soil field screening results showed VOC concentrations that ranged from 3.0 ppm in TH-1 up to 138 ppm in SC-9. VOC readings are included in Table 1 and on Figure 4.

Laboratory analytical results for soil samples collected at SC-1 through SC-9 and TH-1 showed that benzene, total BTEX and TPH concentrations were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Table 1 and on Figure 4. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results Valverde Plant Train 8 February 2012 Release

			VOCs		Total	ТРН-	ТРН-
Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	Date	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMO	CD Action Le	evel*	100	10	50	10	00
SB-1	2/27/12	1	772	NA	NA	NA	NA
	2/27/12	2	272	NA	NA	NA	NA
SB-2	2/27/12	1	6	NA	NA	NA	NA
	2/27/12	2	230	NA	NA	NA	NA
SB-3	2/27/12	1	296	NA	NA	NA	NA
	2/27/12	2	68	NA	NA	NA	NA
SB-4	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.6	NA	NA	NA	NA
SB-5	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.8	NA	NA	NA	NA
SB-6	2/27/12	1	3.5	NA	NA	NA	NA
	2/27/12	2	0.8	NA	NA	NA	NA
	2/27/12	3	5.8	NA	NA	NA	NA
SC-1	3/5/12	1-3	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	3	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	1-3	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	1-3	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	4	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	1-4	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	5	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	1-5	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	1-4	138	<0.049	<0.244	<4.9	<9.9
TH-1	3/5/12	3	3.0	<0.049	<0.244	<4.9	<9.6

^{*}Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993); NA is not analyzed.

3.0 Conclusions and Recommendations

AES completed an assessment of the Valverde Plant Train 8 sump release in February and March 2012. Soil field screening and laboratory analytical results showed that concentrations for benzene, BTEX and TPH were below laboratory detection limits or well below applicable standards. Note that VOC field screening readings from SC-8 (126 ppm) and SC-9 (138 ppm) on March 5, 2012, were confirmed with laboratory analyses for benzene and BTEX and showed concentrations to be below laboratory detection limits or below the NMOCD threshold of 10 mg/kg for BTEX.

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, petroleum hydrocarbon impacted soils have been removed to below NMOCD action levels. No further work is recommended.

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

Sincerely,

Thomas Long Field Geologist

Elizabeth McNally, P.E.

Elizabeth V McNolly

Thomas J. Long

Mr. Aaron Dailey Valverde Plant Train 8 Sump February 2012 Release Report April 19, 2012 Page 6 of 6

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Soil Boring and Sample Locations, February 2012 Release

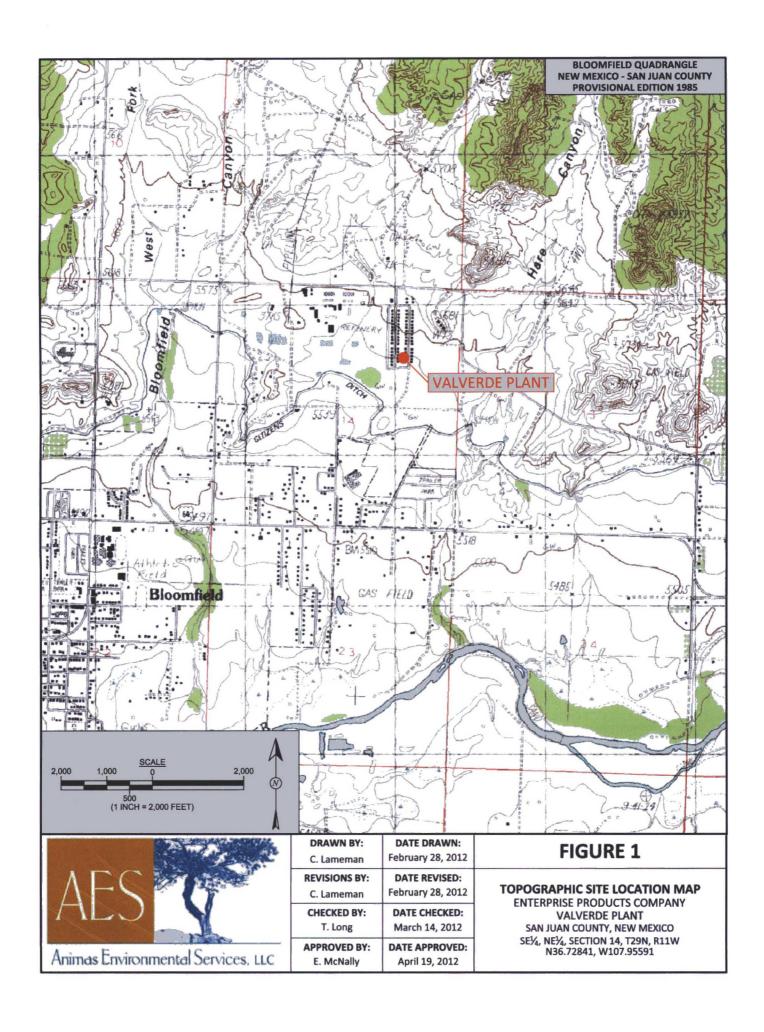
Figure 4. Excavation Sample Locations and Results, February 2012 Release

