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REPORTS

DATE:

6/2006

SOIL CHARACTERIZATION REPORT AND REMEDIATION PLAN

LIVINGSTON LINE – BOB McCASLAND
PLAINS REF: 2001 - 11043
(COMPANY #231735)

UL-K (NE¼ OF THE SW¼) OF SECTION 03, T 21 S, R 37 E

~5 MILES NORTH-NORTHEAST OF EUNICE,

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 30' 18.8"

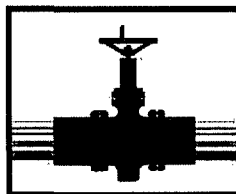
LONGITUDE: W 103° 09' 6.48"

JUNE 2006

PREPARED BY:

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

PREPARED FOR:



PLAINS
ALL AMERICAN



Distribution List

Soil Characterization Report and Remediation Plan

Plains Pipeline, L.P. Livingston Line - Bob McCasland (Ref. #2001 - 11043)

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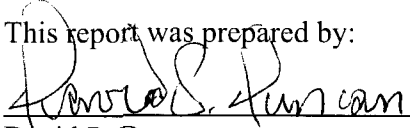
Standard of Care

Soil Characterization Report and Remediation Plan

Livingston Line – Bob McCasland
Ref. # 2001 - 11043

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 the 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 arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental and/or natural sciences.

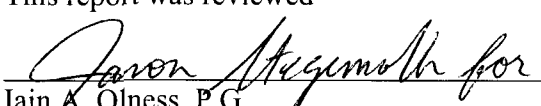
This report was prepared by:



David P. Duncan
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6/30/06
Date

This report was reviewed



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Technical Manager

June 30, 2006
Date

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1.0 Introduction

This report provides the New Mexico Oil Conservation Division (NMOCD) with a characterization of impacted soils at the Livingston Line-Bob McCasland release site. Included is a proposal to remove shallow impacted soil, isolate deeper impacted soil with a liner and closure of the open excavation area.

2.0 Background

The Plains All American Pipeline, L.P. (Plains) Livingston Line-Bob McCasland release site (Ref. #2001-11043) is located in Unit Letter-K (NE $\frac{1}{4}$ of the SW $\frac{1}{4}$) of Section 03, Range 37 East, Township 21 South at Latitude 32°30'18.8"N and Longitude 103°09'6.48"W. More specifically, it is located approximately five (5) miles north-northeast of Eunice, Lea County, New Mexico on property owned by Bob McCasland (reference *Figures 1 and 2*). Geographically, the release site lies within the Monument Draw drainage feature within southern Lea County. The regional slope is to the southwest and the drainage patterns that have developed are consequent to the slope. No residences exist within a 1,000-foot radius of the release site. However, the foundation and piping of an abandoned Shell Pipeline pump station are located within the vicinity and an abandoned four-inch (4") diameter steel pipeline traverses the site (reference *Figure 3*).

On July 13, 2001, approximately four-barrels (4-bbbls) of crude oil were released from the Livingston Ridge to Hugh four-inch (4") diameter steel pipeline. The release covered an area of approximately 1,600 square feet (ft²) of pipeline right-of-way and a caliche road. During initial investigative activities conducted from August 16 thru 22, 2001 it was determined groundwater, located approximately thirty feet (30 ft) below ground surface (bgs), had been impacted. Based on investigative activities completed with respect to this release site, the groundwater impacts are likely due to historical releases associated with the abandoned pumping station formerly located adjacent to the release site.

3.0 Field Activities

After discovery of the release and prior to remedial activities, seventeen (17) soil borings were advanced within the confines of the release area between August 16 and 22, 2001 (reference *Figure 4*). The soil borings were advanced to various depths to delineate vertical and lateral extent of hydrocarbon-impacted soil.

Based on field and analytical results of soil samples collected during initial delineation activities, three (3) additional soil borings (SB-E, SB-N and SB-W) were advanced around the perimeter of the abandoned Shell Pipeline pump station foundation on November 21, 2001 (reference *Figure 4*). These soil borings were advanced around the foundation to further delineate extent of hydrocarbon-impacted soil.

During December 2001, approximately 11,445 cubic yards (yds³) of hydrocarbon impacted soil were excavated and stockpiled on-site. The excavated area encompassed a surface area



of approximately 13,600 square feet (ft²) and extended to a vertical depth ranging from twelve (12) feet in the southerly sector to twenty-six (26) feet in the northerly sector. Earthen berms were constructed around the release area to minimize runoff from the stockpiled soil and inundation of the excavation. Analytical results for soil samples collected from the excavation indicated the presence of contaminants exceeding New Mexico Oil Conservation Division (NMOCD) remedial guideline limits (reference *Table 2* and *Figure 5*).

After confirming groundwater had been impacted, three (3) groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed around the release area to delineate the extent and magnitude of contamination plus groundwater gradient in the area (reference *Figure 3*). Realizing groundwater was above New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards, three (3) additional groundwater monitoring wells (MW-4, MW-5 and MW-6) were installed around the release area to further delineate lateral extent of impacts (reference *Figure 3*).

To further delineate the lateral extent of groundwater impacts, three (3) groundwater monitoring wells (MW-7, MW-8 and MW-9) were installed in June 2004 and two (2) more (MW-10 and MW-11) in November 2004 (reference *Figure 3*). During installation of these groundwater monitoring wells, soil samples were collected and submitted to an independent laboratory for quantification of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX constituents)..

4.0 Field Analyses

Soil samples collected during advancement of soil borings and installation of groundwater monitoring wells, plus those collected from the bottom and sidewalls of the excavation were divided into two (2) portions. One portion of the soil sample was immediately placed in a laboratory provided container, set on ice and transported to an independent laboratory for analyses of TPH and BTEX.

The other portion of the soil sample was inserted into a self-sealing polyethylene bag and allowed to equilibrate to approximately 70° F for volatilization of organic vapors. The sample was analyzed in the field for the presence of organic vapors utilizing a UltraRae™ photoionization detector (PID) equipped with a 9.8 electron volt (eV) lamp.

Table 1, *Summary of Soil Boring Soil Sample Analytical Results*, documents field data collected from soil samples taken during advancement of twenty (20) soil borings and installation of five (5) groundwater monitoring wells (MW-7 through MW-11). Field analysis for the original seventeen (17) soil borings advanced in August, 2001 indicate organic vapor concentrations ranged from a low of 0.03 parts per million (ppm) (SB-11 @ 15-ft) to a high of 959 ppm (SB-14 @ 2-ft). Field analyses were not conducted for three (3) soil borings (SB-E, SB-W and SB-N) advanced in November, 2001. Field analyses for the five (5) groundwater monitoring wells (MW-7 through MW-11) advanced in June and November 2004, indicated organic vapor concentrations ranged from a low of 14.3 ppm



(MW-11 @ 20-ft) to a high of 747 ppm (MW-9 @ 20- to 22-ft), which was above NMOCD remedial guideline limits of 100 ppm. Excluding groundwater monitoring well MW-8 which was not analyzed, three (3) of the nine (9) soil samples exhibited organic vapor concentrations in excess of NMOCD remedial guideline limits of 100 ppm. However, field analyses indicated organic vapor concentrations tend to diminish with depth.

Table 2, *Summary of Soil Excavation Analytical Results*, documents field data for soil samples collected from the excavation (reference *Figure 5*). Organic vapor concentrations ranged from a low of 0.1 ppm (SELBM1402SSW @ 12-ft) to a high of 66.3 ppm (SELBM1402CNBH @ 17-ft). Field analyses indicated organic vapor concentrations were below NMOCD remedial guideline limits of 100 ppm.

5.0 Laboratory Analyses

Soil samples collected during the advancement of soil borings and installation of groundwater monitoring wells, plus those collected from the bottom and sidewalls of the excavation were submitted to an independent laboratory for quantification of TPH using EPA Method 8015M and BTEX constituents using EPA Method 8021B/5030.

Table 1, *Summary of Soil Boring Soil Sample Analytical Results*, documents data from soil samples collected during the advancement of soil borings and installation of groundwater monitoring wells during delineation activities associated with the release site.

Soil samples collected from four (4) soil borings located outside or within the excavated area (SB-1, SB-2, SB-3 and SB-4)) were analyzed in the field for organic vapor concentrations only. No soil samples were collected for laboratory analyses.

Soil samples collected from soil borings SB-5, SB-6 and SB-7 indicated concentrations of BTEX and TPH were non-detectable (ND) at or above laboratory analytical method detection limits (MDL) from ground surface to total depth.

Analytical results for soil samples collected from soil borings SB-8, SB-11 and SB-12 indicated concentrations for BTEX and TPH were below NMOCD remedial guideline limits of 50 mg/Kg and 100 mg/Kg, respectively.

Analytical results for soil samples collected from soil boring SB-9 indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (20-ft) to 256 mg/Kg (5-ft) and TPH ranged from 7.87 mg/Kg (20-ft) to 9,020 mg/Kg (10-ft).

Analytical results for soil samples collected from soil boring SB-10 indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (15-ft) to 0.612 mg/Kg (5-ft) and TPH ranged from ND at or above laboratory analytical MDL (2-ft) to 1,140 mg/Kg (5-ft).



Analytical results for soil samples collected from soil boring SB-13 indicated concentrations of BTEX ranged from 0.186 mg/Kg (2-ft) to 356 mg/Kg (15-ft) and TPH ranged from 10,520 mg/Kg (10-ft) to 12,760 mg/Kg (15-ft).

Analytical results for soil samples collected from soil boring SB-14 indicated concentrations of BTEX ranged from 4.65 mg/Kg (15-ft) to 616 mg/Kg (2-ft) and TPH ranged from 665 mg/Kg (15-ft) to 19,960 mg/Kg (2-ft).

Analytical results for soil samples collected from soil boring SB-15 indicated concentrations of BTEX ranged from 0.066 mg/Kg (15-ft) to 384 mg/Kg (2-ft) and TPH ranged from 246 mg/Kg (15-ft) to 14,100 mg/Kg (2-ft).

Analytical results for soil samples collected from soil boring SB-E indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (15-ft) to 392 mg/Kg (2-ft) and TPH ranged from 7.84 mg/Kg (15-ft) to 12,110 mg/Kg (2-ft).

Analytical results for soil samples collected from soil boring SB-W (MW-4) indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (35-ft) to 5.93 mg/Kg (25-ft) and TPH ranged from ND (35-ft) to 1,394 mg/Kg (20-ft).

Analytical results for soil samples collected from soil boring SB-N indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (2-ft to 15-ft) to 0.054 mg/Kg (20-ft) and TPH ranged from ND at or above laboratory analytical MDL (2-ft) to 3,730 mg/Kg (25-ft).

Analytical results of soil samples collected from three (3) groundwater monitoring wells (MW-7, MW-10 and MW-11) indicated concentrations of BTEX and TPH were ND at or above laboratory analytical MDL.

Analytical results of soil samples collected from groundwater monitoring well MW-8 indicated concentrations of BTEX ranged from ND at or above laboratory analytical MDL (20-ft) to 5.39 mg/Kg (25-ft) and TPH ranged from ND at or above laboratory analytical MDL (20-ft) to 87.5 mg/Kg (25-ft).

Laboratory results of soil samples collected from groundwater monitoring well MW-9 indicated concentrations of BTEX ranged from 0.348 mg/Kg (20-ft) to 3.11 mg/Kg (25-ft) and TPH ranged from 67.2 mg/Kg (25-ft) to 346 mg/Kg (20-ft).

Table 2, *Summary of Excavation Soil Sample Analytical Results*, indicate BTEX concentrations ranged from ND at or above laboratory analytical MDL for the majority of the soil samples to a high of 0.724 mg/Kg (SELBM1402CNBH @17-ft). However, BTEX concentrations were below NMOC remedial guideline limits of 50 mg/Kg for all twelve (12) samples. TPH concentrations varied from ND at or above laboratory analytical MDL to a high of 641 mg/Kg (SELBM1402CNBH @ 17-ft). Three (3) bottom hole samples (SELBM1402CBH, SELBM1402CNBH and SELBM1402NBH) and one (1) sidewall



sample (SELBM1402SSW) were above NMOCD remedial threshold limits of 100 mg/Kg (reference *Figure 5*).

6.0 Groundwater Monitoring Well Installations

After discovery of the pipeline release, two (2) temporary groundwater monitoring wells were installed during August 2001 to evaluate if groundwater had been impacted. Upon confirmation that groundwater had been impacted, six (6) groundwater monitoring wells (MW-1 through MW-6) were installed to delineate the lateral extent of contamination. As lateral extent had not been fully defined, three (3) groundwater monitoring wells (MW-7 through MW-9) were installed in June 2004 and two (2) more in November 2004 (MW-10 and MW-11). Eleven (11) groundwater monitoring wells envelope the release site (reference *Figure 3*). One (1) additional groundwater monitoring well (MW-12) is proposed to be installed one hundred feet (100') south of existing MW-10 (reference *Figure 6*).

7.0 Groundwater Monitoring Summary

The groundwater monitoring well network is sampled on a quarterly basis for BTEX constituents and on a yearly basis for poly-aromatic hydrocarbons (PAH). Phase separated hydrocarbons (PSH) in groundwater monitoring well MW-4 have remained a sheen from December 21, 2004 to December 9, 2005. At present, a disposable absorbent sock is used to collect any PSH that may be present in MW-4. The other ten (10) groundwater monitoring wells do not contain PSH.

A review of Table 3, *Summary of Groundwater Analytical Results*, reveals the groundwater monitoring network has a wide variance in conditions. Groundwater monitoring wells MW-1, MW-3, MW-6, MW-7 and MW-11 are not impacted. Groundwater monitoring wells MW-2, MW-4, MW-5, MW-8, MW-9 and MW-10 contain moderate to high levels of contamination from BTEX constituents, especially benzene.

8.0 Soil Status

Hydrocarbon-impacted soils were excavated from areas surrounding the vicinity of twelve (12) soil borings located around the perimeter or confined within the release area (reference *Figure 4*). The soils extracted from around four (4) of these soil borings (SB-6, SB-7, SB-8 and SB-9) were excavated from ground surface to total depth of each respective well bore. BTEX concentrations ranged from ND at or above laboratory analytical MDL (SB-6 @ 15-ft) to 297 mg/Kg (SB-9 @ 10-ft). TPH concentrations ranged from ND at or above laboratory analytical MDL (SB-7 @ 15-ft) to 9,020 mg/Kg (SB-9 @ 10-ft). Soils around three (3) additional soil borings (SB-11, SB-16 and SB-17) were not excavated to total depth of their respective well bores. However, in-situ soils not completely excavated to total depth were below NMOCD guideline limits for BTEX and TPH of 50 mg/Kg and 100 mg/Kg, respectively. Soils around soil boring SB-3 was not excavated to total depth of the well bore. Although no laboratory analyses were conducted on soil samples from the well



bore, field analysis for organic vapor concentrations ranged from ND at or above laboratory analytical MDL (2- and 15-ft) to 0.4 mg/Kg (5- and 10-ft).

Soil surrounding the location of soil boring SB-13 was excavated to a depth of seventeen (17) feet with removal of hydrocarbon-impacted soil whose concentrations of BTEX ranged from 0.186 mg/Kg (2-ft) to 356 mg/Kg (15-ft) and TPH from 10,520 mg/Kg (10-ft) to 12,760 mg/Kg (15-ft). Analytical results for the in-situ soil from the excavated depth (17-ft) to total depth of the soil boring (20-ft) indicated concentrations of BTEX at 18.4 mg/Kg and TPH at 4,030 mg/Kg.

Soil surrounding the location of soil boring SB-14 was excavated to a depth of approximately fifteen (15) feet. Excavated hydrocarbon-impacted soil indicated concentrations of BTEX ranged from 616 mg/Kg (2-ft) to 4.65 mg/Kg (15-ft) and TPH ranged from 19,960 mg/Kg (2-ft) to 665 mg/Kg (15-ft). The soil boring was advanced to a total depth of twenty-five (25) feet. In-situ soil in the interval from twenty (20) feet to twenty-five (25) feet indicated concentrations of BTEX ranged from 0.025 mg/Kg to 0.276 mg/Kg and TPH ranged from 140 mg/Kg to 240 mg/Kg.

Soil surrounding the location of soil boring SB-15 was excavated to a depth of approximately fifteen feet (15-ft) with removal of hydrocarbon-impacted soil whose concentrations of BTEX ranged from 384 mg/Kg (2-ft) to 0.066 mg/Kg (15-ft) and TPH from 14,100 mg/Kg (2-ft) to 246 mg/Kg (15-ft). With total depth of the soil boring at thirty (30) feet, in-situ soil in this interval indicated concentrations of BTEX of ND at or above laboratory analytical MDL (20-ft), 5.52 mg/Kg (25-ft) and 3.1 mg/Kg (30-ft) with TPH concentrations of 119 mg/Kg (20-ft), 960 mg/Kg (25-ft) and 594 mg/Kg (30-ft).

Soil surrounding the location of soil boring SB-E was excavated to a depth of approximately fifteen (15) feet with removal of hydrocarbon-impacted soil whose concentrations of BTEX ranged from 392 mg/Kg (2-ft) to ND (15-ft) and TPH ranged from 12,110 mg/Kg (2-ft) to 7.84 mg/Kg (15-ft). With total depth of the soil boring at thirty-five (35) feet, in-situ soil in the interval between twenty (20) feet and total depth indicated concentrations of BTEX at ND at or above laboratory analytical MDL (20-ft), 5.00 mg/Kg (25-ft) and ND at or above laboratory analytical MDL (30-ft to 35-ft) with TPH at 5.68 mg/Kg (20-ft), 866 mg/Kg (25-ft) and ND at or above laboratory analytical MDL (30- to 35-ft).

Soil Samples from three (3) soil borings located outside the excavated area (SB-1, SB-2 and SB-4) were analyzed in the field for organic vapor concentrations only. Soil samples collected from soil borings SB-5 and SB-12 were below NMOCD threshold limits for concentrations of BTEX and TPH for all sample depths. Soil samples collected from soil boring SB-10 were below NMOCD guideline limits for BTEX for all sampling depths. Similarly, concentrations of TPH from soil samples collected from SB-10 were at acceptable levels, except for the soil sample taken at five (5) feet where a concentration of 1,140 mg/Kg was above NMOCD guideline limits of 100 mg/Kg.



