# **CLOSURE REPORT (FINAL)**

**EUBANKS SUMP PUMP/EUBANKS SUCTION LINE** 

### NMOCD REF: 1RP # 1211 PLAINS/EPI REF: 2001-11136/2002-10238

UL-A (NE<sup>1</sup>/<sub>4</sub> of the NE<sup>1</sup>/<sub>4</sub>) of Section 22 T21S R37E ~2.5 Miles North-Northeast of Eunice Lea County, New Mexico Latitude: N 32° 28' 10.8" Longitude: W 103° 08' 43.9"

# AUGUST 2007

PREPARED BY:

ENVIRONMENTAL PLUS, INC. 2100 AVENUE O EUNICE, NEW MEXICO 88231



**PREPARED FOR:** 



### **Distribution** List

### Plains All American Pipeline – Eubanks Sump Pump/Eubanks Suction Line

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### NMOCD Ref: 1RP #1211; Plains/EPI Ref: 2001-11136/2002-10238

### **STANDARD OF CARE**

#### **Closure Report (Final)**

### Eubanks Sump Pump/Eubanks Suction Line (NMOCD Ref: 1RP#1211; Plains/EPI Ref. #2001-11136/2002-10238)

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February, 1993) and Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan.* The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by:

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14 August 2007

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#### 1.0 PROJECT SYNOPSIS

#### Site Specific:

- Company Name: Plains All American Pipeline, L.P.
- Facility Name: Eubanks Sump Pump/Eubanks Suction Line
- Project Reference: NMOCD Ref: 1RP#1211; Plains/EPI Ref. #2001-11136/2002-10238
- Company Contacts: Camille Reynolds
- Site Location: WGS84 N32° 28' 10.8"; W103° 08' 43.9"
- Legal Description: Unit Letter-A, (NE<sup>1</sup>/<sub>4</sub> of the NE<sup>1</sup>/<sub>4</sub>), Section 22, T 21 S, R 37 E
- General Description: Approximately 2.5-miles north-northeast of Eunice, New Mexico
- *Elevation:* 3,407-ft amsl
- Land Ownership: Charlie Bettis
- *EPI Personnel:* Project Consultant Jason Stegemoller Field Foreman – David Robinson

#### Release Specific:

- Product Released: Crude oil
- ♦ Volume Released: ~50 bbls Volume Recovered: ~45 bbls
- Date of Occurrence: September 4, 2002
- Date of Discovery: September 4, 2002 (13:00 hrs)
- Release Source: 4-inch steel crude oil pipeline
- Initial Surface Area Affected: ~2,387 square feet

#### **Remediation Specific:**

- Final Vertical Extent of Contamination: 23-feet bgs at maximum depth
- Depth to Groundwater: ~65-ft bgs
- Water Wells within 1,000-ft: None
- Private Domestic Water Sources within 200-ft: None
- Surface Water Bodies within 1,000-ft: None
- ♦ NMOCD Site Ranking Index: 10 points
- *Remedial Goals for Soil:* TPH 1,000 mg/Kg; BTEX 50 mg/Kg; Benzene 10 mg/Kg
- **RCRA Waste Classification:** Exempt
- Remediation Option Selected: a) Excavated contaminated soil above NMOCD remedial thresholds;
   b) laboratory analyses confirmed removal of soil impacted above NMOCD remedial thresholds in excavation sidewalls (outer) and floor; c) transported impacted soil to the Plains Lea Station Landfarm for treatment; d) lined excavation sidewalls beneath pump facility with 20 mil polyethylene vertical liner; e) backfilled excavation with clean soil obtained from the landowner.
- Disposal Facility: Plains Lea Station Landfarm (2007) and EPI Landfarm in 2002
- Volume Disposed: 658 cubic yards in 2007 and an estimated 200 cubic yards in 2002
- Excavation Completion Date: 20 February 2007

#### 2.0 SITE AND RELEASE INFORMATION

- 2.1 Describe the land use and pertinent geographic features within 1,000 feet of the site. In addition to oilfield activities, land surrounding the area is rangeland utilized for livestock grazing.
- 2.2 Identify and describe the source or suspected source(s) of the release. Internal and external corrosion of 4-inch diameter steel crude oil pipeline.
- 2.3 What is the volume of the release? (if known): ~50 barrels of crude oil
- 2.4 What is the volume recovered? (if any): <u>~45</u> barrels
- 2.5 When did the release occur? (if known): September 4, 2002 (13:00 hrs)

#### 2.6 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments (i.e., fine to medium sand) with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The release site is located in the Eunice Plains physiographic subdivision, described by Nicholson & Clebsch as an area that is "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand. The sand cover is 2 to 5 feet thick over most of the area, but locally is as much as 20 or 30 feet thick."

#### 2.7 Ecological Description

Typical vegetation consists primarily of an intergrade of High Plains and Northern Chihuahuan Desert grasses. Vegetation includes blue grama, bur-grass, mesquite, shin oak and annual and perennial forbs (eg. broad-leafed milkweed and Russian thistle). Degraded/disturbed areas will consist primarily of annual grasses and forbs and mesquite exhibiting shrubby growth forms. Mammals represented include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians and birds are numerous and typical of the area. A survey of Listed, Threatened or Endangered species was not conducted.

#### 2.8 Area Groundwater

The unconfined groundwater aquifer at this site is projected to be ~65 feet below ground surface (bgs) based on water depth data obtained from the New Mexico State Engineers Office and the United States Geological Survey data base (reference *Table 1*).

#### 2.9 Area Water Wells

New Mexico State Engineer's Office water well database indicate no public water supply wells to exist within 1,000-feet of the release site. In addition, no private domestic fresh water wells or springs used by less than five households for domestic or stock watering purposes exist within 200-feet of the release site (reference *Table 1* and *Figure 2*).

#### 2.10 Area Surface Water Features

No surface water features exist within 1,000 feet of the release site (reference Figure 2).

#### 3.0 <u>NMOCD SITE RANKING</u>

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- <u>Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)</u>
- <u>Unlined Surface Impoundment Closure Guidelines (February, 1993)</u>
- <u>Pit and Below-Grade Tank Guidelines (November, 2004)</u>

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-water);
- Wellhead Protection Area (i.e., distance from fresh water supply wells);
- Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is ten (10) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. GRO	UNDWATER	2. WELLHEAD	PROTECTION AREA	3. DISTANCE TO SURFACE WATER				
Depth to GW <	50 feet: 20 points ) to 99 feet:	If <1,000' from wat private domestic v	ter source, or <200' from vater source: <i>20 points</i>	<200 horizontal feet: 20 points 200-1,000 horizontal feet: 10 points				
Depth to GW >1	100 feet: 0 points	If >1,000' from wat private domestic v	ter source, or >200' from vater source: <i>0 points</i>	>1,000 horizontal feet: <i>0 points</i>				
Site Rank (1+2-	-3) = 10 + 0 + 0 = 1	0 points	•••••••••••••••••••••••••••••••••••••••					
	Total Site	Ranking Score and	Acceptable Remedial Goal	Concen	trations			
Site Ranking	20 c	or >	10		0			
Benzene <sup>1</sup>	10 p	pm	10 ppm		10 ppm			
BTEX <sup>1</sup> 50 ppm			50 ppm		50 ppm			
ТРН	100	opm	1,000 ppm		5,000 ppm			

A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.

#### 4.0 EXCAVATED SOIL INFORMATION

4.1 Was soil excavated for off-site treatment or disposal? Xes No

Date excavated: January 22, 2007 through January 26, 2007 and February 20, 2007

Total volume removed: approximately 858- cubic yards

4.2 Indicated soil treatment type:

	Disposal
$\times$	Land Treatement
	Composting/Biopiling
	Other

*Name and location of treatment/disposal facility:* Plains – Lea Station Landfarm (~658-cubic yards); EPI Landfarm (~200-cubic yards)

**4.3** *Other information not listed above:* As the facility is an operating crude oil pump station, residual impacted soil remains in-situ beneath pump equipment until the facility is decommissioned. A 20-mil polyethylene barrier was placed vertically over the excavation walls on the pump facility side to prevent horizontal movement of in-situ impacted soil into remediated areas.

#### 5.0 <u>SAMPLING INFORMATION</u>

# 5.1 Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample collected was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to  $\sim 70^{\circ}$  F, they were analyzed for organic vapors utilizing a MiniRae® Photoionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp calibrated for benzene response.

Chloride Concentrations – A LaMotte Chloride Test Kit (i.e., titration method) was utilized for field analyses of chloride concentration.

#### 5.2 Briefly describe the soil analytical sampling and handling procedures used.

Upon collection of each sample, a portion was immediately placed in a laboratory provided container, labeled and set on ice for transport to an independent laboratory for quantification of total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene and total xylenes (BTEX), chloride and sulfate concentrations. The remaining portion of each sample was utilized for field analyses of organic vapor and chloride concentrations.

#### 5.3 Discuss sample locations and provide rationale for their locations.

Soil samples were collected on February 28 and March 2, 2005 from six (6) soil borings advanced within the release area. Soil borings BH-1, BH-2, BH-3 and BH-4 were advanced to a maximum depth of 10-feet bgs, with soil samples collected at the surface, 5- and 10-feet bgs. Soil boring BH-5 was advanced to a maximum depth of 15-feet bgs, with soil samples collected at the surface, 5-, 10- and 15-feet bgs. Soil boring BH-6 was advanced to approximately 5-feet bgs, with soil samples collected at the surface and 5-feet bgs (reference *Figure 4*).

Soil samples were collected from the excavation sidewalls and floor on January 27, 2007. Soil sample locations were chosen to provide the best representative example of soil within the excavation floor and sidewall (reference *Figure 4*).

After excavation of impacted soil identified from the January 27, 2007 sampling event, soil samples were collected on February 20, 2007 for confirmation of removal of impacted soil within the excavation. Soil sample locations were selected to provide the best representative example of soil within the excavation floor and sidewall (reference *Figure 4*).



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#### 6.0 ANALYTICAL RESULTS

#### 6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of soil samples collected from the 2005 soil borings indicated TPH and BTEX constituent concentrations in soil borings BH-1, BH-2, BH-3 and BH-6 were below each analytes' respective NMOCD remedial threshold. TPH concentrations in BH-4 exceeded NMOCD remedial threshold at approximately 5-feet bgs. Remaining soil sample intervals and analytes from soil boring BH-4 were below NMOCD remedial thresholds for each respective analyte. TPH concentrations in BH-5 were above NMOCD remedial thresholds from the surface to approximately 10-feet bgs. Total BTEX concentrations in soil boring BH-5 were above NMOCD remedial thresholds in the surface sample and at 10-feet bgs. Remaining soil sample intervals and analytes from soil boring BH-5 were below NMOCD remedial thresholds for each respective analyte (reference *Table 2* and *Figure 4*).

Laboratory analyses of soil samples collected on January 26, 2007 from excavation sidewalls and floor indicated benzene and BTEX constituent concentrations were below NMOCD remedial thresholds for all sample locations. TPH concentrations in the eastern excavation floor [i.e., BH-2 (20')] exceeded remedial thresholds. With the exception of soil samples collected from pump facility sidewalls, TPH concentrations in remaining sample locations were less than NMOCD remedial thresholds (reference *Table 3* and *Figure 5*).

Soil samples were collected on February 20, 2007, after excavation of residual impacted soil from the eastern excavation floor and extension of excavation three (3)-feet past limits of impacted soil on east and south walls of excavation. Laboratory analyses of soil samples collected on February 20, 2007 indicated soil sample TPH and BTEX constituent concentrations were below each analytes' respective NMOCD remedial threshold (reference *Table 3* and *Figure 5*).

6.2 Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

🗌 yes 🛛 no

If yes, attach a site map identifying extent(s) of surface soil contamination.

#### 7.0 <u>DISCUSSION</u>

#### 7.1 Discuss the risks associated with the remaining soil contamination:

Laboratory analyses indicate hydrocarbon impacted soil above NMOCD remedial thresholds has been excavated from the release area surrounding the pump. Based on depth to groundwater (>50-feet bgs) and low to non-detectable residual TPH and BTEX constituent concentrations groundwater should not be impacted from the release area surrounding the pump (reference *Table 2, Figure 4* and *Figure 5*).

- 7.2 Discuss the risks associated with the impacted groundwater: Not Applicable
- 7.3 *Discuss other concerns not mentioned above:* Residual hydrocarbon impacted soil remaining within the excavation sidewalls under the pump facility will be addressed when the pump facility is decommissioned.

#### 8.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

8.1 Recommendation for the site:

✓ Site Closure
 ☐ Additional Groundwater Monitoring
 ☐ Corrective Action

8.2 Base the recommendation above on <u>Guidelines for Remediation of Leaks, Spills and</u> <u>Releases (August 13, 1993)</u>. Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.

EPI was retained by Plains All American Pipeline, L.P. to investigate/remediate hydrocarbon impacted soil above NMOCD remedial thresholds. During the initial response to the release in 2002, approximately 200-cubic yards of crude oil saturated soil was scraped from the surface and transported to the EPI Landfarm. In 2007, EPI personnel excavated approximately 658-cubic yards of impacted soil were excavated from an area of approximately 2,115-square foot area to a maximum depth of 23-feet bgs. Impacted soil was transported to the Plains – Lea Station Landfarm for treatment.

Laboratory analyses of soil samples collected from the excavation sidewalls outside the pump facility and floor indicate NMOCD remedial thresholds have been achieved. Residual hydrocarbon impacted soil under the pump facility was isolated from the remediated soil by a vertical liner comprised of 20-mil polyethylene liner (reference *Table 3* and *Figure 5*).

Based on laboratory analyses and upon NMOCD approval the site was backfilled with clean soil obtained from the landowner. Hydrocarbon residuals in-situ under the pump facility will be addressed upon decommissioning.

EPI, on behalf of Plains, request the NMOCD require no further action and issue Plains All American Pipeline, L.P. a *Site Closure Letter*.

- 8.3 If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report. Not Applicable
- 8.4 If corrective action is recommended, provide a conceptual approach. Not Applicable

# FIGURES











TABLES

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Table 1
Well Data
Plains All American Pipeline
Eubanks Sump Pump/Eubanks Suction Line (Ref. # 2001-11136/2002-10238)

Well Number	Diversion	Owner	Use	Tws	Rng	Sec	q	q	q	Latitude	Longitude	Date Measured	Well Depth (feet)	Water Depth (feet)
CP 00014	75	VERSADO GAS PROCESSORS, LLC	IND	215	37E	23	2	3	1	N32° 27' 51.29"	W103° 7' 59.85"	09-Dec-48	84	
CP 00017	75	VERSADO GAS PROCESSORS, LLC	IND	215	37E	27	2	1	2	N32° 27' 12.09"	W103° 9' 1.36"	04-Dec-48	101	
CP 00212 DCL	0	J. M. OWENS	DOM	21S	37E	14	1	2	2	N32° 28' 56.59"	W103° 8' 15.29"			
CP 00224	31	VERSADO GAS PROCESSORS, LLC	IND	21S	37E	23	3	3	4	N32° 27' 25.17"	W103° 8' 30.61"	30-May-49	96	
CP 00226	48.39	VERSADO GAS PROCESSORS, LLC	IND	215	37E	26	4	4	1	N32° 26' 32.94"	Ŵ103° 7' 44.41"	l 1-Jun-62	80	
CP 00227	32.26	VERSADO GAS PROCESSORS, LLC	IND	215	37E	26	4 -	3	2	N32° 26' 32.93"	W103° 7' 59.8"	30-Jun-62	. 85	
CP 00228	24.2	VERSADO GAS PROCESSORS, LLC	IND	215	37E	26	4	3	4	N32° 26' 32.93"	W103° 7', 59.8"	28-Feb-63	90	r
CP 00230	48.39	VERSADO GAS PROCESSORS, LLC	IND .	215	37E	26	3	2 -	3	N32° 26' 45.99"	W103° 8' 15.19".	31-Jul-65	85	× ~
CP 00235	61	VERSADO GAS PROCESSORS LLC	IND .	215	37E	23	1	2	2	N32° 28',4.35"	W103° 8' 15.25"	30-Nov-48	- 81	~
CP 00236	40	VERSADO GAS PROCESSORS LLC	IND	215	37E	23	2 -	1	3	N32° 28' 4.35"	W103° 7' 59.85'	31-Dec-48	83	P
CP 00238	40	VERSADO GAS PROCESSORS LLC	IND	215	37E	23	2	3	3	N32° 27' 51.29"	W103° 7' 59.85"	31-Dec-48	81	
CP 00239	25	VERSADO GAS PROCESSORS LLC	IND	21S	37E	23	2	1	1	N32° 28' 4.35"	W103° 7' 59.85"	30-Jun-61	89	
CP 00240	34	VERSADO GAS PROCESSORS LLC	IND	215	37E	23	1	2	4	N32° 28' 4.35"	W103° 8' 15.25"	31-May-62	72	
CP 00241	11	VERSADO GAS PROCESSORS LLC	IND	215	37E	23	1	2	4	N32° 28' 4.35"	W103° 8' 15.25"	31-Mar-64	76	
CP 00242	96	VERSADO GAS PROCESSORS LLC	IND	21S	37E .	28	2	4	3	N32° 26' 59.02"	W103° 9' 47.52"	31-Dec-64	112	
CP 00249	40	VERSADO GAS PROCESSORS LLC	IND	21S	37E	27	2	3	2	N32° 26' 59.03"	W103° 9' 1.35"	31-Dec-48	102	
CP 00250	24	VERSADO GAS PROCESSORS LLC	IND	215	37E	27	2	3	2	N32° 26' 59.03"	W103° 9' 1.35"	31-Dec-48	101	
CP 00251	48	VERSADO GAS PROCESSORS LLC	IND	215	37E	22	4	3	2	N32° 27' 25.15"	W103° 9' 1.37"	31-Dec-48	103	
CP 00252	40	VERSADO GAS PROCESSORS, LLC	IND	21S	37E	22	4	2	4	N32° 27' 38.22"	W103° 8' 46"	31-Mar-49	106	
CP 00253	61	VERSADO GAS PROCESSORS, LLC	IND	21S	37E	27	2	4	3	N32° 26' 59.04"	W103° 8' 45.97"	31-May-58	101	
CP 00293 DCL	0	T. P. FAULKNER	DOM	21S	37E	27	1	4	2					
CP: 00318 EXP	0 :	INC MCCASLAND HOT OIL SERVICE	SAN	215	37E	28	3.	4		N32° 26' 32.92"	W103° 10' 18.29			~
CP 00322	3	MILLARD DECK	DOM 🐭	215 -	37E	28	3	, î	ŀ	N32° 26' 32.92"	W103° 10' 33.69	10-Jun-66	- 138	73
CP 00346 DCL	0	H.A. BRAMLETT	DOM	215	37E	27	1	3	1	N32° 26' 59.02"	W103° 9' 32.12"			
CP 00513	0	CORPORATION GULF OIL	SRO	21S	37E	28	3	1	3	N32° 26' 45.98"	W103° 10' 33.7"			
CP 00554	3	MILLARD DECK	STK	215	37E	16	2	2		N32° 28' 56.57"	W103° 9' 47.62"	05-Jun-76	80	70
CP 00562	3	JIMMIE D. WEIR	STK	21S	37E	23	2	2	1	N32° 28' 4.35"	W103° 7' 44.46"	23-Dec-76	136	65
CP 00868 EXP	0	ALBERT HERNANDZ	DOM	21S	37E	23	2	4	3					
CP 00700	3	WAYNE R. WALKER	MUL	21S	37E	23	2			N32° 27' 51.45"	W103° 7' 59.94"	10-Sep-86	75	65
CP 00711	3	FLOYD G. BLOCK	DOM	218	37E	28	2	4		N32° 26' 59.02"	W103° 9' 47.52"	02-Oct-87	100	65
CP 00735	3	CHARLES W. JENNINGS	DOM	215	37E	28	4	2		N32° 26' 45.97"	W103° 9''47.51"	27-Jul-88	105	1
CP 00736	3	RONALD K. WORDEN	DOM	215	37E	27	1	3	1	N32° 26' 59.02"	W103°:9' 32.12"	-10-Sep-88	120	' 76
CP_00749	3.	D.M. CRISWELL	DOM	215	37E	28	3	4	2	N32° 26' 32.92"	W103° 10' 18:29	22-Jun-90	123	75
CP 00881	3	RICHARD DON JONES	DOM	21S	37E	22	4	4	3	N32° 27' 25.16"	W103° 8' 45.99"	07-Sep-99	95	53