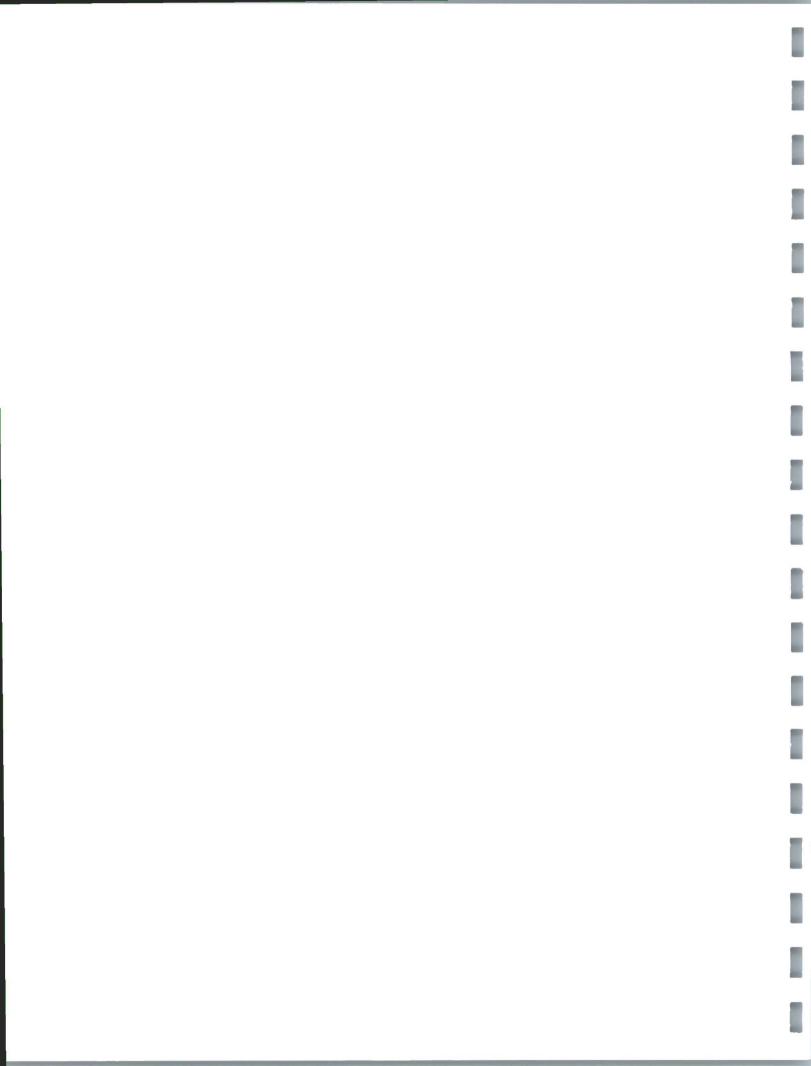
Photograph Log

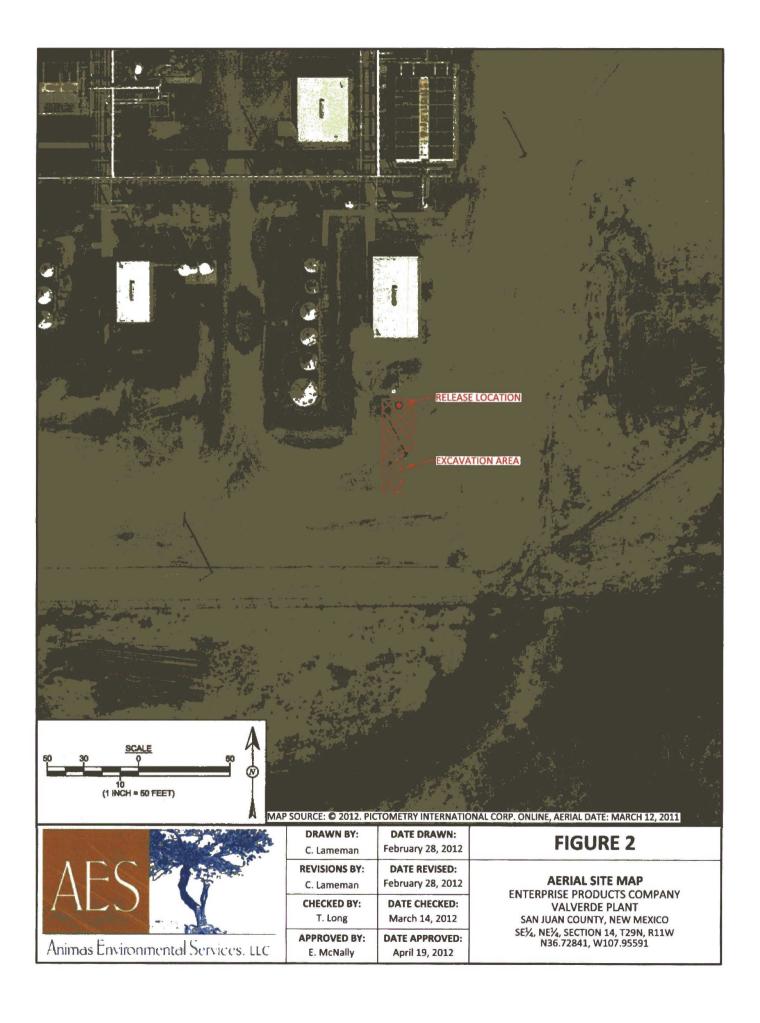
Waste Disposal Manifests (C-138 documents)

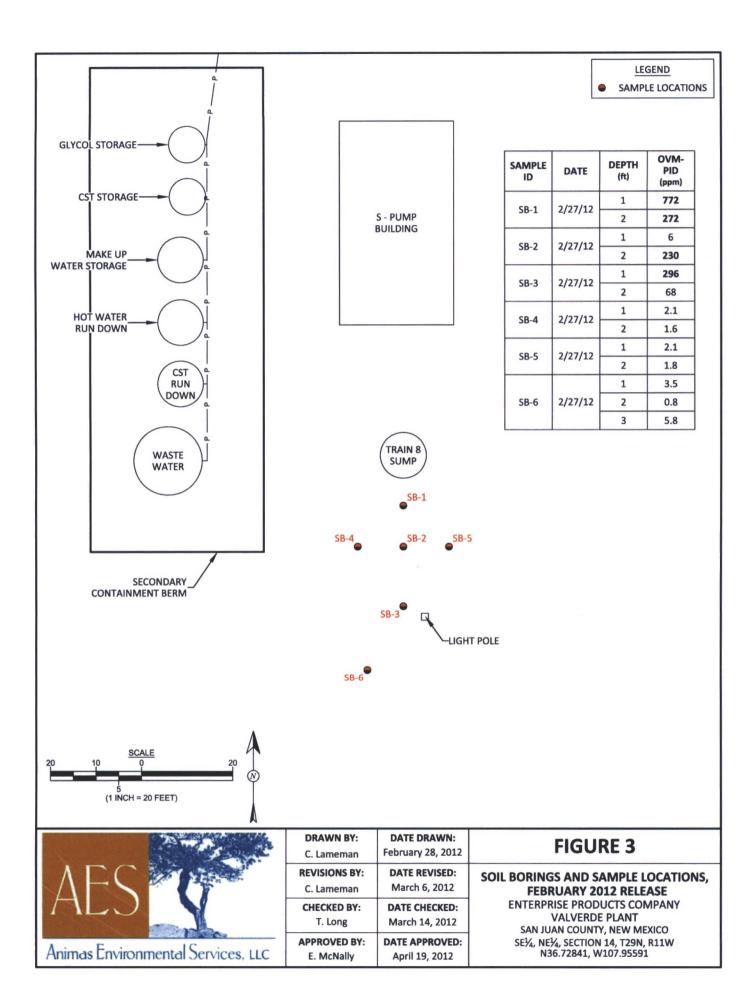
Laboratory Analytical Reports (Hall 1203156)