Soil boring SB-W (MW-4) was advanced to a total depth of thirty-five (35) feet. Analyses for soil samples collected in the intervals from two (2) feet to thirty-five (35) feet indicated BTEX concentrations were below NMOCD guideline limits. TPH concentrations were below NMOCD guideline limits for soil samples collected from two (2) feet to ten (10) feet depth. Soil samples with concentrations for TPH of 284 mg/Kg (15-ft), 1,394 mg/Kg (20-ft), 771 mg/Kg (25-ft) and 255 mg/Kg (30-ft) exceeded NMOCD guideline limits of 100 mg/Kg. The soil sample collected at thirty-five (35) feet depth was below NMOCD guideline limits for TPH concentrations.

Soil boring SB-N was advanced to a depth of thirty-five (35) feet. Soil samples analyzed from two (2) feet to thirty-five (35) feet were below NMOCD guideline limits for BTEX of 50 mg/Kg. In the sample intervals of two (2) feet to fifteen (15) feet, all analyses were below NMOCD guideline limits of 100 mg/Kg for TPH. Analytical results for TPH concentrations of 1,338 mg/Kg (20-ft), 3,730 mg/Kg (25-ft) and 1,129 mg/Kg (30-ft) exceeded NMOCD guideline limits of 100 mg/Kg.

Laboratory analyses of soil samples collected from groundwater monitoring wells MW-7 through MW-11 indicated BTEX concentrations were non-detectable at or above laboratory analytical MDL to a high of 5.39 mg/Kg (MW-8 @ 25- to 27-ft). Concentrations of BTEX were below NMOCD remedial guideline limits of 50 mg/Kg for all eleven (11) sample points. Concentrations of TPH ranged from non-detectable at or above laboratory analytical MDL to a high of 346 mg/Kg (MW-9 @ 20- to 22-ft). With this one (1) exception, the other ten (10) soil samples were below NMOCD remedial guideline limits for TPH (100 mg/Kg).

Approximately 11,445 cubic yards of excavated soil are stockpiled in the vicinity of the release site. This soil has remained "on-site" since December 2001. An earthen berm constructed around the perimeter of the excavation has kept it free of surface water accumulation and sediment. Rain has caused some sloughing of sidewalls and an ingress/egress ramp causing a buildup of soil in the excavated area. Stockpiled mounds of excavated material have weathered the elements and remain intact.

9.0 Status and Recommendations

Based on field monitoring and analytical results from soil samples collected during advancement of soil borings, installation of groundwater monitoring wells and from the sidewalls and bottom of the excavation, the following recommendations are made with regards to in-situ hydrocarbon-impacted soil and closure of the excavation area:

- 1.) Stockpiled material excavated from the release area needs to be sampled for concentrations of BTEX and TPH. The material will be divided into five hundred (500) cubic yard cells for sampling purposes. Should analytical results indicate one or more of the stockpiled cell material is contaminated above NMOCD remedial guideline limits for BTEX and TPH parameters, the cell material will be transported to Lea Land Farm, Inc., for disposal. If the stockpiled cell material analytical results are within acceptable NMOCD remedial guideline limits for BTEX and TPH parameters, the soil

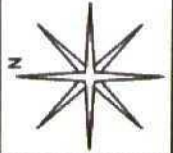
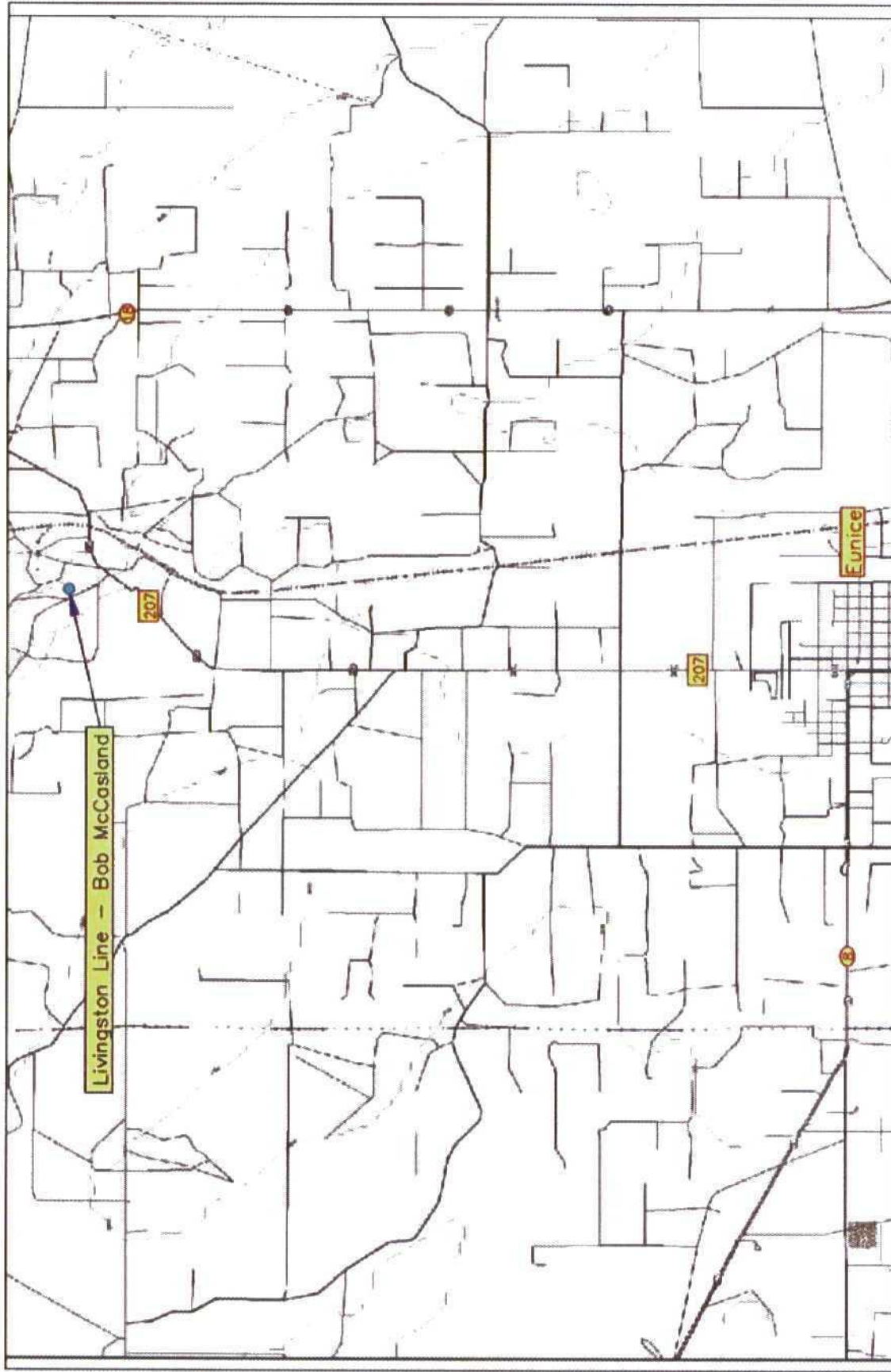


from that cell will be used to backfill the excavation after other remedial actions are implemented.

- 2.) Excavate contaminated material from the south-southwest sidewall in the vicinity of soil sample #SELBM1402SSW (reference *Figures 5 and 7*) taking care not to damage existing pipelines. Collect soil samples from the sidewalls to verify removal of hydrocarbons above NMOCD remedial guideline limits. The abandoned Shell Pipeline Pump Station foundation, crude oil sump and piping are to be removed in entirety with care taken not to damage groundwater monitoring well MW-4.
- 3.) Level the bottom of the excavated area by removing all loose soil, rocks, irregular projections and other debris. The abandoned four (4) inch diameter steel pipeline is to be truncated ten (10) feet on either side of the excavation and pipe removed from the site. The truncated pipeline ends are to be capped or sealed per Plains Pipeline, L.P., specifications.
- 4.) Install a twenty (20) mil thick polyethylene liner over the excavated area bottom from the location of soil boring SB-15 to the end of the northerly sector (reference *Figure 7*). The polyethylene liner will be cushioned with a six (6) inch layer of sand both below and over it. Should laboratory analyses of the stockpiled material prove to be within NMOCD remedial guideline limits, the soil will be used to backfill the upper portion of the excavation. In the event the stockpiled material is unacceptable or insufficient in quantity, caliche will be used for total or as supplemental backfill material. In either case, the backfill material will extend from top of the six (6) inch layer of cushion sand to within one (1) foot of original ground surface. The top one (1) foot section will be backfilled with clean top soil. The entire release site is to be graded to allow natural drainage of the area. After cessation of backfill and grading operations, the area is to be seeded with a grass blend approved by the land owner.

On behalf of Plains All American Pipeline, LP, EPI requests formal written approval from NMOCD to implement the proposed remedial activities.

FIGURES



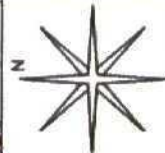
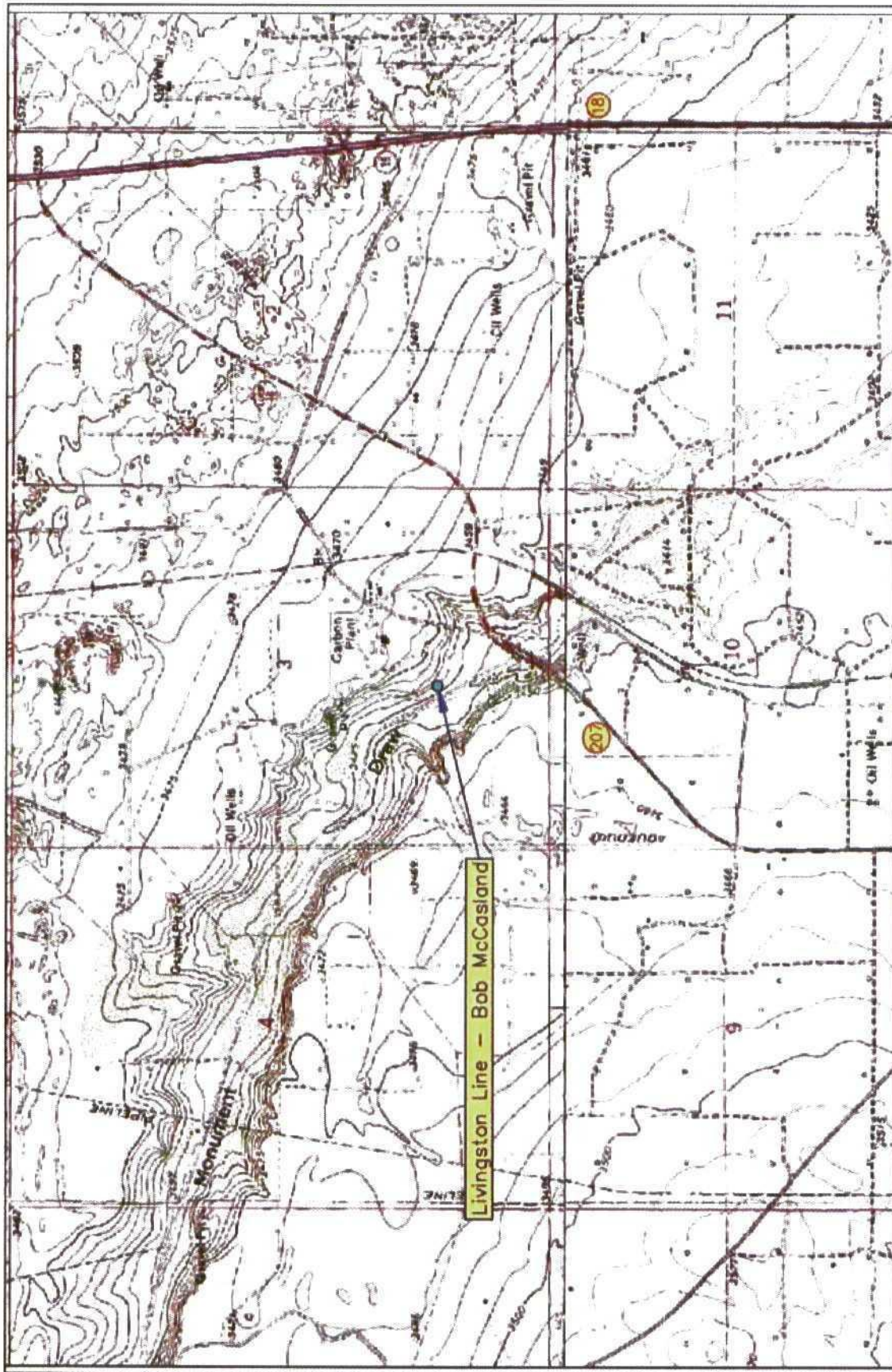
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April 2004

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Jan 2006

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Lea County, New Mexico
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Elevation: 3,427 feet amsl

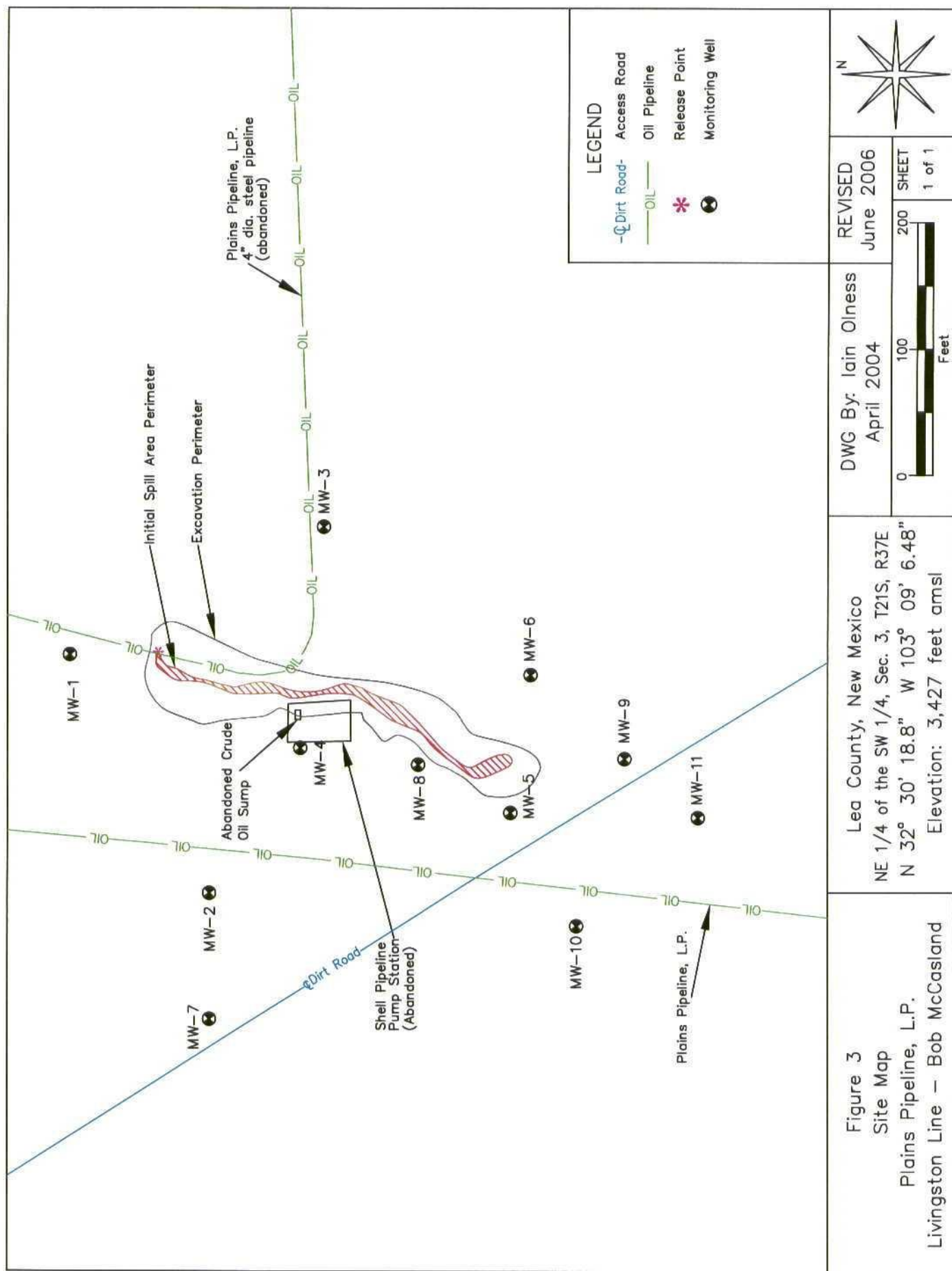
Figure 1
Area Map
Plains Pipeline, L.P.
Livingston Line - Bob McCasland