Data shown obtained from the New Mexico Office of the State Engineer (NMOSE) database

STK=Stock, IND=Industrial, SAN=Sanutary in conjuction with industrial, DOM=Domestic, one household, SRO=Secondary Recovery of Oil; MUL=Multiple Domestic Households

1

q=quarters, arranged from largest to smallest

shaded areas indicate wells not shown of Figure 2

#### TABLE 2

#### Summary of Soil Boring Analytical Results

#### Eubanks Sump Pump/Eubanks Pump Suction Line (Ref. #2001-11136/2002-10238)

Soil		Denth		PID	Bongono	Toheno	Ethylbongono	m n Vylanas	o Yylono	Total	ТРН	ТРН	Total TPH
Roring	Sample ID	(feet)	Sample Date	Reading	Denzene	Toluene	Ethylbenzene	in,p-Aylenes	0-Aylene	BTEX	(as gasoline)	(as diesel)	
Doring				(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	EPSL022805BH1-Surface	Surface	28-Feb-05	11.3	<0.02	< 0.02	< 0.02	< 0.04	< 0.02	<0.12	<5	<2 5	<7.5
BH-1	EPSL022805BH1-10'	10	28-Feb-05	0.6	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	<0.12	<5	<2.5	<7.5
	EPSL022805BH1-15'	15	28-Feb-05	NA	< 0.02	<0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	<2.5	<7.5
	EPSL022805BH2-Surface	Surface	28-Feb-05	3.8	< 0.02	< 0.02	< 0.02	<0.04	< 0.02	<0.12	<5	<2.5	<7.5
вир	EPSL022805BH2-5'	5	28-Feb-05	0.3	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	2.71	2.71
BII-2	EPSL022805BH2-10	10	28-Feb-05	2.0	<0.02	< 0.02	< 0.02	<0.04	< 0.02	< 0.12	<5	<2.5	<7.5
	EPSL022805BH2-15'	15	28-Feb-05	NA	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	<2.5	<7.5
	EPSL022805BH3-Surface	Surface	02-Mar-05	11.4	< 0.02	< 0.02	<0.02	< 0.04	< 0.02	< 0.12	<5	<2.5	<7.5
BH-3	EPSL022805BH3-5'	5	02-Mar-05	0.8	<0.02	< 0.02	< 0.02	< 0.04	< 0.02	<0.12	<5	<2.5	<7.5
	EPSL022805BH3-10'	10	02-Mar-05	2.3	< 0.02	< 0.02	< 0.02	<0.04	< 0.02	< 0.12	<5	<2.5	<7.5
	EPSL022805BH4-Surface	Surface	02-Mar-05	5.6	< 0.02	<0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	9.82	9.82
BH-4	EPSL022805BH4-5'	5	02-Mar-05	303.0	0.220	< 0.02	7.57	15.4	5 38	28.6	1,720	3,680	5,400
	EPSL022805BH4-10'	10	02-Mar-05	2.1	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	<2.5	<7.5
	EPSL022805BH5-Surface	Surface	02-Mar-05	208.0	1.24	27.7	35.3	70.8	36.5	171.5	14,300	91,200	105,500
BH 5	EPSL022805BH5-5'	5	02-Mar-05	218.0	< 0.02	0.169	1.810	1.910	0.580	4.5	534	2,100	_2,634
611-5	EPSL022805BH5-10'	10	02-Mar-05	277.0	0.474	21.5	23.7	35.7	19.2	100.6	4,090	9,620	13,710
	EPSL022805BH5-15'	15	02-Mar-05	3.7	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	3.36	3.36
BH 6	EPSL022805BH6-Surface	Surface	02-Mar-05	4.6	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	<2.5	<7.5
BI1-0	EPSL022805BH6-5'	5	02-Mar-05	23	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.12	<5	3.40	3.40
	NMOCD Remedial Th	resholds		100 <sup>A</sup>	10					50			1,000

Bolded values are in excess of the NMOCD Remediation Thresholds

<sup>A</sup> In heu of laboratory analyse of benzene, toluene, ethylbenzene and total xylenes.

#### TABLE 3

#### Summary of Excavation Analytical Results

#### Plains Pipeline L.P. - Eubanks Sump Pump/Eubanks Suction Line (Plains/EPI Ref. #2001-11135/2002-10238)

Sample ID	Depth	Sample Date	Soil Status	PID Reading	Benzene	Toluene	Ethylbenzene	Total	Total BTEV	Carbon Ranges	Carbon Ranges	Carbon Ranges	TPH CK C35
Sampic ID	(feet)	Sample Date	Son Status	(maga)	(ma/Ka)	(ma/K a)	(maff( a)	Aylenes (mg/Kg)		(mg/Ka)	(mg/Kg)	(mg/Kg)	(ma/Ka)
BH-1 (20')	20	26 Jan 07	In citu	34.2	(Ing/Kg)	<0.0250	(mg/Kg)	(nig/Kg)	(mg/Kg)	(mg/Kg)	(Hig/Kg)	(IIIg/Rg)	(ing/Kg)
	20	20-Jan-07	In suu	J4.2	<0.0250	<0.0250	<0.0230	<0.0300	<0.125	<10.0	10.1	<10.0	10.1
BH-2 (20)	20	- 26-Jan-07	Excavated :	-23-42,3 E	<u> </u>	0.659	1.62	7.17	9.59	2,360	8,340		11,600
BH-2A (23')	23	20-Feb-07	In situ	28.7	< 0.0250	< 0.0250	< 0.0250	< 0.0500	<0.125	45	165	32.6	242
SW-1 (15')	15	26-Jan-07	In situ	476	0.274	1.23	6.39	3.43	11.3	2,340	8,300	995	11,600
SW-1 (20')	20	26-Jan-07	In situ	344	0.153	0.785	1.97	9.36	12.3	2,990	10,400	1,140	14,500
SW-2 (15')	15	26-Jan-07	In situ	322	0.135	0.479	3.42	2.199	6.23	1,680	9,370	1,160	12,200
SW-2 (20')	20	26-Jan-07	In situ	16.7	<0.0250	<0.0250	< 0.0250	< 0.0500	<0.125	7.21 <sup>C</sup>	99.2	41.8	141
SW-3 (15')	15	26-Jan-07	In situ	543	0.195	0.63	4.81	3.05	8.69	2,670	12,100	1,300	16,100
SW-3 (20')	20	26-Jan-07	In situ	45.8	<0.0250	< 0.0250	< 0.0250	0.0362	0.0362	9.46 <sup>C</sup>	110	41.1	151
SW-4 (20')	20	-26-Jan-07	Excavated	49.1	<0.0250	<0.0250	<0.0250	<0.0500	<0.125	2.27 C	135	27.5	162
SW-4A (10')	10	20-Feb-07	In situ	4.7	< 0.0250	< 0.0250	< 0.0250	< 0.0500	<0.125	<10.0	<10.0	<10.0	<10.0,
SW-5 (20')	20	26-Jan-07	In situ	36.7	<0.0250	< 0.0250	<0.0250	< 0.0500	<0.125	<10.0	<10.0	<10.0	<10.0
TS (23')	23	26-Jan-07	In situ	53.4	<0.0250	<0.0250	<0.0250	<0 0500	<0.125	<10.0	<10.0	<10.0	<10.0
<u>TS (28')</u>	28	26-Jan-07	In situ	37.6	<0.0250	<0.0250	< 0.0250	< 0.0500	<0.125	<10.0	<10.0	<10.0	<10.0
SW-6 (15')	15	26-Jan-07	In situ	18.7	< 0.0250	<0.0250	< 0.0250	< 0.0500	<0.125	<10.0	<10.0	<10.0	<10.0
SW-7 (20')	20	26-Jan-07	In situ	88.4	< 0.0250	0.0136 <sup>C</sup>	0.0474	0.0847	0.132	<10.0	<10.0	<10.0	<10.0
SW-8 (20')	20	26-Jan-07	Excavated	49.3	*<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<10.0
SW-8A (10')	10	20-Feb-07	In situ	1.2	<0.0250	< 0.0250	< 0.0250	< 0.0500	<0.125	<10.0	<10 0	<10.0	<10.0
NMOCD R	Remedial Thr	esholds		100 <sup>A</sup>	10				50				1,000

**Bolded** values are in excess of the NMOCD Remediation Thresholds

Reference Figure 5 for soil sample locations

- - : Not Analyzed

<sup>A</sup> In lieu of laboratory analyes of benzene, toluene, ethylbenzene and total xylenes

<sup>B</sup> Chloride residuals may not be capable of impacting local groundwaterabove the NMWQCCstandard of 250 mg/L

<sup>C</sup> Detected below the Reporting Limit; therefore, result should be considered an estimated concentration.

Note: Gray shaded cells indicate sample has been excavated

# APPENDICES

## **APPENDIX I**

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM

#### Sample Analysis Case Narrative

Client: Environmental Plus, Inc.	Project ID: 2002-10238
Attn: Pat McCasland	
for Sample #'s: <u>164705</u> thru <u>164722</u>	$\bigcirc$ 1
Analyzed by AnalySys, Inc.	()/(
Final Review Date: <u>3/17/2005</u> By:	(D. Wagner)
Case Narrative:	

The recovery of Benzene in the Matrix Spikes (MS and/or MSD) for the analytical batch that contained sample #'s 164711 thru 164713 and 164716 was outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for Benzene indicating the analytical method was operating correctly and in control. When viewed within the context of the passing LCS data, this deviation in spike recovery should have minimal impact on data usability.

The recoveries of Ethylbenzene and o-Xylene in the Matrix Spikes (MS and/or MSD) for the analytical batch that contained sample #'s 164717 thru 164719 were outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for each compound indicating the analytical method was operating correctly and in control. When viewed within the context of the passing LCS data, these deviations in spike recovery should have minimal impact on data usability.

#### **AnalySys Inc.** Chain of Custody Form 4221 Freidrich Lane, Suite 190, Austin, TX 78744 p2 of 2 2209 N. Padre Island Dr., Corpus Christi, TX 78408 512-444-5896 FAX: 512-447-4766 ANALYSIS REQUEST Company Name Environmental Plus, Inc. Bill To **EPI Project Manager** Pat McCasland Mailing Address P.O. BOX 1558 Funice New Mexico 88231 City, State, Zip EPI Phone#/Fax# 505-394-3481 / 505-394-2601 Client Company Plains All American Eubanks Sump Pump **Facility Name** Attn: Jimmv Brvant 2002-10238 Project Reference PO Box 1660. **EPI Sampler Name** Manuel Gonzales Midland, TX 79701 MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP. **GROUND WATER** SULFATES (SO4<sup>=</sup>) CHLORIDES (CI) WASTEWATER # CONTAINERS LAB I.D. SAMPLE I.D. **BTEX 8021B** CRUDE OIL SLUDGE ACID/BASE OTHER >>> TPH 8015M ICE/COOL OTHER: OTHER TCLP SOIL PAH Hd DATE TIME 164715 EPSL022805BH4-5' G 1 3/2/05 9:44 х х х х G EPSL022805BH4-10' 164716 1 х 3/2/05 10:41 х х x G 1 EPSL022805BH5-Surface x 3/2/05 11:19 x 64717 х х G 1 4 EPSL022805BH5-5' 64718 X х 3/2/05 11:25 х х 164719 5 EPSL022805BH5-10' G х 3/2/05 11:58 X 1 х X 6 EPSL022805BH5-15' G 164720 x 3/2/05 12:56 | 1 х х х EPSL022805BH6-Surface G 1 х 3/2/05 2:21 X 16472 х х G 1 EPSL022805BH6-5' х 3/2/05 164722 х 2:36 х х E-mail results to: iolness@hotmail.com and enviplus1@aol.com 2pme Loren REMARKS: CoC requested Received By (Ilab staff) 3-8-05 A A AI (II) 0455 "0*)*00 Delivered by Checked By: Sample 6001 & intact Yes No

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Client: Environmental Plus, Inc.						Report#/Lab ID#	<b>#:</b> 164705	Repo	rt Date: (	)3/16/05	
Attn: Pat McCasland						Project ID: 200	2-10238				
Address: 2100 Ave. O						Sample Name: 1	EPSL022805B	H1-Surfa	ice		
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
<b>Phone:</b> (505) 394-3481 <b>FAX:</b> (505)	394-2601					Date Sampled:	02/28/2005	Time:	11:35		
REPORT OF ANALYSIS							QUALITY A	ASSURA	NCE DAT	<u>ΓΑ 1</u>	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	2.6	mg/Kg	2.5	<2.5	03/14/05	8015 mod.	J	7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	く	mg/Kg	5	く	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/10/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90
Ethylbenzene	<20	µg/Kg	20	<20	03/10/05	8260b		3.1	122.2	102.2	97.4
n,p-Xylenes	<40	µg/Kg	40	<40	03/10/05	8260b		3	120.8	100.7	96.3
o-Xylene	<20	µg/Kg	20	<20	03/10/05	8260b		4.4	124.7	104.8	96.9
Foluene	<20	µg/Kg	20	<20	03/10/05	8260b		12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by Anal have been carefully reviewed and, to the best of my knc are consistent with AnalySys, Inc.'s Quality Assurance Copyright 2003, AnalySys, Inc., Austin, TX. All righ publication may be reproduced or transmitted in any fo express written consent of AnalySys. Inc.	tySys, Inc. The owledge, the anal /Quality Control ts reserved. No rm or by any me	enclosed results ytical results   Program. © part of this ans without the	s 1. Qual of the r recover express (RQL), typical	Ity assurance da elative percent ( red from a spike sed as the percent typically at or ly denote USEP	ata is for the sa (%) difference (d sample. (%) recover above the Pra	ample batch which incluc between duplicate measu 4. Calibration Verificatio y of analyte from a known actical Quantitation Limit Less than ("<") values re	led this sample. rements. 3. Recc n (CCV) and Labo n standard or matr (PQL) of the ana flect nominal quar	2. Precisio overy (Reco oratory Co ix. 5. Rej lytical met	n (PREC) is ov.) is the per ntrol Sample porting Quan hod. 6. Me	the absolut cent (%) of (LCS) resu titation Lir thod numb	e value f analyte ults are nits ers
supress which consent of rinaryoys, net	Respectfully 3	submitted,	dilution	ns 7 Data Ou	alifiers are I =	analyte notentially prese	nt between the PC	)L and the	MDI B-4	nalvte dete	cted in

DW. Dale Wagner

alue alyte are d are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits P =Precision higher than advisory limit. M =Matrix interference.