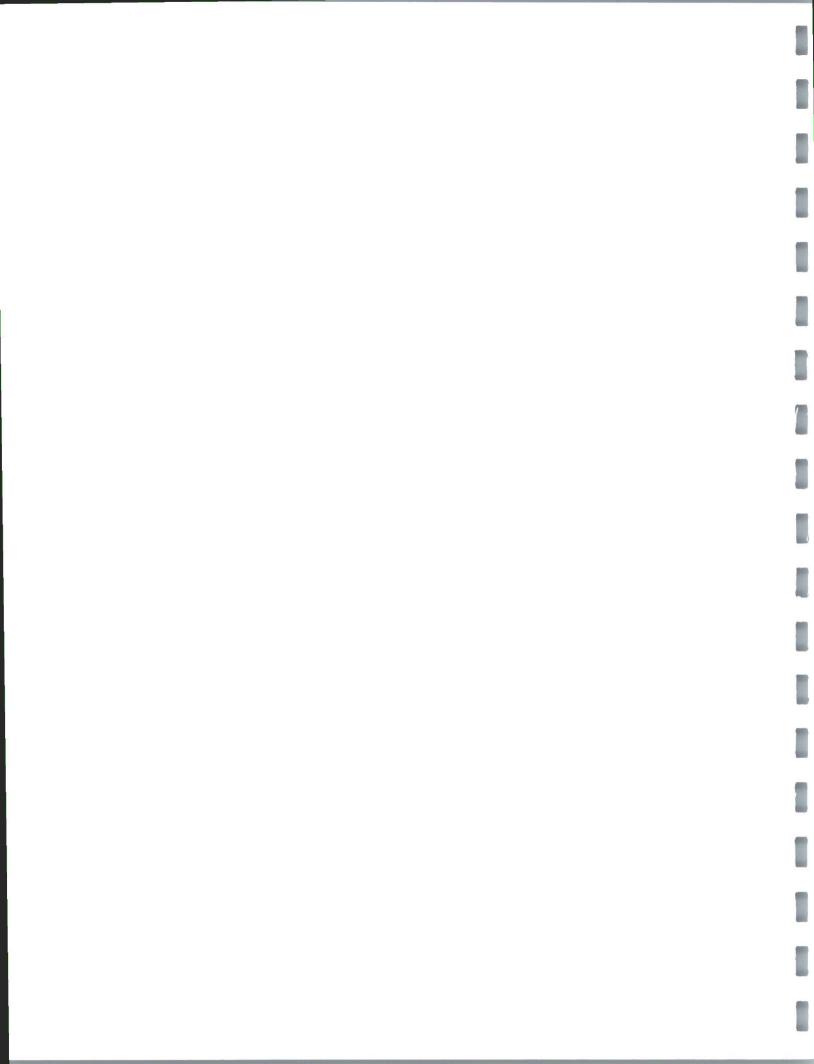
S:\Animas 2000\2012 Projects\Enterprise\Valverde Plany\Valverde Plant Train 8 Sump Release Report 041912.docx











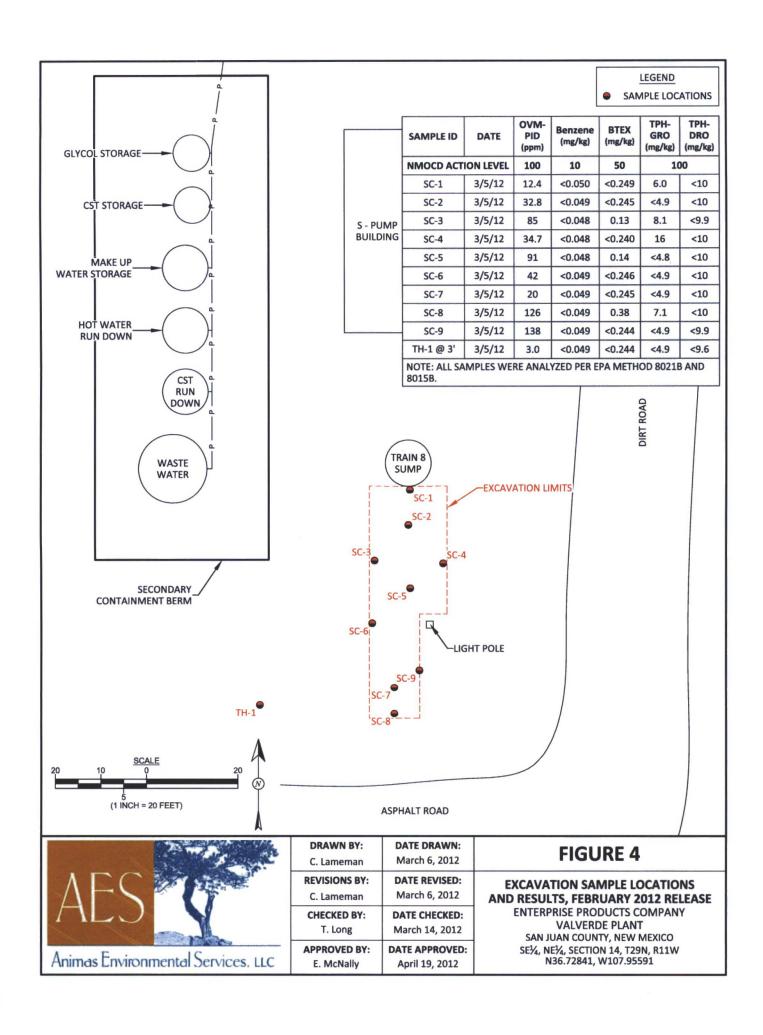


Photo #1

Client:
Enterprise Products
Company

Project:
Val Verde Plant
Train 8 Sump
Release

Taken by:
Tom Long

February 27, 2012

AES Project No:
120236

Description: View soil boring SB-1 during the initial investigation.

Client:
Enterprise Products
Company

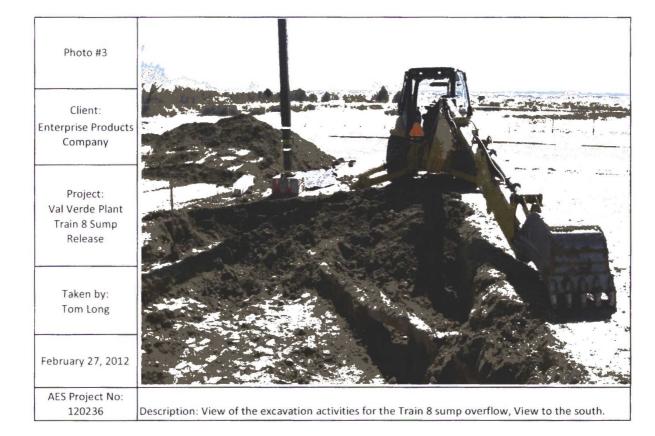
Project:
Val Verde Plant
Train 8 Sump
Release