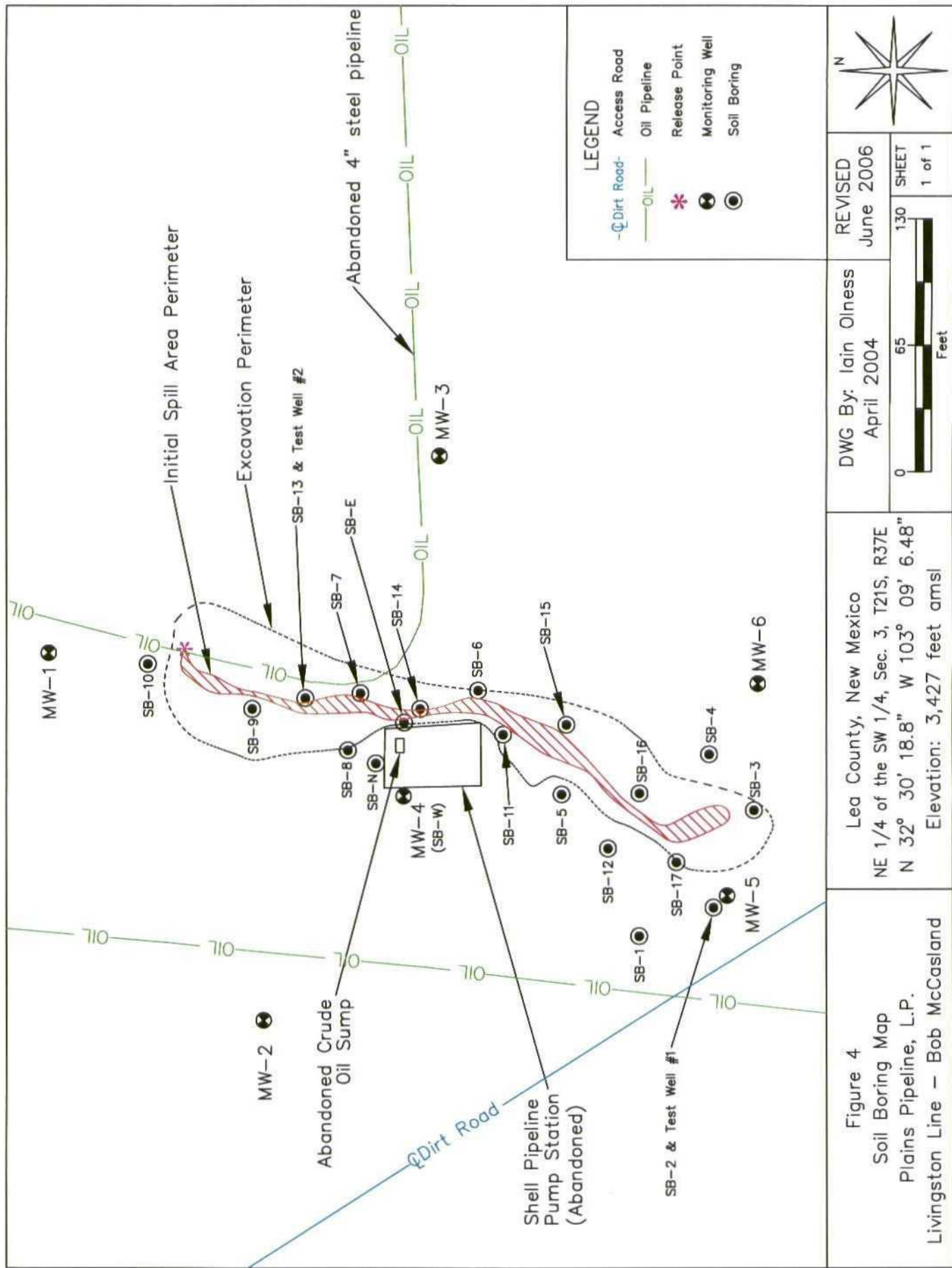


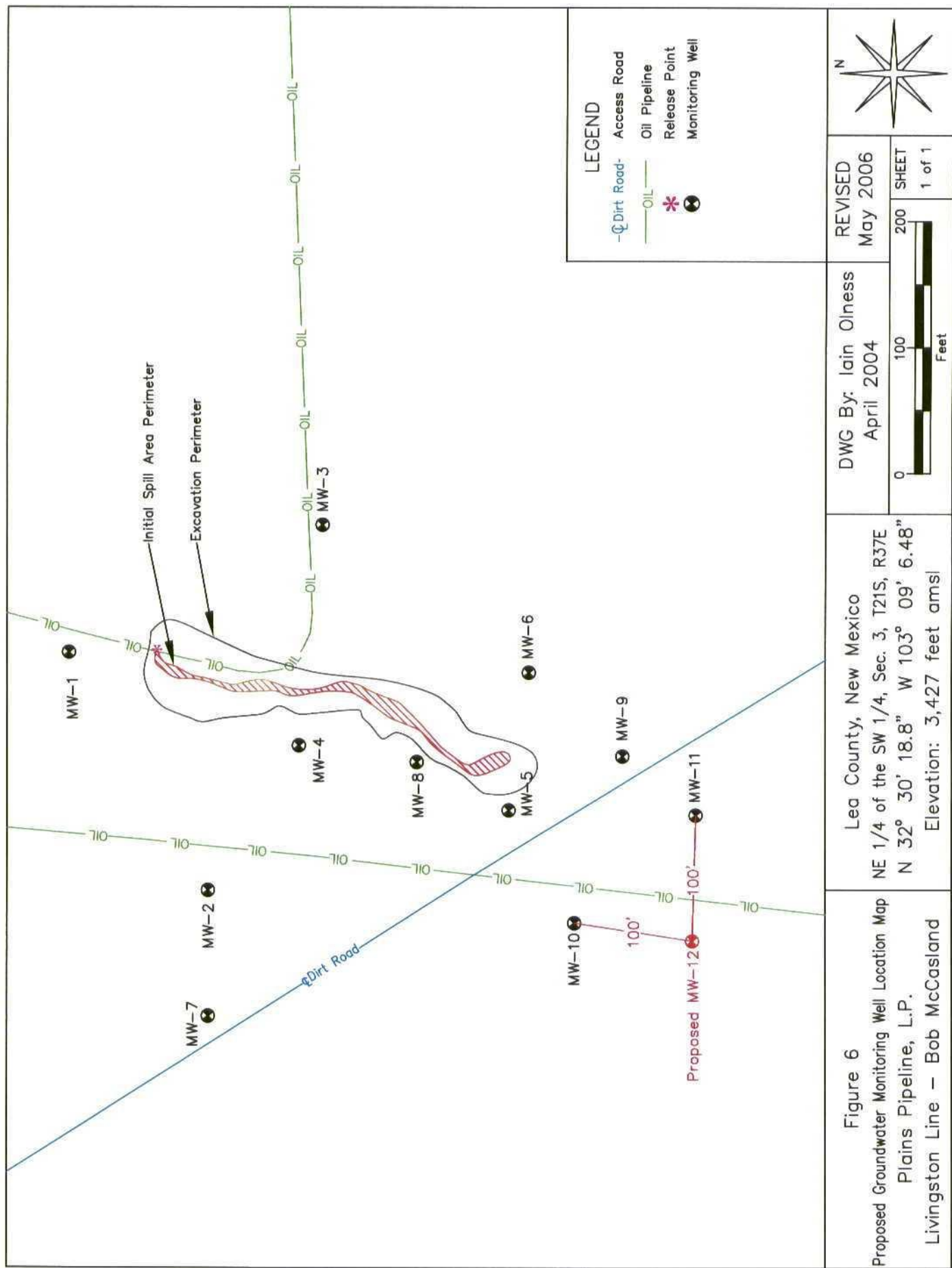
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 SHEET 1 of 1

Lea County, New Mexico
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 Elevation: 3,427 feet amsl

Figure 2
 Site Location Map
 Plains Pipeline, L.P.
 Livingston Line - Bob McCasland







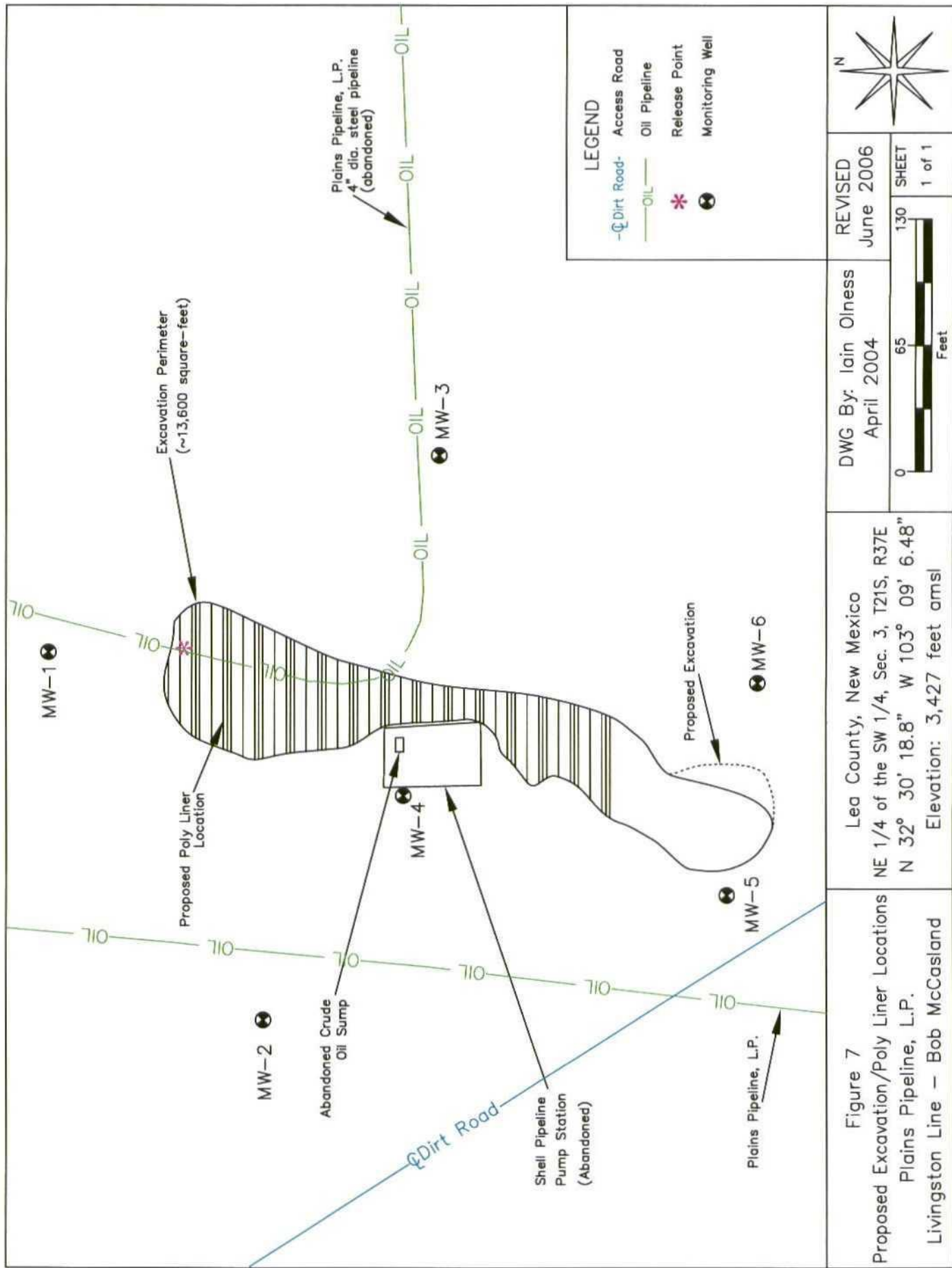


Figure 7

Proposed Excavation/Poly Liner Locations
Plains Pipeline, L.P.
Livingston Line – Bob McCasland

Lea County, New Mexico

NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E
N 32° 30' 18.8" W 103° 09' 6.48"
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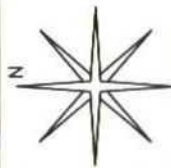
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April 2004

REVISED
June 2006

0 65 130
Feet
SHEET
1 of 1

LEGEND

- Dirt Road- Access Road
- OIL Pipeline
- * Release Point
- Monitoring Well



TABLES

Table 1

Summary of Soil Boring Soil Sample Analytical Results

Plains All American Pipeline, L.P. - Livingston Line-Bob McCasland (Ref. #2001 - 11043)

Soil Boring	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)
SB-1	2	In-situ	16-Aug-01	507	--	--	--	--	--	--	--	--
	5	In-situ		3.9	--	--	--	--	--	--	--	--
	10	In-situ		804	--	--	--	--	--	--	--	--
	15	In-situ		1.4	--	--	--	--	--	--	--	--
	20	In-situ		0.7	--	--	--	--	--	--	--	--
SB-2	2	In-situ	17-Aug-01	44	--	--	--	--	--	--	--	--
	5	In-situ		31.5	--	--	--	--	--	--	--	--
	10	In-situ		2.9	--	--	--	--	--	--	--	--
	15	In-situ		1.7	--	--	--	--	--	--	--	--
	20	In-situ		658	--	--	--	--	--	--	--	--
	25	In-Situ		503	--	--	--	--	--	--	--	--
	30	In-Situ		8.8	--	--	--	--	--	--	--	--
	35-40	In-situ		--	--	--	--	--	--	--	--	--
	2	Excavated		0.0	--	--	--	--	--	--	--	--
	5	Excavated		0.4	--	--	--	--	--	--	--	--
SB-3	10	Excavated	17-Aug-01	0.4	--	--	--	--	--	--	--	--
	15	In-situ		0.0	--	--	--	--	--	--	--	--
	2	In-situ		3.2	--	--	--	--	--	--	--	--
	5	In-situ		0.9	--	--	--	--	--	--	--	--
SB-4	10	In-situ	17-Aug-01	1.3	--	--	--	--	--	--	--	--
	15	In-situ		0.0	--	--	--	--	--	--	--	--
	2	In-situ		2.8	<0.020	<0.020	<0.020	<0.040	<0.100	<5	2.32	2.32
	5	In-situ		0.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	4.25	4.25
SB-5	10	In-situ	20-Aug-01	0.4	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.02	1.02
	15	In-situ		0.8	<0.020	<0.020	<0.020	<0.040	<0.100	<5	2.33	2.33
	2	Excavated		7.0	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
	5	Excavated		3.2	<0.020	22.8	<0.020	<0.040	22.8	<5	1.73	1.73
SB-6	10	Excavated	20-Aug-01	1.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	4.02	4.02
	15	Excavated		0.6	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
	2	Excavated		4.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
	5	Excavated		2.9	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
SB-7	10	Excavated	20-Aug-01	3.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
	15	Excavated		1.6	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6

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Summary of Soil Boring Soil Sample Analytical Results

Plains All American Pipeline, L.P. - Livingston Line-Bob McCasland (Ref. #2001 - 11043)

Soil Boring	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)
SB-8	2	Excavated	20-Aug-01	18.7	<0.020	0.043	<0.020	0.026	0.069	<5	23	23
	5	Excavated		15.3	<0.020	<0.020	<0.020	<0.040	<0.100	<5	3.52	3.52
	10	Excavated		13.5	<0.020	<0.020	<0.020	<0.040	<0.100	<5	12.2	12.2
	15	Excavated		0.6	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
SB-9	2	Excavated	20-Aug-01	16.8	<0.020	0.043	0.039	0.067	0.149	<5	<1	<6
	5	Excavated		895	2.53	49	59.8	145	256	4,880	3,380	8,260
	10	Excavated		904	1.98	48.5	66.8	180	297	4,370	4,650	9,020
	15	Excavated		795	0.114	27.8	42.6	104	175	3,230	5,680	8,910
	20	Excavated		31.0	<0.020	<0.020	<0.020	<0.040	<0.100	<5	7.87	7.87
	2	In-situ		4.0	<0.020	0.030	0.034	0.059	0.123	<5	<1	<6
SB-10	5	In-situ	21-Aug-01	95	<0.020	0.206	0.117	0.289	0.612	<5	1,140	1,140
	10	In-situ		6.0	<0.020	<0.020	<0.020	<0.040	<0.100	<5	61.1	61.1
	15	In-situ		0.6	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.8	1.8
	2	Excavated		1.3	<0.020	0.106	<0.020	0.027	0.133	<5	41.2	41.2
SB-11	5	Excavated	20-Aug-01	0.9	<0.020	0.022	<0.020	<0.040	0.022	<5	16.1	16.1
	10	Excavated		0.4	<0.020	<0.020	<0.020	<0.040	<0.100	<5	5.66	5.66
	15	In-situ		0.3	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.5	1.5
	2	In-situ		1.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.33	1.33
SB-12	5	In-situ	20-Aug-01	1.2	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.73	1.73
	10	In-situ		1.1	<0.020	<0.020	<0.020	<0.040	<0.100	<5	2.98	2.98
	15	In-situ		0.5	<0.020	<0.020	<0.020	<0.040	<0.100	<5	1.06	1.06
	2	Excavated		798	5.48	87.4	92.7	234	430	5,060	7,410	12,470
SB-13	5	Excavated	21-Aug-01	550	11.5	129	134	318	592	7,510	6,080	13,590
	10	Excavated		400	13.2	139	152	366	670	8,960	1,560	10,520
	15	Excavated		397	5.33	73.2	83.4	196	358	4,720	8,040	12,760
	20	In-situ		400	0.097	3.06	3.71	11.58	18.4	630	4,400	5,030
SB-14	2	Excavated	22-Aug-01	959	9.81	130	138	338	616	760	19,200	19,960
	5	Excavated		780	6.83	88.6	96.8	229	421	5,330	13,500	18,830
	10	Excavated		320	<0.02	<0.02	<0.02	0.022	0.022	37.3	126	163
	15	Excavated		300	<0.020	0.185	0.942	3.52	4.65	218	447	665
	20	In-situ		105	<0.020	<0.020	<0.020	0.025	0.025	23.6	116	140
	25	In-situ		60.5	<0.020	0.037	0.057	0.182	0.275	51.3	189	240
SB-15	2	Excavated	22-Aug-01	942	3.50	74.9	87.2	218	384	4,140	9,960	14,100