<b>D</b> naly <b>S</b> YS						351 220 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F	ustin, TX Corpus Cl AX (512)	78744 & hristi, TX 385-7411	& ( 78408
Client:Environmental Plus, Inc.Attn:Pat McCaslandAddress:2100 Ave. O EunicePhone:(505) 394-3481FAX:(505)REPORT OF ANALYSIS				Report#/Lab ID Project ID: 200 Sample Name: Sample Matrix: Date Received: Date Sampled:	#: 164706 )2-10238 EPSL022805B soil 03/08/2005 02/28/2005	Repo H1-15' Time: Time:	rt Date: ( 09:55 12:40	)3/16/05			
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel) TPH by GC (as diesel-ext) TPH by GC (as gasoline) Volatile organics-8260b/BTEX Benzene Ethylbenzene m,p-Xylenes o-Xylene Toluene	<2.5  <5  <20 <20 <40 <20 <20 <20	mg/Kg mg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg	2.5  5  20 20 40 20 20 20	<2.5  <5 <20 <20 <40 <20 <20 <20	03/14/05 03/14/05 03/14/05 03/10/05 03/10/05 03/10/05 03/10/05 03/10/05	8015 mod. 3570m 8015 mod. 8260b(5030/5035) 8260b 8260b 8260b 8260b 8260b 8260b		7.1  9.3  7.7 3.1 3 4.4 12.1	99  92.3  80 122.2 120.8 124.7 119.9	96.1  88.3  93.3 102.2 100.7 104.8 108.1	103.5  101.2  90 97.4 96.3 96.9 96.8
This analytical report is respectfully submitted by Ana have been carefully reviewed and, to the best of my kno are consistent with AnalySys, Inc.'s Quality Assurance Copyright 2003, AnalySys, Inc , Austin, TX. All righ publication may be reproduced or transmitted in any for express written consent of AnalySys, Inc.	s I Qua of the r recover express (RQL), typical dilution associa recover than ad	ity assurance da elative percent ( red from a spike and as the percent typically at or ly denote USEP as 7. Data Qu ted method blar y exceeds advis visory limit. M	atta is for the s %) difference d sample. ht (%) recover above the Pra A procedures alifiers are J = ak(s). S & S1 ory limit. S3 =Matrix inter	ample batch which includ between duplicate measu 4 Calibration Verificatio y of analyte from a known ictical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PD ference.	led this sample. rements 3 Reco n (CCV) and Lab n standard or matr (PQL) of the anal flect nominal qua nt between the PQ ry exceed advisor DS recoveries exce	2. Precisio overy (Reco oratory Co oratory Co rix. 5. Re lytical met nitiation lin QL and the ry limits. S red advisor	n (PREC) is 5v.) is the per ntrol Sample porting Quan hod. 6 Me nits adjusted MDL. B =A 52 =Post dige y limits. P =	the absolut cent (%) of (LCS) resu tutation Lir thod numb for any req nalyte dete estion spike Precision h	e value f analyte alts are mits ers jurred ccted in c (PDS) ngher		

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Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164706
Attn:	Pat McCasland	Sample Name: EPSL022805BH1-15	Sample Matrix: soil

#### **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	97.3	30-125	
p-Terphenyl	8015 mod.	100	30-160	
1,2-Dichloroethane-d4	8260b	92.8	56-120	
Toluene-d8	8260b	107	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client:	Environmental Plus, Inc.						Report#/Lab ID#	#: 164707	Repo	rt Date: (	)3/16/05	
Attn:	Pat McCasland						Project ID: 200	2-10238	•			
Address:	2100 Ave. O						Sample Name:	EPSL022805B	H1-10'			
	Eunice	NM 88231					Sample Matrix:	soil				
							Date Received:	03/08/2005	Time:	09:55		
Phone:	(505) 394-3481 <b>FAX:</b> (505)	394-2601					Date Sampled:	02/28/2005	Time:	01:15		
REPORT	OF ANALYSIS							QUALITY A	SSURA	NCE DAT	<u>FA</u> 1	
Paramete	r	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by G	C (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by G	C (as diesel-ext)					03/14/05	3570m					
TPH by G	C (as gasoline)	4	mg/Kg	5	4	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile or	ganics-8260b/BTEX					03/10/05	8260b(5030/5035)					
Benzene		<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90
Ethylbenze	ene	<20	µg/Kg	20	<20	03/10/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylen	es	<40	µg/Kg	40	<40	03/10/05	8260b		3	120.8	100.7	96.3
o-Xylene		<20	µg/Kg	20	<20	03/10/05	8260b		4.4	124.7	104.8	96.9
Toluene		<20	µg/Kg	20	<20	03/10/05	8260b		12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc. 's Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reprodued or transmitted in any form or by any means without the				s 1. Qual of the re recover express (ROL).	ity assurance da elative percent ( ed from a spike ed as the percer typically at or	ita is for the sa %) difference d sample it (%) recover above the Pra	mple batch which includ between duplicate measur 4 Calibration Verificatio 7 of analyte from a knowr cucal Ouantitation Limit	ed this sample rements. 3. Reco n (CCV) and Labo n standard or matr (POL) of the anal	2. Precisio overy (Reco pratory Con ix. 5 Rep vtical metl	n (PREC) is ov) is the per atrol Sample porting Quan pod. 6. Me	the absolute cent (%) o (LCS) rest titation Lir	te value f analyte ults are nits ers

express written consent of AnalySys, Inc.

Respectfully Submitted, Dh Dale Wagner

of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov ) is the percent (%) of analytic recovered from a spiked sample 4 Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5 Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s) S & S1 = MS and/or MSD and PDS recovery exceed advisory limits P =Precision higher than advisory limit. M =Matrix interference.



# 3512 Montopolis Drive, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 385-5886 • FAX (512) 385-7411

Attn:       Pat McCasland       Sample Name:       EPSL022805BH1-10'       Sample Matrix:       soil	Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164707
	Attn:	Pat McCasland	Sample Name: EPSL022805BH1-10'	Sample Matrix: soil

#### **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	96.2	30-125	
p-Terphenyl	8015 mod.	97.9	30-160	
1,2-Dichloroethane-d4	8260b	105	56-120	
Toluene-d8	8260b	115	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Client:	Environmental Plus,	Inc.						Report#/Lab ID;	#: 164708	Repo	rt Date: (	03/16/05	
Attn:	Pat McCasland							Project ID: 200	2-10238	-			
Address:	2100 Ave. O							Sample Name:	EPSL022805B	H2-Surfa	ace		
	Eunice		NM 88231					Sample Matrix:	soil				
								Date Received:	03/08/2005	Time:	09:55		
Phone:	(505) 394-3481	<b>FAX:</b> (505)	394-2601					Date Sampled:	02/28/2005	Time:	01:39		
REPORT	OF ANALYSIS							-	QUALITY A	ASSURA	NCE DA'	<u>ΓΑ</u> 1	
Paramete	r		Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by G	C (as diesel)		<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by G	C (as diesel-ext)						03/14/05	3570m					
TPH by G	C (as gasoline)		4	mg/Kg	5	4	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile or	ganics-8260b/BTEX						03/10/05	8260b(5030/5035)					
Benzene			<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90

TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	ব	mg/Kg	5	る	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/10/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90
Ethylbenzene	<20	μg/Kg	20	<20	03/10/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylenes	<40	µg/Kg	40	<40	03/10/05	8260b		3	120.8	100.7	96.3
o-Xylene	<20	µg/Kg	20	<20	03/10/05	8260b		4.4	124.7	104 8	96.9
Toluene	<20	µg/Kg	20	<20	03/10/05	8260b		12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc 's Quality Assurance/Quality Control Program © Convright 2003 AnalySys Inc Austin TX All rights reserved. No part of this				lity assurance c relative percent red from a spik sed as the perce	lata is for the s (%) difference ed sample ent (%) recover	ample batch which includ between duplicate measu 4. Calibration Verificatio y of analyte from a known	led this sample. rements. 3 Reco on (CCV) and Lab n standard or mat	2. Precisio overy (Reco oratory Co rix 5 Re	on (PREC) is ov ) is the per ntrol Sample porting Quar	the absolu rcent (%) o (LCS) res	te value f analyte ults are mits
publication may be reproduced or transmitted in any form or by any means without the				. typically at o	r above the Pra	ectical Quantitation Limit	(POL) of the ana	lytical met	hod 6 Me	thod numb	ers

Respectfully Submitted, DW. Dale Wagner

1 Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3 Recovery (Recov) is the percent (%) of analyte recovered from a spiked sample 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix 5 Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method 6 Method numbers typically denote USEPA procedures Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s) S & S1 = MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceed advisory limit. M =Matrix interference.



# 3512 Montopolis Drive, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 385-5886 • FAX (512) 385-7411

Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164708
Attn:	Pat McCasland	Sample Name: EPSL022805BH2-Surface	Sample Matrix: soil

#### **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	89.1	30-125	
p-Terphenyl	8015 mod.	96.1	30-160	
1,2-Dichloroethane-d4	8260b	79.1	56-120	
Toluene-d8	8260b	97	71-116	

Data Qualifiers. D= Surrogates diluted and X= Surrogates outside advisory recovery limits

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			_		 П	Έ.	

Pat McCasland

(505) 394-3481

Environmental Plus, Inc.

3512 Montopolis Drive, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 FAX (512) 385-7411 (512) 385-5886 .

	<b>Report#/Lab ID#:</b> 164709 <b>Report Date:</b> 03/16/05
	<b>Project ID:</b> 2002-10238
	Sample Name: EPSL022805BH2-5'
NM 88231	Sample Matrix: soil
	<b>Date Received:</b> 03/08/2005 <b>Time:</b> 09:55
(505) 394-2601	<b>Date Sampled:</b> 02/28/2005 <b>Time:</b> 01:48
	OUALITY ASSUDANCE DATA 1

#### **REPORT OF ANALYSIS**

Address: 2100 Ave. O Eunice

**Client:** 

Attn:

Phone:

-					
	<b>QUALITY</b>	ASSUR.	ANCE	DATA	1

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	2.71	mg/Kg	2.5	<2.5	03/14/05	8015 mod.	J	7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	5	mg/Kg	5	ব	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/10/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90
Ethylbenzene	<20	µg/Kg	20	<20	03/10/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylenes	<40	µg/Kg	40	<40	03/10/05	8260b		3	120.8	100.7	96.3
o-Xylene	<20	µg/Kg	20	<20	03/10/05	8260b		4.4	124.7	104.8	96.9
Toluene	<20	µg/Kg	20	<20	03/10/05	8260b		12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results				lity assurance d	ata is for the s	ample batch which includ	led this sample	2. Precisio	on (PREC) is	the absolu	te value

have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc 's Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc Respectfully Submitted,

FAX:

Dale Wagner

of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4 Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions, 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S & S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.



 3512
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 Austin,
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 N.
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 78408

 (512)
 385-5886
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 FAX
 (512)
 385-7411

Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164709
Attn:	Pat McCasland	Sample Name: EPSL022805BH2-5'	Sample Matrix: soil

#### **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	84.7	30-125	
p-Terphenyl	8015 mod.	98	30-160	
1,2-Dichloroethane-d4	8260b	93.9	56-120	
Toluene-d8	8260b	105	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

#### **Exceptions Report:**

Report #/Lab ID#: 164709 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH2-5'

Attn: Pat McCasland

#### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

#### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

#### Comments pertaining to Data Qualifiers and OC data:

Parameter	Qualif	Comment									
TPH by GC (as diesel)	J	See J-flag discussion above									
Notes:											
<b>A</b> naly <b>S</b> ys		_			_	3512 2209 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • FA	ustin, TX Corpus C AX (512)	78744 hristi, TX 385-7411	& { 78408
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Client: Environmental Plus, Inc. Attn: Pat McCasland Address: 2100 Ave. O Eunice	NM 88231		_			Report#/Lab ID# Project ID: 200 Sample Name: 1 Sample Matrix: Date Received:	<ul> <li>#: 164710</li> <li>2-10238</li> <li>EPSL022805B</li> <li>soil</li> <li>03/08/2005</li> <li>soi2/20/2005</li> </ul>	<b>Repo</b> H2-10' <b>Time:</b>	09:55	)3/16/05	
Phone: (505) 394-3481 FAX: (505) REPORT OF ANALYSIS	394-2001					Date Sampled:	OUALITY /	ASSURA	NCE DA	<u>ΓΑ 1</u>	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	3.76	mg/Kg	2.5	<2.5	03/14/05	8015 mod.	J	7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	ろ	mg/Kg	5	4	03/14/05	8015 mod.	i	9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/10/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/10/05	8260b		7.7	80	93.3	90
Ethylbenzene	<20	µg/Kg	20	<20	03/10/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylenes	<40	µg/Kg	40	<40	03/10/05	8260b		3	120.8	100.7	96.3
o-Xylene	<20	µg/Kg	20	<20	03/10/05	8260b		4.4	124.7	104.8	96.9
Toluene	<20	µg/Kg	20	<20	03/10/05	8260b		12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				ity assurance de elative percent ( red from a spike ed as the percent typically at or ly denote USEP as. 7 Data Qu ted method blar y exceeds advis visory limit. M	ata is for the s (%) difference cd sample. nt (%) recover above the Pra A procedures. alifiers are J = nk(s). S & S1 sory limit. S3 I =Matrix inter	ample batch which includ between duplicate measu 4. Calibration Verificatio y of analyte from a known actical Quantitation Limit Less than ("<") values re analyte potentially presen =MS and/or MSD recove =MS and/or MSD and PD reference.	ed this sample. rements. 3. Recc n (CCV) and Lab a standard or matr (PQL) of the ana flect nominal qua nt between the PQ ry exceed advisor S recoveries exce	2. Precisio overy (Reco oratory Co rix. 5. Re lytical met ntitation lin QL and the ry limits. S red advisor	n (PREC) is ov.) is the per ntrol Sample porting Quan hod. 6. Me ntts adjusted MDL. B =A i2 =Post dige y limits. P =	the absolut cent (%) or (LCS) resu titation Lir thod numb for any req .nalyte dete estion spike Precision h	e value f analyte ults are nits ers uired cited in cited in (PDS) nigher

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Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164710
Attn:	Pat McCasland	Sample Name: EPSL022805BH2-10'	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	95.4	30-125	
p-Terphenyl	8015 mod.	101	30-160	
1,2-Dichloroethane-d4	8260b	94.9	56-120	
Toluene-d8	8260b	103	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#:164710Matrix: soilClient:Environmental Plus, Inc.Attn: PatProject ID:2002-10238Sample Name:EPSL022805BH2-10'

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

- □ Sample received in appropriate container(s). State of sample preservation unknown.
- □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

#### Comments pertaining to Data Qualifiers and QC data:

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Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
Notes:		

<b>D<sup>naly</sup>S</b> YS						351: 2209 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F	ustin, TX Corpus C AX (512)	78744 hristi, TX 385-7411	& X 78408
Client:Environmental Plus, Inc.Attn:Pat McCaslandAddress:2100 Ave. O EunicePhone:(505) 394-3481FAX:(505)	NM 88231 5) 394-2601					Report#/Lab ID# Project ID: 200 Sample Name: 1 Sample Matrix: Date Received: Date Sampled:	<pre>#: 164711 12-10238 EPSL022805B soil 03/08/2005 03/02/2005</pre>	Repo H3-Surfa Time: Time:	ort Date:     ()       ace     ()       ::     09:55       ::     08:00	03/16/05	
REPORT OF ANALYSIS			<del></del>		· · · · · · · · · · · · · · · · · · ·		QUALITY A	ASSURA	NCE DA'	<u>FA</u> 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	5	mg/Kg	5	ろ	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/11/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/11/05	8260b	S,M	3.3	66.1	93.5	90.7
Ethylbenzene	<20	μg/Kg	20	<20	03/11/05	8260b		3.8	105	108.7	106.3
m,p-Xylenes	<40	μg/Kg	40	<40	03/11/05	8260b		0.4	99.6	103.3	101.3
o-Xylene	<20	µg/Kg	20	<20	03/11/05	8260b		1.7	110.2	115.6	111.3
Toluene	<20	µg/Kg	20	<20	03/11/05	8260b		1.3	89.4	98.9	96.5
Inductive $20$ $\mu$ g/kg $20$ $20$ $20$ $05/11/03$ $82000$ $$ $1.3$ $89.4$ $98.9$ $96.5$ This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.1. Quality assurance data is for the sample batch which included this sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL B = Analyte detected in associated method blank(s). S & S1 = MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. M =Matrix interference.											

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A first transmission			
Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164711
Attn:	Pat McCasland	Sample Name: EPSL022805BH3-Surface	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	91.5	30-125	
p-Terphenyl	8015 mod.	104	30-160	~
1,2-Dichloroethane-d4	8260b	104	56-120	
Toluene-d8	8260b	100	71-116	

Data Qualifiers. D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#:164711Matrix: soilClient:Environmental Plus, Inc.AtProject ID:2002-10238Sample Name:EPSL022805BH3-Surface

Attn: Pat McCasland

### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq = 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recover limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag
Notes:		

CTALYSYS						351 220 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F.	ustin, TX Corpus Cl AX (512)	78744 hristi, TX 385-7411	& K 78408
Client: Environmental Plus, Inc. Attn: Pat McCasland Address: 2100 Ave. O Eunice	NM 88231					Report#/Lab ID Project ID: 200 Sample Name: Sample Matrix: Date Received:	#: 164712 )2-10238 EPSL022805B soil 03/08/2005	Repo H3-5' Time:	09:55	)3/16/05	
Phone:         (505) 394-3481         FAX:         (505)           REPORT OF ANALYSIS	394-2601			<u> </u>		Date Sampled:	<b>QUALITY</b> /	ASSURA	NCE DA	<u>FA</u> 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	<5	mg/Kg	5	く	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/12/05	8260b(5030/5035)		`			
Benzene	<20	µg/Kg	20	<20	03/12/05	8260b	S,M	3.3	66.1	93.5	90.7
Ethylbenzene	<20	µg/Kg	20	<20	03/12/05	8260b		3.8	105	108.7	106.3
m,p-Xylenes	<40	µg/Kg	40	<40	03/12/05	8260b		0.4	99.6	103.3	101.3
o-Xylene	<20	µg/Kg	20	<20	03/12/05	8260b		1.7	110.2	115.6	111.3
Toluene	<20	µg/Kg	20	<20	03/12/05	8260b		1.3	89.4	98.9	96.5
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				lity assurance d elative percent ( red from a spike sed as the percen , typically at or ly denote USEP ns. 7 Data Qu ated method blan ry exceeds advis lvisory limit. M	ata is for the s (%) difference ed sample. Int (%) recover above the Pra A procedures altifiers are J = nk(s). S & S1 sory limit. S3 I = Matrix inter	ample batch which includ between duplicate measu 4. Calibration Verification y of analyte from a know actical Quantitation Limit Less than ("<") values re- analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PI reference	led this sample. rements. 3. Reco on (CCV) and Lab n standard or matu (PQL) of the ana effect nominal qua ent between the PQ ery exceed advisor DS recoveries exce	2. Precisic overy (Rec oratory Co rix. 5. Re lytical met ntitation In QL and the ry limits. 5 eed advisor	on (PREC) is ov.) is the per- ntrol Sample porting Quan hod. 6. Me mits adjusted MDL. B =A S2 =Post dige y limits. P =	the absolu cent (%) o (LCS) res atitation Lin thod numb for any rec analyte dete estion spike Precision h	te value d'analyte ults are mits bers quired ected in e (PDS) higher