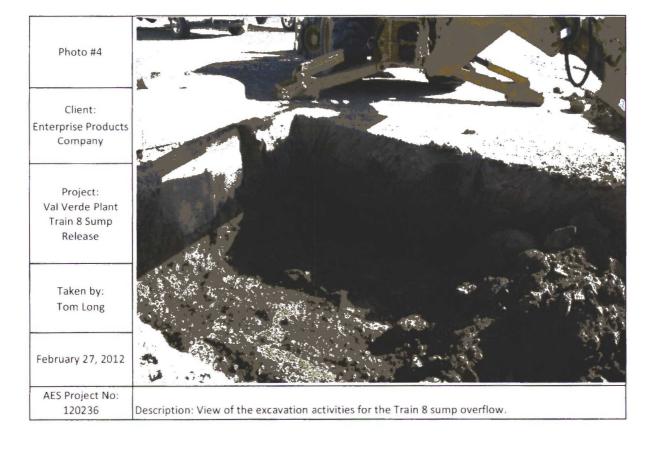
Taken by:
Tom Long

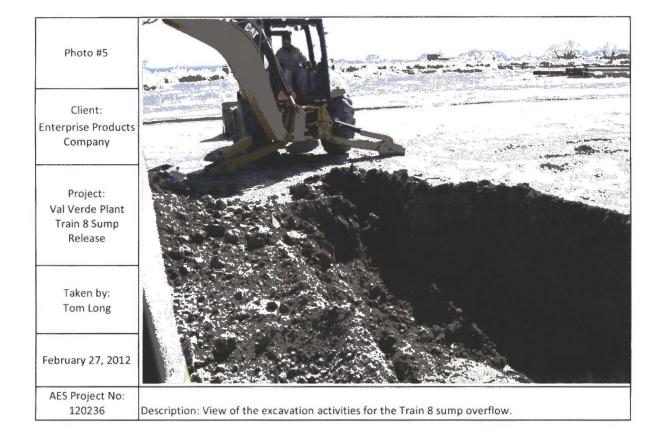
February 27, 2012

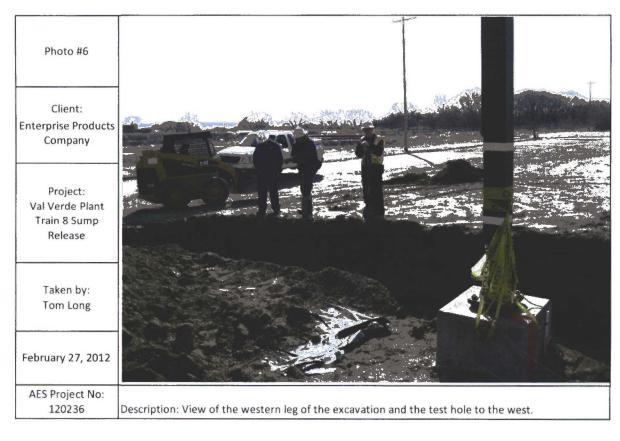
AES Project No:
120236

Description: View of the excavation activities for the Train 8 sump overflow.









District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
Enterprise Products Operating, L.P.
2. Originating Site: Val Verde Gas Treating Facility PAYICE : JA130 6
3. Location of Material (Street Address, City, State or ULSTR):
Sec 14/T29N/R11W, Lat 107.9820W Lon 36.7327N, 1119 County Road 4900, Bloomfield, NM 87413 3-7-12 (00 Cg
4. Source and Description of Waste: Source: Amine train 7 and 8 Sump Area Description: Exempt condensate stained soil from release cleanup activities
Source: Amine train 7 and 8 Sump Area Description: Exempt condensate stained soil from release cleanup activities
Estimated Volume 40 yd / bbls Known Volume (to be entered by the operator at the end of the haul) (yd / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I,Aaron Dailey, representative or authorized agent forEnterprise Products do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's Jul 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load**
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazard by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, p 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazard (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box ☐ ☐
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I,
I, do hereby certify that Representative/Agent Signature do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the
samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section
15 of 19.15.36 NMAC.
5. Transporter: West States Energy Contractors (505)632-6988
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B
Address of Facility: # 49 CR 3150 Aztec, NM 87410
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status:
APPROVED DENIED (Must Be Maintained As Permanent Record)
RINT NAME: L'MACHOLO TITLE: Clisteal DATE: 3-5-12
SIGNATURE TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent



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

April 13, 2012

Tami Ross

Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 793-2072

FAX

RE: Enterprise Val Verde Plants

OrderNo.: 1204427

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1204427

Date Reported: 4/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Carbon Media

Project: Enterprise Val Verde Plants

Collection Date: 4/10/2012 4:30:00 PM

Lab ID: 1204427-001

Matrix: MEOH (SOIL) Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	110,000	2,000		mg/Kg	200	4/12/2012 2:41:49 PM
Motor Oil Range Organics (MRO)	ND	10,000		mg/Kg	200	4/12/2012 2:41:49 PM
Surr: DNOP	0	77.4-131	S	%REC	200	4/12/2012 2:41:49 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	240	100		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: BFB	108	69.7-121		%REC	20	4/12/2012 6:31:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	12	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Toluene	56	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Ethylbenzene	2.9	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Xylenes, Total	16	2.0		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%REC	20	4/12/2012 6:31:55 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Result

Sample ID	MB-1481
Client ID:	PRS

SampType: MBLK

10

50

PQL

TestCode: EPA Method 8015B: Diesel Range Organics

Batch ID: 1481

RunNo: 2046

Prep Date: 4/11/2012 Analysis Date: 4/11/2012 SeqNo: 57041

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

ND ND

9.9

10.00

99.4 77.4

131

Surr: DNOP Sample ID LCS-1481

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS

Batch ID: 1481

RunNo: 2046

Prep Date: 4/11/2012

Analysis Date: 4/11/2012

SeqNo: 57042

Units: mg/Kg

131

Result Analyte Diesel Range Organics (DRO) 41 Surr: DNOP 4.7

SPK value SPK Ref Val 10 50.00 5.000

%REC LowLimit 82.8 93.0

HighLimit 62.7 139

77.4

LowLimit.