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Soil Boring	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)
SB-15 (cont.)	5	Excavated	22-Aug-01	738	1.66	53.1	66.7	181	303	3,470	7,140	10,610
	10	Excavated		611	<0.020	0.472	2.49	7.73	10.7	425	1,070	1,495
	15	Excavated		327	<0.020	<0.020	<0.020	0.066	0.066	42.5	203	246
	20	In-situ		120	<0.020	<0.020	<0.020	<0.040	<0.100	44.4	74.2	119
	25	In-situ		107	<0.020	0.444	1.28	3.8	5.52	199	761	960
	30	In-situ		64.7	<0.020	0.128	0.644	2.33	3.1	129	465	594
SB-16	2	Excavated	22-Aug-01	196	0.029	0.291	0.579	0.848	1.75	35.4	609	644
	5	Excavated		42.5	<0.020	<0.020	<0.020	<0.040	<0.100	<5	13.3	13.3
	10	Excavated		20.7	<0.020	<0.020	<0.020	<0.040	<0.100	<5	6.63	6.63
	15	In-situ		2.5	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
SB-17	2	Excavated	20-Aug-01	131	<0.020	0.109	0.226	0.509	0.844	23.3	240	263
	5	Excavated		28.4	<0.020	<0.020	<0.020	<0.040	<0.100	<5	<1	<6
	10	Excavated		14.6	<0.020	<0.020	<0.020	<0.040	<0.100	<5	3.74	3.74
	15	In-situ		6.4	<0.020	<0.020	<0.020	<0.040	<0.100	<5	30.9	30.9
SB-E	2	Excavated	21-Nov-01		0.57	55.5	86.2	250	392	6,820	5,290	12,110
	5	Excavated			0.373	33.3	48.8	161	243	3,830	2,660	6,490
	10	Excavated			0.468	48.6	72.4	183	305	4,710	2,950	7,660
	15	Excavated			<0.020	<0.020	<0.020	<0.040	<0.100	<5	7.84	7.84
	20	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	5.68	<5	5.68
	25	In-situ			<0.020	0.054	0.917	4.03	5.00	399	467	866
	30	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	35	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	2	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	5	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
SB-N	10	In-situ	21-Nov-01		<0.020	<0.020	<0.020	<0.040	<0.100	5.69	<5	5.69
	15	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	20	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	25	In-situ			<0.020	<0.020	<0.020	0.054	0.054	298	1040	1,338
	30	In-situ			<0.020	0.284	2.89	13.3	16.5	1,940	1,790	3,730
	35	In-situ			0.191	3.92	4.00	13.5	21.6	669	550	1,219
	2	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	5	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	6.43	<5	6.43
SB-W (MW-4)	5	In-situ	21-Nov-01		<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
	10	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	6.5	<5	6.5

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Summary of Soil Boring Soil Sample Analytical Results

Plains All American Pipeline, L.P. - Livingston Line-Bob McCasland (Ref. #2001 - 11043)

Soil Boring	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)
SB-W (MW-4) (cont.)	15	In-situ	21-Nov-01		<0.200	<0.020	<0.020	0.023	0.023	32.7	251	284
	20	In-situ			<0.020	<0.020	0.032	0.444	0.476	705	689	1,394
	25	In-situ			<0.020	0.239	0.860	4.83	5.93	450	321	771
	30	In-situ			<0.020	0.163	0.617	3.14	3.92	155	100	255
	35	In-situ			<0.020	<0.020	<0.020	<0.040	<0.100	<5	<5	<10
MW-7	2	In-situ	8-Jun-04	10.9	--	--	--	--	--	--	--	--
	5	In-situ		28.7	--	--	--	--	--	--	--	--
	10	In-situ		61.9	--	--	--	--	--	--	--	--
	15	In-situ		67.3	--	--	--	--	--	--	--	--
	20	In-situ		60.7	<0.025	<0.025	<0.025	<0.050	<0.125	<10	<10	<20
	25	In-situ		31.4	--	--	--	--	--	--	--	--
	30	In-situ		49.4	--	--	--	--	--	--	--	--
	35	In-situ		44.6	--	--	--	--	--	--	--	--
	40	In-situ		30.9	--	--	--	--	--	--	--	--
MW-8	2	In-situ	9-Jun-04	NOT SAMPLED								
	5	In-situ		NOT SAMPLED								
	15	In-situ		NOT SAMPLED								
	20	In-situ		--	<0.025	<0.025	<0.025	<0.050	<0.125	<10	<10	<20
	25	In-situ		--	1.49	1.38	1.03	1.49	5.39	46.6	40.9	87.5
	30	In-situ		NOT SAMPLED								
	35	In-situ		NOT SAMPLED								
MW-9	40	In-situ	7-Jun-04	NOT SAMPLED								
	2	In-situ		0.0	--	--	--	--	--	--	--	--
	5	In-situ		0.0	--	--	--	--	--	--	--	--
	10	In-situ		0.0	--	--	--	--	--	--	--	--
	15	In-situ		0.0	--	--	--	--	--	--	--	--
	20	In-situ		747	<0.025	10.024 ³	0.080	0.244	0.324	55.5	290	346
	25	In-situ		729	0.035	0.236	0.857	1.98	3.11	48.1	19.1	67.2
	30	In-situ		129	--	--	--	--	--	--	--	--
	35	In-situ		180	--	--	--	--	--	--	--	--
MW-10	5	In-situ	8-Nov-04	263	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5
	10	In-situ		85.5	--	--	--	--	--	--	--	--

Table 1

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Plains All American Pipeline, L.P. - Livingston Line-Bob McCasland (Ref. #2001 - 11043)

Soil Boring	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (mg/Kg)
MW-10 (cont.)	15	In-situ	8-Nov-04	83.2	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5
	20	In-situ		103	--	--	--	--	--	--	--	--
	25	In-situ		24.2	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<2.5	<7.5
	30	In-situ		10.3	--	--	--	--	--	--	--	--
MW-11	5	In-situ	8-Nov-04	19.1	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<7.5	<7.5
	10	In-situ		18.5	--	--	--	--	--	--	--	--
	15	In-situ		14.9	--	--	--	--	--	--	--	--
	20	In-situ		14.3	<0.020	<0.020	<0.020	<0.060	<0.120	<5	<5	<7.5
	25	In-situ		17.8	<0.020	<0.020	<0.020	<0.020	<0.120	<5	<2.5	<7.5
	30	In-situ		16.4	--	--	--	--	--	--	--	--
NMOCD Remedial Thresholds					10				50		100	

J = Detected below Reporting Limit. Therefore, result is an estimated concentration*Bolded values are in excess of NMOCD Remediation Threshold Limits*

ND = Non-detectable

-- = Not Analyzed

SB = Soil Boring

MW = Monitor Well; E = East; W = West; N = North

TABLE 2

Summary of Excavation Soil Sample Analytical Results

Plains All American Pipeline, L.P. - Livingston Line-Bob McCasland (Ref. #2001 - 11043)

Sample I.D.	Sampling Interval (ft. bgs)	Soil Status	Sample Date	PID Field Analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTX (mg/Kg)	TPH (as diesel) (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (mg/Kg)
SELBM1402SSW	5 Point Composite @2-12'	In-situ	04-Jan-02	0.1	<0.025	0.054	<0.025	<0.025	0.054	150	<10	150
SELBM1402SWSW	5 Point Composite @2-13'	In-situ	04-Jan-02	0.4	<0.025	<0.025	<0.025	<0.050	<0.125	<10	<10	<020
SELBM1402SESW	5 Point Composite @2-13'	In-situ	04-Jan-02	0.3	<0.025	<0.025	<0.025	<0.050	<0.125	16	<10	16
SELBM1402SBH	5 Point Composite @12'	In-situ	04-Jan-02	2.4	<0.025	<0.025	<0.025	<0.050	<0.125	36	<10	36
SELBM1402CBH	5 Point Composite @15'	In-situ	04-Jan-02	20.6	<0.025	<0.025	<0.025	<0.050	<0.125	346	13	359
SELBM1402CESW	5 Point Composite @2-16'	In-situ	04-Jan-02	1.0	<0.025	<0.025	<0.025	<0.050	<0.125	<10	<10	<20
SELBM1402CWSW	5 Point Composite @2-15'	In-situ	04-Jan-02	0.5	<0.025	<0.025	<0.025	<0.050	<0.125	43	<10	43
SELBM1402CNBH	5 Point Composite @17'	In-situ	04-Jan-02	66.3	0.026	0.096	0.082	0.520	0.724	610	31	641
SELBM1402NBH	5 Point Composite @26'	In-situ	04-Jan-02	14.0	<0.025	<0.025	<0.025	<0.050	<0.125	160	<10	160
SELBM1402NESW	5 Point Composite @5-26'	In-situ	04-Jan-02	0.3	<0.025	<0.025	<0.025	<0.050	<0.125	<10	<10	<20
SELBM1402NWSW	5 Point Composite @5-26'	In-situ	04-Jan-02	0.4	<0.025	<0.025	<0.025	<0.050	<0.125	90	<10	90
SELBM1402NSW	5 Point Composite @5-26'	In-situ	04-Jan-02	0.3	<0.025	<0.025	<0.025	<0.050	<0.125	32	<10	32
NMOCD Remedial Thresholds					10				50			100

Bolted values are in excess of NMOCD Remediation Threshold Limits

TABLE 3

Summary of Groundwater Analytical Results

Plains All American Pipeline, L.P. - Livingston Line - Bob McCasland (Ref. #2001-11043)

Monitor Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)
MW-1	20-Apr-04	<1	<1	<1	<3	<6
	14-Jun-04	<1	<1	<1	<3	<6
	14-Sep-04	<1	<1	<1	<3	<6
	21-Dec-04	<1	<1	<1	<3	<6
	21-Mar-05	<1	<1	<1	<3	<6
	17-May-05	Not Analyzed				
	15-Aug-05	<1	<1	<1	<3	<6
	18-Nov-05	Not Analyzed				
	16-Feb-06	<1	<1	<1	<3	<6
	22-May-06	<1	<1	<1	<3	>6
MW-2	20-Apr-04	125	<1	34.1	72	231
	14-Jun-04	209	6.16	47	36.6	299
	14-Sep-04	125	2.76	35.8	17.6	181
	21-Dec-04	267	1.24	35.7	1.09	305
	21-Mar-05	186	<1	13.6	7.40	207
	17-May-05	342	1.00	28.1	48.1	419
	15-Aug-05	145	7.18	18.7	28.5	199
	18-Nov-05	413	2.07	114	157	686
	16-Feb-06	433	<1	146	166	745
	22-May-06	694	162	172	224	1,252
MW-3	20-Apr-04	<1	<1	<1	<3	<6
	14-Jul-04	<1	<1	<1	<3	<6
	14-Sep-04	<1	<1	<1	<3	<6
	21-Dec-04	<1	<1	<1	<3	<6
	21-Mar-05	Not Analyzed				
	17-May-05	Not Analyzed				
	15-Aug-05	<1	<1	<1	<3	<6
	18-Nov-05	Not Analyzed				
	16-Feb-06	<1	<1	<1	<3	<6
	22-May-06	<1	<1	<1	<3	<6
MW-4	20-Apr-04	3,210	2,310	845	2,900	9,265
	14-Jul-04	Not Sampled due to presence of PSH				
	14-Sep-04	Not Sampled due to presence of PSH				
	21-Dec-04	829	6.60	173	236	1,245
	21-Mar-05	Not Sampled due to presence of PSH				
	17-May-05	Not Sampled due to presence of PSH				
	15-Aug-05	Not Sampled due to presence of PSH				
	18-Nov-05	2,620	<2	379	748	3,747
	16-Feb-06	2,100	<50	414	806	3,320
	22-May-06	2,110	<5	372	663	3,145
MW-5	20-Apr-04	482	2.37	101	91.4	677

TABLE 3

Summary of Groundwater Analytical Results

Plains All American Pipeline, L.P. - Livingston Line - Bob McCasland (Ref. #2001-11043)

Monitor Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)
MW-5 (cont.)	14-Jul-04	70.8	<1	48.6	6.67	126
	14-Sep-04	118	1.35	58.8	5.86	184
	21-Dec-04	204	<1	67	<3	271
	21-Mar-05	30.8	<1	17.1	3.67	51.6
	17-May-05	9.7	<1	<1	<3	9.7
	15-Aug-05	13.8	1.73	4.38	<3	19.9
	18-Nov-05	10.7	1.15	<1	<3	11.8
	16-Feb-06	7.47	<1	2.93	<3	10.4
	22-May-06	3.18	<1	<1	<3	3.2
MW-6	20-Apr-04	1.06	<1	<1	<3	1.06
	14-Jul-04	1.95	<1	<1	<3	1.95
	14-Sep-04	10.0	<1	<1	<3	10.0
	21-Dec-04	<1	<1	<1	<3	<6
	21-Mar-05	<1	<1	<1	<3	<6
	17-May-05	<1	<1	<1	<3	<6
	15-Aug-05	<1	<1	<1	<3	<6
	18-Nov-05	<1	<1	<1	<3	<6
	16-Feb-06	<1	<1	<1	<3	<6
MW-7	22-May-06	<1	<1	<1	<3	<6
	14-Jul-04	<1	<1	<1	<3	<6
	14-Sep-04	<1	<1	<1	<3	<6
	21-Dec-04	<1	<1	<1	<3	<6
	21-Mar-05	<1	<1	<1	<3	<6
	17-May-05	<1	<1	<1	<3	<6
	15-Aug-05	<1	<1	<1	<3	<6
	18-Nov-05	<1	<1	<1	<3	<6
	16-Feb-06	<1	<1	<1	<3	<6
MW-8	22-May-06	<1	<1	<1	<3	<6
	14-Jul-04	575	141	88.4	163	967
	14-Sep-04	482	35.6	106	113	737
	21-Dec-04	4,220	113	695	283	5,311
	21-Mar-05	3,410	<10	452	148	4,010
	17-May-05	2,290	<1	115	38.0	2,443
	15-Aug-05	1,210	<1	75	34.1	1,319
	18-Nov-05	670	<1	29.9	16.5	716
	16-Feb-06	243	<1	35.9	23.9	303
MW-9	22-May-06	97.4	<1	27.8	22	147
	14-Jul-04	275	10.9	487	624	1397
	14-Sep-04	150	2.15	225	148	525
	21-Dec-04	<1	<1	3.0	23.0	26.0
	21-Mar-05	9.25	<1	15.1	30.5	54.8

TABLE 3

Summary of Groundwater Analytical Results

Plains All American Pipeline, L.P. - Livingston Line - Bob McCasland (Ref. #2001-11043)

Monitor Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)
MW-9 (cont.)	17-May-05	4.98	<1	14.8	45.6	65.4
	15-Aug-05	22.8	<1	63.0	56.5	142
	18-Nov-05	3.99	<1	28.1	88.3	120
	16-Feb-06	8.81	<1	32.7	105	147
	22-May-06	7.38	<1	34.6	112	154
MW-10	15-Nov-04	1,250	96.7	140	120	1,607
	21-Mar-05	1,130	14.1	138	54.8	1,337
	17-May-05	2,170	14.4	194	155	2,533
	15-Aug-05	791	<1	74	43.7	909
	18-Nov-05	1,250	<1	91.6	59.7	1,401
	16-Feb-06	276	<1	53.8	8.59	338
	22-May-06	1,320	<5	105	<15	1425
MW-11	15-Nov-04	<1	<1	<1	<3	<6
	21-Mar-05	<1	<1	<1	<3	<6
	17-May-05	<1	<1	<1	<3	<6
	15-Aug-05	<1	<1	<1	>3	>6
	18-Nov-05	<1	<1	<1	<3	<6
	16-Feb-02	<1	<1	<1	<3	<6
	22-May-06	<1	<1	<1	<3	<6
NMWQCC Remedial Threshold		10	750	750	620	2,130

*Bold values are in excess of NMWQCC Threshold Limits**PSH = Phase Separated Hydrocarbons*

APPENDIX

APPENDIX A

**Analytical Reports
and
Chain-of-Custody Forms**

**ANALYTICAL RESULTS
INTENTIONALLY OMITTED FROM
DRAFT COPY OF THE REPORT**

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
 Eunice NM 88231

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

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

Report#/Lab ID#: 123074 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-2'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 07:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	5290	mg/Kg	500	<500	11/30/01	8015 mod.	---	4.8	98.8	81.2	108
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	6820	mg/Kg	500	<500	11/30/01	8015 mod.	---	1.8	84.1	77.7	87.7
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	570	µg/Kg	100	<100	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	86200	µg/Kg	1000	<1000	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	182000	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	68000	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	55500	µg/Kg	1000	<1000	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHE-2'	Report#/Lab ID#: 123074 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 50X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4	8260b	99.9	65-115	---
Toluene-d8	8260b	85.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123074	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHE-2'		

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 TNRCC-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
Nitrobenzene-d5	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.
Nitrobenzene-d5	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	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	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:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123075 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-5'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 07:40

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	2660	mg/Kg	500	<500	11/30/01	8015 mod.	---	4.8	98.8	81.2	108
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	3830	mg/Kg	500	<500	11/30/01	8015 mod.	---	1.8	84.1	77.7	87.7
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	373	µg/Kg	100	<100	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	48800	µg/Kg	1000	<1000	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	115000	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	46000	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	33300	µg/Kg	1000	<1000	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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 2000, 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,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHE-5'

Report#/Lab ID#: 123075
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 50X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4	8260b	92.8	65-115	---
Toluene-d8	8260b	84.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123075 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELBM112101BHE-5'

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

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- ☐ 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 TNRCC-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
Nitrobenzene-d5	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.
Nitrobenzene-d5	D	
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123076 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-10'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 07:55

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	2950	mg/Kg	500	<500	11/30/01	8015 mod.	---	4.8	98.8	81.2	108
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	4710	mg/Kg	500	<500	11/30/01	8015 mod.	---	1.8	84.1	77.7	87.7
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	468	µg/Kg	100	<100	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	72400	µg/Kg	1000	<1000	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	133000	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	50100	µg/Kg	1000	<1000	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	48600	µg/Kg	1000	<1000	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHE-10'	Report#/Lab ID#: 123076 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 50X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4	8260b	95.3	65-115	---
Toluene-d8	8260b	85.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123076	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHE-10'		

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

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☐ 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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Nitrobenzene-d5	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.
Nitrobenzene-d5	D	
p-Terphenyl	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	D	

Notes:



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 123077 **Report Date:** 12/07/01

Project ID: 2001-11043

Sample Name: ELBM112101BHE-15'

Sample Matrix: soil

Date Received: 11/27/2001 **Time:** 10:30

Date Sampled: 11/21/2001 **Time:** 08:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	7.84	mg/Kg	5	<5	11/30/01	8015 mod.	---	4.8	98.8	81.2	108
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/30/01	8015 mod.	---	1.8	84.1	77.7	87.7
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHE-15'

Report#/Lab ID#: 123077
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	127	50-150	---
p-Terphenyl	8015 mod.	117	50-150	---
1,2-Dichloroethane-d4	8260b	89.4	65-115	---
Toluene-d8	8260b	93	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123077 **Matrix:** soil **Attn:** Pat McCasland
Client: Environmental Plus, Inc.
Project ID: 2001-11043
Sample Name: ELBM112101BHE-15'

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 TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123078 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-20'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 08:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	5.68	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHE-20'	Report#/Lab ID#: 123078 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	90.3	50-150	---
p-Terphenyl	8015 mod.	80.4	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	113	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123078	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHE-20'		

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

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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A J flag data qualifier indicates (as required under TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123079 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-25'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 08:35

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	467	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	399	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	917	µg/Kg	20	<20	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	2530	µg/Kg	20	<20	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	1500	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	54.1	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Project ID: 2001-11043

Sample Name: ELBM112101BHE-25'

Report#/Lab ID#: 123079

Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	52.6	50-150	---
	8015 mod.	69.9	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	94.9	65-115	---
	8260b	89.4	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123080 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-30'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 08:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHE-30'	Report#/Lab ID#: 123080 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	81	50-150	---
	8015 mod.	67.2	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	100	65-115	---
	8260b	115	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123080 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELBM112101BHE-30'

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).