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164712
Attn:	Pat McCasland	Sample Name: EPSL022805BH3-5'	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	90.1	30-125	
p-Terphenyl	8015 mod.	97.2	30-160	
1,2-Dichloroethane-d4	8260b	104	56-120	
Toluene-d8	8260b	102	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164712 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2002-10238	
Sample Name: EPSL022805BH3-5	

# **Sample Temperature/Condition:** <=6°C

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'y +' ₽	The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to		
	laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the		د بر ب
	samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding		
	temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).	<b>.</b>	

# Sample Bottles & Preservation:

- Sample received in appropriate container(s) and appear to be appropriately preserved.
- □ Sample received in appropriate container(s). State of sample preservation unknown.
- □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (ROL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recover limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Notes:		

#### Notes:

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Client:	Environmental Plus, Inc.						Report#/Lab ID	#: 164713	Repo	ort Date: (	03/16/05	
Attn:	Pat McCasland						Project ID: 20	02-10238				
Address:	2100 Ave. O						Sample Name:	EPSL022805B	H3-10'			
	Eunice	NM 88231					Sample Matrix:	soil				
							Date Received:	03/08/2005	Time:	09:55		
Phone:	(505) 394-3481 FAX: (505)	394-2601					Date Sampled:	03/02/2005	Time:	08:41		
REPORT	OF ANALYSIS		. <u></u>					QUALITY A	ASSURA	NCE DA'	<u>TA</u> 1	
Paramete	Г	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by G	C (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by G	C (as diesel-ext)					03/14/05	3570m					
TPH by G	C (as gasoline)	ব	mg/Kg	5	ব	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile or	rganics-8260b/BTEX					03/12/05	8260b(5030/5035)					
Benzene		<20	µg/Kg	20	<20	03/12/05	8260b	S,M	3.3	66.1	93.5	90.7
Ethylbenz	ene	<20	µg/Kg	20	<20	03/12/05	8260b		3.8	105	108.7	106.3
m,p-Xylen	nes	<40	μg/Kg	40	<40	03/12/05	8260b		0.4	99.6	103.3	101.3
o-Xylene		<20	μg/Kg	20	<20	03/12/05	8260b		1.7	110.2	115.6	111.3
Toluene		<20	µg/Kg	20	<20	03/12/05	8260b		1.3	89.4	98.9	96.5
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				ts 1. Qua of the r recove express (RQL) typical dilution associa recove than ac	Itty assurance d relative percent red from a spike sed as the perce , typically at or ly denote USEP ns 7. Data Qu ted method bla ry exceeds advi: lvisory limit. M	ata is for the s (%) difference ed sample. nt (%) recover above the Pra A procedures. nalifiers are J = nk(s). S & S I sory limit. S3 I =Matrix inter	ample batch which inclu- between duplicate measu 4. Calibration Verification y of analyte from a know ictical Quantitation Limi Less than ("<") values r e analyte potentially presse =MS and/or MSD recov =MS and/or MSD and Pl ference.	ded this sample irements. 3 Rect on (CCV) and Lab in standard or math t (PQL) of the ana effect nominal qua ent between the PC ery exceed advisor DS recoveries exce	2 Precisic overy (Rec oratory Co rux 5 Re lytical met ntitation lin QL and the ry limits. S eed advisor	on (PREC) is ov.) is the pe- ontrol Sample porting Quar thod. 6. Me mits adjusted MDL B =A S2 =Post dige ry limits. P =	the absolu rcent (%) c : (LCS) res tutation Li thod numb for any rea analyte det estion spik	ite value of analyte sults are mits pers quired ected in e (PDS) higher



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 385-7411

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Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164713					
Attn:	Pat McCasland	Sample Name: EPSL022805BH3-10'	Sample Matrix: soil					
REPOR	REPORT OF SURROGATE RECOVERY							

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	88.2	30-125	
p-Terphenyl	8015 mod.	103	30-160	
1,2-Dichloroethane-d4	8260b	98.6	56-120	
Toluene-d8	8260b	93.6	71-116	

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Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164713 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH3-10'

Attn: Pat McCasland

# Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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Sample received in appropriate container(s) and appear to be appropriately preserved.

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#### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits, indicative of potential matrix interference as evidenced by M-flag
Notes:		

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<b>L</b> /					I	Γ.

Pat McCasland

(505) 394-3481

Address: 2100 Ave. O Eunice

Environmental Plus, Inc.

Client:

Attn:

Phone:

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 Montopolis
 Drive,
 Austin,
 TX
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 2209
 N.
 Padre
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 Dr.,
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 Christi,
 TX
 78408

 (512)
 385-5886
 •
 FAX
 (512)
 385-7411

Report#/Lab ID	#: 164714	<b>Report Date:</b>	03/16/05
Project ID: 200	02-10238		
Sample Name:	EPSL022805B	H4-Surface	
Sample Matrix:	soil		
Date Received:	03/08/2005	Time: 09:55	
Date Sampled:	03/02/2005	Time: 09:24	

EPORT OF ANALYSIS QUALITY ASSURANCE DATA 1											
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	9.82	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m				]	
TPH by GC (as gasoline)	4	mg/Kg	5	4	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/11/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/11/05	8260b		7.7	80	93.3	90
Ethylbenzene	<20	µg/Kg	20	<20	03/11/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylenes	<40	µg/Kg	40	<40	03/11/05	8260b		3	120.8	100.7	96.3
o-Xylene	<20	µg/Kg	20	<20	03/11/05	8260b		4.4	124.7	104.8	96.9
Toluene	<20	µg/Kg	20	<20	03/11/05	8260b		12.1	119.9	108.1	96.8

This analytical report is respectfully submitted by AnalySys, Inc The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted,

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov) is the percent (%) of analyte recovered from a spiked sample 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit M =Matrix interference.

Dale Wagner

NM 88231

FAX: (505) 394-2601



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164714
Attn:	Pat McCasland	Sample Name: EPSL022805BH4-Surface	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	97.8	30-125	
p-Terphenyl	8015 mod.	98.2	30-160	
1,2-Dichloroethane-d4	8260b	100	56-120	
Toluene-d8	8260b	120	71-116	X

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Data Qualifiers. D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#:164714Matrix: soilClient:Environmental Plus, Inc.AttrProject ID:2002-10238Sample Name:EPSL022805BH4-Surface

Attn: Pat McCasland

#### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

- □ Sample received in appropriate container(s). State of sample preservation unknown.
- □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene-d8 Toluene-d8	x x	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Notes:		



Client: Environmental Plus, Inc.						Report#/Lab ID;	<b>#:</b> 164715	Repo	rt Date: (	)3/16/05	
Attn: Pat McCasland						Project ID: 200	2-10238				
Address: 2100 Ave. O		1				Sample Name:	EPSL022805B	H4-5'			
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
Phone: (505) 394-3481 FAX: (505)	394-2601					Date Sampled:	03/02/2005	Time:	09:44		
REPORT OF ANALYSIS							QUALITY A	ASSURA	NCE DA'	<u>FA</u> 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	3680	mg/Kg	25	<25	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	1720	mg/Kg	50	<50	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/14/05	8260b(5030/5035)					
Benzene	220	µg/Kg	20	<20	03/14/05	8260b		, 7.7	80	93.3	90
Ethylbenzene	7570	µg/Kg	100	<100	03/11/05	8260b		3.1	122.2	102.2	97.4
m,p-Xylenes	15400	µg/Kg	200	<200	03/11/05	8260b		3	120.8	100.7	96.3
o-Xylene	5380	µg/Kg	100	<100	03/11/05	8260b		4.4	124.7	104.8	96.9
Toluene	<20	µg/Kg	20	<20	03/14/05	8260b	J	12.1	119.9	108.1	96.8
This analytical report is respectfully submitted by AnalySys, Inc The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc 's Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Dale Wagner				lity assurance da elative percent ( red from a spike sed as the percent , typically at or ly denote USEP ns. 7. Data Qu ated method blan ry exceeds advis lvisory limit. M	ata is for the s %) difference d sample. t (%) recover above the Pra A procedures. alifiers are J = hk(s). S & S1 ory limit. S3 =Matrix inter	ample batch which incluc between duplicate measu 4. Calibration Verificatio y of analyte from a know ictical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PI ference.	led this sample. rements 3. Reco n (CCV) and Lab n standard or matt (PQL) of the ana flect nominal qua nt between the PQ cry exceed advisor DS recoveries exce	2. Precisio overy (Reco oratory Co rix. 5 Re lytical met ntitation lur QL and the ry limits S eed advisor	n (PREC) is ov.) is the per- ntrol Sample porting Quar hod. 6. Me nits adjusted MDL. B =A 2 =Post dige y limits. P =	the absolu reent (%) o (LCS) resu titation Lin thod numb for any rec analyte dete estion spike Precision h	te value f analyte ults are mits ers juired ected in e (PDS) iigher

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Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164715
Attn:	Pat McCasland	Sample Name: EPSL022805BH4-5'	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	89.4	56-120	
Toluene-d8	8260ь	80.3	71-116	

Data Qualifiers D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164715 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH4-5'

Attn: Pat McCasland

# Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### **Sample Bottles & Preservation:**

Sample received in appropriate container(s) and appear to be appropriately preserved.

- Sample received in appropriate container(s). State of sample preservation unknown.
- □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels) Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels) Surrogate recoveries not accurately quantifiable
Notes:		

<b>CINCLYSYS</b>						3512 2209 (512	2 Montopolis   9 N. Padre Isl 2) 385-5886	Drive, Au and Dr., • FA	ustin, TX Corpus Cl AX (512)	78744 8 1risti, TX 385-7411	& \$ 78408
Client: Environmental Plus, Inc.						Report#/Lab ID#	<b>#:</b> 164716	Repo	rt Date: (	03/16/05	
Attn: Pat McCasland						Project ID: 200	2-10238				
Address: 2100 Ave. O						Sample Name: 1	EPSL022805B	H4-10'			
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
<b>Phone:</b> (505) 394-3481 <b>FAX:</b> (505)	394-2601					Date Sampled:	03/02/2005	Time:	10:41		
REPORT OF ANALYSIS							QUALITY A	ASSURA	NCE DAT	<u>ra</u> 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	く	mg/Kg	5	<5	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/11/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/11/05	8260b	S,M	3.3	66.1	93.5	90.7
Ethylbenzene	~20	µg/Kg	20	<20	03/11/05	8260b		3.8	105	108.7	106.3
m,p-Xylenes	<40	µg/Kg	40	<40	03/11/05	8260b		0.4	99.6	103.3	101.3
o-Xylene	<20	µg/Kg	20	<20	03/11/05	8260b		1.7	110.2	115.6	111.3
Toluene	<20	µg/Kg	20	<20	03/11/05	8260b		1.3	89.4	98.9	96.5
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner			<ul> <li>I. Qual of the r recover</li> <li>express</li> <li>(RQL),</li> <li>typicall</li> <li>dilution</li> <li>associa</li> <li>recover</li> <li>than ad</li> </ul>	ity assurance da elative percent ( ed from a spike ed as the percent typically at or y denote USEP is 7 Data Qu ted method blar y exceeds advis visory limit M	ata is for the s %) difference d sample. th (%) recover above the Pra A procedures. alifiers are J = ak(s). S & S1 ory limit. S3 =Matrix inter	ample batch which includ between duplicate measur 4. Calıbration Verificatio y of analyte from a known ictical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PD ference.	ed this sample. rements. 3. Reco n (CCV) and Labo n standard or matr (PQL) of the anai flect nominal quai nt between the PQ ry exceed advisor S recoveries exce	2. Precisio overy (Reco oratory Co rix. 5 Rej lytical meth ntitation lin DL and the ry limits. S red advisor	n (PREC) is ov.) is the per nitrol Sample porting Quan nod. 6. Met nits adjusted MDL. B =A: i2 =Post dige y limits. P =J	the absolut cent (%) of (LCS) result titation Lin hod number for any req nalyte dete stion spike Precision h	te value f analyte ults are nits ers uired octed in e (PDS) igher



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164716
Attn:	Pat McCasland	Sample Name: EPSL022805BH4-10	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	85.2	30-125	
p-Terphenyl	8015 mod.	89.4	30-160	
1,2-Dichloroethane-d4	8260b	94.7	56-120	
Toluene-d8	8260b	95.1	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164716 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH4-10'

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits, indicative of potential matrix interference as evidenced by M-flag.
Notes:		

<b>A</b> naly <b>S</b> ys						351: 220) (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, Au and Dr., • Fa	ustin, TX Corpus Cl AX (512)	78744 a hristi, T3 385-7411	& X 78408
Client: Environmental Plus, Inc. Attn: Pat McCasland Address: 2100 Ave. O Eunice	NM 88231					Report#/Lab ID Project ID: 200 Sample Name: 5 Sample Matrix:	#: 164717 )2-10238 EPSL022805B soil	<b>Repo</b> H5-Surfa	rt Date: (	)3/16/05	
<b>Phone:</b> (505) 394-3481 <b>FAX:</b> (505)	394-2601					Date Received: Date Sampled:	03/08/2005 03/02/2005	Time:	09:55 11:19		
REPORT OF ANALYSIS							QUALITY /	ASSURA	NCE DAT	$\underline{\Gamma A}$ 1	
Parameter	Result	Units	RQL <sup>3</sup>	Blank	Date	Method <sup>o</sup>	Data Qual.'	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>+</sup>
TPH by GC (as diesel)	91200	mg/Kg	125	<125	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	14300	mg/Kg	250	<250	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/16/05	8260b(5030/5035)				'	
Benzene	1240	µg/Kg	500	<500	03/16/05	8260b		11.6	77.7	86.6	89.3
Ethylbenzene	35300	µg/Kg	500	<500	03/16/05	8260b	S,M	8	174.9	97.7	108.5
m,p-Xylenes	70800	µg/Kg	1000	<1000	03/16/05	8260b		9.3	118.6	92.1	98.8
o-Xylene	36500	µg/Kg	500	<500	03/16/05	8260b	S,M	6.2	134.4	102.5	114.7
Toluene	27700	µg/Kg	500	<500	03/16/05	8260b		10.2	119.9	91	97.2
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner			e (RQL) typical dilution associa recover than ad	lity assurance d elative percent red from a spike sed as the perce , typically at on ly denote USEP ns 7. Data Qu tted method bla ry exceeds advi lvisory limit. M	ata is for the s (%) difference ed sample. nt (%) recover r above the Pra PA procedures. nalifiers are J = nk(s) S & S1 sory limit S3 1 = Matrix inter	ample batch which incluc between duplicate measu 4. Calibration Verificatio y of analyte from a know actical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PE reference.	led this sample. rements. 3. Rect n (CCV) and Lab n standard or mats (PQL) of the ana effect nominal qua nt between the PC ery exceed adviso DS recoveries exce	2 Precisic overy (Reco oratory Co rix. 5. Re lytical met ntitation lin QL and the ry limits. S eed advisor	n (PREC) is ov) is the per ntrol Sample porting Quar hod 6. Me mits adjusted MDL. B =A 52 =Post dige y limits. P =	the absolu rcent (%) o (LCS) result that in Lin thod numb for any rec nalyte dete estion spike Precision h	te value f analyte ults are mits oers quired ected in e (PDS) nigher

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Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164717
Attn:	Pat McCasland	Sample Name: EPSL022805BH5-Surface	Sample Matrix: soil

## **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 25X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 25X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 25X	D
Toluene-d8	8260b	none/diluted	diluted @ 25X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164717 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH5-Surface

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

- □ Sample received in appropriate container(s). State of sample preservation unknown.
- □ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Parameter	Qualif	Comment
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels) Surrogate recoveries not accurately quantifiable
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

#### Comments pertaining to Data Qualifiers and QC data:

Notes:

<b>Analys</b> ys						351 220 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F	ustin, TX Corpus C AX (512)	78744 & hristi, TX 385-7411	& ( 78408
Client: Environmental Plus, Inc.						Report#/Lab ID#	#: 164718	Repo	rt Date: (	)3/16/05	
Attn: Pat McCasland						Project ID: 200	02-10238				
Address: 2100 Ave. O						Sample Name:	EPSL022805B	H5-5'			
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
Phone: (505) 394-3481 FAX: (505)	394-2601					Date Sampled:	03/02/2005	Time:	11:25		
REPORT OF ANALYSIS						<u> </u>	QUALITY A	ASSURA	NCE DAT	FA 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	2100	mg/Kg	12.5	<12.5	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	534	mg/Kg	25	<25	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/16/05	8260b(5030/5035)					
Benzene	<20	μg/Kg	20	<20	03/16/05	8260b		11.6	77.7	86.6	89.3
Ethylbenzene	1810	µg/Kg	20	<20	03/16/05	8260b	S,M	8	174.9	97.7	108.5
m,p-Xylenes	1910	µg/Kg	40	<40	03/16/05	8260b		9.3	118.6	92.1	98.8
o-Xylene	580	µg/Kg	20	<20	03/16/05	8260b	S,M	6.2	134.4	102.5	114.7
Toluene	169	µg/Kg	20	<20	03/16/05	8260b		10.2	119.9	91	97.2
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				lity assurance de relative percent ( red from a spike sed as the percent , typically at or ly denote USEP ns. 7. Data Qu ted method blan ry exceeds advis lvisory limit. M	ata is for the s (%) difference cd sample. nt (%) recover above the Pra A procedures. alifiers are J = nk(s). S & S1 sory limit. S3 I =Matrix inter	ample batch which includ between duplicate measu 4. Calibration Verificatio y of analyte from a know actical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PL reference	led this sample. rements. 3. Recc n (CCV) and Lab n standard or matu (PQL) of the ana flect nominal qua nt between the PC ery exceed advisor DS recoveries exce	2 Precisic overy (Rec oratory Co rix. 5. Re lytical met ntitation lin QL and the ry limits. S eed advisor	m (PREC) is ov.) is the per ntrol Sample porting Quan hod. 6. Me mits adjusted MDL B =A 52 =Post dige y limits. P =	the absolution (%) or (LCS) result that in the list of	te value f analyte ults are nits ers ¡uired :cted in :> (PDS) higher



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164718
Attn:	Pat McCasland	Sample Name: EPSL022805BH5-5'	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	95.7	30-125	
p-Terphenyl	8015 mod.	92.9	30-160	
1,2-Dichloroethane-d4	8260b	99.2	56-120	
Toluene-d8	8260b	75.4	71-116	

Data Qualifiers D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164718 Matrix: soil Client: Environmental Plus, Inc. **Project ID:** 2002-10238 Sample Name: EPSL022805BH5-5'

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### **Sample Bottles & Preservation:**

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEO-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure). GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Notes:		

<b>D<sup>naly</sup>S</b> <sup>ys</sup>						351) 2209 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F	ustin, TX Corpus Cl AX (512)	78744 { hristi, TX 385-7411	& ( 78408
Client: Environmental Plus, Inc.						Report#/Lab ID#	<b>#:</b> 164719	Repo	ort Date: (	)3/16/05	
Attn: Pat McCasland						Project ID: 200	2-10238				
Address: 2100 Ave. O						Sample Name:	EPSL022805B	H5-10'			
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
Phone: (505) 394-3481 FAX: (505)	394-2601					Date Sampled:	03/02/2005	Time:	11:58		
REPORT OF ANALYSIS							QUALITY A	ASSURA	NCE DAT	<u>[A] 1</u>	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	9620	mg/Kg	25	<25	03/14/05	8015 mod.		7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	4090	mg/Kg	50	<50	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/16/05	8260b(5030/5035)					
Benzene	474	μg/Kg	100	<100	03/16/05	8260b		11.6	77.7	86.6	89.3
Ethylbenzene	23700	µg/Kg	100	<100	03/16/05	8260b	S,M	8	174.9	97.7	108.5
m,p-Xylenes	35700	µg/Kg	200	<200	03/16/05	8260b		9.3	118.6	92.1	98.8
o-Xylene	19200	µg/Kg	100	<100	03/16/05	8260b	S,M	6.2	134.4	102.5	114.7
Toluene	21500	µg/Kg	100	<100	03/16/05	8260b		10.2	119.9	91	97.2
This analytical report is respectfully submitted by AnalySys, Inc The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc 's Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc , Austin, TX All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				lity assurance d elative percent of red from a spike sed as the percent , typically at or ly denote USEP ns. 7. Data Qu ted method blan ry exceeds advis lvisory limit. M	ata is for the s (%) difference ed sample. nt (%) recover above the Pra A procedures halifiers are J = nk(s). S & S1 sory limit S3 I =Matrix inter	ample batch which includ between duplicate measur 4. Calibration Verificatio y of analyte from a known actical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PE reference	ed this sample. rements. 3. Reco n (CCV) and Lab n standard or matr (PQL) of the ana flect nominal qua nt between the PQ ry exceed advisor DS recoveries exce	2 Precisic overy (Rec oratory Co rux. 5 Re lytical met ntitation li QL and the ry limits. 5 eed advisor	on (PREC) is ov) is the per portrol Sample porting Quan thod. 6. Me mits adjusted MDL B =A S2 =Post dige ry limits. P =	the absolut cent (%) o (LCS) resu- titation Lin thod numb for any rec .nalyte dete estion spike Precision h	te value f analyte ults are nits ers uired ected in ected in e (PDS) nigher

 

Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164719
Attn:	Pat McCasland	Sample Name: EPSL022805BH5-10	Sample Matrix: soil

# **<u>REPORT OF SURROGATE RECOVERY</u>**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	120	56-120	
Toluene-d8	8260b	79.4	71-116	

Data Qualifiers D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164719 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH5-10'

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

#### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov limits LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
1-Chlorooctane 1-Chlorooctane	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable
	•	

Notes:

<b>CINCLYSYS</b>						351 220 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • FA	ustin, TX Corpus Cl AX (512)	78744 & hristi, TX 385-7411	& \$ 78408
Client: Environmental Plus, Inc.		7				Report#/Lab ID#	<b>#:</b> 164720	Repo	rt Date: (	)3/16/05	
Attn: Pat McCasland						Project ID: 200	2-10238	-			
Address: 2100 Ave. O						Sample Name:	EPSL022805B	H5-15'			
Eunice	NM 88231					Sample Matrix:	soil				
						Date Received:	03/08/2005	Time:	09:55		
Phone: (505) 394-3481 FAX: (505)	394-2601					Date Sampled:	03/02/2005	Time:	12:56		
REPORT OF ANALYSIS						······································	QUALITY A	ASSURA	NCE DA	<u>FA</u> 1	
Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. 3	CCV <sup>4</sup>	LCS <sup>4</sup>
TPH by GC (as diesel)	3.36	mg/Kg	2.5	<2.5	03/14/05	8015 mod.	J	7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	ろ	mg/Kg	5	ふ	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/15/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/15/05	8260b		3.1	74	97.7	85.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/05	8260b		2.4	115.5	102	96
m,p-Xylenes	<40	µg/Kg	40	<40	03/15/05	8260b		2.8	108.5	94.8	93.5
o-Xylene	<20	µg/Kg	20	<20	03/15/05	8260b		3.5	122.8	106	104.4
Toluene	<20	µg/Kg	20	<20	03/15/05	8260b		4.7	105.1	106.8	94.9
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc 's Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				ity assurance da elative percent ( ced from a spike sed as the percent typically at or y denote USEP ns. 7. Data Qu ted method blar y exceeds advis visory lumit. M	ata is for the s (%) difference (d sample, nt (%) recover above the Pra A procedures, alifiers are J = nk(s). S & S1 cory limit S3 =Matrix inter	ample batch which incluc between duplicate measu 4. Calibration Verificatio y of analyte from a know, actical Quantitation Limit Less than ("<") values re analyte potentially prese =MS and/or MSD recove =MS and/or MSD and PL reference.	led this sample. rements. 3. Recc n (CCV) and Lab n standard or matr (PQL) of the ana flect nominal qua nt between the PQ ry exceed advisor DS recoveries exce	2. Precisio overy (Reco oratory Co rix. 5. Re lytical meti ntitation lir 2L and the ry limits. S seed advisor	n (PREC) is ov.) is the per ntrol Sample porting Quan hod. 6. Me nits adjusted MDL B =A 32 =Post dige y limits. P =	the absolut cent (%) or (LCS) resu titation Lir thod numb for any req nalyte dete stion spike Precision h	te value f analyte ults are nits ers juired ccted in c(PDS) tigher



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164720
Attn:	Pat McCasland	Sample Name: EPSL022805BH5-15	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	92.8	30-125	
p-Terphenyl	8015 mod.	106	30-160	
1,2-Dichloroethane-d4	8260b	104	56-120	
Toluene-d8	8260b	102	71-116	

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 164720 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH5-15'

Attn: Pat McCasland

#### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

## Sample Bottles & Preservation:

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

# J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

# Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
Notes:		

# CTALY SYS

 3512
 Montopolis
 Drive,
 Austin,
 TX
 78744
 &

 2209
 N.
 Padre
 Island
 Dr.,
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 Christi,
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 78408

 (512)
 385-5886
 •
 FAX
 (512)
 385-7411

Client:	Environmental Plus, Inc.						Report#/Lab ID	#: 164721	Repo	rt Date: (	)3/16/05		
Attn:	Pat McCasland						Project ID: 200	2-10238					
Address:	ddress: 2100 Ave. O						Sample Name: EPSL022805BH6-Surface						
	Eunice	NM 88231					Sample Matrix:	soil					
							Date Received:	03/08/2005	Time:	09:55			
Phone:	(505) 394-3481 <b>FAX:</b> (505)	394-2601					Date Sampled:	03/02/2005	Time:	02:21			
REPORT	OF ANALYSIS							QUALITY A	ASSURA	NCE DA'	<u>ra</u> 1		
Paramete	r	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual. <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>	
TPH by C	C (as diesel)	<2.5	mg/Kg	2.5	<2.5	03/14/05	8015 mod.		7.1	99	96.1	103.5	
ГРН by G	C (as diesel-ext)	<b>-</b>				03/14/05	3570m						
TPH by C	C (as gasoline)	く	mg/Kg	5	4	03/14/05	8015 mod.		9.3	92.3	88.3	101.2	
Volatile o	ganics-8260b/BTEX					03/15/05	8260b(5030/5035)						
Benzene		<20	µg/Kg	20	<20	03/15/05	8260b		3.1	74	97.7	85.7	
Ethylbenz	ene	<20	µg/Kg	20	<20	03/15/05	8260b		2.4	115.5	102	96	
m,p-Xyler	es	<40	µg/Kg	40	<40	03/15/05	8260b		2.8	108.5	94.8	93.5	
o-Xylene		<20	µg/Kg	20	<20	03/15/05	8260b		3.5	122.8	106	104.4	
Foluene		<20	µg/Kg	20	<20	03/15/05	8260b		4.7	105.1	106.8	94.9	
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc , Austin, TX All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				l Qual of the r recover express (RQL), typicall dilution associa recover than ad	1 Quality assurance data is for the sample batch which included this sample 2 Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s) S & S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. M = Matrix interference								



Client:	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164721
Attn:	Pat McCasland	Sample Name: EPSL022805BH6-Surface'	Sample Matrix: soil

# **REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	89.8	30-125	
p-Terphenyl	8015 mod.	111	30-160	
1,2-Dichloroethane-d4	8260b	118	56-120	
Toluene-d8	8260b	115	71-116	

Data Qualifiers D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

<b>Analysys</b>						351 220 (512	2 Montopolis 9 N. Padre Isl 2) 385-5886	Drive, A and Dr., • F.	ustin, TX Corpus C AX (512)	78744 hristi, T 385-7411	& \$ 78408
Client:       Environmental Plus, Inc.         Attn:       Pat McCasland         Address:       2100 Ave. O         Eunice       NM 88231						Report#/Lab ID#:         164722         Report Date:         03/16/05           Project ID:         2002-10238         Sample Name:         EPSL022805BH6-5'           Sample Matrix:         soil         Date Received:         03/08/2005         Time:         09:55					
Phone:         (505) 394-3481         FAX:         (505) 394-2601						Date Sampled:	03/02/2005	Time:	02:36		
REPORT OF ANALYSIS		<b></b>					QUALITY A	ASSURA	NCE DA'	$\frac{\Gamma A}{\Gamma A}$	1.004
Parameter	Result	Units	RQL <sup>3</sup>	Blank	Date	Method <sup>6</sup>	Data Qual.'	Prec	Recov. 5	CCV-	LCS*
TPH by GC (as diesel)	3.4	mg/Kg	2.5	<2.5	03/14/05	8015 mod.	J	7.1	99	96.1	103.5
TPH by GC (as diesel-ext)					03/14/05	3570m					
TPH by GC (as gasoline)	< <u>5</u>	mg/Kg	5	く	03/14/05	8015 mod.		9.3	92.3	88.3	101.2
Volatile organics-8260b/BTEX					03/15/05	8260b(5030/5035)					
Benzene	<20	µg/Kg	20	<20	03/15/05	8260b		3.1	74	97.7	85.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/05	8260b		2.4	115.5	102	96
m,p-Xylenes	<40	µg/Kg	40	<40	03/15/05	8260b		2.8	108.5	94.8	93.5
o-Xylene	<20	µg/Kg	20	<20	03/15/05	8260b		3.5	122.8	106	104.4
Toluene	<20	µg/Kg	20	<20	03/15/05	8260b		4.7	105.1	106.8	94.9
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc, Austin, TX. All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Dale Wagner				1. Quality assurance data is for the sample batch which included this sample. 2 Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4 Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit M =Matrix interference							

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<b>Client:</b>	Environmental Plus, Inc.	Project ID: 2002-10238	Report#/Lab ID#: 164722
Attn:	Pat McCasland	Sample Name: EPSL022805BH6-5'	Sample Matrix: soil

#### **REPORT OF SURROGATE RECOVERY**

.

Surrogate Compound	Method	Recovery	<b>Recovery Limits</b>	Data Qualifiers
1-Chlorooctane	8015 mod.	87.7	30-125	
p-Terphenyl	8015 mod.	97	30-160	
1,2-Dichloroethane-d4	8260b	104	56-120	
Toluene-d8	8260Ъ	110	71-116	

Data Qualifiers. D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

#### **Exceptions Report:**

Report #/Lab ID#: 164722 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2002-10238 Sample Name: EPSL022805BH6-5'

Attn: Pat McCasland

#### **Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq = 6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

#### **Sample Bottles & Preservation:**

Sample received in appropriate container(s) and appear to be appropriately preserved.

□ Sample received in appropriate container(s). State of sample preservation unknown.

□ Sample received in inappropriate container(s) and/or with unknown state of preservation.

#### J flag Discussion:

Daga4. 7

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

#### Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
Notes:	<b></b>	

Demant #/I ab ID#. 164700 Demant Dates 2/16/05

# AnalySys Inc.

# Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 512-444-5896 FAX: 512-447-4766 2209 N. Padre Island Dr., Corpus Christi, TX 78408

p1 of 2

ANALYSIS REQUEST. BIIITO Environmental Plus, Inc. **Company Name EPI Project Manager** Pat McCasland P.O. BOX 1558 Mailing Address Eunice New Mexico 88231 City, State, Zip **EPI Phone#/Fax#** 505-394-3481 / 505-394-2601 **Piains All American Client Company** PIPELINE L.P. Facility Name **Eubanks Sump Pump** Attn: Jimmy Bryant **Project Reference** 2002-10238 PO Box 1660, Manuel Gonzales Midland, TX 79701 **EPI Sampler Name** MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP. **GROUND WATER** SULFATES (SO₄<sup>¯</sup>) CHLORIDES (CI) # CONTAINERS WASTEWATER SAMPLE I.D. LAB I.D. CRUDE OIL SLUDGE BTEX 8021B ACID/BASE OTHER >>> TPH 8015M ICE/COOL OTHER: OTHER TCLP SOIL PAH Hd DATE TIME 164705 G 1 IEPSL022805BH1-Surface 2/28/05 11:35 х х х х G 1 1647.06 2 EPSL022805BH1-15 Х 2/28/05 12:40 х х х 164707 G 1 EPSL022805BH1-10 х 2/28/05 х х 1:15 х 164708 G 1 EPSL022805BH2-Surface х х 2/28/05 1:39 х х 164709 5 EPSL022805BH2-5 G 1 х х 2/28/05 1:48 х Х 6 EPSL022805BH2-10 G 1 164710 х 2/28/05 2:12 х х х G 1 16471 7 EPSL022805BH3-Surface х 3/2/05 8:00 Х х х EPSL022805BH3-5 G 3/2/05 164712 1 Х Х 8:18 х х G EPSL022805BH3-10 6471 1 Х Х 3/2/05 8:41 Х Х 10 EPSL022805BH4-Surface G 1 3/2/05 9:24 164714 Х х х Х Received By "Z ZA E-mail results to: iolness@hotmail.com and enviplus1@aol.com gettone °° (4, CC) REMARKS CoC requested Anna Received By 3-8-05 (lab staff) Relibquished by 3-) 0955 0100 776 Delivered b) Checked By. Sample Cool Intact Yes No



# AnalySys Inc.

# Chain of Custody Form

### p2 of 2

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 512-444-5896 FAX: 512-447-4766

Company Name Environmental Plus, Inc.							1-050 	alan (s) Tarana		Bill	To					- 1	AN/	<b>XLY</b>	SIS	RE	QU	EST	r dell. V Delles			
EPI Project Mana	ager Pat McCa	sland									Г	4	~	7												
Mailing Address	P.O. BOX	1558											<u> </u>							i I						
City, State, Zip	Eunice Ne	ew Mexico	882	31							F															
EPI Phone#/Fax#	\$ 505-394-3	481 / 505-3	94-:	260	1						P	LA	IN	S												
Client Company	Plains All	American					ALL AMERICAN PIPELINE, L.P																			
Facility Name	Eubanks	Sump Purr	ηp				Attn: Jimmy Bryant																			
Project Reference 2002-10238									PO	Bo	x 16	60,														
EPI Sampler Name Manuel Gonzales							Mi	dlar	nd,	TX 7	79701															
							MAT	RIX			PR	ESE	RV.	SAMF	PLING						1					
LAB I.D.	SAMPLE I.I	D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	ТІМЕ	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO₄ <sup>≘</sup> )	Hd	TCLP	OTHER >>>	РАН			
<b>164715</b> 1	EPSL022805BH4-5'		G	1			X					х		3/2/05	9:44	x	X					$\square$				
<b>164716</b> <sup>2</sup>	EPSL022805BH4-10	ļi	G	1			X					X		3/2/05	10:41	Х	X				$\square$	$\square$				
<b>164717</b> <sup>3</sup>	EPSL022805BH5-Su	irface	G	1			X					X		3/2/05	11:19	X	X					$\square$				
<b>164718</b> 4	EPSL022805BH5-5'		G	1			X					X		3/2/05	11:25	X	X									
<b>164719</b> 5	EPSL022805BH5-10		G	1			X					х		3/2/05	11:58	X	X									
164720 6	EPSL022805BH5-15	1	G	1			X					X		3/2/05	12:56	x	Х									
164721 7	EPSL022805BH6-Su	Irface	G	1			X					X		3/2/05	2:21	X	X									
<u>    164722     8</u>	EPSL022805BH6-5'		G	1			x					X		3/2/05	2:36	х	X									
9																										
10																										
HARRING BURNESS IN THE REAL PROPERTY OF THE REAL PR	THE REPORT OF A DESCRIPTION OF A DESCRIP			an a	a Br	-1188857. 	ENDAIL.	د در به م الد ال		anne. Céan	an a				With Street on the Street of St	TO DE SU	N DA	i fingi Nggan			96995 R. 34	Serene a		100 1 X 8		90° 80
Sampler Relinquished: August and the second dependence of the second d				ab stat	1)3	(7) 	بلا 55 cked	By.		E-m	ail re ARKS	esults to: i · CoC reque	olness@h sted.	otm	ail.co	om a	ind e	nvip	Jus1	@a	ol.co	m				
	Yes No																									

2209 N. Padre Island Dr., Corpus Christi, TX 78408



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# Analytical Report

## **Prepared for:**

Daniel Bryant Plains All American EH & S 1301 S. County Road 1150 Midland, TX 79706-4476