LowLimit

77.4

RPDLimit Qual

%RPD

Sample ID MB-1505

SampType: MBLK PRS Batch ID: 1505

TestCode: EPA Method 8015B: Diesel Range Organics

RunNo: 2071

Prep Date: Analyte

Client ID:

Client ID:

4/12/2012 Analysis Date: 4/12/2012 Result PQL SPK value SPK Ref Val

9.5

SeqNo: 57799 %REC

95.4

Units: %REC **HighLimit**

%RPD **RPDLimit**

Qual

Qual

Surr: DNOP

Sample ID LCS-1505

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Prep Date: 4/12/2012

LCSS

Batch ID: 1505

PQL

RunNo: 2071 SeqNo: 57804

Units: %REC

131

Analyte

Analysis Date: 4/12/2012

10.00

HighLimit

%RPD **RPDLimit**

SPK value SPK Ref Val %REC

Surr: DNOP

Result 4.5

5.000

89.5

77.4

131

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

J Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client: **Project:** Animas Environmental Services

Enterprise Val Verde Plants

Sample ID B5

SampType: MBLK Batch ID: R2054

TestCode: EPA Method 8015B: Gasoline Range RunNo: 2054

Client ID: PBS

Units: %REC

Prep Date:

Analysis Date: 4/11/2012

SeqNo: 57183

Analyte

Result POL SPK value SPK Ref Val %REC

100

%RPD HighLimit 121

Qual

Surr: BFB

1,000

1,000

TestCode: EPA Method 8015B: Gasoline Range

Sample ID 2.5UG GRO LCS Client ID: LCSS

SampType: LCS Batch ID: R2054

RunNo: 2054

Prep Date:

Analysis Date: 4/11/2012

POI

SeqNo: 57436

Units: %REC

Analyte

Result

SPK value SPK Ref Val %REC

LowLimit 69.7

LowLimit

69.7

HighLimit

Qual

Surr: BFB

1,100

Result

770

1,000

649.7

SPK value SPK Ref Val

111

%RPD

121

RPDLimit

RPDLimit

Sample ID 1204426-002AMS

Client ID:

Prep Date:

BatchQC

SampType: MS

RunNo: 2054

TestCode: EPA Method 8015B: Gasoline Range

Units: %REC

121

Analyte

BatchQC

Batch ID: R2054 Analysis Date: 4/11/2012

SeqNo: 57437 SPK value SPK Ref Val %REC

119

LowLimit 69.7

%RPD HighLimit

RPDLimit

Qual

Surr: BFB

Sample ID 1204426-002AMSD

SampType: MSD

TestCode: EPA Method 8015B: Gasoline Range

SeqNo: 57438

%REC

LowLimit

69.7

HighLimit

121

Client ID: Prep Date:

Analyte

Batch ID: R2054 Analysis Date: 4/11/2012 RunNo: 2054

Units: %REC

RPDLimit

Qual

S

Surr: BFB

SampType: MBLK

Result

790

TestCode: EPA Method 8015B: Gasoline Range

Sample ID MB-1460 Client ID:

PBS

Batch ID: 1460

Analysis Date: 4/12/2012

PQL

RunNo: 2089

Units: mg/Kg

%RPD

%RPD

Prep Date: 4/10/2012

Result

SPK value SPK Ref Val %REC

25.00

1,000

649.7

SeqNo: 58688

LowLimit

Analyte Gasoline Range Organics (GRO)

ND 1,000

5.0 1,000

HighLimit

RPDLimit

Qual

Surr: BFB

Result

1,100

30

SampType: LCS

PQL

5.0

TestCode: EPA Method 8015B: Gasoline Range

69.7

121

HighLimit

133

121

Sample ID LCS-1460 Client ID: LCSS

Prep Date: 4/10/2012

Batch ID: 1460

RunNo: 2089

98.5

69.7

LowLimit

Analyte Gasoline Range Organics (GRO)

Surr: BFB

Analysis Date: 4/12/2012 SPK value SPK Ref Val

0

SeqNo: 58689

%REC

121

112

Units: mg/Kg

%RPD **RPDLimit**

Qual

Qualifiers: Value exceeds Maximum Contaminant Level.

Value above quantitation range Analyte detected below quantitation limits J

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 3 of 6

RPD outside accepted recovery limits R

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427

13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Sample ID 1204362-001AMS

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: BatchQC

Batch ID: 1460

RunNo: 2089

Prep Date: 4/10/2012

Analysis Date: 4/12/2012 PQL

4.7

SeqNo: 58709

63.3

112

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 30 1,100 SPK value SPK Ref Val 23.74 14.69 949.7

%REC LowLimit

147

121

HighLimit

%RPD **RPDLimit** S

Sample ID 1204362-001AMSD

Client ID: BatchQC

SampType: MSD Batch ID: 1460

RunNo: 2089

TestCode: EPA Method 8015B: Gasoline Range

85.4

69.7

Prep Date: 4/10/2012

Analysis Date: 4/12/2012

SeqNo: 58710

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result SPK value SPK Ref Val %REC 30

LowLimit 64.6 114

HighLimit 147 121 %RPD **RPDLimit** Qual 0.922 19.2

Surr: BFB

23.70 1,100 947.9

14.69

85.4 69.7

0 0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204427

13-Apr-12

Client:	Animas Environmental Services
Project:	Enterprise Val Verde Plants

Sample ID B5	SampTyp	pe: MBI	LK	Test	Code: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch I	D: R20	54	R	RunNo: 2	054				
Prep Date:	Analysis Dat	te: 4/1	1/2012	S	eqNo: 5	7190	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID 1204426-003AMS	SampType:	MS	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batch ID:	R2054	F	RunNo: 2	054				
Prep Date:	Analysis Date:	4/11/2012	8	SeqNo: 5	7456	Units: %RE	С		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.73	0.7231		101	80	120			

Sample ID	1204426-003AMSD	Samp i ype:	MSD	res	Code: E	PA Method	8021B: Vola	lies			
Client ID:	BatchQC	Batch ID:	R2054	F	RunNo: 2	2054					
Prep Date:		Analysis Date:	4/11/2012	S	SeqNo: 5	57457	Units: %RE	С			
Analyte		Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Brom	ofluorobenzene	0.74	0.7231		103	80	120	0	0		

Sample ID 10	OONG BTEX LCS	SampTyp	e: LC	cs	Test	Code: E	PA Method	8021B: Volat	iles		
Client ID: Lo	css	Batch I	D: R 2	2054	R	RunNo: 2	054				
Prep Date:		Analysis Dat	e: 4	/11/2012	S	SeqNo: 5	7458	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofle	luorobenzene	0.99		1.000		98.6	80	120			

Sample ID MB-1460	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 14	60	F	RunNo: 2	089				
Prep Date: 4/10/2012	Analysis D	ate: 4	/12/2012	S	SeqNo: 5	8717	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	80	120			

Sample ID LCS-1460	SampT	ype: LC	s	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 14	60	R	RunNo: 2	089				
Prep Date: 4/10/2012	Analysis D	ate: 4/	12/2012	S	SeqNo: 5	8718	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	1204365-001AMS	SampTy	pe: M	S	Tes	tCode:	EPA Method	8021B: Vo	latiles		
Client ID:	BatchQC	Batch	D: 14	160	F	RunNo:	2089				
Prep Date:	4/10/2012	Analysis Da	te: 4	/12/2012	S	SeqNo:	58737	Units: %	REC		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	C LowLimit	HighLimi	t %RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.95		0.9434		101	1 80	120)		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank

E Value above quantitation range H Holding times for preparation or analysis exceeded

Analyte detected below quantitation limits ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits RL Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204427 13-Apr-12

Client:

Animas Environmental Services

Project:

Enterprise Val Verde Plants

Sample ID 1204365-001AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC

Batch ID: 1460

RunNo: 2089

Prep Date: 4/10/2012

Analysis Date: 4/12/2012

SeqNo: 58738

Units: %REC

Analyte

Result

SPK value SPK Ref Val

%REC

HighLimit

Qual

Surr: 4-Bromofluorobenzene

0.97

0.9560

102

80

120

0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name: Animas Environmental W	ork Orc	der I	Numl	ber:	1204427	
Rec	eived by/date: 04/11/12						
Log	ed By: Ashley Gallegos 4/11/2012 10:05:00 AM				A	ŧ	
Con	pleted By: Ashley Gallegos 4/11/2012 10:14:16 AM				=4	- 7	
Rev	ewed By: 04/11/12					· ·	
Cha	in of Custody						
1	Were seals intact?	Yes		No		Not Present ✓	
2.	Is Chain of Custody complete?	Yes	v	No		Not Present	
3.	How was the sample delivered?	Couri	ier				
Log	In						
	Coolers are present? (see 19. for cooler specific information)	Yes	~	No		NA	
5.	Was an attempt made to cool the samples?	Yes	~	No		NA	
6	Were all samples received at a temperature of >0° C to 6.0°C	Yes	V	No		NA	
0.							
7.	Sample(s) in proper container(s)?	Yes	~	No			
8.	Sufficient sample volume for indicated test(s)?	Yes	V	No			
9.	Are samples (except VOA and ONG) properly preserved?	Yes	✓.	No			
10.	Was preservative added to bottles?	Yes		No	v	NA	
11.	VOA vials have zero headspace?	Yes		No		No VOA Vials ✔	
12.	Were any sample containers received broken?	Yes		No	~		
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	~	No		<pre># of preserved bottles checked for pH:</pre>	
14	Are matrices correctly identified on Chain of Custody?	Yes	~	No		(<2 or >12 unless noted))
	Is it clear what analyses were requested?	Yes	V	No	* !	Adjusted?	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	V	No	. :	Checked by:	
Spe	cial Handling (if applicable)					Oneshed by.	
	Was client notified of all discrepancies with this order?	Yes		No		NA 🗸	
	Person Notified: Date:	-			-	Child Addressed Constraint or	
	By Whom: Via:	, eMai	il :	P	none	Fax In Person	
	Regarding:		-		*****	A COLOR DE C	
	Client Instructions:			-	-	Marketing Strate Control of the Strate Contr	
18.	Additional remarks:						
19	Cooler Information						
	Cooler No Temp °C Condition Seal Intact Seal No S	eal Dat	te		Signe	ed By	
	1 2.3 Good Not Present						

C	hain-	of-Cu	stody Record	Turn-Around		end	of day	HALL ENVIRONMENTA					AI									
Client:	ad And Service	imas E	Equironmental	□ Standard	Rush]	04 4/1	3/12	ANALYSIS LABORATOR														
Mailing	Address		E. Comanche	Enterpris	e Val Ve	rde 1	Plant		490)1 H	awkii								109			
Farmi	ngton	87401	NA	Project #:					Te	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												
Phone :	#: 509	5-564	1-2281	A					\sim				A			Req	uest					
		4085 (0)	mimas environmental. Con			_		51)	only	ese	0				304	ŝ						
QA/QC	Package: dard		☐ Level 4 (Full Validation)	TAMI	Ross	5	21.1	TMB's (8021)	(Gas	sas/Di	MRO				PO4,	PCB						
Accredi				Sampler: Zu	SELPES	y Kers	Stians	異	H	B (6	=	=	<u>_</u>		02	308						5
□ NEL	AP	□ Othe	r	ZOL. C	11 175° XX			11 44 1	+	015	178	8	PAH)	(0)	03,1	8/8		8				5
	(Type)			Sairtin			**************************************	3	BE	8 9	7 po	В	6	etal	Z,	side	8)-i				≿
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			BTEX + MTR	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
4/10/12	1630	SOUD	CARBON MEDIA	Wit 802	MeOth		100-	X		X									\Box	_	\perp	I
										\dashv		\dashv		\dashv	\dashv			\vdash	\dashv	+	+	+
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																			\dashv	_	+	+
							-				_	-						Н	\dashv	+	+	+
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Pare: 10	Time:	Relinquish	sus Inten	Received by:	Let	Date 4/10/12	Time 1647	Ren	narks Sill	s: \ \ \	0	e	140	50	rise	٠,	Pro	יישא	cts	s (20	
Date:	Time:	Relinquish	w Jacto	Received by:	2 04/1	Date	Time 1005	I	NO	يار	10	E	1)R	0	/0	iR	0/	N.	IR	0	
ŀ	f necessary	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ceredited laboratories	s. This serve	s as notice of this	of this possibility. Any sub-contracted data will be clearly notated on the analytical report.														



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1203156

March 08, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche

Farmington, NM 87401 TEL: (505) 564-2281 FAX (505) 324-2022

RE: Val Verde Plant Samp Overflow

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/6/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-001

Client Sample ID: SC-1

Collection Date: 3/5/2012 10:55:00 AM Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 2:59:02 PM
Surr: DNOP	85.7	77.4-131	%REC	1	3/7/2012 2:59:02 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	6.0	5.0	mg/Kg	1	3/7/2012 12:27:33 PM
Surr: BFB	116	69.7-121	%REC	1	3/7/2012 12:27:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Toluene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2012 12:27:33 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2012 12:27:33 PM
Surr: 4-Bromofluorobenzene	99.8	85.3-139	%REC	1	3/7/2012 12:27:33 PM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Analytical Report

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-002

Client Sample ID: SC-2

Collection Date: 3/5/2012 10:58:00 AM Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 10:37:18 AM
Surr: DNOP	81.7	77.4-131	%REC	1	3/7/2012 10:37:18 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 12:57:48 PM
Surr: BFB	103	69.7-121	%REC	1	3/7/2012 12:57:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 12:57:48 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/7/2012 12:57:48 PM
Surr: 4-Bromofluorobenzene	101	85.3-139	%REC	1	3/7/2012 12:57:48 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 2 of 13

Analytical Report

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-003

Client Sample ID: SC-3

Collection Date: 3/5/2012 11:40:00 AM **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2012 10:58:40 AM
Surr: DNOP	87.1	77.4-131	%REC	1	3/7/2012 10:58:40 AM
EPA METHOD 8015B: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	8.1	4.8	mg/Kg	1	3/7/2012 1:27:56 PM
Surr: BFB	117	69.7-121	%REC	1	3/7/2012 1:27:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM
Toluene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 1:27:56 PM
Xylenes, Total	0.13	0.095	mg/Kg	1	3/7/2012 1:27:56 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 1:27:56 PM

Matrix: SOIL

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-004

Client Sample ID: SC-4

Collection Date: 3/5/2012 11:50:00 AM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 11:20:13 AM
Surr: DNOP	90.1	77.4-131	%REC	1	3/7/2012 11:20:13 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	16	4.8	mg/Kg	1	3/7/2012 1:58:18 PM
Surr: BFB	106	69.7-121	%REC	1	3/7/2012 1:58:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Toluene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 1:58:18 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/7/2012 1:58:18 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 1:58:18 PM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-005

Client Sample ID: SC-5

Collection Date: 3/5/2012 1:07:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:03:08 PM
Surr: DNOP	90.9	77.4-131	%REC	1	3/7/2012 12:03:08 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/7/2012 2:28:41 PM
Surr: BFB	111	69.7-121	%REC	1	3/7/2012 2:28:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Toluene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2012 2:28:41 PM
Xylenes, Total	0.14	0.095	mg/Kg	1	3/7/2012 2:28:41 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 2:28:41 PM

Matrix: SOIL

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

ct: Val Verde Plant Samp Overflow

Lab ID: 1203156-006

Client Sample ID: SC-6

Collection Date: 3/5/2012 1:47:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:24:33 PM
Surr: DNOP	88.9	77.4-131	%REC	1	3/7/2012 12:24:33 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 2:58:40 PM
Surr: BFB	111	69.7-121	%REC	1	3/7/2012 2:58:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 2:58:40 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2012 2:58:40 PM
Surr: 4-Bromofluorobenzene	103	85.3-139	%REC	1	3/7/2012 2:58:40 PM

Matrix: SOIL

Qualifiers: */X

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-007

Client Sample ID: SC-7

Collection Date: 3/5/2012 2:58:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 12:46:05 PM
Surr: DNOP	92.2	77.4-131	%REC	1	3/7/2012 12:46:05 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 3:28:55 PM
Surr: BFB	94.5	69.7-121	%REC	1	3/7/2012 3:28:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 3:28:55 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/7/2012 3:28:55 PM
Surr: 4-Bromofluorobenzene	93.8	85.3-139	%REC	1	3/7/2012 3:28:55 PM

Matrix: SOIL

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-008

Client Sample ID: SC-8

Collection Date: 3/5/2012 3:01:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2012 1:07:32 PM
Surr: DNOP	89.2	77.4-131	%REC	1	3/7/2012 1:07:32 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	7.1	4.9	mg/Kg	1	3/7/2012 3:59:17 PM
Surr: BFB	117	69.7-121	%REC	1	3/7/2012 3:59:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 3:59:17 PM
Xylenes, Total	0.38	0.099	mg/Kg	1	3/7/2012 3:59:17 PM
Surr: 4-Bromofluorobenzene	102	85.3-139	%REC	1	3/7/2012 3:59:17 PM

Matrix: SOIL

Qualifiers:	*/X	Value exceeds l	Maximum	Contaminant Lev	el.
-------------	-----	-----------------	---------	-----------------	-----

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-009

Client Sample ID: SC-9

Collection Date: 3/5/2012 3:04:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2012 3:20:35 PM
Surr: DNOP	87.9	77.4-131	%REC	1	3/7/2012 3:20:35 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 4:29:27 PM
Surr: BFB	86.8	69.7-121	%REC	1	3/7/2012 4:29:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 4:29:27 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/7/2012 4:29:27 PM
Surr: 4-Bromofluorobenzene	85.8	85.3-139	%REC	1	3/7/2012 4:29:27 PM

Matrix: SOIL

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203156

Date Reported: 3/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Lab ID: 1203156-010

Client Sample ID: TH-1@3'

Collection Date: 3/5/2012 3:05:00 PM

Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/7/2012 3:42:10 PM
Surr: DNOP	88.2	77.4-131	%REC	1	3/7/2012 3:42:10 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2012 4:59:36 PM
Surr: BFB	85.2	69.7-121	%REC	1	3/7/2012 4:59:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	3/7/2012 4:59:36 PM
Toluene	ND	0.049	mg/Kg	1	3/7/2012 4:59:36 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2012 4:59:36 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/7/2012 4:59:36 PM
Surr: 4-Bromofluorobenzene	84.3	85.3-139	S %REC	1	3/7/2012 4:59:36 PM

Matrix: SOIL

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203156

08-Mar-12

Client:

Animas Environmental Services

Project:

Val Verde Plant Samp Overflow

Sample ID MB-966

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: **PBS**

RunNo: 1303

Batch ID: 966

Prep Date: 3/6/2012

Units: mg/Kg

Analysis Date: 3/7/2012

SeqNo: 37163 %REC

HighLimit

Qual

Analyte Diesel Range Organics (DRO) Surr: DNOP

ND 8.9

Result

10.00

SPK value SPK Ref Val

88.7

131

RPDLimit

SampType: LCS Sample ID LCS-966

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

%RPD

Client ID:

LCSS

Batch ID: 966

RunNo: 1303

%REC

Prep Date:

3/6/2012

Analysis Date: 3/7/2012

PQL

10

SeqNo: 37224

Units: mg/Kg

RPDLimit Qual

Diesel Range Organics (DRO) Surr: DNOP

44 4.3 50.00

87.7

62.7 77.4

LowLimit

LowLimit

77.4

139

5.000

SPK value SPK Ref Val

86.5

131

HighLimit

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit Reporting Detection Limit
- Page 11 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203156 08-Mar-12

Client:

Animas Environmental Services

Project:

Val Verde Plant Samp Overflow

Sample ID	MB-962
Sample ID Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Prep Date: 3/6/2012

Batch ID: 962 Analysis Date: 3/7/2012 RunNo: 1340 SeqNo: 37738

Units: mg/Kg

Analyte

Result PQL ND 5.0 SPK value SPK Ref Val %REC

LowLimit HighLimit %RPD

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

960

1,000

96.2 69.7 121

Sample ID LCS-962

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS

Batch ID: 962

RunNo: 1340

133

Prep Date: 3/6/2012

Analyte

Analysis Date: 3/7/2012

SeqNo: 37741

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

31 1,000

Result

%REC SPK value SPK Ref Val 25.00 1,000

104 69.7

LowLimit

98.5

121

Sample ID 1203156-001AMS

SampType: MS

Batch ID: 962

PQL

RunNo: 1340

TestCode: EPA Method 8015B: Gasoline Range

Client ID: Prep Date:

SC-1 3/6/2012

Analysis Date: 3/7/2012 SeqNo: 37742

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result PQL

1,000

SPK value SPK Ref Val 24.25

969.9

24.51

980.4

%REC LowLimit 119

HighLimit

RPDLimit Qual

Surr: BFB

35 4.8 6.024 105

6.024

85.4 69.7 147 121 %RPD

0

Qual

Sample ID 1203156-001AMSD

SampType: MSD

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

SC-1

3/6/2012

Batch ID: 962

RunNo: 1340

147

121

Prep Date:

Surr: BFB

Analysis Date: 3/7/2012

41

1,000

LowLimit

85.4

69.7

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result **PQL** SPK value SPK Ref Val

4.9

%REC

142

105

SeqNo: 37743

HighLimit

%RPD **RPDLimit** 15.6 19.2

0

Qualifiers:

R

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 12 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203156

08-Mar-12

Client:

Animas Environmental Services

Val Verde Plant Samp Overflow **Project:**

Sample ID MB-962

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 962

RunNo: 1340

Prep Date: 3/6/2012

Result

ND

ND

ND

SeqNo: 37756

Units: mg/Kg

Qual

Qual

Analyte

Analysis Date: 3/7/2012

PQL

0.050

0.050

0.050

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Benzene Toluene

Ethylbenzene Xylenes, Total

Surr: 4-Bromofluorobenzene

ND 0.10 0.99

PQL

99.4

85.3

139

%RPD

Sample ID LCS-962 Client ID:

Prep Date:

LCSS

SampType: LCS

SPK value SPK Ref Val

1.000

TestCode: EPA Method 8021B: Volatiles RunNo: 1340

Batch ID: 962 3/6/2012 Analysis Date: 3/7/2012

Result

SeqNo: 37771

%REC

Units: mg/Kg

RPDLimit %RPD LowLimit HighLimit 107

Analyte 0.98 0.050 1.000 98.2 83.3 Benzene 0.99 0.050 0 99.4 74.3 115 Toluene 1.000 0.050 1.000 0 105 80.9 122 Ethylbenzene 1.1 0 0.10 3.000 109 85.2 123 Xylenes, Total 3.3 107 85.3 139 Surr: 4-Bromofluorobenzene 1.1 1.000

Sample ID 1203156-002AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

Client ID:

SC-2

Batch ID: 962

RunNo: 1340

Pren Date:

3/6/2012

Analysis Date: 3/7/2012

SeqNo: 37788

Units: ma/Ka

Frep Date. 3/6/2012	Allalysis L	Jale. 3/	112012		beqivo. 3	7700	Office. High	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9756	0	104	67.2	113			
Toluene	1.1	0.049	0.9756	0	110	62.1	116			
Ethylbenzene	1.1	0.049	0.9756	0.009931	116	67.9	127			
Xylenes, Total	3.6	0.098	2.927	0.05949	120	60.6	134			
Surr: 4-Bromofluorobenzene	0.91		0.9756		93.7	85.3	139			

Sample ID 1203156-002AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: SC-2	Batch ID: 962				tunNo: 1	340				
Prep Date: 3/6/2012	Analysis D	ate: 3/	7/2012	S	eqNo: 3	7795	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9930	0	102	67.2	113	0.251	14.3	
Toluene	1.1	0.050	0.9930	0	106	62.1	116	1.76	15.9	
Ethylbenzene	1.1	0.050	0.9930	0.009931	113	67.9	127	1.44	14.4	
Xylenes, Total	3.5	0.099	2.979	0.05949	117	60.6	134	1.01	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9930		107	85.3	139	0	0	

Oualifiers:

- Value above quantitation range E
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Page 13 of 13

Reporting Detection Limit

Value exceeds Maximum Contaminant Level.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

03/4/10	Work Order Number: 1203156
Received by/date	
Logged By: Ashley Gallegos 3/6/2012 10:00:00 AM	
Completed By: Ashley Gallegos 3/6/2012 10:53:56 AM	M A
Reviewed By: 10 03/06/12	
Chain of Custody	
1. Were seals intact?	Yes ☐ No ☐ Not Present 🗹
2. Is Chain of Custody complete?	Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered?	Courier
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific information)	Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples?	Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)?	Yes ☑ No □
8. Sufficient sample volume for indicated test(s)?	Yes ☑ No □
Are samples (except VOA and ONG) properly preserved?	Yes ₩ No □
10. Was preservative added to bottles?	Yes ☐ No 🗹 NA ☐
11. VOA vials have zero headspace?	Yes ☐ No ☐ No VOA Vials 🗹
12. Were any sample containers received broken?	Yes No 🗹
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✓ No ☐ # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ✓ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes V No Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ₩ No L Checked by:
Special Handling (if applicable)	
17. Was client notified of all discrepancies with this order?	Yes No No NA 🗹
Person Notified: Date: By Whorn: Via: Regarding: Client Instructions:	eMail Phone Fax In Person
18. Additional remarks:	
19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 4.5 Good Yes	Seal Date Signed By

Chain-of-Custody Record				Turn-Around Time:											_								
Client:	Anina	a Pan	Services	☑ Standard □ Rush						HALL ENVIRONMENTAL ANALYSIS LABORATORY													
	1 1000	J. H.V.		Project Name:					www.hallenvironmental.com														
√ailing	Address	: 1-20	F Course	Project Name: Val Verde Plant Sump Overflow						4901 Hawkins NE - Albuquerque, NM 87109													
Mailing Address: 624 E. Comanche Fermington, NM 87401				Project #:					Tel. 505-345-3975 Fax 505-345-4107														
Phone:	# 500	- 37 U	- 2181							16	a. 50	75-54	:U-U:	_			Req		-				
Phone #: 505 - 364 - 2381 Pmail or Fax#:				Project Manager:						<u>\</u>	el)												Г
	Páckage:		□ Level 4 (Full Validation)	Ross Kennener					\$ (8021)	(Gas on	as/Dies					PO4,SC	PCB's						
Accredi □ NEL		□ Othe	r	Sampler: Thomas Long Onities Pries One					+ TMB	+ TPH)15B (C	18.1)	04.1)	AH)		O ₃ ,NO ₂	s / 8082		(A)				or N)
□ EDD	(Type)_			Sample Convertine Cara-						핊)8 pa	od 4	od 5	P	etals	Ž,	side	(A	150				2
Date	Time	Matrix	Sample Request ID	Container Type and	Preser	rvative /pe			BTEX + M	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1/12	1055	Soil	Sc-1	12402	KIR LA	nose.		1	X		X										\top		Г
T	1058		54-2			1		2	¥		4											\top	T
	1140		56-3					3	X		4										\top		T
	1150		56-4					4	X		4										\top	\top	T
	1307		56-5					5	Y		X										\top	\top	T
\top	1347		SC-L					10	X		4										\top	\top	十
	1458		Sc-7					7	4		4										\top	\top	T
	1501		56-8				5	?	X		4										\top	\top	T
	1504		56-9				C		X		4											1	T
V	1505	V	TH-1e3'				/	0	X		X												Γ
				J																			
																						,	Γ
Date: Time: Relinquished by: Story Sate: Time: Relinquished by: Story Story			Received by: Date Time 35/12 / 1645 Received by: Date Time					Remarks: Bill 70 Enterprise															