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- ☐ 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 TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123081 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHE-35'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 09:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHE-35'	Report#/Lab ID#: 123081 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	88.9	50-150	---
	8015 mod.	82.2	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	98.1	65-115	---
	8260b	102	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123081	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHE-35'		

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).

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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Euine NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123082 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-2'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	J	8.6	75.5	104.6	106.1
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHN-2'

Report#/Lab ID#: 123082
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	97.5	50-150	---
	8015 mod.	94.9	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	97.3	65-115	---
	8260b	110	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123082	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHN-2'		

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 TNRCC-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 gasoline)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123083 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-5
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 09:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHN-5'	Report#/Lab ID#: 123083 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	101	50-150	---
p-Terphenyl	8015 mod.	95.3	50-150	---
1,2-Dichloroethane-d4	8260b	97.2	65-115	---
Toluene-d8	8260b	105	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123083 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELBM112101BHN-5'

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.
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- ☐ 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 TNRC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123084 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-10'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 09:55

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	5.69	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatle organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHN-10'

Report#/Lab ID#: 123084
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	92.4	50-150	---
p-Terphenyl	8015 mod.	76.9	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	107	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123084 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELBM112101BHN-10'

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 123085 **Report Date:** 12/07/01

Project ID: 2001-11043

Sample Name: ELBM112101BHN-15'

Sample Matrix: soil

Date Received: 11/27/2001 **Time:** 10:30

Date Sampled: 11/21/2001 **Time:** 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112101BHN-15'	Report#/Lab ID#: 123085 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	82.3	50-150	---
p-Terphenyl	8015 mod.	77.1	50-150	---
1,2-Dichloroethane-d4	8260b	92.9	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123085	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHN-15'		

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

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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123086 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-20'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1040	mg/Kg	50	<50	12/05/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	298	mg/Kg	50	<50	12/05/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	26.1	µg/Kg	20	<20	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	27.4	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHN-20'

Report#/Lab ID#: 123086
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod. 8015 mod.	none/diluted none/diluted	diluted @ 5X diluted @ 5X	D D
1,2-Dichloroethane-d4 Toluene-d8	8260b 8260b	98.3 99.2	65-115 50-120	--- ---

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

Exceptions Report:

Report #/Lab ID#: 123086	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHN-20'		

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).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.
Nitrobenzene-d5	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.
Nitrobenzene-d5	D	
p-Terphenyl	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	D	

Notes:



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123087 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-25'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 10:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1790	mg/Kg	50	<50	12/05/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	1940	mg/Kg	50	<50	12/05/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	2890	µg/Kg	100	<100	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	8660	µg/Kg	100	<100	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	4670	µg/Kg	100	<100	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	284	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043

Sample Name: ELBM112101BHN-25'

Report#/Lab ID#: 123087

Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	89	65-115	---
Toluene-d8	8260b	70.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123087 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELBM112101BHN-25'

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 TNRCC-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
Nitrobenzene-d5	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.
Nitrobenzene-d5	D	
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123088 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-30'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 11:05

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	550	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	669	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	191	µg/Kg	100	<100	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	4000	µg/Kg	100	<100	12/05/01	8260b	---	2.7	91.3	95.1	95.2
m,p-Xylenes	8990	µg/Kg	100	<100	12/05/01	8260b	---	2.2	87.6	91.2	89.4
o-Xylene	4550	µg/Kg	100	<100	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	3920	µg/Kg	100	<100	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHN-30'

Report#/Lab ID#: 123088
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	65.6	50-150	---
	8015 mod.	68	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	74.9	65-115	---
	8260b	82.4	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123089 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHN-35'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 11:25

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	J	8.6	75.5	104.6	106.1
Volatiles organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	6.2	79.3	88.2	87.7
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.7	91.3	95.1	95.2
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	2.2	87.6	91.2	89.4
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	2.2	88.8	93.6	94.5
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	5.4	85.7	92.6	94.4

QUALITY ASSURANCE DATA¹

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Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHN-35'

Report#/Lab ID#: 123089
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	90.2	50-150	---
	8015 mod.	84	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	87.6	65-115	---
	8260b	91	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123089	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHN-35'		

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 TNRCC-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 gasoline)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123090 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-2'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 01:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	J	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	6.43	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	113.7	101.9	98.6
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	100.3	89.2	86.7
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

QUALITY ASSURANCE DATA¹

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Client: Environmental Plus, Inc.	Project ID: 2001-11043	Report#/Lab ID#: 123090
Attn: Pat McCasland	Sample Name: ELBM112101BHW-2'	Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	104	50-150	---
	8015 mod.	139	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	105	65-115	---
	8260b	96.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123090	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-2'		

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

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123091 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-5'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 01:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	J	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	113.7	101.9	98.6
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	100.3	89.2	86.7
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-5'

Report#/Lab ID#: 123091
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	84.5	50-150	---
p-Terphenyl	8015 mod.	78.7	50-150	---
1,2-Dichloroethane-d4	8260b	107	65-115	---
Toluene-d8	8260b	111	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123091	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-5'		

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 TNRCC-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 gasoline)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:



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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123092 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-10'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 01:25

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	6.5	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	113.7	101.9	98.6
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	100.3	89.2	86.7
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM11210IBHW-10'	Report#/Lab ID#: 123092 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	102	50-150	---
p-Terphenyl	8015 mod.	95	50-150	---
1,2-Dichloroethane-d4	8260b	111	65-115	---
Toluene-d8	8260b	88.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123092	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-10'		

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 TNRCC-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	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123093 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-15'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 01:40

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	251	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	32.7	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	113.7	101.9	98.6
m,p-Xylenes	23.3	µg/Kg	20	<20	12/05/01	8260b	---	1.5	100.3	89.2	86.7
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-15'

Report#/Lab ID#: 123093
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	103	50-150	---
	8015 mod.	90.5	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	107	65-115	---
	8260b	92.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123093	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-15'		

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.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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	J	See J-flag discussion above.

Notes:



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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 123094 **Report Date:** 12/07/01
Project ID: 2001-11043

Sample Name: ELBM112101BHW-20'

Sample Matrix: soil

Date Received: 11/27/2001 **Time:** 10:30

Date Sampled: 11/21/2001 **Time:** 01:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	689	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	705	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	31.9	µg/Kg	20	<20	12/05/01	8260b	---	1.5	113.7	101.9	98.6
m,p-Xylenes	355	µg/Kg	20	<20	12/05/01	8260b	---	1.5	100.3	89.2	86.7
o-Xylene	88.8	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	J	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-20'

Report#/Lab ID#: 123094
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	50.1	50-150	---
p-Terphenyl	8015 mod.	55.7	50-150	---
1,2-Dichloroethane-d4	8260b	93.7	65-115	---
Toluene-d8	8260b	90.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123094	Matrix: soil	Atn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-20'		

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123095 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-25'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 02:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	321	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	450	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	860	µg/Kg	20	<20	12/05/01	8260b	---	1.5	113.7	101.9	98.6
m,p-Xylenes	2910	µg/Kg	20	<20	12/05/01	8260b	---	1.5	100.3	89.2	86.7
o-Xylene	1920	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	239	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-25'

Report#/Lab ID#: 123095
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	104	50-150	---
	8015 mod.	69.5	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	103	65-115	---
	8260b	63.9	50-120	---

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

Client: Environmental Plus, Inc. Attn: Pat McCasland Address: 1324 M.St Po Box Eunice NM 88231 Phone: (505) 394-3481 FAX: (505) 394-2601	Report#/Lab ID#: 123096 Report Date: 12/07/01 Project ID: 2001-11043 Sample Name: ELBM112101BHW-30' Sample Matrix: soil Date Received: 11/27/2001 Time: 10:30 Date Sampled: 11/21/2001 Time: 02:30
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REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	100	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	155	mg/Kg	5	<5	12/04/01	8015 mod.	---	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	617	µg/Kg	20	<20	12/05/01	8260b	---	1.5	113.7	101.9	98.6
m,p-Xylenes	1900	µg/Kg	20	<20	12/05/01	8260b	---	1.5	100.3	89.2	86.7
o-Xylene	1240	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	163	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-30'

Report#/Lab ID#: 123096
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	96.3	50-150	---
	8015 mod.	87.4	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	97.9	65-115	---
	8260b	70.8	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123097 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112101BHW-35'
Sample Matrix: soil
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/21/2001 **Time:** 02:50

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	---	0.5	72.9	113.6	98.7
TPH by GC (as diesel-ext)	---	---	---	---	11/28/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/04/01	8015 mod.	J	8.6	75.5	104.6	106.1
Volatile organics-8260b/BTEX	---	---	---	---	12/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	12/05/01	8260b	---	13.4	75.1	86.5	74
Ethylbenzene	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	113.7	101.9	98.6
m,p-Xylenes	<20	µg/Kg	20	<20	12/05/01	8260b	J	1.5	100.3	89.2	86.7
o-Xylene	<20	µg/Kg	20	<20	12/05/01	8260b	---	0.1	104.2	98	95.2
Toluene	<20	µg/Kg	20	<20	12/05/01	8260b	---	12.8	80.1	91	79.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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.



4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELBM112101BHW-35'

Report#/Lab ID#: 123097
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	88	50-150	---
	8015 mod.	78	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	89.1	65-115	---
	8260b	79.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 123097	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELBM112101BHW-35'		

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 TNRCC-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 gasoline)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 123098 **Report Date:** 12/07/01
Project ID: 2001-11043
Sample Name: ELBM112601WTMW
Sample Matrix: water
Date Received: 11/27/2001 **Time:** 10:30
Date Sampled: 11/26/2001 **Time:** 08:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.47	mg/L	0.5	<0.5	12/06/01	8015 mod.	---	1	74.7	80.4	113.1
TPH by GC (as diesel-ext)	---	---	---	---	11/30/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	13.6	mg/L	0.5	<0.5	12/06/01	8015 mod.	---	2.9	70.5	102.8	84.8
Volatile organics-8260b/BTEX	---	---	---	---	12/06/01	8260b	---	---	---	---	---
Benzene	1750	µg/L	10	<10	12/06/01	8260b	---	4.8	83	88.2	84.1
Ethylbenzene	321	µg/L	10	<10	12/06/01	8260b	---	0.1	89	90.4	87.4
m,p-Xylenes	548	µg/L	10	<10	12/06/01	8260b	---	0.3	85.6	87.3	84
o-Xylene	308	µg/L	10	<10	12/06/01	8260b	---	1.3	87.8	90.3	86.6
Toluene	1340	µg/L	10	<10	12/06/01	8260b	---	4.3	87.1	92.5	88.4

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELBM112601WTMW	Report#/Lab ID#: 123098 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	93.5	50-150	---
	8015 mod.	121	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	81.8	80-120	---
	8260b	108	88-110	---

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

Send Reports To:

Company Name Environmental Plus
 Address 2100 AVE D State NM Zip 88231
 City EDMUNDE
 ATTN: Pat McCasland
 Phone 505 294 2881 Fax 505 294 2601

Bill to (if different):

Company Name E.O.T.T.
 Address 5805 E. Highway 80 State TX Zip 79201
 City Midland
 ATTN: Wayne Brunette
 Phone 915 554 0190 Fax 915 684 3450

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: 2001-11043 Sampler: Bradley Brown

Analyses Requested (1)

Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Comments
ELBM112101BHE-2'	11-21-01	7:30	1	X			123074	X
ELBM112101BHE-5'	11-21-01	7:40	1	X			123075	X
ELBM112101BHE-10'	11-21-01	7:55	1	X			123076	X
ELBM112101BHE-15'	11-21-01	8:10	1	X			123077	X
ELBM112101BHE-20'	11-21-01	8:20	1	X			123078	X
ELBM112101BHE-25'	11-21-01	8:35	1	X			123079	X
ELBM112101BHE-30'	11-21-01	8:45	1	X			123080	X
ELBM112101BHE-35'	11-21-01	9:05	1	X			123081	X
ELBM112101BHE-40'	11-21-01	9:30	1	X			123082	X
ELBM112101BHE-5'	11-21-01	9:40	1	X			123083	X

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants (ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.)

Sample Relinquished By

Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Brown	Environmental Plus	11-21-01	9:45	Melanie Thompson	ASI	11/27/01	1030

Sample Received By

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

כ"ו ור"ר יצחק

4221 Freidrich Lane, Suite 190, Ausin, TX 78744
(512) 444-5896

Bill to (if different):

Company Name E.O.T.T.
Address 5805 E. Highway 80
City Midland State TX Zip 79701
ATTN: Wayne Brunette
Phone 915 556 0190 Fax 915 684 3450

Analyses Requested (1)

Please attach explanatory information as required.

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: 2001-1043 Sampler: *B. B. B. B. B.*

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)
ELBM112101BHN-10'	11-21-01 ⁸⁴	9:55	1	X			123084
ELBM112101BHN-15'	11-21-01	10:15	1	X			123085
ELBM112101BHN-20'	11-21-01	10:30	1	X			123086
ELBM112101BHN-25'	11-21-01	10:45	1	X			123087
ELBM112101BHN-30'	11-21-01	11:05	1	X			123088
ELBM112101BHN-35'	11-21-01	11:25	1	X			123089
ELBM112101BHW-2'	11-21-01	11:00	1	X			123090
ELBM112101BHW-5'	11-21-01	11:10	1	X			123091
ELBM112101BHW-10'	11-21-01	11:25	1	X			123092
ELBM112101BHW-15'	11-21-01	11:40	1	X			123093

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants c ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp 0.0°C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Bradley Blair	Environmental Picnic	11-21-01	Melanie Humphrey	ASU	11/27/01
					1030

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.

כורור מחל

Bill to (if different):

Company Name E.O.T.T
Address 5805 E. Highway 80

City Midland State TX Zip 79701
ATTN: WAYNE BRUNETTE

Phone 915 556 0190 Fax 915 684 3450

Project Name/PO#: ~~Project #123456789~~ Sampler: Brad Gu Bg.uwz

~~2-#0~~ 2001-1043

[illegible]

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/POL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants 0 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Broadley, Phil	Environmental Plus	11-26-01	8:35	Mykiewicz, Henry	ASU	11/27/01	10:30

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HWY. 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat Mc Casland)

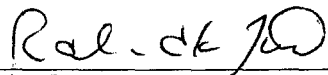
Sample Type: Soil
Sample Condition: Intact/ Iced/ -1.5 deg C
Project Name: Livingston Bob McCasland
Project #: 2001-11043
Project Location: None Given

Sampling Date: 01/04/02
Receiving Date: 01/07/02
Analysis Date: 01/07/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202349-01	SELBM1402SSW	<0.025	0.054	<0.025	<0.025	<0.025
0202349-02	SELBM1402SWSW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-03	SELBM1402SESW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-04	SELBM1402SBH	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL	0.110	0.109	0.103	0.223	0.106
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	110	109	103	112	106
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	0.031	<0.025	<0.025	<0.025
SPIKE	0.113	0.116	0.112	0.244	0.115
SPIKE DUP	0.109	0.112	0.109	0.238	0.112
%EA	109	110	108	111	109
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	3.60	3.51	2.71	2.49	2.64

METHODS: EPA SW 846-8021B ,5030


Celey D. Keene
Raland K. Tuttle

1-10-02
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

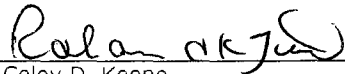
EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HWY. 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat Mc Casland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ -1.5 deg C
Project Name: Livingston Bob McCasland
Project #: 2001-11043
Project Location: None Given

Sampling Date: 01/04/02
Receiving Date: 01/07/02
Analysis Date: 01/09/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202349-05	SELBM1402CBH	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-06	SELBM1402CESW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-07	SELBM1402CWSW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-08	SELBM1402CNBH	0.026	0.096	0.082	0.402	0.118
0202349-09	SELBM1402NBH	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-10	SELBM1402NESW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-11	SELBM1402NWSW	<0.025	<0.025	<0.025	<0.025	<0.025
0202349-12	SELBM1402NSW	<0.025	<0.025	<0.025	<0.025	<0.025
QUALITY CONTROL		0.110	0.108	0.102	0.218	0.104
TRUE VALUE		0.100	0.100	0.100	0.200	0.100
% IA		110	108	102	109	104
SPIKED AMOUNT		0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE		<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE		0.112	0.114	0.111	0.224	0.109
SPIKE DUP		0.114	0.107	0.109	0.222	0.110
%EA		112	114	111	112	109
BLANK		<0.025	<0.025	<0.025	<0.025	<0.025
RPD		1.77	6.33	1.82	0.90	0.91

METHODS: EPA SW 846-8021B ,5030


Celey D. Keene
Ralanda K. Tuttle

1-10-02
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

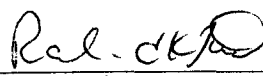
EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ -1.5 deg C
Project Name: Livingston Bob McCasland
Project #: 2001-11043
Project Location: None Given

Sampling Date: 01/04/02
Receiving Date: 01/07/02
Analysis Date: 01/08/02

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
0202349-01	SELBM1402SSW	<10	150
0202349-02	SELBM1402SWSW	<10	<10
0202349-03	SELBM1402SESW	<10	16
0202349-04	SELBM1402SBH	<10	36
0202349-05	SELBM1402CBH	13	346
0202349-06	SELBM1402CESW	<10	<10
0202349-07	SELBM1402CWSW	<10	43
0202349-08	SELBM1402CNBH	31	610
0202349-09	SELBM1402NBH	<10	160
0202349-10	SELBM1402NESW	<10	<10
0202349-11	SELBM1402NWSW	<10	90
0202349-12	SELBM1402NSW	<10	32
QUALITY CONTROL		553	527
TRUE VALUE		500	500
% INSTRUMENT ACCURACY		111	105
SPIKED AMOUNT		476	476
ORIGINAL SAMPLE		<10	150
SPIKE		566	540
SPIKE DUP		549	605
% EXTRACTION ACCURACY		115	96
BLANK		<10	<10
RPD		3.05	10.8

Methods: SW 846-8015M


Celey D. Keene
Raland K. Tuttle

1-10-02
Date

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH5-2'

Report#/Lab ID#: 118717
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	86.7	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	75.9	50 - 150	---
1,2-Dichloroethane-d4	8260b	85.9	65-115	---
Toluene-d8	8260b	110	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118717 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH5-2'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 07:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	2.32	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	J	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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 2000, 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,

Richard Laster

Richard Laster

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Phone: 915-563-1800
Fax: 915-563-1713

Andrew Davis

PO#:

Project Name: Livingston Bob McIsland

[illegible]

Exceptions Report:

Report #/Lab ID#: 118771 Matrix: soil
Client: Environmental Plus, Inc.
Project ID: 2001-11043
Sample Name: ELW82201BH17-15

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 <= 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 TNRCC-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 gasoline)	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82200

Project ID: 2001-11043
Sample Name: ELW82201BH17-15

Report#/Lab ID#: 118771
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	97.2	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	77.6	50 - 150	---
1,2-Dichloroethane-d4	8260b	87.8	65-115	---
Toluene-d8	8260b	93.7	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118771 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH17-15
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 14:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	30.9	mg/Kg	1	<1	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/05/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/31/01	8015 mod.	J	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	J	6.2	89.5	100	95.9
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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.