Project: Eubank Sump Pump Project Number: 2001-11136 Location: UL-A, Sec. 22, T 21 S, R 37 E

Lab Order Number: 7A29002

Report Date: 02/02/07

Plans All American EH & SProjectEubank Sump PumpFax (432) 687-49141301 S. County Road 1150Project Number2001-11136Midland TX, 79706-4476Project Manager.Daniel Bryant

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 20'	7A29002-01	Soil	01/26/07 08.30	01-27-2007 11 35
BH-2 20'	7A29002-02	Soil	01/26/07 08.37	01-27-2007 11 35
SW-1 15'	7A29002-03	Soil	01/26/07 08 42	01-27-2007 11.35
SW-1 20'	7A29002-04	Soil	01/26/07 08 46	01-27-2007 11 35
SW-2 15'	7A29002-05	Soil	01/26/07 08 51	01-27-2007 11.35
SW-2 20'	7A29002-06	Soil	01/26/07 08:57	01-27-2007 11 35
SW-3 15'	7A29002-07	Soil	01/26/07 09.06	01-27-2007 11 35
SW-3 20'	7A29002-08	Soil	01/26/07 09 13	01-27-2007 11.35
SW-4 20'	7A29002-09	Soil	01/26/07 09.20	01-27-2007 11.35
SW-5 20'	7A29002-10	Soil	01/26/07 09 27	01-27-2007 11 35
TS 23'	7A29002-11	Soil	01/26/07 09 36	01-27-2007 11.35
TS 28'	7A29002-12	Soil	01/26/07 09 40	01-27-2007 11.35
SW-6 15'	7A29002-13	Soil	01/26/07 10 58	01-27-2007 11.35
SW-7 20'	7A29002-14	Soil	01/26/07 11 10	01-27-2007 11.35
SW-8 20'	7A29002-15	Soil	01/26/07 11 15	01-27-2007 11 35

ProjectEubank Sump PumpProject Number2001-11136Project ManagerDaniel Bryant

## Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 20' (7A29002-01) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0.0250	"	"	н				
Ethylbenzene	ND	0 0250	11	"	н	"	"		
Xylene (p/m)	ND	0.0250	"	п	п	"	n	"	
Xylene (0)	ND	0 0250	н	н	11	п	п	**	
Surrogate · a,a,a-Trifluorotoluene		86.2 %	80-1	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		118 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	18.1	10 0	и		"	"	"	н	
Carbon Ranges C28-C35	ND	10.0	н		п	н	н	81	
Total Hydrocarbons	18.1	10.0	17	**	"	"		14	
Surrogate 1-Chlorooctane		88.4 %	70-1	30	п	"	"	"	
Surrogate 1-Chlorooctadecane		93.2 %	70-1	30	n	n	n	"	
BH-2 20' (7A29002-02) Soil									
Benzene	0.138	0 0500	mg/kg dry	50	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	0.659	0.0500		"		н			
Ethylbenzene	1.62	0.0500	"	11		"	**	11	
Xylene (p/m)	5.39	0.0500	"	n	"	"	"	"	
Xylene (0)	1.78	0.0500	11	"	n		"		
Surrogate a,a,a-Trifluorotoluene		108 %	80-1	20	"	п	"	"	
Surrogate 4-Bromofluorobenzene		174 %	80-1	20	"	"	"	"	S-04
Carbon Ranges C6-C12	2360	50.0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	8340	50.0	n	**		"	"	U.	
Carbon Ranges C28-C35	850	50.0	"	**	"	"	**	н	
Total Hydrocarbons	11600	50.0	"	"	"	"	"	**	
Surrogate 1-Chlorooctane		26.0 %	70-1	30	"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		40.6 %	70-1	30	"	"	"	"	S-06
SW-1 15' (7A29002-03) Soil									
Benzene	0.274	0.0500	mg/kg dry	50	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	1.23	0.0500	"	"	n	н	"	**	
Ethylbenzene	6.39	0.0500	W		"	"	"	14	
Xylene (p/m)	2.39	0.0500	11		н	"	11		
Xylene (0)	1.04	0.0500	"			11		"	
Surrogate a,a,a-Trifluorotoluene		139 %	80-1	20	"	"	"	"	S-04
Surrogate 4-Bromofluorobenzene		206 %	80-1	20	"	"	"	"	S-04
Carbon Ranges C6-C12	2340	50 0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Environmental Lab of Texas			The res	ults in this r	eport apply to	the samples an	alyzed in accord	ance with the sample.	\$

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received in the laboratory This analytical report must be reproduced in its entirety,

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Page 2 of 14

Project. Eubank Sump Pump Project Number 2001-11136 Project Manager Daniel Bryant

## Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 15' (7A29002-03) Soil									
Carbon Ranges C12-C28	8300	50 0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C28-C35	995	50.0	н		н	"	"	**	
Total Hydrocarbons	11600	50 0	"		11			••	
Surrogate: 1-Chlorooctane		26 2 %	70-1	30	"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		25.0 %	70-1	30	n	"	"	"	S-06
SW-1 20' (7A29002-04) Soil									
Benzene	0.153	0.0500	mg/kg dry	50	EA73005	01/30/07	01/31/07	EPA 8021B	
Toluene	0.785	0 0500	"	"	н	**	u	11	
Ethylbenzene	1.97	0.0500	"		п	н	п	**	
Xylene (p/m)	7.08	0 0500	••	н	н	н	н	**	
Xylene (0)	2.28	0 0500			11	н	н	••	
Surrogate a,a,a-Trifluorotoluene		122 %	80-1	20	"	"	"	"	S-04
Surrogate 4-Bromofluorobenzene		185 %	80-1	20	"	"		"	S-04
Carbon Ranges C6-C12	2990	50 0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	10400	50.0					11	"	
Carbon Ranges C28-C35	1140	50 0				"	11	**	
Total Hydrocarbons	14500	50 0	н			"	"	"	
Surrogate 1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	298%	70-1	30	"	"	"	11	S-06
Surrogate I-Chlorooctadecane		46.6 %	70-1	30	"	"	"		S-06
SW-2 15' (7A29002-05) Soil									
Benzene	0.135	0.0500	mg/kg dry	50	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	0.479	0.0500	п	**	**	"	"	**	
Ethylbenzene	3.42	0.0500	11		**	"	11	*	
Xylene (p/m)	1.78	0.0500					11	**	
Xylene (0)	0.419	0 0500	n		н	"		55	
Surrogate. a,a,a-Trifluorotoluene		101 %	80-1	20	"	"	"	"	
Surrogate. 4-Bromofluorobenzene		160 %	80-1	20	п	"	"	"	S-04
Carbon Ranges C6-C12	1680	50 0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	9370	50 0	н	"	"	"	**	п	
Carbon Ranges C28-C35	1160	50 0	н	"	**	"	н	**	
Total Hydrocarbons	12200	50 0	п	"	и	"	н	11	
Surrogate 1-Chlorooctane		210%	70-1	30	"	"	"	"	S-06
Surrogate <sup>•</sup> 1-Chlorooctadecane		212%	70-1	30	"	"	"	"	S-06

-Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476 ProjectEubank Sump PumpProject Number.2001-11136Project ManagerDaniel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-2 20' (7A29002-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0 0250	"	"	"	11	"	n	
Ethylbenzene	ND	0.0250	n	u			"	"	
Xylene (p/m)	ND	0.0250	11	"		*1	п	"	
Xylene (o)	ND	0 0250	"	"	"	"	11	11	
Surrogate a,a,a-Trifluorotoluene		85.2 %	80-1	20	"	"	"	п	
Surrogate 4-Bromofluorobenzene		103 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	J [7.21]	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	J
Carbon Ranges C12-C28	99.2	10 0	"		"	н	и		
Carbon Ranges C28-C35	41.8	10 0	н	"	н	"	"	**	
Total Hydrocarbons	141	10.0	"		11	"		55	
Surrogate 1-Chlorooctane		90 4 %	70-1	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		94.8 %	70-1	30	"	"	"	"	
SW-3 15' (7A29002-07) Soil									
Benzene	0.195	0.0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	0.630	0 0250	"	"	11	"	н	11	
Ethylbenzene	4.81	0 0250	n	"			"	**	
Xylene (p/m)	2.55	0 0250	"	н		"	"		
Xylene (o)	0.501	0.0250	"	"	11	11	"	11	
Surrogate. a,a,a-Trifluorotoluene		122 %	80-1	20	"	"	"	"	S-04
Surrogate · 4-Bromofluorobenzene		211 %	80-1	20	"	"	"	"	S-04
Carbon Ranges C6-C12	2670	50.0	mg/kg dry	5	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	12100	50 0	"	н	"	"	"	н	
Carbon Ranges C28-C35	1300	50.0	н	н	"	"	н	"	
Total Hydrocarbons	16100	50 0	"		"	"	н		
Surrogate 1-Chlorooctane		28.4 %	70-1	30	"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		218%	70-1	30	"	"	"	"	S-06
SW-3 20' (7A29002-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA73005	01/30/07	01/31/07	EPA 8021B	
Toluene	ND	0 0250	11	п	н	11	"	88	
Ethylbenzene	ND	0.0250		"	**	"	n	**	
Xylene (p/m)	0.0362	0.0250	"	n	11	"	"	11	
Xylene (o)	ND	0.0250	11	"	H	u	"	н	
Surrogate a,a,a-Trifluorotoluene		87.5 %	80-1	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		115 %	80-1	20	"	"	"	n	
Carbon Ranges C6-C12	J [9.46]	10 0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	J
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ProjectEubank Sump PumpProject Number.2001-11136Project ManagerDamel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-3 20' (7A29002-08) Soil									
Carbon Ranges C12-C28	110	10.0	mg/kg dry	I	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C28-C35	41.1	10.0				"	"		
Total Hydrocarbons	151	10 0	**		н	"	**	**	
Surrogate 1-Chlorooctane		84.4 %	70-13	)	"	"	"	"	
Surrogate 1-Chlorooctadecane		94.4 %	70-13	)	n	n	n	"	
SW-4 20' (7A29002-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA73005	01/30/07	01/31/07	EPA 8021B	
Toluene	ND	0 0250	**	"	"	"		н	
Ethylbenzene	ND	0.0250		н	н	n	н	н	
Xylene (p/m)	ND	0.0250	"	н	"	н	**	"	
Xylene (o)	ND	0 0250		"	"	"	н		
Surrogate a,a,a-Trifluorotoluene		84.5 %	80-12	)	"	"	"	"	
Surrogate <sup>•</sup> 4-Bromofluorobenzene		110 %	80-12	9	п	"	"	"	
Carbon Ranges C6-C12	J [2.27]	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	J
Carbon Ranges C12-C28	135	10.0	н	и	n	n	w	н	
Carbon Ranges C28-C35	27.5	10 0	н	"	**	11	н	н	
Total Hydrocarbons	162	10.0	"	н	"	"	11	и	
Surrogate 1-Chlorooctane		87.6 %	70-13	9	"	"	"	"	
Surrogate 1-Chlorooctadecane		956%	70-13	0	"	"	"	"	
SW-5 20' (7A29002-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0 0250	n	"	"	"	"	"	
Ethylbenzene	ND	0.0250		"	"	н	"	н	
Xylene (p/m)	ND	0 0250		n	"	н	μ	81	
Xylene (0)	ND	0 0250	**		н	и		*1	
Surrogate · a,a,a-Trifluorotoluene		98 8 %	80-12	0	"	"	"	"	
Surrogate <sup>.</sup> 4-Bromofluorobenzene		119 %	80-12	0	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	μ	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	**		"	n	п	"	
Total Hydrocarbons	ND	10 0	"	н		н	н	"	
Surrogate 1-Chlorooctane		96.6 %	70-13	0	"	"	"	"	
Surrogate 1-Chlorooctadecane		105 %	70-13	0	"	"	"	"	

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476 Project Eubank Sump Pump Project Number. 2001-11136 Project Manager. Daniel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS 23' (7A29002-11) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0.0250	"	n	n	n	n	**	
Ethylbenzene	ND	0 0250	0	"	"	11		ч	
Xylene (p/m)	ND	0 0250	"	"	"	**	н	"	
Xylene (o)	ND	0 0250	"	"		n	"	н	
Surrogate a,a,a-Trifluorotoluene		87.0 %	80-12	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		116 %	80-12	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	11	"	"	
Carbon Ranges C28-C35	ND	10.0	11	n	n	"	u	"	
Total Hydrocarbons	ND	10.0	н	"	**	и	"	11	
Surrogate 1-Chlorooctane		91.8 %	70-13	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		96 2 %	70-13	30	"	"	"	"	
TS 28' (7A29002-12) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0 0250	ч	"	"	"	"	"	
Ethylbenzene	ND	0.0250		н	11		ч	n	
Xylene (p/m)	ND	0.0250	"	"		"	н	"	
Xylene (o)	ND	0 0250	"	"	"	н	"	11	
Surrogate a,a,a-Trifluorotoluene		96.2 %	80-12	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		116 %	80-12	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	**	п	"	"	"	11	
Carbon Ranges C28-C35	ND	10.0	н	11	"		"	**	
Total Hydrocarbons	ND	10.0	"		"	μ	11	"	
Surrogate 1-Chlorooctane		88.4 %	70-13	80	"	"	"	"	
Surrogate 1-Chlorooctadecane		93.8 %	70-13	80	"	"	"	"	
SW-6 15' (7A29002-13) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0.0250	"	•		н	и	"	
Ethylbenzene	ND	0 0250	11	"	"	"	"	**	
Xylene (p/m)	ND	0 0250		"		"	"	"	
Xylene (o)	ND	0 0250	11	11	н	"	"	11	
Surrogate a,a,a-Trifluorotoluene		91.0 %	80-12	20	"	"	"	"	
Surrogate 4-Bromofluorobenzene		119 %	80-12	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Environmental Lab of Texas	<u>_</u>		The man	les m thur a			- <del>, , _</del> ,		

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Project Eubank Sump Pump Project Number 2001-11136 Project Manager. Daniel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-6 15' (7A29002-13) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10 0	"	"		"	н	u.	
Total Hydrocarbons	ND	10 0	"		*	"	"	"	
Surrogate 1-Chlorooctane		91 2 %	70-130	)	"	"	"	ų	
Surrogate 1-Chlorooctadecane		964%	70-130	)	"	"	"	"	
SW-7 20' (7A29002-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA73005	01/30/07	01/31/07	EPA 8021B	
Toluene	J [0.0136]	0.0250	**	н		п	н	17	J
Ethylbenzene	0.0474	0.0250	"	н	n	н	"	n	
Xylene (p/m)	0.0526	0.0250	"	"	"	11	"	"	
Xylene (0)	0.0321	0 0250	"	н	"	н	н	"	
Surrogate <sup>•</sup> a,a,a-Trifluorotoluene		950%	80-120	)	"	"	"	"	
Surrogate 4-Bromofluorobenzene		102 %	80-120	)	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	н	н	"	11	11	
Carbon Ranges C28-C35	ND	10.0	"	**	"	"	и	n	
Total Hydrocarbons	ND	10 0	"		**	н	"	n	
Surrogate: 1-Chlorooctane		84 8 %	70-13	)	"	"	"	"	
Surrogate 1-Chlorooctadecane		946%	70-13	9	"	"	"	n	
SW-8 20' (7A29002-15) Soil	_						_		
Benzene	ND	0 0250	mg/kg dry	25	EA73005	01/30/07	01/30/07	EPA 8021B	
Toluene	ND	0 0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	•	"	
Xylene (p/m)	ND	0 0250	**	"	11	"		н	
Xylene (0)	ND	0 0250	"	"	"	"	"		
Surrogate a,a,a-Trifluorotoluene		852%	80-12	9	"	"	"	"	
Surrogate 4-Bromofluorobenzene		120 %	80-12	0	"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EA72904	01/29/07	01/31/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	н	н	"	н	п	"	
Carbon Ranges C28-C35	ND	10.0		н	"	11	n	11	
Total Hydrocarbons	ND	10.0			"	"	"		
Surrogate <sup>•</sup> 1-Chlorooctane		87.2 %	70-13	0	"	"	"	"	
Surrogate 1-Chlorooctadecane		952%	70-13	0	"	"	"	"	

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#### General Chemistry Parameters by EPA / Standard Methods

**Environmental Lab of Texas** 

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 20' (7A29002-01) Soil		·							
% Moisture	15.5	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	
BH-2 20' (7A29002-02) Soil									
% Moisture	11.6	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-1 15' (7A29002-03) Soil									
% Moisture	11.3	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-1 20' (7A29002-04) Soil									
% Moisture	12.7	01	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-2 15' (7A29002-05) Soil									
% Moisture	9.1	01	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-2 20' (7A29002-06) Soil									
% Moisture	15.4	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-3 15' (7A29002-07) Soil									
% Moisture	10.8	01	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-3 20' (7A29002-08) Soil									
% Moisture	11.5	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-4 20' (7A29002-09) Soil									
% Moisture	19.9	0 1	%	l	EA73001	01/29/07	01/30/07	% calculation	
SW-5 20' (7A29002-10) Soil									
% Moisture	12.8	01	%	1	EA73001	01/29/07	01/30/07	% calculation	
TS 23' (7A29002-11) Soil									
% Moisture	14.9	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	

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# ProjectEubank Sump PumpProject Number2001-11136Project ManagerDaniel Bryant

#### General Chemistry Parameters by EPA / Standard Methods

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS 28' (7A29002-12) Soil									
% Moisture	34.1	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-6 15' (7A29002-13) Soil									
% Moisture	13.5	0.1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-7 20' (7A29002-14) Soil									
% Moisture	11.4	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	
SW-8 20' (7A29002-15) Soil									
% Moisture	13.2	0 1	%	1	EA73001	01/29/07	01/30/07	% calculation	

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#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source	%REC	%REC	RPD	RPD Lumit	Notes
Batch FA72904 - Solvent Extraction (GC)										
Plank (FA72004 PI K1)					01/20/07	nalwad 01	/31/07			
Carbon Panges C6-C12	ND		ma/ka wet		01/2//07 -	thatyzeu. of				
Carbon Ranges C12-C28	ND	, 100	" "							
Carbon Ranges C12-C20	ND	10.0								
Total Hydrocarbons	ND	10 0	"							
Surrogate 1-Chlorooctane	46 7		mø/kø	50.0		93.4	70-130			
Surrogate 1-Chlorooctadecane	54 1		"	50 0		108	70-130			
LCS (EA72904-BS1)				Prepared.	01/29/07 A	Analyzed 01	/30/07			
Carbon Ranges C6-C12	477	10 0	mg/kg wet	500		95.4	75-125			
Carbon Ranges C12-C28	432	10 0	"	500		86 4	75-125		•	
Carbon Ranges C28-C35	ND	10 0	*	0 00			75-125			
Total Hydrocarbons	909	10 0	۳.	1000		90 9	75-125			
Surrogate 1-Chlorooctane	53 6		mg/kg	50 0		107	70-130			
Surrogate 1-Chlorooctadecane	478		"	50 0		95 6	70-130			
Calibration Check (EA72904-CCV1)				Prepared (	01/29/07 A	analyzed. 01	/31/07			
Carbon Ranges C6-C12	203		mg/kg	250		81.2	80-120			
Carbon Ranges C12-C28	225		"	250		90 0	80-120			
Total Hydrocarbons	428		"	500		85 6	80-120			
Surrogate 1-Chlorooctane	517		"	50 0		103	70-130			
Surrogate 1-Chlorooctadecane	54 5		"	50 0		109	70-130			
Matrix Spike (EA72904-MS1)	Sou	irce: 7A29002	2-10	Prepared (	01/29/07 A	analyzed: 01	/31/07			
Carbon Ranges C6-C12	540	10 0	mg/kg dry	573	ND	94 2	75-125			
Carbon Ranges C12-C28	510	10 0	н	573	ND	89 0	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	1050	10.0	"	1150	ND	91.3	75-125			
Surrogate 1-Chlorooctane	52 5		mg/kg	50 0		105	70-130			
Surrogate 1-Chlorooctadecane	48 6		"	50 0		97 2	70-130			

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#### Organics by GC - Quality Control

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA72904 - Solvent Extraction (GC)										
Matrix Spike Dup (EA72904-MSD1)	Sou	rce: 7A29002	-10	Prepared.	01/29/07	Analyzed. 01	1/31/07			
Carbon Ranges C6-C12	550	10 0	mg/kg dry	573	ND	96 0	75-125	1 89	20	
Carbon Ranges C12-C28	487	10 0	"	573	ND	85 0	75-125	4 60	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1040	10 0	11	1150	ND	90 4	75-125	0 991	20	
Surrogate 1-Chlorooctane	49 6		mg/kg	50 0		99.2	70-130			
Surrogate 1-Chlorooctadecane	508		"	50 0		102	70-130			

#### Batch EA73005 - EPA 5030C (GC)

Blank (EA73005-BLK1)				Prepared & Ana	lyzed. 01/30/07		
Benzene	ND	0 0250	mg/kg wet				
Toluene	ND	0 0250	"				
Ethylbenzene	ND	0 0250	"				
Xylene (p/m)	ND	0 0250					
Xylene (o)	ND	0 0250	"				
Surrogate a,a,a-Trifluorotoluene	36 1		ug/kg	40 0	90 2	80-120	
Surrogate 4-Bromofluorobenzene	46 8		"	40 0	117	80-120	
LCS (EA73005-BS1)				Prepared 01/30/	07 Analyzed 01	/31/07	
Benzene	1 36	0 0250	mg/kg wet	1 25	109	80-120	
Toluene	1 36	0 0250	**	1 25	109	80-120	
Ethylbenzene	1 20	0 0250		1 25	96 0	80-120	
Xylene (p/m)	2 46	0 0250	н	2 50	98 4	80-120	
Xylene (o)	1 03	0 0250	11	1 25	82 4	80-120	
Surrogate a,a,a-Trifluorotoluene	35 2		ug/kg	40 0	88 0	80-120	
Surrogate 4-Bromofluorobenzene	46 2		"	40 0	116	80-120	

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Project · Eubank Sump Pump Project Number · 2001-11136 Project Manager. Daniel Bryant

#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

		Reporting		Spike	Sourc	e	%REC		RPD	
Analyte	Result	Limit	Units	Level	Resul	t %REC	C Limits	RPD	Limit	Notes
Batch EA73005 - EPA 5030C (GC)										
Calibration Check (EA73005-CCV1)				Prepared	01/30/07	Analyzed	01/31/07			
Benzenc	55 7		ug/kg	50 0		111	80-120			
Toluene	55 5		"	50 0		111	80-120			
Ethylbenzene	58.1		"	50 0		116	80-120			
Xylenc (p/m)	98 0		H	100		98 0	80-120			
Xylenc (o)	43 9		"	50 0		87 8	80-120			
Surrogate a,a,a-Trifluorotoluene	37 9		"	40.0		94 8	80-120			
Surrogate 4-Bromofluorobenzene	46 1		"	40 0		115	80-120			
Matríx Spike (EA73005-MS1)	Sour	ce: 7A29002	2-01	Prepared.	01/30/07	Analyzed.	01/31/07			
Benzene	1 36	0 0250	mg/kg dry	1 48	ND	919	80-120			
Toluene	1 40	0 0250	"	1 48	ND	94.6	80-120			
Ethylbenzene	1.40	0 0250	ч	1 48	ND	94 6	80-120			
Xylenc (p/m)	2 64	0.0250	11	2 96	ND	89 2	80-120			
Xylene (0)	1 28	0 0250	**	1.48	ND	86 5	80-120			
Surrogate a,a,a-Trifluorotoluene	32 2		ug/kg	40 0		80 5	80-120			
Surrogate 4-Bromofluorobenzene	41.9		"	40 0		105	80-120			
Matrix Spike Dup (EA73005-MSD1)	Sour	ce: 7A29002	-01	Prepared:	01/30/07	Analyzed	01/31/07			
Benzenc	1 51	0 0250	mg/kg dry	1 48	ND	102	80-120	10 4	20	
Toluene	1 56	0 0250	**	1 48	ND	105	80-120	10 4	20	
Ethylbenzene	1.53	0 0250	"	1 48	ND	103	80-120	8 50	20	
Xylene (p/m)	2 97	0 0250		2 96	ND	100	80-120	114	20	
Xylene (o)	1.32	0 0250	"	1 48	ND	89 2	80-120	3.07	20	
Surrogate a,a,a-Trifluorotoluene	32.2		ug/kg	40.0		80 5	80-120			
Surrogate 4-Bromofluorobenzene	459		n	40 0		115	80-120			

Environmental Lab of Texas

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#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA73001 - General Preparation (Prep	)									
Blank (EA73001-BLK1)				Prepared (	)1/29/07 A	nalyzed 01	/30/07			
% Solids	100		%							
Duplicate (EA73001-DUP1)	Sou	rce: 7A26014-	01	Prepared. (	)1/29/07 A	nalyzed. 01	/30/07			
% Solids	89 5		%		96 3			7 32	20	
Duplicate (EA73001-DUP2)	Sou	rce: 7A29002-	02	Prepared (	01/29/07 A	nalyzed. 01	/30/07			
% Solids	88 4		%		88 4			0 00	20	
Duplicate (EA73001-DUP3)	Sou	rce: 7A29011-	-01	Prepared (	01/29/07 A	nalyzed 01	/30/07			
% Solids	86 7		%		85 6			1 28	20	
Duplicate (EA73001-DUP4)	Sou	rce: 7A29022-	·04	Prepared (	)1/29/07 A	nalyzed 01	/30/07			
% Solids	82 5		%		82 9			0 484	20	

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#### **Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
- J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By-

Biron

Date: \_\_\_\_\_ 2/2/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

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Page 14 of 14

# Chain of Custody Form

Environmental	Plus,	Inc.
2100 Avenue O, Eunice, NM	88231	

3

P.O. Box 1558, Eunice, NM 88231

Lab: ELT

(505) 394-3481 FAX: (505) 394-2601

(303) 334 0401	impany Name Environmental Plus, Inc.														r								-		
Company Name	Environmental Plus	s, In	Ċ.								E	<u>311 (5</u>	0				A	NA	<u>SYS</u>	ISF	<u>E@</u>	<u>UE</u>	31		) C
EPI Project Mana	ager Jason Stegemoller												1												
Mailing Address	P.O. BOX 1558											Ť													
City, State, Zip	Eunice New Mexico	882	231							113		ŵ													
EPI Phone#/Fax#	<del>;</del> 505-394-3481 / 505-	394-	260	1						Ę					ļ										
<b>Client Company</b>	Plains All American I	Pipel	ine							<u>i</u>		AL: MERI	NS CAN								{				
Facility Name	Eubank Sump Pum	p				PIPELINE, L.P.												i.							
Location	UL-A, Sec. 22, T 21	S, R	1 37	Е				Att	n: E	INV	Acc	ruoc	nts Receivabl	е								l			
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19 5	SW-2 (15')	X	1			Х					Х		26-Jan-07	8:51	X	X							$\square$	$\square$	
· C (C) 6	SW-2 (20')	X	1			X					X		26-Jan-07	8:57	Х	X									
101 7	SW-3 (15')	X	1		Γ	X			ľ.	Î	Х		26-Jan-07	9:06	Х	X							Π		
, 08 8	SW-3 (20')	X	1			X					X		26-Jan-07	9:13	X	X									
-69 9	SW-4 (20')	X	1			X				ĺ	X		26-Jan-07	9:20	X	X							$\square$		
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<b>Company Name</b>	ł	<b>Environmental Plus</b>	, Inc	с. —								E		O				A	NAL	YS	SR	EQ	JES	I		
EPI Project Mana	ager .	Jason Stegemoller	_																						Т	7
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City, State, Zip	E	<b>Eunice New Mexico</b>	882	231							10															ł
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<b>Client Company</b>	F	Plains All American P	ipel	ine							<u>i</u>	<u>' L.</u> LL A	<u>\    </u> .(CR)	<u>NS</u> CAN		1										
Facility Name	6	Lubank Sump Pum	þ								Ŧ	IPEI.	INÉ,	L.P.											ł	
Location UL-A, Sec. 22, T 21 S, R 37 E									Atti	1: E	NV	Acc	our	nts Receivab	le	{										
Project Reference 2001-11136							PO Box 4648,																			
EPI Sampler Name Jacob Melancon							Houston, TX 77210-4648																			
							MAT	RIX			PR	ESE	RV.	SAMPLI	NG											
LAB I.D. 1429002	S/	AMPLE I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	отнея:	ACID/BASE	ICE/COOL	отнея	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO₄ <sup>≖</sup> )	ЬН	гсгр	OTHER >>>	РАН			
~1] 1	TS (23')		Tx	1			X					x		26-Jan-07	9:36	x	x				_			-1	-	-
12 2	TS (28')		X	1			Х					X		26-Jan-07	9:40	X	X								-	-
13 3	SW-6 (15')		x	1			Х				_	X		26-Jan-07	10:58	X	X								Ť	
14 4	SW-7 (20')		X	1			X					X		26-Jan-07	11:10	X	X									
15 5	SW-8 (20')		X	1			Χ					X		26-Jan-07	11:15	X	X									
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# Environmental Lab of Texas

Phina Variance/ Corrective Action Report- Sample Log-In

lient:	Envivormenta	e Plus
)ate/ Time:	01-27-07	11:35
ab ID # :	74271002	
titials:	Bm	

### Sample Receipt Checklist

				C	lient Initials
!1	Temperature of container/ cooler?	Ves	No	<u>३</u> ० °C	
-2	Shipping container in good condition?	Yes )	No		
:3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
:4	Custody Seals intact on sample bottles/ container?	Yes>	No	Not Present	
<u>45</u>	Chain of Custody present?	(Yes>	No		
<sup>4</sup> 6	Sample instructions complete of Chain of Custody?	(Yes)	No		
ł7	Chain of Custody signed when relinquished/ received?	Yes	No		
18	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
<i>‡</i> 9	Container label(s) legible and intact?	-Yes>	No	Not Applicable	
ŧ10	Sample matrix/ properties agree with Chain of Custody?	(res)	No		
ŧ11	Containers supplied by ELOT?	Yes	No		
‡12	Samples in proper container/ bottle?	Yes	No	See Below	
¥13	Samples properly preserved?	Yes	No	See Below	
<del>7</del> 14	Sample bottles intact?	Yes	No		
¥15	Preservations documented on Chain of Custody?	Xes)	No	Ţ <u></u>	
<b>#</b> 16	Containers documented on Chain of Custody?	Yes	No		
<del>#</del> 17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
<b>#18</b>	All samples received within sufficient hold time?	Yes	No	See Below	
<del>#</del> 19	Subcontract of sample(s)?	Yes	No	Not Applicable	
<del>#</del> 20	VOC samples have zero headspace?	Yes-	≥ No	Not Applicable	

## Variance Documentation

Contact:	Contacted by:	Date/ Time:	
Regarding:			
Corrective Action Taken:			
	· · · · · · · · · · · · · · · · · · ·	······································	
· <u>····································</u>		······	

Check all that Apply:

#### See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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# Analytical Report

## **Prepared for:**

Daniel Bryant Plains All American EH & S 1301 S. County Road 1150 Midland, TX 79706-4476

Project: Eubank Sump Pump Project Number: 2001-11136 Location: UL-A, Sec. 22, T21S, R37E

Lab Order Number: 7B21013

Report Date: 02/27/07

Plains All American EH & S 1301 S County Road 1150 Midland TX, 79706-4476 ProjectEubank Sump PumpProject Number.2001-11136Project ManagerDaniel Bryant

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-2A (23')	7B21013-01	Soil	02/20/07 12.30	02-21-2007 15 45
SW-4A (10')	7B21013-02	Soil	02/20/07 12.35	02-21-2007 15.45
SW-8A (10')	7B21013-03	Soil	02/20/07 12 40	02-21-2007 15.45

Project Eubank Sump Pump Project Number. 2001-11136 Project Manager. Daniel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2A (23') (7B21013-01) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EB72303	02/23/07	02/24/07	EPA 8021B	
Toluene	ND	0.0250	"	"	11	н		**	
Ethylbenzene	ND	0.0250	"	"	н	"	н	11	
Xylene (p/m)	ND	0.0250	"	"	"		"	**	
Xylene (o)	ND	0.0250	"		"	н	u	"	
Surrogate a,a,a-Trifluorotoluene		894%	75-1.	25	"	"	"	"	
Surrogate 4-Bromofluorobenzene		109 %	75-1.	25	"	"	"	"	
Carbon Ranges C6-C12	44.8	10.0	mg/kg dry	1	EB72202	02/22/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	165	10.0		11		"	п	"	
Carbon Ranges C28-C35	32.6	10.0	"		"	"		н	
Total Hydrocarbons	242	10.0	"	"	"	н	, II	"	
Surrogate 1-Chlorooctane		120 %	70-1.	30	n	"	"	"	
Surrogate 1-Chlorooctadecane		129 %	70-1.	30	"	"	"	"	
SW-4A (10') (7B21013-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B	
Toluene	ND	0 00200		11	"	**	11		
Ethylbenzene	ND	0.00200	0	"			"		
Xylene (p/m)	ND	0 00200	"	н		н	"	"	
Xylene (o)	ND	0 00200		11	**	**	"	"	
Surrogate a,a,a-Trifluorotoluene		800%	75-12	25	"	"		"	
Surrogate 4-Bromofluorobenzene		90.0 %	75-12	25	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB72202	02/22/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	н		"	"	n	"	
Carbon Ranges C28-C35	ND	10.0	"	n	"	"	11	"	
Total Hydrocarbons	ND	10.0	"	11	11	11	"	11	
Surrogate 1-Chlorooctane		122 %	70-1.	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		129 %	70-1.	30	"	n	"	"	

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Project Eubank Sump Pump Project Number. 2001-11136 Project Manager. Daniel Bryant

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-8A (10') (7B21013-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72303	02/23/07	02/24/07	EPA 8021B	
Toluene	ND	0.00200	u	н	"	н	"		
Ethylbenzene	ND	0.00200	11	"	"	н	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	н	н	
Xylene (o)	ND	0.00200	**			"	n	21	
Surrogate a,a,a-Trifluorotoluene		79.2 %	75-1	25	"	"	"	"	
Surrogate 4-Bromofluorobenzene		854%	75-1	25	"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EB72202	02/22/07	02/24/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	н	н	"	*	н	
Carbon Ranges C28-C35	ND	10.0	н		"	Ħ	н	н	
Total Hydrocarbons	ND	10.0	"				"	11	
Surrogate 1-Chlorooctane		111 %	70-1	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		123 %	70-1	30	n	"	"	"	

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#### General Chemistry Parameters by EPA / Standard Methods

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2A (23') (7B21013-01) Soil									
% Moisture	19.6	0.1	%	1	EB72301	02/22/07	02/23/07	% calculation	
SW-4A (10') (7B21013-02) Soil									
% Moisture	11.1	0.1	%	1	EB72301	02/22/07	02/23/07	% calculation	
SW-8A (10') (7B21013-03) Soil									
% Moisture	13.9	0 1	%	1	EB72301	02/22/07	02/23/07	% calculation	

Environmental Lab of Texas

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#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72202 - Solvent Extraction (GC)										
Blank (EB72202-BLK1)	_			Prepared	02/22/07 Ai	nalyzed 02	/23/07			
Carbon Ranges C6-C12	ND	10 0	mg/kg wet						····	
Carbon Ranges C12-C28	ND	10 0	н							
Carbon Ranges C28-C35	ND	10 0	"							
Total Hydrocarbons	ND	10 0	н							
Surrogate 1-Chlorooctane	58 3		mg/kg	50.0		117	70-130			
Surrogate 1-Chlorooctadecane	53 5		"	50 0		107	70-130			
LCS (EB72202-BS1)				Prepared	02/22/07 A	nalyzed 02	2/23/07			
Carbon Ranges C6-C12	609	10.0	mg/kg wet	500		122	75-125			
Carbon Ranges C12-C28	503	10 0	"	500		101	75-125			
Carbon Ranges C28-C35	ND	10.0	н	0 00			75-125			
Total Hydrocarbons	1110	10 0	"	1000		111	75-125			
Surrogate 1-Chlorooctane	64 4		mg/kg	50 0		129	70-130			
Surrogate 1-Chlorooctadecane	536		"	50 0		107	70-130			
Calibration Check (EB72202-CCV1)				Prepared	02/22/07 A	nalyzed. 02	2/26/07			
Carbon Ranges C6-C12	217		mg/kg	250		86 8	80-120			
Carbon Ranges C12-C28	216		н	250		86 4	80-120			
Total Hydrocarbons	433		н	500		86 6	80-120			
Surrogate 1-Chlorooctane	60 9		"	50 0		122	70-130		_	
Surrogate 1-Chlorooctadecane	61 2		"	50 0		122	70-130			
Matrix Spike (EB72202-MS1)	Soi	rce: 7B21012	2-17	Prepared.	02/22/07 A	nalyzed. 02	2/24/07			
Carbon Ranges C6-C12	618	10 0	mg/kg dry	512	ND	121	75-125			
Carbon Ranges C12-C28	511	10 0	11	512	ND	99 8	75-125			
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125			
Total Hydrocarbons	1140	10 0		1020	ND	112	75-125			
Surrogate 1-Chlorooctane	63 4		mg/kg	50 0		127	70-130			
Surrogate 1-Chlorooctadecane	595		"	50.0		119	70-130			

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#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch EB72202 - Solvent Extraction (GC)

Matrix Spike Dup (EB72202-MSD1)	Sourc	e: 7B21012	-17	Prepared. 0	2/22/07 A	nalyzed. 0	2/24/07			
Carbon Ranges C6-C12	631	10 0	mg/kg dry	512	ND	123	75-125	1 64	20	-
Carbon Ranges C12-C28	504	10 0		512	ND	98 4	75-125	1 41	20	
Carbon Ranges C28-C35	ND	10.0	"	0 00	ND		75-125		20	
Total Hydrocarbons	1140	10 0	11	1020	ND	112	75-125	0 00	20	
Surrogate 1-Chlorooctane	60 4		mg/kg	50 0		121	70-130			
Surrogate 1-Chlorooctadecane	57 1		"	50.0		114	70-130			

#### Batch EB72303 - EPA 5030C (GC)

Blank (EB72303-BLK1)				Prepared & Ana	lyzed 02/23/07		
Benzene	ND	0 00100	mg/kg wet	· · · · · · · · · · · · · · · ·			 
Toluenc	ND	0 00100	n				
Ethylbenzene	ND	0 00100	"				
Xylene (p/m)	ND	0.00100					
Xylene (o)	ND	0 00100	"				
Surrogate a,a,a-Trifluorotoluene	40.8		ug/kg	50 0	81 6	75-125	 
Surrogate 4-Bromofluorobenzene	46 5		"	50 0	93 0	75-125	
LCS (EB72303-BS1)				Prepared & Anal	lyzed. 02/23/07		
Benzene	0 0519	0 00100	mg/kg wet	0 0500	104	80-120	
Tolucne	0 0468	0.00100	н	0 0500	93 6	80-120	
Ethylbenzene	0 0456	0 00100	11	0 0500	91 2	80-120	
Xylene (p/m)	0 0938	0 00100		0 100	93.8	80-120	
Xylene (o)	0 0420	0 00100		0 0500	84 0	80-120	
Surrogate a,a,a-Trifluorotoluene	45 7		ug/kg	50 0	914	75-125	 
Surrogate 4-Bromofluorobenzene	52 4		"	50 0	105	75-125	

Environmental Lab of Texas

A Xenco Laboratories Company

Project. Eubank Sump Pump Project Number 2001-11136 Project Manager. Daniel Bryant

#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72303 - EPA 5030C (GC)										
Calibration Check (EB72303-CCV1)				Prepared (	02/23/07 A	nalyzed. 02	/24/07			
Benzene	44 2		ug/kg	50 0		88 4	80-120		~	
Toluene	40 8		11	50 0		81.6	80-120			
Ethylbenzene	40 6		н	50 0		81.2	80-120			
Xylene (p/m)	82 0		*	100		82 0	80-120			
Xylene (o)	40 0		"	50 0		80 0	80-120			
Surrogate a,a,a-Trifluorotoluene	413		"	50 0		82 6	75-125			
Surrogate 4-Bromofluorobenzene	43 ()		"	50 0		86 0	75-125			
Matrix Spike (EB72303-MS1)	Sou	rce: 7B21003	5-01	Prepared.	02/23/07 A	nalyzed 02	/26/07			
Benzene	0 0949	0 00200	mg/kg dry	0 103	ND	92 1	80-120			
Toluenc	0 0854	0 00200		0 103	ND	82 9	80-120			
Ethylbenzene	0 0836	0 00200	ч	0 103	ND	81.2	80-120			
Xylene (p/m)	0 171	0 00200	"	0 206	ND	83 0	80-120			
Xylene (o)	0 0837	0 00200	"	0 103	ND	813	80-120			
Surrogate a,a,a-Trifluorotoluene	40 2		ug/kg	50 0		80.4	75-125			
Surrogate 4-Bromofluorobenzene	46 0		"	50 0		92 0	75-125			
Matrix Spike Dup (EB72303-MSD1)	Sou	rce: 7B21003	8-01	Prepared.	02/23/07 A	nalyzed 02	2/26/07			
Benzene	0 0911	0 00200	mg/kg dry	0 103	ND	88 4	80-120	4 10	20	
Toluene	0 0844	0 00200	"	0 103	ND	819	80-120	121	20	
Ethylbenzene	0 0825	0 00200	п	0.103	ND	80 1	80-120	1 36	20	
Xylene (p/m)	0 170	0 00200	"	0 206	ND	82 5	80-120	0 604	20	
Xylene (o)	0 0824	0 00200	н	0 103	ND	80 0	80-120	1 61	20	
Surrogate a,a,a-Trifluorotoluene	42 1		ug/kg	50 0		84 2	75-125			
Surrogate 4-Bromofluorobenzene	45 1		"	50 0		90.2	75-125			

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

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#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

· · · · · · · · · · · · · · · · · · ·	· · · · ·									
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72301 - General Preparation (Prep)										
Blank (EB72301-BLK1)				Prepared. (	)2/22/07 <i>A</i>	Analyzed. 02	/23/07			
% Solids	100		%							
Duplicate (EB72301-DUP1)	Source	e: 7B21012-	01	Prepared (	)2/22/07 A	Analyzed 02	/23/07			
% Solids	92.4		%		92 1			0 325	20	
Duplicate (EB72301-DUP2)	Source	e: 7B21014-(	02	Prepared 0	)2/22/07 A	Analyzed. 02	/23/07			
% Solids	92 1		%		92 3			0 217	20	

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#### Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

Date: 02.

Brent Barron, Laboratory Director/Corp. Technical Director James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 1 of 1

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Company Name	Environmental Plus	s, Ind				<b>3</b> 59	40.2%				S E	3il 🕅	0				A	NAL	YS	SF	EQ	UES	ST®		8
EPI Project Manage	er Jason Stegemoller								-240 000									Γ						Ī	Ĩ
Mailing Address	P.O. BOX 1558											¥													
City, State, Zip	Eunice New Mexico	882	231							~		Ś.		i								{			l
EPI Phone#/Fax#	505-394-3481 / 505-	394-	260	1						Ľ															
Client Company	Plains All American	Pipel	ine	_	-					-   surged	<u> 21.</u>	$\underline{A1}$	<u>NS</u>												
Facility Name	Eubank Sump Pur	ip								1	TPE	INE.	L.P.				-								
Location	UL-A, Sec. 22, T 21	S, R	37	E				Atti	n: F	NV	Acc	cou	nts Receivabl	e	ļ		2								
Project Reference	2001-11136									F	POE	Box	4648.	•											
EPI Sampler Name	Kirt Tyree								Но	ust	on.	TX :	77210-4648												
			Γ	<u> </u>		MA	TRIX			PR	ESE	RV.	SAMPLI	NG	1	ļ									
LAB 1.D. 7821013	SAMPLE I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	ТІМЕ	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4 <sup>°</sup> )	pH	TCLP	OTHER >>>	РАН			
0 1 <b>B</b> F	1-2A (23')	X	1	<b>1</b>		Х					X		20-Feb-07	12:30	İx	X	ſ	Î				<u> </u>	1	1	Г
0 2 SV	V-4A (10')	X	1			Х					X	Ì	20-Feb-07	12:35	X	X		l			1		Τ		Γ
-	V-8A (10')	X	1		1	Х				Ť	X	1	20-Feb-07	12:40	X	X	Î	Γ		Ī	Γ	Γ	Γ	1	Γ
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Sampler Relinquished:	Date <u>2 · 2 j · 0 7</u> Time <i>I</i> 5 : 0 5	Rec	aived	By:							E-n REN	nail r MARKS	<b>esults to: jsteg</b> e 3. Please analyze AS	emoller@e GAP	envp	lus.r	net 8	k cjre	eyno	lds	⊉paa	alp.c	om	<u> </u>	<u></u>
Relinquished by:	Dale (22 - 2.1 - 077 Tune TS 45	Rec	eived Xa	By: (I	ab sta 277	ff) Kr	Jr Jr	w	7			Чo	zglasj w/1	abel/se	۹							Į	5 (	С	
Mm-	Sam		1 & Inf	act No			G		. су.	,															

**Environmental Plus, Inc.** 

Chain of Custody Form

# Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

lient	Plains 1/L / EPI	
late/ Time:	02-21-07@1545	
ab ID # :	7821013	
nitials:	JAM	

13

## Sample Receipt Checklist

			(	Client Initials
1 Temperature of container/ cooler?	(Yes)	No	1.5 °C	
2 Shipping container in good condition?	Ves	No		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 . Custody Seals intact on sample bottles/ container?/ tabel	(Yes )	No	Not Present	[]
5 Chain of Custody present?	(Yes)	No		
6 Sample instructions complete of Chain of Custody?	Yes	No		
7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
11 Containers supplied by ELOT?	Yes	No	· · · · · · · · · · · · · · · · · · ·	
12 · Samples in proper container/ bottle?	Yes	No	See Below	, The second sec
13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		1
#15 Présérvations documented on Chain of Custody?	Yes	No		· ·
#16 Containers documented on Chain of Custody?	Nes	No		· ·
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	\des \	No	See Below	1
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	(Yes	No	Not Applicable	
			· · · · · · · · · · · · · · · · · · ·	

Variance Documentation

Contact: Regarding:	,	Contacted by:	, 	Date/ Time:	
	······································	·····			
Corrective A	ction Taken:			· ·	
	······		· · · · · · · · · · · · · · · · · · ·		······
				······	

Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event

# **APPENDIX II**

# **PROJECT PHOTOGRAPHS**



Photo #1: Looking across crude oil release (2002).



Photo #2: Looking easterly across crude oil release (2002).


*Photo #3*: Looking northerly across western excavation area.





*Photo #5*: Looking southerly across excavation at installation of impermeable barrier.



*Photo #6*: Looking southeasterly across excavation at installation of impermeable barrier.



*Photo #7*: Looking easterly across excavation during backfilling activities.



*Photo #8*: Looking northerly across excavation during backfilling activities.





Photo #10: Looking southeasterly across site after completion of backfilling.

## APPENDIX III COPY OF INITIAL NMOCD C-141 FORM AND

1

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## FINAL NMOCD C-141 FORM

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-141 Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

## Release Notification and Corrective Action OPERATOR "INFORMATION ONLY NON-REPORTABLE" Initial Report

Name of Co	mpany	GOTT Energ	e		Contact Frank Hernandez							
Address		JOIT LINE										
5805 East	Highway	80 / P.O. Bo	Midland, TX 79	703	915.638.3799							
Facility Nat	ne				Facility Type							
	Eubanl	s Pump Suc	#2002-10238		4" Crude Oil suction line on pump							
Surface Ow	mer		Mineral C	Owner				Lease N	Lease No.			
C.A. Bettis												
LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the	North	n/South Line	Feet from the	East/V	Vest Line	County: Lea		
A	22	215	37E							Lat.: 32°28'10.8"N Lon:103°08'43.9"W		
NATURE OF RELEASE												
Type of Release							Volume of Release			Volume Recovered		
- , , , , , , , , , , , , , , , , , , ,	Crud			50 bbls			45 bbls					
Source of Re	lease 4" S			Date and H Sometime	Hour of Occurrence before 9-4-02	e	Date and Hour of Discovery 9-4-02 1:00 PM					
Was Immedia	ate Notice C			If YES, To Whom?								
Yes [				Paul Sheeley, Hobbs NMOCD (9-12-02)								
By Whom? Pat McCasland (Environmental Plus, Inc.)						Date and Hour: NMOCD notified on 9-12-02 8:00 AM						
Was a Watercourse Reached? Yes No						If YES, Volume Impacting the Watercourse.						
If a Watercourse was Impacted, Describe Fully.*												
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
The cause of the release was internal/external corrosion. The line has been replaced. Contaminated soil is stockpiled on a plastic barrier on site awaiting remediation.												
Describe Area Affected and Cleanup Action Taken.*												
Spill Area = ~2,387 tt <sup></sup> 50'X 50'. Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated												
invoce approved racinty. The site will be defined and remediated,												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and												
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger												
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability												
should their operations have taken to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other												
federal, state, or local laws and/or regulations.												
OIL CONSERVATION DIVISION												
Signature:	20	WK 1700	more			( log 0 - 0 approval lur						
Printed Name	- Frank He	mandez	- · · · · · · · · · · · · · · · · · · ·		Approved by District Supervisor John man Kaller							
- inited i tallit	, i fully file				Linkal Convision, Univery							
Title: Distric	t Environm	ental Supervi:	sor			Approval Date: 1/18/07/ Expiration Date:						

Conditions of Approval:

Attached

 Date:
 September 12, 2002
 Phone: 915.638.3799

 \* Attach Additional Sheets If Necessary

District I 1625 N French D District II 1301 W Grand A	rr, Hobbs, N venue Artes	M 88240		State Energy Miner	New Mexico and Natural Re	Form C-141 Revised October 10, 2003							
District III 1000 Rio Brazos 4 District IV 1220 S St Franci	Road, Aztec, s Dr , Santa	, NM 87410 Fe, NM 87505		Oil Con 1220 So Santa	serv outh 1 Fe	ation Divisi/ St. Francis I , NM 87505	on Dr.	2 Copies to appropriate ict Office in accordance with Rule 116 on back side of form					
Release Notification and Corrective Action													
OPERATOR Initial Report Sinal Report													
Name of Co	ompany:	Plains Pipe	line	ND ( 000 (0		Contact: Camille Reynolds							
Address: 3	Address: 3112 W. Hwy 82, Lovington, NM 88260						Telephone No.: (505) 396-3341						
Facinty Na	me: Euoa	anks Pump/.	Eudanks	Suction Line		acinty Type	:4 Crude on	suction line c	on pump				
Surface Ow	ner: Cha	arlie Bettis		Mineral Ov	vnei	••		Lease N	Lease No.: 1RP #1211				
LOCATION OF RELEASE													
Unit Letter A	Section 22	Township 21	Range 37	Feet from the	Nor	th/South Line	Feet from the	East/West Li	ne	County Lea			
Latitude: <u>N 32° 28' 10.8"</u> Longitude: <u>W 103° 08' 43.9"</u>													
NATURE OF RELEASE													
Type of Relea	se: Crude	Oil				Volume of Rel	ease: 50 bbls	Volume R	Volume Recovered: 45 bbls				
Source of Rela	ease: 4" St	eel Pipeline				Date and Hour	: Date and 1	Date and Hour of Discovery:           4 September 2002         13:00-hrs-					
Was Immedia	te Notice (	Given?	Yes 🗌	No 🗌 Not Requi	red	d If YES, To Whom? Paul Sheeley, NMOCD-Hobbs							
By Whom? Pa	t McCasla	nd, Environme	ental Plus,	, Inc.		Date and Hour: 12 September 2002 08:00 hrs							
Was a Watero	course Rea	ched?	Yes 🛛 1	No		Not Applicable			233	NUG 2001 ed	5		
If a Watercou	rse was In	npacted, Desc	ribe Fully	y.* Not Applicable					Re Hoods				
Describe Caus	se of Probl	em and Rem	edial Acti	on Taken.* Internal	/Exte	rnal corrosion of	f pipeline. Line w	as replaced.	154		.07		
approximately NMOCD approdecommissioni Site remedial g I hereby certify and regulations	2,115-ft2 t oval was gr ing of the p goals: TPH- that the m s all operate	o a maximum anted to place oump. Lining r 1,000 mg/Kg; formation giv ors are require	depth of 2 a vertical naterial co BTEX-50 en above	23-feet bgs. Impacte l liner to isolate impa onsisted of 20-mil po <u>0mg/Kg; benzene-10</u> is true and complete t and/or file certain r	d soi icted icted iyeth mg/ to th eleas	<ul> <li>cubic yards (it l was transported soils within exca ylene placed alo Kg.</li> <li>e best of my kno</li> <li>e notifications an</li> </ul>	to Plains- Lea S vation sidewalls ng the north and wledge and under nd perform correc	soil was excaval tation Landfarm underlying pum west sidewalls o rstand that pursu- tive actions for	for treating p facility ur f the pump pant to NMC releases wh	area of the second sec	UV		
operator of liat surface water, 1 for compliance	c health or pility should human hea with any c	the environmed d their operation the or the environmed other federal, s	ent. The a ons have f ronment. state, or lo	failed to adequately i In addition, NMOCI cal laws and/or regul	l rep nves D acc latior	ort by the NMOC tigate and remed: eptance of a C-1	2D marked as "Fi late contaminatio 41 report does no	n that pose a thr ot relieve the ope	s not relieve eat to groun erator of res	e the id water, ponsibility			
Signature:	am	lle 4	$\sum_{i \in \mathcal{L}}$	nolch		OIL CONSERVATION DIVISION							
Printed Name	: Camille	Reynolds	L					de -	liso				
Title: Remedia	tion Coord	linator			A	pproval Date:	Date: -						
E-mail Addres	ss: cjreynol	lds@paalp.com	n 05) 396-3	341	(	Conditions of Ap	pproval:		Attached 🔲				
* Attach Add	ditional	Sheets If	Necessa	ary							I		