Sample Name: ELW82201BH17-10

Client: Environmental Plus, Inc.

Attn: Pat McCasland

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	73	50-150	---
1,2-Dichloroethane-d4	8015 mod.	70.9	50 - 150	---
1,2-Dichloroethane-d4	8260b	80.3	65-115	---
Toluene-d8	8260b	102	50-120	---

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

Project ID: 2001-11043

Sample Name: ELW82201BH17-10

Report#/Lab ID#: 118770

Sample Matrix: soil

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118770 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH17-10
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 14:17

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	3.74	mg/Kg	1	<1	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/05/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	---	0.4	89.9	104.9	84.5

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Project ID: 2001-11043

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Sample Name: ELW82201BH17-5

Report#/Lab ID#: 118769
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	70.2	50-150	---
1,2-Dichloroethane-d4	8015 mod.	62.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	70.7	65-115	---
Toluene-d8	8260b	105	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118769 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH17-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 14:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatle organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	---	0.4	89.9	104.9	84.5

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Report #/Lab ID#: 118768	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82201BH17-2'		

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 TNRCC-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	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH17-2'

Report#/Lab ID#: 118768
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 1X	D
1,2-Dichloroethane-d4	8015 mod.	63.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	71.9	65-115	---
Toluene-d8	8260b	112	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 118768 **Report Date:** 09/11/01

Project ID: 2001-11043

Sample Name: ELW82201BH17-2'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 13:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	240	mg/Kg	20	<20	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	23.3	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	J	5	103.3	103.3	97.2
Ethylbenzene	226	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	370	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	139	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	109	µg/Kg	20	<20	08/31/01	8260b	---	0.4	89.9	104.9	84.5

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Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH1615'

Report#/Lab ID#: 118767
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	75.4	50-150	---
1,2-Dichloroethane-d4	8015 mod.	90.7	50 - 150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	120	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118767 **Report Date:** 09/11/01

Project ID: 2001-11043

Sample Name: ELW82201BH1615'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 13:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	---	0.4	89.9	104.9	84.5

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Exceptions Report:

Report #/Lab ID#: 118766 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH16-10'

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.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

21 F...ch I...uite ...X
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH16-10'

Report#/Lab ID#: 118766
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	99.8	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	76.8	50 - 150	---
1,2-Dichloroethane-d4	8260b	87	65-115	---
Toluene-d8	8260b	107	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118766 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH16-10'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 13:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	6.63	mg/Kg	2	<2	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	J	6.2	89.5	100	95.9
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	4.9	97.5	105.9	104.3

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Richard Laster

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Report #/Lab ID#: 118765	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82201BH16-5'		

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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH16-5'

Report#/Lab ID#: 118765
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	109	50-150	---
1,2-Dichloroethane-d4	8015 mod.	80.1	50 - 150	---
1,2-Dichloroethane-d4	8260b	90.7	65-115	---
Toluene-d8	8260b	101	50-120	---

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



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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118765 Report Date: 09/11/01

Project ID: 2001-11043

Sample Name: ELW82201BH16-5'

Sample Matrix: soil

Date Received: 08/24/2001 Time: 16:00

Date Sampled: 08/22/2001 Time: 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	13.3	mg/Kg	2	<2	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX.	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	J	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	0.4	89.9	104.9	84.5

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 2000, 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,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118764 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH16-2

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.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH16-2

Report#/Lab ID#: 118764
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4	8015 mod.	93.2	50 - 150	---
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118764 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH16-2
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 12:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	609	mg/Kg	200	<200	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	35.4	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	29.1	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	579	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	665	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	183	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	291	µg/Kg	20	<20	08/31/01	8260b	---	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118763 Matrix: soil

Client: Environmental Plus, Inc. Attn: Pat McCasland

Project ID: 2001-11043

Sample Name: ELW82201BH15-30

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

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH15-30

Report#/Lab ID#: 118763
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 1X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	108.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	82.4	65-115	---
Toluene-d8	8260b	97.3	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118763 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH15-30
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 10:25

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	465	mg/Kg	20	<20	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	129	mg/Kg	25	<25	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatiles organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	3.7	96	105.8	104.3
Ethylbenzene	644	µg/Kg	20	<20	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	1590	µg/Kg	20	<20	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	739	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	128	µg/Kg	20	<20	08/30/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#:118762 Matrix:soil
Client: Environmental Plus, Inc.
Project ID: 2001-11043
Sample Name: ELW82201BH15-25'

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

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH15-25'

Report#/Lab ID#: 118762
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	83	50 - 150	---
1,2-Dichloroethane-d4	8260b	82.1	65-115	---
Toluene-d8	8260b	111	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118762 **Report Date:** 09/11/01

Project ID: 2001-11043

Sample Name: ELW82201BH15-25'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 10:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	761	mg/Kg	200	<200	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	199	mg/Kg	50	<50	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	3.7	96	105.8	104.3
Ethylbenzene	1280	µg/Kg	20	<20	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	2630	µg/Kg	20	<20	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	1170	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	444	µg/Kg	20	<20	08/30/01	8260b	---	4.9	97.5	105.9	104.3

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Exceptions Report:

Report #/Lab ID#: 118761	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82201BH15-20		

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).

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH15-20

Report#/Lab ID#: 118761
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	113	50-150	---
1,2-Dichloroethane-d4	8015 mod.	87.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	98.9	65-115	---
Toluene-d8	8260b	93.7	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118761 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH15-20
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 09:53

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	74.2	mg/Kg	2	<2	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	44.4	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	J	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	0.4	89.9	104.9	84.5

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#: 118760 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH15-15'

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 TNRCC-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	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELW82201BH15-15'	Report#/Lab ID#: 118760 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 1X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	87	50 - 150	---
1,2-Dichloroethane-d4	8260b	98.5	65-115	---
Toluene-d8	8260b	104	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118760 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH15-15'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 09:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	203	mg/Kg	20	<20	09/07/01	8015 mod	---	16.3	97.2	110.2	76.3
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	42.5	mg/Kg	5	<5	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	9.2	94.5	106.7	102.6
m,p-Xylenes	42.9	µg/Kg	20	<20	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	23.1	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Report #/Lab ID#: 118759 Matrix: soil
 Client: Environmental Plus, Inc. Attn: Pat McCasland
 Project ID: 2001-11043
 Sample Name: ELW82201BH15-10

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

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- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH15-10

Report#/Lab ID#: 118759
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
2-Dichloroethane-d4(Surr)	8015 mod.	102.1	50 - 150	---
2-Dichloroethane-d4	8260b	85.7	65-115	---
toluene-d8	8260b	100	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 118759 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82201BH15-10

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 09:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1070	mg/Kg	200	<200	09/10/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	425	mg/Kg	25	<25	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	09/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/05/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	2490	µg/Kg	100	<100	09/04/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	5350	µg/Kg	100	<100	09/04/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	2380	µg/Kg	100	<100	09/04/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	472	µg/Kg	100	<100	09/04/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118758	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82201BH15-5		

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 TNRCC-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
1,2-Dichloroethane-d4	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.
	D	
1,2-Dichloroethane-d4(Surr)	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.
	D	
p-Terphenyl	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.
	D	
Toluene-d8	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.
	D	

Notes:



Client: Environmental Plus, Inc.
Attn: Pat McCasland

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D

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

Project ID: 2001-11043
Sample Name: ELW82201BH15-5

Report#/Lab ID#: 118758
Sample Matrix: soil

Environmental Plus, Inc.
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118758 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82201BH15-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 08:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	7140	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	3470	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	1660	µg/Kg	1000	<1000	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	66700	µg/Kg	1000	<1000	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	139000	µg/Kg	5000	<5000	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	42300	µg/Kg	1000	<1000	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	53100	µg/Kg	1000	<1000	08/30/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Report #/Lab ID#: 118757 Matrix: soil
 Client: Environmental Plus, Inc. Attn: Pat McCasland
 Project ID: 2001-11043
 Sample Name: ELW82201BH15-2

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	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	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	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	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	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:

Client: Environmental Plus, Inc.
Attn: Pat McCaslandProject ID: 2001-11043
Sample Name: ELW82201BH15-2Report#/Lab ID#: 118757
Sample Matrix: soilREPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 108.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118757 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82201BH15-2
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 08:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	9960	mg/Kg	200	<200	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	4140	mg/Kg	250	<250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	3500	µg/Kg	1000	<1000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	87200	µg/Kg	1000	<1000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	159000	µg/Kg	1000	<1000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	59300	µg/Kg	1000	<1000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	74900	µg/Kg	1000	<1000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Lastar

Richard Lastar

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Exceptions Report:

Report #/Lab ID#: 118756 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH14-25

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 TNRCC-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
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-25

Report#/Lab ID#: 118756
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 1X	D
2-Dichloroethane-d4(Surr)	8015 mod.	81.7	50 - 150	---
2-Dichloroethane-d4	8260b	92.5	65-115	---
Toluene-d8	8260b	92.6	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118756 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82201BH14-25
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	189	mg/Kg	2	<2	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	51.3	mg/Kg	5	<5	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	56.5	µg/Kg	20	<20	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	125	µg/Kg	20	<20	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	56.5	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	37.1	µg/Kg	20	<20	08/30/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#: 118755 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH14-20

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 TNRCC-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	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-20

Report#/Lab ID#: 118755
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 2X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	81.1	50 - 150	---
1,2-Dichloroethane-d4	8260b	91.8	65-115	---
Toluene-d8	8260b	104	50-120	---

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



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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118755 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82201BH14-20

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 07:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	116	mg/Kg	2	<2	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	23.6	mg/Kg	5	<5	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	9.2	94.5	106.7	102.6
m,p-Xylenes	24.7	µg/Kg	20	<20	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118754 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH14-15

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 TNRCC-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
p-Terphenyl	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels).
p-Terphenyl	D	Surrogate recoveries not accurately quantifiable.

Notes:

Environmental Plus, Inc.
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-15

Report#/Lab ID#: 118754
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	98.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	89.3	65-115	---
Toluene-d8	8260b	103	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118754 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82201BH14-15
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 07:43

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA ¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	447	mg/Kg	200	<200	09/10/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	218	mg/Kg	25	<25	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	09/05/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	09/05/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	942	µg/Kg	20	<20	09/05/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	2470	µg/Kg	100	<100	09/04/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	1050	µg/Kg	20	<20	09/05/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	185	µg/Kg	100	<100	09/04/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,
Richard Laster
Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118753	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82201BH14-10		

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 TNRCC-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
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-10

Report#/Lab ID#: 118753
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 2X	D
2-Dichloroethane-d4	8015 mod.	91	50 - 150	---
2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	94.6	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118753 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82201BH14-10
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/22/2001 **Time:** 07:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	126	mg/Kg	20	<20	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	37.3	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	21.5	µg/Kg	20	<20	08/31/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	J	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#:118752 Matrix:soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82201BH14-5

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	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	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	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	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	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:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-5

Report#/Lab ID#: 118752
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 8X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118752 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82201BH14-5

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 07:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	13500	mg/Kg	400	<400	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	5330	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatle organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	6830	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	96800	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	171000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	58300	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	88600	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Report #/Lab ID#: 118751 **Matrix:** soil
Client: Environmental Plus, Inc.
Project ID: 2001-11043
Sample Name: EL W82201BH14-2
Attn: Pat McCasland

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	D	
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	D	
p-Terphenyl	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	D	
Toluene-d8	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82201BH14-2

Report#/Lab ID#: 118751
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 8X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118751 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82201BH14-2

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/22/2001 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	19200	mg/Kg	400	<400	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	760	mg/Kg	250	<250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	9810	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	138000	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	252000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	85800	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	130000	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Lastar

Richard Lastar

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Exceptions Report:

Report #/Lab ID#: 118750 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH13-20

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 TNRCC-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
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	D	
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH13-20

Report#/Lab ID#: 118750
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 108.9X	D
2-Dichloroethane-d4	8260b	91.1	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M. St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118750 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82101BH13-20
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 10:47

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	4400	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	630	mg/Kg	250	<250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	96.7	µg/Kg	20	<20	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	3710	µg/Kg	20	<20	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	8930	µg/Kg	100	<100	09/04/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	2650	µg/Kg	20	<20	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	3060	µg/Kg	100	<100	09/04/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118749 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH13-15

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

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- ☐ 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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	D	
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	D	
p-Terphenyl	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	D	
Toluene-d8	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH13-15

Report#/Lab ID#: 118749
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118749 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82101BH13-15

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/21/2001 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	8040	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	4720	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	5330	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	83400	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	147000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	49000	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	73200	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118748 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH13-10

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	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	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	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	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	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:



Environmental Plus, Inc.
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH13-10

Report#/Lab ID#: 118748
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 118748

Report Date: 09/11/01

Project ID: 2001-11043

Sample Name: ELW82101BH13-10

Sample Matrix: soil

Date Received: 08/24/2001

Time: 16:00

Date Sampled: 08/21/2001

Time: 10:18

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1560	mg/Kg	200	<200	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	8960	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	13200	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	152000	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	272000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	94400	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	139000	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#: 118747 Matrix: soil

Client: Environmental Plus, Inc.

Project ID: 2001-11043

Sample Name: ELW82101BH13-5

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	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	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	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	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	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:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH13-5

Report#/Lab ID#: 118747
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

Data Qualifiers: D= Surrogates outside advisory recovery limits.

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118747 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82101BH13-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 10:12

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1											
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	6080	mg/Kg	200	<200	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	7510	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---		---		08/31/01	8260b	---	---	---	---	---
Benzene	11500	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	134000	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	238000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	79700	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	129000	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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 2000, 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,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118746 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH13-2

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	D	
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	D	
p-Terphenyl	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	D	
Toluene-d8	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH13-2

Report#/Lab ID#: 118746
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

Data Qualifiers: D= Surrogates outside advisory recovery limits.

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118746 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82101BH13-2
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	7410	mg/Kg	200	<200	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	5060	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	5480	µg/Kg	5000	<5000	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	92700	µg/Kg	5000	<5000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	175000	µg/Kg	5000	<5000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	58900	µg/Kg	5000	<5000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	87400	µg/Kg	5000	<5000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH12-15'

Report#/Lab ID#: 118716
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	73.6	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	82	50 - 150	---
1,2-Dichloroethane-d4	8260b	92.8	65-115	---
Toluene-d8	8260b	102	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118716 **Report Date:** 09/07/01
Project ID: 2001-11043
Sample Name: ELW82001BH12-15'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 07:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.06	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Report #/Lab ID#: 118715 Matrix: soil
 Client: Environmental Plus, Inc. Attn: Pat McCasland
 Project ID: 2001-11043
 Sample Name: ELW82001BH12-10

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GF AA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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

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- ☐ 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 TNRCC-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.

Notes:

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELW82001BH12-10	Report#/Lab ID#: 118715 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	98.4	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	96.2	50 - 150	---
1,2-Dichloroethane-d4	8260b	108	65-115	---
Toluene-d8	8260b	93.6	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118715 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH12-10

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 07:22

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	2.98	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/29/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/29/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/29/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/29/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/29/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/29/01	8260b	J	2.3	85.4	90.3	95.5

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Exceptions Report:

Report #/Lab ID#: 118714 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH12-5

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

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- ☐ 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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:



2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH12-5

Report#/Lab ID#: 118714
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	72.9	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	85	50 - 150	---
1,2-Dichloroethane-d4	8260b	96.3	65-115	---
Toluene-d8	8260b	85.3	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118714 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH12-5

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 07:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.73	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/29/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/29/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/29/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/29/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/29/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/29/01	8260b	J	2.3	85.4	90.3	95.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH12-2

Report#/Lab ID#: 118713
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	81	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	106.3	50 - 150	---
1,2-Dichloroethane-d4	8260b	81.5	65-115	---
Toluene-d8	8260b	99.4	50-120	---

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



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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 118713 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH12-2

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.33	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Richard Laster

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Report

Report #/Lab ID#: 118724 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH11-15'

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 TNRCC-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.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH11-15'

Report#/Lab ID#: 118724
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	129	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	81	50 - 150	---
1,2-Dichloroethane-d4	8260b	91.7	65-115	---
Toluene-d8	8260b	97.3	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118724 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH11-15'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 09:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.5	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118723 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH11-10'

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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH11-10'

Report#/Lab ID#: 118723
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	79.9	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	85.7	50 - 150	---
1,2-Dichloroethane-d4	8260b	97	65-115	---
Toluene-d8	8260b	118	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118723 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82001BH11-10'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 09:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	5.66	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	J	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Respectfully Submitted,

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH11-5'

Report#/Lab ID#: 118722
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	96.3	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	86.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.9	65-115	---
Toluene-d8	8260b	103	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 118722 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH11-5'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 09:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	16.1	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	22.2	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Reception Report

Report #/Lab ID#: 118721 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BHH11-2'

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

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☐ 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 TNRCC-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	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH11-2'

Report#/Lab ID#: 118721
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none	MATRIX INT	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	103.6	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.2	65-115	---
Toluene-d8	8260b	96	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118721 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH11-2'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 08:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	41.2	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.8	100.1	97.1	104.1
m,p-Xylenes	27.2	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	106	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Exceptions Report:

Report #/Lab ID#: 118740	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82101BH10-15		

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 TNRCC-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
1,2-Dichloroethane-d4	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels).
1,2-Dichloroethane-d4	D	Surrogate recoveries not accurately quantifiable.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH10-15

Report#/Lab ID#: 118740
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	96.5	50-150	---
1,2-Dichloroethane-d4	8015 mod.	none/diluted	diluted @ 120X	D
1,2-Dichloroethane-d4	8260b	94.3	65-115	---
Toluene-d8	8260b	102	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118740 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82101BH10-15

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/21/2001 **Time:** 07:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.8	mg/Kg	1	<1	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatiles organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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 2000, 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,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH10-10

Report#/Lab ID#: 118739
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	93.9	50-150	---
1,2-Dichloroethane-d4	8015 mod.	96.1	50 - 150	---
1,2-Dichloroethane-d4	8260b	108	65-115	---
Toluene-d8	8260b	96.2	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118739 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82101BH10-10
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 07:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	61.1	mg/Kg	1	<1	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Report #/Lab ID#: 118738 **Matrix:** soil
Client: Environmental Plus, Inc.
Project ID: 2001-11043
Sample Name: ELW82101BH10-5

Attn: Pat McCasland

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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

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☐ 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 TNRCC-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 gasoline)	J	See J-flag discussion above.
Benzene	J	See J-flag discussion above.
p-Terphenyl	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	D	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH10-5

Report#/Lab ID#: 118738
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4	8015 mod.	86	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.4	65-115	---
Toluene-d8	8260b	114	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118738 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82101BH10-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 07:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1140	mg/Kg	200	<200	09/10/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	J	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	5	103.3	103.3	97.2
Ethylbenzene	117	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	215	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	74.2	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	206	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Exceptions Report:

Report #/Lab ID#: 118737 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH10-2

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

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH10-2

Report#/Lab ID#: 118737
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	95.3	50-150	---
1,2-Dichloroethane-d4	8015 mod.	82.8	50 - 150	---
1,2-Dichloroethane-d4	8260b	93.8	65-115	---
Toluene-d8	8260b	99.4	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118737 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82101BH10-2
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	34.3	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	59.1	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	J	3	94.2	108.4	98.9
Toluene	30.1	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118745 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH9-20

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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2001-11043 Sample Name: ELW82101BH9-20	Report#/Lab ID#: 118745 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	101	50-150	---
1,2-Dichloroethane-d4	8015 mod.	96.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	109	65-115	---
Toluene-d8	8260b	96.9	50-120	---

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





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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M. St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118745 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82101BH9-20

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/21/2001 **Time:** 09:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	7.87	mg/Kg	1	<1	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/31/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/31/01	8260b	J	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/31/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/31/01	8260b	J	0.4	89.9	104.9	84.5

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Exceptions Report:

Report #/Lab ID#: 118744 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH9-15

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).

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☐ 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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	X	
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	D	
p-Terphenyl	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	D	
Toluene-d8	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.
Toluene-d8	X	

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH9-15

Report#/Lab ID#: 118744
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 114.9X	D
1,2-Dichloroethane-d4	8260b	25.8	65-115	X
Toluene-d8	8260b	19.4	50-120	X

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118744 **Report Date:** 09/12/01
Project ID: 2001-11043
Sample Name: ELW82101BH9-15
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 08:47

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	5680	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	3230	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatiles organics-8260b/BTEX	---	---	---	---	08/31/01	8260b	---	---	---	---	---
Benzene	114	µg/Kg	100	<100	08/31/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	42600	µg/Kg	1000	<1000	08/31/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	77400	µg/Kg	1000	<1000	08/31/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	26500	µg/Kg	1000	<1000	08/31/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	27800	µg/Kg	1000	<1000	08/31/01	8260b	---	4.9	97.5	105.9	104.3

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#: 118743 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH9-10

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4(Surr)	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.
1,2-Dichloroethane-d4(Surr)	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	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	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	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	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:

Client: Environmental Plus, Inc.
Attn: Pat McCaslandProject ID: 2001-11043
Sample Name: ELW82101BH9-10Report#/Lab ID#: 118743
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4(Surr)	8015 mod.	none/diluted	diluted @ 108.9X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 118743 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82101BH9-10

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/21/2001 **Time:** 08:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	4650	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	4370	mg/Kg	1250	<1250	08/31/01	8015 mod.	---	0.29	81	80.6	98.17
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	1980	µg/Kg	1000	<1000	08/30/01	8260b	---	3.7	96	105.8	104.3
Ethylbenzene	66800	µg/Kg	1000	<1000	08/30/01	8260b	---	9.2	94.5	106.7	102.6
m,p-Xylenes	139000	µg/Kg	5000	<5000	08/30/01	8260b	---	6.2	89.5	100	95.9
o-Xylene	40800	µg/Kg	1000	<1000	08/30/01	8260b	---	22.5	91.4	102.5	98.5
Toluene	48500	µg/Kg	1000	<1000	08/30/01	8260b	---	4.9	97.5	105.9	104.3

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 2000, 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,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118742 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82101BH9-5

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 TNRCC-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
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	D	
1,2-Dichloroethane-d4	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.
1,2-Dichloroethane-d4	X	
p-Terphenyl	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	D	
Toluene-d8	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	D	

Notes:

2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH9-5

Report#/Lab ID#: 118742
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	none/diluted	diluted @ 4X	D
1,2-Dichloroethane-d4	8015 mod.	6.7	50 - 150	X
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 118742 **Report Date:** 09/10/01
Project ID: 2001-11043
Sample Name: ELW82101BH9-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/21/2001 **Time:** 08:23

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	3380	mg/Kg	200	<200	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	4880	mg/Kg	250	<250	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	2530	µg/Kg	1000	<1000	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	59800	µg/Kg	1000	<1000	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	107000	µg/Kg	1000	<1000	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	37600	µg/Kg	1000	<1000	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	49000	µg/Kg	1000	<1000	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Report #/Lab ID#: 118741 Matrix: soil
 Client: Environmental Plus, Inc.
 Project ID: 2001-11043
 Sample Name: ELW82101BH9-2'
 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 TNRCC-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
o-Xylene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82101BH9-2'

Report#/Lab ID#: 118741
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	90.7	50-150	---
1,2-Dichloroethane-d4	8015 mod.	110.1	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.4	65-115	---
Toluene-d8	8260b	100	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118741 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82101BH9-2'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/21/2001 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	09/04/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	39.3	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	66.7	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	J	3	94.2	108.4	98.9
Toluene	42.8	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118736	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82001BH8-15		

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

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Report#/Lab ID#: 118736
Sample Matrix: soil

Project ID: 2001-11043
Sample Name: ELW82001BH8-15

Client: Environmental Plus, Inc.
Attn: Pat McCasland

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	92.2	50-150	---
1,2-Dichloroethane-d4	8015 mod.	100	50 - 150	---
1,2-Dichloroethane-d4	8260b	113	65-115	---
Toluene-d8	8260b	109	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118736 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82001BH8-15
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 15:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/10/01	8015 mod	J	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	NA-	NA-	NA-	NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	0.4	89.9	104.9	84.5

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 2000, 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,

Richard Laster

Richard Laster

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). 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.

Exceptions Report:

Report #/Lab ID#: 118735 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH8-10

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 TNRCC-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.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH8-10

Report#/Lab ID#: 118735
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	110	50-150	---
1,2-Dichloroethane-d4	8015 mod.	83.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	94.5	65-115	---
Toluene-d8	8260b	91.2	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118735 **Report Date:** 09/11/01

Project ID: 2001-11043

Sample Name: ELW82001BH8-10

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 14:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	12.2	mg/Kg	1	<1	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatle organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

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Exceptions Report:

Report #/Lab ID#:118734	Matrix:soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2001-11043		
Sample Name: ELW82001BH8-5		

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GEAA 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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH8-5

Report#/Lab ID#: 118734
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	72.8	50-150	---
1,2-Dichloroethane-d4	8015 mod.	73.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	83.1	65-115	---
Toluene-d8	8260b	106	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 118734 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82001BH8-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 14:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	3.52	mg/Kg	1	<1	09/10/01	8015 mod	---	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	J	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	0.4	89.9	104.9	84.5

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Respectfully Submitted,

Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118733 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH8-2

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

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

J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
o-Xylene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH8-2

Report#/Lab ID#: 118733
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	64.7	50-150	---
1,2-Dichloroethane-d4	8015 mod.	86.9	50 - 150	---
1,2-Dichloroethane-d4	8260b	98.4	65-115	---
Toluene-d8	8260b	99.6	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118733 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82001BH8-2

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 14:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	23	mg/Kg	1	<1	09/07/01	8015 mod	---	15.1	108.7	109.4	78.1
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	J	12.2	88.5	110.1	103.4
m,p-Xylenes	26	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	J	3	94.2	108.4	98.9
Toluene	43	µg/Kg	20	<20	08/30/01	8260b	---	0.4	89.9	104.9	84.5

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Exceptions Report:

Report #/Lab ID#:118732 Matrix:soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH7-15

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

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- ☐ 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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH7-15

Report#/Lab ID#: 118732
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	87.1	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	90.6	50 - 150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	100	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118732 **Report Date:** 09/11/01

Project ID: 2001-11043

Sample Name: ELW82001BH7-15

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 13:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/10/01	8015 mod	J	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	J	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Acceptance Report:

Report #/Lab ID#: 118731 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH7-10

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH7-10

Report#/Lab ID#: 118731
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	103	50-150	---
1,2-Dichloroethane-d4	8015 mod.	85.8	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.2	65-115	---
Toluene-d8	8260b	99.9	50-120	---

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



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118731 **Report Date:** 09/11/01
Project ID: 2001-11043
Sample Name: ELW82001BH7-10
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 13:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/10/01	8015 mod	J	1.8	99.9	98	84.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	13.09	85.1	105.3	95.57
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	5	103.3	103.3	97.2
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	12.2	88.5	110.1	103.4
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	8.7	88.7	101.9	98.4
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	3	94.2	108.4	98.9
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	0.4	89.9	104.9	84.5

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 2000, 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,

Richard Laster

Richard Laster

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). S1 = MS and/or MSD recovery exceeds 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.

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH7-5

Report#/Lab ID#: 118730
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	112	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	92.9	50 - 150	---
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	103	50-120	---

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



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118730 **Report Date:** 09/07/01
Project ID: 2001-11043
Sample Name: ELW82001BH7-5
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 13:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Richard Laster

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Exceptions Report:

Report #/Lab ID#: 118729 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH7-2

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 TNRCC-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.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH7-2

Report#/Lab ID#: 118729
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	72.8	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	99.4	50 - 150	---
1,2-Dichloroethane-d4	8260b	112	65-115	---
Toluene-d8	8260b	99	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118729 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH7-2

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 13:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Richard Laster

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Report #/Lab ID#: 118728 Matrix: soil
 Client: Environmental Plus, Inc.
 Project ID: 2001-11043
 Sample Name: ELW82001BH6-15'

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 <= 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 TNRCC-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:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH6-15'

Report#/Lab ID#: 118728
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	79.6	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	85.8	50 - 150	---
1,2-Dichloroethane-d4	8260b	97.1	65-115	---
Toluene-d8	8260b	91.8	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118728 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH6-15'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 10:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/06/01	8015 mod	J	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Exceptions Report:

Report #/Lab ID#: 118727 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH6-10'

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).

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☐ 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 TNRCC-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.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH6-10'

Report#/Lab ID#: 118727
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	111	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	83.5	50 - 150	---
1,2-Dichloroethane-d4	8260b	94.5	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118727 **Report Date:** 09/07/01
Project ID: 2001-11043
Sample Name: ELW82001BH6-10'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	4.02	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH6-5'

Report#/Lab ID#: 118726
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	103	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	94.8	50 - 150	---
1,2-Dichloroethane-d4	8260b	107	65-115	---
Toluene-d8	8260b	98.5	50-120	---

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

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118726 **Report Date:** 09/07/01
Project ID: 2001-11043
Sample Name: ELW82001BH6-5'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 10:17

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.73	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	22.8	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Richard Laster

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Report #/Lab ID#: 118725 Matrix: soil
 Client: Environmental Plus, Inc.
 Project ID: 2001-11043
 Sample Name: ELW82001BH6-2'
 Attn: Pat McCasland

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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 TNRCC-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.
Toluene	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-111043
Sample Name: ELW82001BH6-2'

Report#/Lab ID#: 118725
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	71	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	102.2	50 - 150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	106	50-120	---

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 118725 **Report Date:** 09/07/01
Project ID: 2001-11043
Sample Name: ELW82001BH6-2'
Sample Matrix: soil
Date Received: 08/24/2001 **Time:** 16:00
Date Sampled: 08/20/2001 **Time:** 10:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<1	mg/Kg	1	<1	09/06/01	8015 mod	J	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	J	2.3	85.4	90.3	95.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH5-15'

Report#/Lab ID#: 118720
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	107	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	92	50 - 150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	94.8	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118720 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH5-15'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 08:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	2.33	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH5-10'

Report#/Lab ID#: 118719
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	112	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	89.6	50 - 150	---
1,2-Dichloroethane-d4	8260b	101	65-115	---
Toluene-d8	8260b	102	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118719 **Report Date:** 09/07/01

Project ID: 2001-11043

Sample Name: ELW82001BH5-10'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 08:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	1.02	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2001-11043
Sample Name: ELW82001BH5-5'

Report#/Lab ID#: 118718
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
p-Terphenyl	8015 mod	114	50-150	---
1,2-Dichloroethane-d4(Surr)	8015 mod.	77.2	50 - 150	---
1,2-Dichloroethane-d4	8260b	87.4	65-115	---
Toluene-d8	8260b	79	50-120	---

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

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 118718 **Report Date:** 09/10/01

Project ID: 2001-11043

Sample Name: ELW82001BH5-5'

Sample Matrix: soil

Date Received: 08/24/2001 **Time:** 16:00

Date Sampled: 08/20/2001 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	4.25	mg/Kg	1	<1	09/06/01	8015 mod	---	13.9	84.1	85.1	97.6
TPH by GC (as diesel-ext)	---	---	---	---	08/31/01	3540	---	-NA-	-NA-	-NA-	-NA-
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	08/29/01	8015 mod.	---	3.73	79.9	86.3	83.83
Volatile organics-8260b/BTEX	---	---	---	---	08/30/01	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	10.8	96.3	94.9	93.7
Ethylbenzene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.8	100.1	97.1	104.1
m,p-Xylenes	<20	µg/Kg	20	<20	08/30/01	8260b	---	3.3	94.3	91.5	97.1
o-Xylene	<20	µg/Kg	20	<20	08/30/01	8260b	---	16	95.3	93.4	116.2
Toluene	<20	µg/Kg	20	<20	08/30/01	8260b	---	2.3	85.4	90.3	95.5

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Exceptions Report:

Report #/Lab ID#: 118717 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2001-11043
Sample Name: ELW82001BH5-2'

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. 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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800
Odessa Texas 79763 Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ

Company Name: EOTT ENERGY PIPELINE

Company Address: 5805 E. HIGHWAY 80

City/State/Zip: MIDLAND TX 79701

Telephone No: 915-556-0190

Sampler Signature: *Bradley Blum*

Project Name: Livingston Bob McCasland

Project #: 2001-11043

Project Loc:

PO#:

Sample ID	Sample Description	Date Sampled	Time Sampled	No. of Containers	Analyze For																	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Special Instructions

FAX RESULTS TO PAT MCCASLAND ASAP

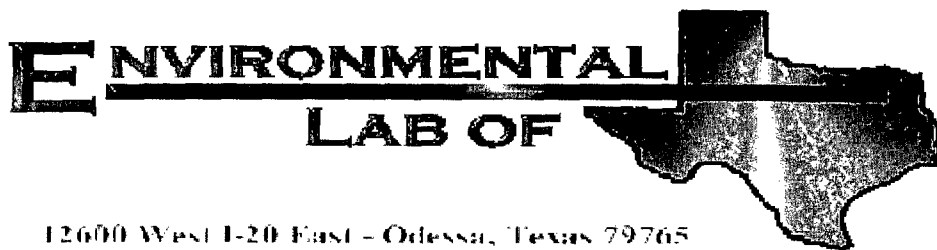
Relinquished: *Bradley Blum* Date: 1-7-02 Time: 1522 Received by: *Mate Coy*

Relinquished: *Mate Coy* Date: 1-7-2 Time: 1522 Received by: *James Mcmurray*

Sample Containers Int: Y N

Temperature Upon Request: -15°C

Laboratory Comments:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Jimmy Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Livingston Line - Bob McCasland

Project Number: 2001-11043

Location: UL-K Section 3 T21S R37E

Lab Order Number: 4F11008

Report Date: 08/16/04

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LLBM60704MW9(20'-22')	4F11008-01	Soil	06/07/04 09:25	06/11/04 10:50
LLBM60704MW9(25'-27')	4F11008-02	Soil	06/07/04 09:48	06/11/04 10:50
LLBM60804MW7(20'-22')	4F11008-03	Soil	06/08/04 08:40	06/11/04 10:50
LLBM60904MW8(20'-22')	4F11008-04	Soil	06/09/04 08:40	06/11/04 10:50
LLBM60904MW8(25'-27')	4F11008-05	Soil	06/09/04 09:00	06/11/04 10:50

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/16/04 12:42

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LLBM60704MW9(20'-22') (4F11008-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF41122	06/11/04	06/11/04	EPA 8021B	
Toluene	J [0.0243]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0800	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.200	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0436	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	55.5	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	290	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	346	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.0 %	70-130		"	"	"	"	
LLBM60704MW9(25'-27') (4F11008-02) Soil									
Benzene	0.0353	0.0250	mg/kg dry	25	EF41122	06/11/04	06/11/04	EPA 8021B	
Toluene	0.236	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.857	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.40	0.0250	"	"	"	"	"	"	
Xylene (o)	0.584	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	48.1	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	19.1	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	67.2	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.4 %	70-130		"	"	"	"	
LLBM60804MW7(20'-22') (4F11008-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF41122	06/11/04	06/11/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.1 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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.

Page 2 of 9

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LLBM60804MW7(20'-22') (4F11008-03) Soil									
Surrogate: 1-Chlorooctane		78.6 %	70-130		EF41120	06/11/04	06/11/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		73.0 %	70-130		"	"	"	"	
LLBM60904MW8(20'-22') (4F11008-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF41122	06/11/04	06/11/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.1 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.0 %	70-130		"	"	"	"	
LLBM60904MW8(25'-27') (4F11008-05) Soil									
Benzene	1.49	0.0250	mg/kg dry	25	EF41122	06/11/04	06/11/04	EPA 8021B	
Toluene	1.38	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.03	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.21	0.0250	"	"	"	"	"	"	
Xylene (o)	0.283	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		257 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		86.4 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	46.6	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	40.9	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	87.5	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.2 %	70-130		"	"	"	"	

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/16/04 12:42

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LLBM60704MW9(20'-22') (4F11008-01) Soil									
% Solids	86.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
LLBM60704MW9(25'-27') (4F11008-02) Soil									
% Solids	84.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
LLBM60804MW7(20'-22') (4F11008-03) Soil									
% Solids	91.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
LLBM60904MW8(20'-22') (4F11008-04) Soil									
% Solids	90.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
LLBM60904MW8(25'-27') (4F11008-05) Soil									
% Solids	86.0		%	1	EF41301	06/11/04	06/11/04	% calculation	

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

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
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Batch EF41120 - Solvent Extraction (GC)

Blank (EF41120-BLK2)

Prepared & Analyzed: 06/11/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	70-130			
Surrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			

LCS (EF41120-BS1)

Prepared & Analyzed: 06/11/04

Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	524	10.0	"	500		105	75-125			
Total Hydrocarbon C6-C35	964	10.0	"	1000		96.4	75-125			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			

LCS (EF41120-BS2)

Prepared & Analyzed: 06/11/04

Gasoline Range Organics C6-C12	411	10.0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	457	10.0	"	500		91.4	75-125			
Total Hydrocarbon C6-C35	868	10.0	"	1000		86.8	75-125			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	40.1		"	50.0		80.2	70-130			

LCS Dup (EF41120-BSD1)

Prepared & Analyzed: 06/11/04

Gasoline Range Organics C6-C12	453	10.0	mg/kg wet	500		90.6	75-125	2.91	20	
Diesel Range Organics >C12-C35	495	10.0	"	500		99.0	75-125	5.69	20	
Total Hydrocarbon C6-C35	948	10.0	"	1000		94.8	75-125	1.67	20	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	41.7		"	50.0		83.4	70-130			

Calibration Check (EF41120-CCV2)

Prepared & Analyzed: 06/11/04

Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
Diesel Range Organics >C12-C35	493		"	500		98.6	80-120			
Total Hydrocarbon C6-C35	918		"	1000		91.8	80-120			
Surrogate: 1-Chlorooctane	51.0		"	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

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
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Batch EF41120 - Solvent Extraction (GC)

Matrix Spike (EF41120-MS2)

Source: 4F11010-01

Prepared: 06/11/04 Analyzed: 06/12/04

Gasoline Range Organics C6-C12	481	10.0	mg/kg dry	538	ND	89.4	75-125			
Diesel Range Organics >C12-C35	555	10.0	"	538	ND	103	75-125			
Total Hydrocarbon C6-C35	1040	10.0	"	1080	ND	96.3	75-125			
Surrogate: 1-Chlorooctane	58.1		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	38.9		"	50.0		77.8	70-130			

Matrix Spike Dup (EF41120-MSD2)

Source: 4F11010-01

Prepared: 06/11/04 Analyzed: 06/12/04

Gasoline Range Organics C6-C12	470	10.0	mg/kg dry	538	ND	87.4	75-125	2.31	20	
Diesel Range Organics >C12-C35	558	10.0	"	538	ND	104	75-125	0.539	20	
Total Hydrocarbon C6-C35	1030	10.0	"	1080	ND	95.4	75-125	0.966	20	
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	40.4		"	50.0		80.8	70-130			

Batch EF41122 - EPA 5030C (GC)

Blank (EF41122-BLK1)

Prepared & Analyzed: 06/11/04

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	94.0		ug/kg	100		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	89.7		"	100		89.7	80-120			

LCS (EF41122-BS1)

Prepared & Analyzed: 06/11/04

Benzene	87.8		ug/kg	100		87.8	80-120			
Toluene	90.8		"	100		90.8	80-120			
Ethylbenzene	86.5		"	100		86.5	80-120			
Xylene (p/m)	174		"	200		87.0	80-120			
Xylene (o)	86.5		"	100		86.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	95.6		"	100		95.6	80-120			

Environmental Lab of Texas

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Page 6 of 9

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

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
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Batch EF41122 - EPA 5030C (GC)

Calibration Check (EF41122-CCV1)

Prepared & Analyzed: 06/11/04

Benzene	87.8		ug/kg	100		87.8	80-120			
Toluene	90.5		"	100		90.5	80-120			
Ethylbenzene	86.8		"	100		86.8	80-120			
Xylene (p/m)	173		"	200		86.5	80-120			
Xylene (o)	88.6		"	100		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.0		"	100		97.0	80-120			
Surrogate: 4-Bromofluorobenzene	92.7		"	100		92.7	80-120			

Matrix Spike (EF41122-MS1)

Source: 4F11001-04

Prepared & Analyzed: 06/11/04

Benzene	81.5		ug/kg	100	ND	81.5	80-120			
Toluene	81.8		"	100	ND	81.8	80-120			
Ethylbenzene	80.3		"	100	ND	80.3	80-120			
Xylene (p/m)	161		"	200	ND	80.5	80-120			
Xylene (o)	80.2		"	100	ND	80.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	89.4		"	100		89.4	80-120			
Surrogate: 4-Bromofluorobenzene	85.2		"	100		85.2	80-120			

Matrix Spike Dup (EF41122-MSD1)

Source: 4F11001-04

Prepared & Analyzed: 06/11/04

Benzene	86.8		ug/kg	100	ND	86.8	80-120	6.30	20	
Toluene	90.2		"	100	ND	90.2	80-120	9.77	20	
Ethylbenzene	87.1		"	100	ND	87.1	80-120	8.12	20	
Xylene (p/m)	174		"	200	ND	87.0	80-120	7.76	20	
Xylene (o)	87.1		"	100	ND	87.1	80-120	8.25	20	
Surrogate: a,a,a-Trifluorotoluene	98.2		"	100		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	91.1		"	100		91.1	80-120			

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
08/16/04 12:42

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF41301 - General Preparation (Prep)

Blank (EF41301-BLK1)

Prepared & Analyzed: 06/11/04

% Solids 100 %

Duplicate (EF41301-DUP1)

Source: 4F11001-01

Prepared & Analyzed: 06/11/04

% Solids 86.0 % 86.0 0.00 20

Duplicate (EF41301-DUP2)

Source: 4F12001-17

Prepared & Analyzed: 06/11/04

% Solids 86.0 % 87.0 1.16 20

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

Project: Livingston Line - Bob McCasland
Project Number: 2001-11043
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
08/16/04 12:42

Notes and Definitions

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:

Raland K. Tuttle

Date:

8/16/04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

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

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	11/16/04	8015 mod.	---	0.8	85.8	105	84.4
TPH by GC (as diesel-ext)	---	---	---	---	11/16/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/16/04	8015 mod.	---	0.5	87	100.3	90.1
Volatile organics-8260b/BTEX	---	---	---	---	11/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	12.5	81.5	92.7	93.2
Ethylbenzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	3.7	100.8	105.4	108.5
m,p-Xylenes	<40	µg/Kg	40	<40	11/22/04	8260b	---	2.7	96.7	103.6	103.7
o-Xylene	<20	µg/Kg	20	<20	11/22/04	8260b	---	4.3	103.4	110.7	111.9
Toluene	<20	µg/Kg	20	<20	11/22/04	8260b	---	12.4	97.7	98.3	98.8

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

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.

Client: Environmental Plus, Inc. Attn: Ian Olness	Project ID: 2001-11043 Sample Name: MW-10 (5')	Report#/Lab ID#: 161722 Sample Matrix: soil
--	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	75.1	30-125	---
	8015 mod.	86.2	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	82.6	56-120	---
	8260b	77.5	71-116	---

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 161723 **Report Date:** 11/24/04
Project ID: 2001-11043
Sample Name: MW-10 (15')
Sample Matrix: soil
Date Received: 11/16/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 11:03

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	11/16/04	8015 mod.	---	0.8	85.8	105	84.4
TPH by GC (as diesel-ext)	---	---	---	---	11/16/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/16/04	8015 mod.	---	0.5	87	100.3	90.1
Volatile organics-8260b/BTEX	---	---	---	---	11/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	12.5	81.5	92.7	93.2
Ethylbenzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	3.7	100.8	105.4	108.5
m,p-Xylenes	<40	µg/Kg	40	<40	11/22/04	8260b	---	2.7	96.7	103.6	103.7
o-Xylene	<20	µg/Kg	20	<20	11/22/04	8260b	---	4.3	103.4	110.7	111.9
Toluene	<20	µg/Kg	20	<20	11/22/04	8260b	---	12.4	97.7	98.3	98.8

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11043
Sample Name: MW-10 (15')

Report#/Lab ID#: 161723
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	72.9	30-125	---
	8015 mod.	85.2	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	88.4	56-120	---
	8260b	89.4	71-116	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11043
Sample Name: MW-10 (25')

Report#/Lab ID#: 161724
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	73.3	30-125	---
	8015 mod.	84.4	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	83.9	56-120	---
	8260b	85.1	71-116	---

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
 Eunice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 161725 **Report Date:** 11/24/04
Project ID: 2001-11043
Sample Name: MW-11 (5')
Sample Matrix: soil
Date Received: 11/16/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 08:16

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	11/16/04	8015 mod.	---	0.8	85.8	105	84.4
TPH by GC (as diesel-ext)	---	---	---	---	11/16/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/16/04	8015 mod.	---	0.5	87	100.3	90.1
Volatile organics-8260b/BTEX	---	---	---	---	11/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	13.2	73.3	107.4	92.5
Ethylbenzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	0.7	91.5	109.3	109.5
m,p-Xylenes	<40	µg/Kg	40	<40	11/22/04	8260b	---	5.6	89.8	107.9	108.5
o-Xylene	<20	µg/Kg	20	<20	11/22/04	8260b	---	3.6	83.4	115.6	112.3
Toluene	<20	µg/Kg	20	<20	11/22/04	8260b	---	11.3	89.7	120	113.6

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.

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11043 Sample Name: MW-11 (5')	Report#/Lab ID#: 161725 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	72.2	30-125	---
p-Terphenyl	8015 mod.	83	30-160	---
1,2-Dichloroethane-d4	8260b	80.2	56-120	---
Toluene-d8	8260b	86	71-116	---

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



Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euinee, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#Lab ID#: 161726 **Report Date:** 11/24/04
Project ID: 2001-11043
Sample Name: MW-11 (20')
Sample Matrix: soil
Date Received: 11/16/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 08:37

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	11/16/04	8015 mod.	---	0.8	85.8	105	84.4
TPH by GC (as diesel-ext)	---	---	---	---	11/16/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/16/04	8015 mod.	---	0.5	87	100.3	90.1
Volatile organics-8260b/BTEX	---	---	---	---	11/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	13.2	73.3	107.4	92.5
Ethylbenzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	0.7	91.5	109.3	109.5
m,p-Xylenes	<40	µg/Kg	40	<40	11/22/04	8260b	---	5.6	89.8	107.9	108.5
o-Xylene	<20	µg/Kg	20	<20	11/22/04	8260b	---	3.6	83.4	115.6	112.3
Toluene	<20	µg/Kg	20	<20	11/22/04	8260b	---	11.3	89.7	120	113.6

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11043
Sample Name: MW-11 (20')

Report#/Lab ID#: 161726
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	64.8	30-125	---
	8015 mod.	77.4	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	81.3	56-120	---
	8260b	89.9	71-116	---

Data Qualifiers: D= Surrogates outside advisory recovery limits.

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euinee, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 161727 **Report Date:** 11/24/04
Project ID: 2001-11043
Sample Name: MW-11 (25')
Sample Matrix: soil
Date Received: 11/16/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 08:43

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<2.5	mg/Kg	2.5	<2.5	11/16/04	8015 mod.	---	0.8	85.8	105	84.4
TPH by GC (as diesel-ext)	---	---	---	---	11/16/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/16/04	8015 mod.	---	0.5	87	100.3	90.1
Volatile organics-8260b/BTEX	---	---	---	---	11/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	5.2	72.8	109.5	97.8
Ethylbenzene	<20	µg/Kg	20	<20	11/22/04	8260b	---	3	80.9	100.2	96.3
m,p-Xylenes	<40	µg/Kg	40	<40	11/22/04	8260b	---	2.8	78.2	97.9	94
o-Xylene	<20	µg/Kg	20	<20	11/22/04	8260b	---	2.7	82.7	104.5	100
Toluene	<20	µg/Kg	20	<20	11/22/04	8260b	---	4.4	76.1	104.5	91.7

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11043 Sample Name: MW-11 (25')	Report#/Lab ID#: 161727 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	71.7	30-125	---
	8015 mod.	84	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	71.6	56-120	---
	8260b	86.4	71-116	---

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

Analysys Inc.

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

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

Chain of Custody Form

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																				
EPI Project Manager Iain Olness		PLAINS ALL AMERICAN PIPELINE, L.P.																						
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Payable																						
City, State, Zip Eunice New Mexico 88231		PO Box 4648,																						
EPI Phone#/Fax# 505-394-3481 / 505-394-2601		Houston, TX 77210-4648																						
Client Company Plains All American																								
Facility Name Livingston Line - Bob McCasland																								
Project Reference 2001-11043																								
EPI Sampler Name John Robinson																								
LAB I.D.	SAMPLE I.D.																							
161722	MW-10 (5')	(G) RAB OR (C) OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
161723	MW-10 (15')	G 1	1			X					X				8-Nov	10:51	X	X						
161724	MW-10 (25')	G 1	1			X					X				8-Nov	11:03	X	X						
161725	MW-11 (5')	G 1	1			X					X				8-Nov	11:22	X	X						
161726	MW-11 (20')	G 1	1			X					X				8-Nov	8:16	X	X						
161727	MW-11 (25')	G 1	1			X					X				8-Nov	8:37	X	X						
7															8-Nov	8:43	X	X						
8																								
9																								
10																								
Sampler Relinquished by: <i>John Robinson</i>		Received By:																						
Relinquished by: <i>John Robinson</i>		Received By: (lab staff)																						
Delivered by:		Sample Cool & Intact																						
		Yes No																						
		Checked By:																						

E-mail results to: iolness@hotmail.com

REMARKS:

T: 250

APPENDIX B

Site Information and Metrics

Informational Copy of Initial C-141

EOTT Site Information and Metrics		Incident Date: 7-13-01@11:30AM	NMOCD Notified: Not required
SITE: Livingston Ridge to Hugh Bob McCasland		Assigned Site Reference #: #2001-11043	
Company: EOTT			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Frank Hernandez			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 4 bbls		Recovered (bbls): 0 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Livingston Ridge to Hugh Bob McCasland			
Source of contamination: 4" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Bob McCasland			
LSP Dimensions: 200' x 8'			
LSP Area: 1,600 sqft ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: 32° 30' 17.9"N			
Longitude: 103° 9' 4.60"W			
Elevation above mean sea level:			
Feet from South Section Line:			
Feet from West Section Line:			
Location- Unit or ¼: SE¼ of the SW¼		Unit Letter: N	
Location- Section: 3			
Location- Township: T21S			
Location- Range: R37E			
Surface water body within 1000' radius of site: none			
Surface water body within 1000' radius of site:			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site:			
Depth from land surface to ground water (DG): 21 feet			
Depth of contamination (DC): 21 fet bgs			
Depth to ground water (DG - DC = DtGW): 0 feet			
1. Ground-Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points			
Ground water Score = 20		Wellhead Protection Area Score= 0	
Site Rank (1+2+3) = 20		3. Distance to Surface Water Body	
		<200 horizontal feet: 20 points	
		200-100 horizontal feet: 10 points	
		>1000 horizontal feet: 0 points	
		Surface Water Score= 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	≥19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis			

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 October 10, 2003

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

Informational Only

☒ Initial Report ☐ Final Report

Name of Company: EOTT	Contact: Frank Hernandez
Address: PO Box 1660 5805 Midland, Texas 79702	Telephone No.: 915.638.3799
Facility Name: Livingston Ridge to Hugh Bob McCasland	Facility Type: 4" Steel Pipeline

Surface Owner: Bob McCasland	Mineral Owner:	Lease No.:
-------------------------------------	-----------------------	-------------------

LOCATION OF RELEASE

Unit Letter N	Section 3	Township T21S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32° 30' 17.9"N Lon. 103° 9' 4.60"W
-------------------------	---------------------	-------------------------	----------------------	----------------------	-------------------------	----------------------	-----------------------	--

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 4 barrels	Volume Recovered: 0 barrels
Source of Release: 4" Steel Pipeline	Date and Hour of Occurrence: 7-31-01 @ 11:30 am	Date and Hour of Discovery: 7-13-01 @ 2:30 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Bill Olson	
By Whom? Pat McCasland, EPI	Date and Hour: Not required	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.* 4" Steel Pipeline Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of.

Describe Area Affected and Cleanup Action Taken.* 1,600 sqft 200' x 8' Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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 failed 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.

Signature:	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: Phone: 915.638.3799	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary