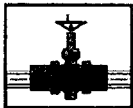


AP - 52

STAGE 1 & 2 WORKPLANS

DATE:

Oct. 2005



**PLAINS
PIPELINE**

October 19, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American Pipeline Stage 1 and 2
Abatement Plan
C. S. Cayler Release Site
Unit Letter B, Section 6, Township 17 South, Range 37 East
Lea County, New Mexico

IR-382
TRF TO A.P.
AP-52

Dear Mr. Martin:

Please find attached for your approval the Stage 1 and 2 Abatement Plan, dated October 2005, for the C.S. Cayler site located in Unit letter B, Section 6 of Township 17 South, and Range 37 East of Lea County, New Mexico. The Stage 1 and 2 Abatement Plan details site activities conducted to date and future activities for remediation and closure of the site.

Should you have any questions or comments, please contact me at (505) 441-0965.

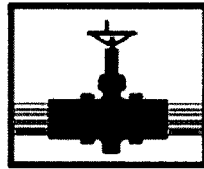
Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

Cc: Mr. Robert Rice, 74 Sycamore Drive, Redding, PA 19606

Enclosure



PLAINS
ALL AMERICAN
PIPELINE, L.P.

STAGE 1 AND STAGE 2 ABATEMENT PLAN

FOR THE

PLAINS MARKETING, L.P.
C.S. CAYLER
Ref.# 2002-10250

IR-382

Unit Letter-B, Section 6, T17S, R37E,
~7 miles southeast Lovington
Lea County, New Mexico
Latitude: 32° 52' 2.45"N Longitude: 103° 17' 17.73"W

Prepared for:
Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

October 2005

Prepared by:
Environmental Plus, Inc.
2100 West Avenue O / P.O. Box 1558
Eunice, New Mexico 88231
Telephone/FAX: 505•394•3481 / 505•394•2601



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NMOCD - New Mexico Oil Conservation Division

Plains - Plains Marketing, L.P.

EPI - Environmental Plus, Inc.

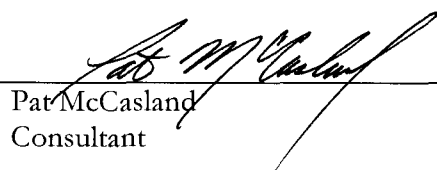
STANDARD OF CARE

Stage 1 and Stage 2 Abatement Plan

C.S. Cayler
Ref. # 2002-10250

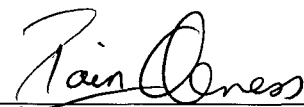
The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (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 the natural sciences.

This report was prepared by:


Pat McCasland
Consultant

18 October 2005
Date

This report was reviewed by:


Iain Olness, PG
Hydrogeologist

18 October 2005
Date

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- Appendix IV: Photographs
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- Appendix VI: Engineered Survey, Site Information and Metrics Form and NMOCD C-141

1.0 INTRODUCTION

Environmental Plus, Inc. (EPI), on behalf of Plains Marketing, L.P. (Plains), submits this Stage 1 and Stage 2 Abatement Plan to the New Mexico Oil Conservation Division (NMOCD), in accordance with 19.15.1.19 NMAC (Rule 19), for the investigation and remediation of the Plains C.S. Cayler crude oil release site Ref. #2002-10250. The initial release occurred in September of 2002 under the ownership of EOTT Energy Pipeline (EOTT changed its' name to Link Energy in September 2003) and as of April 1, 2004, Plains purchased the assets from Link Energy.

2.0 STAGE 1 ABATEMENT PLAN

Plains has achieved, with NMOCD consensus and participation, many of the Rule 19 Stage 1 & Stage 2 Abatement Plan objectives by delineating the soil and groundwater impacted by the crude oil release, removing accessible impacted soil, and recovering free crude oil product, (i.e., phase separated hydrocarbon) from the surface of the groundwater. This information will form the strategic basis for selecting viable groundwater and soil remediation alternatives.

2.1 STAGE 1 ABATEMENT PLAN OBJECTIVES AS PER NMOCD REGULATION 19.E (3)

Consistent with the Stage 1 Abatement Plan objectives, environmental investigations conducted prior to development of this Stage 1 Abatement Plan collected information to:

1. Bound the vertical and horizontal extent of crude oil contamination in the vadose zone;
2. Determine the areal distribution of phase separated hydrocarbon (PSH) on the groundwater; and
3. Delineate the dissolved phase hydrocarbons in the groundwater underlying the site.

The information adequately characterizes the petroleum hydrocarbon impact in the vadose zone, as well as, identifies site-specific geologic and hydrologic metrics. The prior work also identified the need for further groundwater delineation. The Quality Assurance Plan, included as Appendix V, guided implementation of critical technical protocols and ensured credibility and usability of all data and information. The focus and scope of this Stage 1 Abatement Plan are as follows:

- Designate "responsible person" relative to plan submittal;
- Describe and map site, provide historical information including previous investigations;
- Characterize site:
 1. Define geology and hydrogeology (i.e., hydraulic conductivity, transmissivity and Storativity);
 2. Determine vertical and horizontal extents and magnitude of vadose-zone and groundwater contamination:
 - a) Collect discrete soil samples with a sample probe from depths as necessary below ground surface to determine vertical extent of hydrocarbon contamination,
 - b) Screen all samples using a Photoionization Detector (PID) and record results,
 - c) Analyze all samples for total petroleum hydrocarbon (TPH^{8015m}) using EPA method 8015M and benzene, toluene, ethylbenzene, and m, o, & p xylenes (BTEX) using EPA method 8020;
 3. Determine rate and direction of contaminant migration;
 4. Provide inventory of water wells inside and within one (1) mile from the perimeter of the three-dimensional body where the standards are exceeded;
 5. Provide location and number of wells actually or potentially affected by the pollution;

6. Define surface-water hydrology;
 7. Determine seasonal stream flow characteristics;
 8. Determine groundwater/surface water relationships; and
 9. Determine the vertical and horizontal extent and magnitude of contamination and impacts to surface water and stream sediments.
- Establish Monitoring Program;
 1. Sampling station locations
 2. Sampling frequencies
 - Establish a Quality Assurance Plan consistent with 20 NMAC 6.3107.B and 20 NMAC 6.1 for all work pursuant to this abatement plan;
 - Submit a schedule of Stage 1 abatement plan activities;
 - Submit annual of progress reports; and
 - Submit a detailed final site investigation report.

2.2 "RESPONSIBLE PERSON"

The "Responsible Person" for the Stage 1 and Stage 2 Abatement Plan is:

Ms. Camille Reynolds
District Environmental Coordinator
Plains Marketing, L.P.
3112 West U.S. Highway 82
Lovington, New Mexico 88260
email address- CJReynolds@paalp.com

2.3 RELEASE EVENT AND MITIGATION

The estimated 70 barrel (bbls) crude oil release from the 8" steel pipeline was discovered, reported to the NMOCD (reference Appendix VI) and repaired, on September 19, 2002. The release was attributed to either internal or external corrosion and impacted approximately 2,199 square feet (ft²) (70' x 30') of surface area (reference Figures 3 and 4). There was no crude oil recovered. It was also observed that the ground surface beyond the current spill area perimeter had apparently been impacted by a historical spill or spills; however, the source(s) and date(s) are not known. The line was subsequently replaced.

2.4 PROJECT ORGANIZATION AND RESPONSIBILITY

Environmental Plus, Inc., Eunice, New Mexico (EPI) was contracted by Plains to mitigate the release and conducted the field investigations. Plains personnel provided operational support and coordination. AnalySys, Inc. (Austin, Texas) and Environmental Lab of Texas (Odessa, Texas) performed the laboratory analyses and provided analytical reports.

2.5 PROJECT SAFETY

Hazards that were encountered at the site include the following;

- Moving equipment
- Buried pipelines
- Rotary equipment
- Driving
- Excavation
- Potential hydrogen sulfide gas

Prior to drilling or excavation, NEW MEXICO ONE CALL was notified of activities, and provided a list of companies they notified and a ONE CALL confirmation number. Employees and subcontractors were required to confirm current training in these hazards. Standard personal protective equipment included;

- Personal H₂S Monitor
- Hard-hat
- Steel Toed Boots/Shoes and gloves

2.6 SITE DESCRIPTION AND HISTORICAL USE

The area has been used historically for livestock grazing and access to oil and gas production facilities.

2.7 LEGAL DESCRIPTION

The site is owned by Robert C. Rice and located approximately 7-miles southeast of Lovington, Lea County, New Mexico in the northwest ¼ of the northeast ¼ (also referred to as Unit Letter-B) of Section 6, Township 17 South (T17S), Range 37 East (R37E) at a latitude of 32° 52' 2.45"N and a longitude of 103° 17' 17.73"W (reference Figure 1).

2.8 PHOTOGRAPHIC DOCUMENTATION

Photographs are provided in Appendix IV.

2.9 ECOLOGICAL DESCRIPTION

The area is typical of the Lower Great Plains Biome consisting primarily of Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses and weeds. Mammals represented include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, amphibians, and birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.10 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and groundwater were characterized consistent with the New Mexico Oil Conservation Division (NMOCD) guidelines published in the following documents as applicable;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Normally acceptable remedial thresholds/goals for contaminants of concern (i.e., TPH^{8015m} and BTEX) were determined based on the following:

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

However, site specific risk based thresholds may be developed and proposed.

2.10.1 Area Groundwater Levels

Based on groundwater level measurements of monitoring wells installed at the site, the groundwater is known to occur between 71'bgs and 73'bgs and is consistent with the New Mexico Office of the State Engineer database. (Reference Figures 2 and 17)

2.10.2 Water Well Inventory

The New Mexico Office of the State Engineer records the following water wells for Section 6, T17S, R37E, in which the site is located, and adjacent sections. The distance and direction from the site and the ground surface elevation were interpolated from the USGS topographical map.

Plains Pipeline, L.P. C.S. Cayler #2002-10250 Water Wells within a 1-mile radius of the site and Ground Water Levels										
Source	Well ID#	T	R	S	Northing	Easting	Measurement Date	Water Level 'bgs ³	Distance and direction from Site	Altitude ² (At Ground Surface) 'amsl ⁴
NMOSE ¹	1350	16S	36E	36	658945	3638695	1/12/1952	55	1.0 mile nw	3,825
NMOSE	10652	16S	37E	31	659951	3638207	4/10/1997	72	0.3 mile nnw	3,811
NMOSE	2487	16S	37E	32	661066	3638328	2/7/1954	35	0.7 mile ne	3,804
NMOSE	10633	17S	36E	1	659077	3636581	5/10/2001	80	0.9 mile sw	3,809
NMOSE	1107	17S	37E	5	660846	3638019	4/16/1951	38	0.5 mile ene	3,802
NMOSE	9649	17S	37E	5	660961	3637113	6/18/1985	65	0.7 mile se	3,797
NMOSE	9677	17S	37E	5	661169	3636911	5/7/1985	68	0.8 mile se	3,795
NMOSE	10015	17S	37E	5	661571	3637313	8/5/1988	70	0.9 mile e	3,795
NMOSE	10143	17S	37E	5	661363	3637118	8/26/1990	55	0.8 mile ese	3,793
NMOSE	10324	17S	37E	5	661462	3637217	4/29/1993	70	0.9 mile ese	3,793
NMOSE	10894	17S	37E	5	661371	3636714	9/9/1998	76	1.0 mile se	3,792
NMOSE	11644	17S	37E	5	661665	3637222	6/8/2004	61	1.0 mile ese	3,790
NMOSE	2474	17S	37E	6	659375	3637091	1/14/1954	40	0.6 mile sw	3,810
NMOSE	449	17S	37E	6	660363	3636900	5/11/2005	118	0.5 mile s	3,800
NMOSE	4712	17S	37E	7	660269	3636396	9/11/1961	75	0.8 mile s	3,799
NMOSE	4359	17S	37E	7	659666	3636390	1/10/2004	75	0.9 mile ssw	3,804
NMOSE	10021	17S	37E	7	660671	3636401	7/19/1988	70	0.9 sse	3,796
Plains	CS Cayler	17S	37E	6	660671	3636401	7/19/1988	72	--	3,805

¹NMOSE - New Mexico Office of the State Engineer
²Ground surface altitudes are interpolated from the USGS Map
³'bgs - feet below ground surface
⁴'amsl - feet above mean sea level

2.10.3 Water Wells Actually or Potentially Affected by the Pollution

There are no water wells actually affected by the crude oil release at the C.S. Cayler site. The nearest up-gradient well, (i.e., water well #10652) is located approximately 0.3 mile north northwest of the site and the nearest down-gradient well, (i.e., water well #449) is located approximately 0.5 mile south of the site.

2.10.4 Geology

According to "Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico, A. Nicholson, Jr. and A. Clebsch, Jr., United State Geological Survey, 1961," (USGS Report #6) the Ogallala formation mantles the High Plains Physiographic Region in the area of Lea County north of Hobbs, New Mexico, and ranges in thickness from 100 to 250 feet. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet because of the very irregularly eroded Triassic surface that underlies it. The Ogallala sands are overlain with an

indurated and fractured calcium carbonate caliche cap up to 60-feet thick. Site delineation activities confirmed the presence of a 23-foot to 26-foot thick caliche cap underlain by fine to medium-grained sand. According to the USGS Report #6, the hydraulic conductivity of the fine to medium grained Ogallala sand ranges from 1 to 10 gallons per day/ft².

2.10.5 Aquifer Recharge

Soil borings identified a 2-inch thick surface layer of brown sandy clay loam, underlain by a 23-foot to 26-foot thick interbed of indurated and fractured caliche that overlays the fine to medium-grained sand of the Ogallala Formation. No impermeable clay interbeds were encountered during site investigation activities, suggesting that the upper most unconfined aquifer is capable of being recharged from the surface. This observation is consistent with USGS Report #6. (i.e., "The recharge of the Ogallala on the High Plains is due entirely to precipitation, as the formation is topographically high and isolated.")

2.10.6 Depth to Groundwater Calculation

The NMOCD requires the site be ranked to determine which remedial goals apply and defines depth to groundwater as, "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the groundwater." The uppermost occurrence of groundwater is at approximately 72'bgs. The lower most contamination occurs at the interface of the vadose zone and the water table, (i.e., free product on the water table). The calculated NMOCD depth to groundwater is essentially 0.0' bgs since the lowermost contamination occurs at the groundwater interface.

2.10.7 Groundwater Gradient and Flow Direction

The monitor wells installed at the site were surveyed and the groundwater gradient trigonometrically determined to be approximately 135° from north, (i.e., to the southeast) (reference Figures 17 through 21). The calculated groundwater gradient of 0.001 feet/foot gives a maximum groundwater transport velocity of 0.05 feet per day or 18.25 feet per year, assuming a maximum hydraulic conductivity of 10 gallons per day/ft² and an effective porosity of 0.2. As groundwater monitoring information is collected and plume movement determined, the groundwater transport velocity will be better defined.

2.10.8 Wellhead Protection Area

There are no water wells within a 1,000-foot radius of the site.

2.10.9 Distance to Nearest Surface Water Body

There are no surface water bodies within a 1,000-foot radius of the site.

2.10.10 Seasonal Stream Flow Characteristics

There are no seasonal stream beds or well defined drainages associated with the site.

2.11 DELINEATION OF NATURE, EXTENT, AND MAGNITUDE OF CONTAMINATION (19NMAC15.A.19.E(3)(B)(I), (II))

Initial delineation activities commenced on September 24, 2002, culminating in the installation of monitoring well MW1 and the start of routine site surveillance to measure groundwater and PSH levels and recover PSH. By July 2003, approximately 7,011 cubic yards (yd³) of visibly impacted and odorous soil had been excavated and separated into approximately 2,314 yd³ of landfarmable soil and approximately 4,697 yd³ of rock. The mechanical separation process, (i.e., shredding) was also a remediation process that aerated the soil and promoted volatilization of the volatile organics. With the knowledge of the NMOCD, the soil has been spread into a lift to promote natural attenuation of the crude oil source term and is turned and aerated semi-annually to promote attenuation and is tested semi-annually. The rock is stockpiled on site. It is contemplated, upon NMOCD approval, to use the

attenuated soil and rock as backfill. The excavation is five to seven feet deep and encompasses an area of approximately 26,292 ft², considerably larger than the initial spill area perimeter of 2,199 ft² and is indicative of a previous crude oil release or releases at the site. Soil delineation information collected in 2004, during installation of monitoring wells MW2 through MW10, indicate that the impacted soil column does not extend laterally beyond the excavation perimeter. The Stage 2 Abatement Plan proposes to collect samples from the sidewalls of the excavation to confirm adequate horizontal removal of impacted soil.

2.11.1 Highly Contaminated/Saturated Soils

Soils associated with the center of the excavation and the leak origin (i.e., around monitoring wells MW1 and MW2), from the near surface to the groundwater vadose zone interface are "highly contaminated." Impacted soils to 7' bgs have been excavated.

2.11.2 Unsaturated Contaminated Soils

The excavated soil spread into the natural attenuation cell is contaminated above the NMOCD guideline threshold (i.e., 100 mg/Kg) for TPH^{8015m} and is unsaturated. CoC concentration in the soil diminish laterally with increased distance from the source area.

2.11.3 Groundwater Contamination

The groundwater at this site is impacted.

2.11.4 Other Relevant Media Contamination

There are no other observable or relevant media present at the site.

2.11.5 Background (Up-gradient) Sample Results

Monitoring well MW8 was installed up-gradient of the site to bound the areal distribution of the dissolved phase hydrocarbon associated with the site and afford accurate determination of the local groundwater gradient and flow direction. The soil samples collected during installation of monitoring well MW8 were not impacted above the respective analytes method detection limits and can be considered representative of background soil. Groundwater in monitoring well MW8 is impacted with dissolved phase petroleum hydrocarbon. An off-set well is being proposed approximately 90-feet up-gradient of monitoring well MW8.

2.11.6 Identification of Remedial Action Levels

Remedial goals for soil in this area are the most stringent due to the shallow occurrence of groundwater.

2.11.7 NMOCD Site Rank

The matrix below ranks the site based on the depth to Groundwater, wellhead protection area and the distance to surface water bodies. The soil samples collected during delineation and monitoring well installation were analyzed for the NMOCD CoCs, (i.e., TPH^{8015M} and BTEX).

1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: 20	If <1000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: 10		200-100 horizontal feet: 10 points
If Depth to GW >100 feet: 0	If >1000' from water source, or; >200' from private domestic water source: 0 points	>1000 horizontal feet: 0 points
Groundwater Score = 20 (10)	Wellhead Protection Area Score= 0	Surface Water Score= 0
Site Rank (1+2+3) = 20 (10)		

2.11.8 Remedial Action Levels

The soil and groundwater will be remediated to acceptable levels approved by the NMOCD.

2.11.8.1 Soil Remedial Action Levels

Site soils will be remediated to the extent that the remaining CoCs will not be capable of impacting local groundwater or affecting revegetation of the surface and may be in excess of the NMOCD remedial goals prescribed according to the site rank. A risk-base closure relying on the installation of an impermeable barrier is being proposed that will permanently isolate the crude oil source term below 7 'bgs and will eliminate the vertical migration pathway.

2.11.8.2 Groundwater Remedial Action Levels

The New Mexico Water Quality Control Commission (WQCC) groundwater maximum contaminant levels for the CoCs codified in **20 NMAC 6.2.3103.A** will apply to site groundwater.

2.12 PROPOSED BOREHOLE SAMPLING LOCATIONS

Additional boreholes inside the perimeter of the excavation may be necessary to further define the lateral extent of the contaminated soil column, but are not currently being proposed. Soil samples will be collected and analyzed during the installation of the six additional monitoring wells (i.e., MW11 through MW16) being proposed to further delineate the PSH and dissolved phase impacts at the site. (Reference Figure 30)

2.13 MONITORING PROGRAM (19NMAC15.A.19.E(3)(C))

Plains currently implements a groundwater monitoring and product recovery program and routinely monitors impacted soil currently in the attenuation cell on site. The results of these programs are reported annually to the NMOCD. These monitoring and surveillance programs will become a part of the Stage 2 Abatement Plan.

2.14 SCHEDULE FOR STAGE 1 ABATEMENT PLAN IMPLEMENTATION

Information collected during site delineation activities conducted by Plains was under the purview and consensus of the NMOCD and satisfy the Stage 1 Abatement Plan information requirements. The delineation information is summarized in the Stage 2 Abatement Plan.

3.0 STAGE 2 ABATEMENT PLAN

The objective of the Stage 2 Abatement Plan will be to abate soil and groundwater contamination to acceptable levels as delineated and identified during implementation of the Stage 1 Abatement Plan. The information collected to date provides information sufficient to select an abatement strategy and develop this Stage 2 Abatement Plan. Details of current surveillance, product recovery and site remediation can be found in the 2004 annual report titled, "Plains Pipeline, L.P., 2004 Annual Monitoring Report, C.S. Cayler Ref. # 2002-10250."

3.1 STAGE 1 DELINEATION INFORMATION SUMMARY

Initially, to delineate the distribution of crude oil impacts at the site, soil samples were collected from four soil borings in September 2002 and during installation of nine monitoring wells in May, June and October 2004. The soil samples collected were analyzed in field for the presence of organic vapors using a calibrated UltraRAE[®] photoionization detector (PID). Selected samples were prepared and submitted to an independent laboratory for analysis of the NMOCD "constituents of concern" (CoCs), (i.e., total petroleum hydrocarbons using EPA method SW846-8015M (TPH^{8015M}), and benzene, toluene, ethylbenzene, and m,p,&o xylenes (BTEX) using EPA method SW846-8260B). All samples

were collected consistent with the Quality Assurance Plan (reference Appendix V). The laboratory reports are provided in Appendix II, illustrated in Figures 5 through 16, and summarized in Tables 1 and 2.

3.1.1 2002 Soil Investigation and Response to Findings

With prior notification of the NMOCD, site delineation began on September 24, 2002 with the advancement of four strategically located soil borings (reference Figure 3). The soil borings were advanced with an air rotary drilling rig with an 8³/₄-inch diameter drill bit and the discrete interval samples collected with a clean 2-inch by 24-inch stainless steel split spoon. During delineation activities, crude oil impact was delineated to the interface of the vadose zone and the groundwater at approximately 78-feet below ground surface ('bgs) in soil boring BH1. Soil boring BH1 was subsequently completed as a 2-inch PVC cased monitoring well, (i.e., MW1). ~~Following development of monitoring well MW1, approximately 11 feet of phase separated hydrocarbon (PSH) was observed on top of the groundwater.~~ The NMOCD Santa Fe and Hobbs, New Mexico offices and the landowner were immediately notified of the groundwater impact in excess of the New Mexico Water Quality Control Commission (WQCC) standards as codified in 20 NMAC 6.2.3103 A. In response to this finding, routine site surveillance began immediately to measure groundwater and PSH levels and recover PSH. Plains also initiated the development of a more extensive soil and groundwater delineation plan to bound the areal distribution of PSH and dissolved phase hydrocarbon.

3.1.2 2004 Soil Investigation

To further delineate the areal distribution of impacted soil, PSH and dissolved phase impacted groundwater, the NMOCD approved the May and June 2004 installation of monitoring wells MW2 through MW5 and the October 2004 installation of monitoring wells MW6 through MW10. The monitoring well locations are illustrated on the site maps included as Figures 4 and 18 through 26. During the installation of the monitoring wells, soil samples were collected at 5-foot vertical intervals, beginning at 5'bgs to the interface of the vadose zone and groundwater.

3.1.2.1 Monitoring wells MW2 through MW5 Installation

An air rotary drilling rig with an 8³/₄-inch diameter drill bit was used to install monitoring wells MW2 through MW5 and soil sampling was accomplished with a 6¹/₈-inch stainless steel split spoon sampler. Each well was constructed of O-ring sealed threaded 4-inch diameter PVC casing, screen and well point (reference the monitoring well diagrams included in Appendix III).

3.1.2.1.1 Monitoring Well MW2 (4" PVC)

Monitoring well MW2 is located in the floor the excavation approximately 75-feet northwest of monitoring well MW1. The well was completed to a depth of 82'bgs and screened from 67'bgs to 82'bgs with 0.010-inch slotted screen. ~~PSH thickness in the well after development was approximately 10.59 feet.~~ PID readings of soil samples collected during advancement of the well bore ranged from 1,282 ppm at 13-15'bgs to 2,999 ppm at 73-75'bgs. The TPH concentrations ranged from 3,690 mg/Kg in the 13-15'bgs sample to 38,100 mg/Kg in the 73-75'bgs sample. Benzene concentrations ranged from 57.6 mg/Kg in the 73-75'bgs sample to 0.449 mg/Kg in the 43-45'bgs sample. BTEX concentrations ranged from 853.2 mg/Kg in the 73-75'bgs sample to 32.1 mg/Kg in the 43-45'bgs sample. The soil data collected during the installation of monitoring well MW2 indicates the soil column located approximately 75-northwest of the leak origin is impacted above the NMOCD CoC remedial goals down to groundwater.

3.1.2.1.2 Monitoring Well MW3 (4" PVC)

Monitoring well MW3 is located 75-feet north of MW1 and was advanced to a depth of 90'bgs and screened from 75'bgs to 90'bgs with 0.010-inch slotted screen. ~~PSH thickness in the well after development was approximately 6.92 feet.~~ PID readings of soil samples collected during advancement of the well bore ranged from 38.5 ppm at 13-15'bgs to 1,770 ppm at 68-70'bgs. The 13-15'bgs and the 43-45'bgs samples were not submitted to the laboratory for CoC analyses. The TPH concentrations ranged from <10 mg/Kg in the 58-60'bgs sample to 32,100 mg/Kg in the 68-70'bgs sample. BTEX concentrations ranged from <0.025 mg/Kg in the 58-60'bgs sample to 1,181 mg/Kg in the 68-70'bgs sample. Benzene concentrations ranged from <0.025 mg/Kg in the 58-60'bgs sample to 171 mg/Kg in the 68-70'bgs sample. The soil data collected during the installation of monitoring well MW3 indicates the soil column down to approximately 55'bgs is not impacted above the NMOCD CoC remedial goals; however, soil at depths greater than 55'bgs to groundwater interface is impacted above the NMOCD CoC remedial goals. The PID headspace concentrations detected in the samples collected from the surface down to 55'bgs are likely to have dispersed laterally from the adjacent crude oil contaminated soil column to the west. Because the PID concentration gradient increases with depth and TPH was not detected in the 58-60'bgs sample, it is concluded that the petroleum hydrocarbon detected in the 68-70'bgs sample is emanating from the PSH accumulated on top of the water table and migrating laterally.

3.1.2.1.3 Monitoring Well MW4 (4" PVC)

Monitoring well MW4 is located 65-feet east of monitoring well MW1, approximately 20-feet outside of the excavation perimeter. Monitoring well MW4 was advanced to a depth of 90'bgs and screened from 75'bgs to 90'bgs with 0.010-inch slotted screen. ~~PSH thickness in the well after development was approximately 9.40 feet.~~ PID readings of soil samples collected during advancement of the well bore ranged from 0.0 ppm at 43-45'bgs to 1,353 ppm at 73-75'bgs. The 13-15'bgs and the 43-45'bgs samples were not submitted to the laboratory for CoC analyses. TPH concentrations ranged from <10 mg/Kg in the 58-60'bgs sample to 27,150 mg/Kg in the 73-75'bgs sample. BTEX concentrations ranged from <0.025 mg/Kg in the 58-60'bgs sample to 326.1 mg/Kg in the 73-75'bgs sample. Benzene ranged from <0.025 mg/Kg in the 58-60'bgs sample to 13.7 mg/Kg in the 73-75'bgs sample. The soil data collected during the installation of monitoring well MW4 indicates the soil column down to approximately 55'bgs is not impacted above the NMOCD CoC remedial goals; however, soil at depths greater than 55'bgs to groundwater interface is impacted above the NMOCD CoC remedial goals. Nominal headspace concentrations were detected in the samples collected from the surface down to 65'bgs. Because the headspace concentrations from the surface to 63-65'bgs were nominal and were elevated from 68'bgs to 75'bgs and TPH was not detected in the 58-60'bgs sample, it is concluded that the petroleum hydrocarbon detected in the 68-70'bgs sample is emanating from the PSH accumulated on top of the water table and migrating laterally.

3.1.2.1.4 Monitoring Well MW5 (4" PVC)

Monitoring well MW5 is located 70-feet south of MW1, approximately 10-feet outside the excavation. Monitoring well MW5 was advanced to a depth of 90'bgs and screened from 75'bgs to 90'bgs with 0.010-inch slotted screen. ~~PSH were not detected in the well after development.~~ PID readings of soil samples collected during advancement of the well bore ranged from 144 ppm at 13-15'bgs to 1,409 ppm at 68-70'bgs. The 13-15'bgs and the 43-45'bgs samples were not submitted to the laboratory for CoC analyses. The TPH concentrations ranged from 15.8 mg/Kg in the 53-55'bgs sample to 43,600 mg/Kg in the 68-70'bgs sample. BTEX concentrations ranged from <0.025 mg/Kg in the 53-55'bgs sample to 1,168.9 mg/Kg in the 68-70'bgs sample. Benzene ranged from 216 mg/Kg in the 68-70'bgs sample to <0.025 mg/Kg in the 53-55'bgs sample. PID headspace concentrations from soil samples collected from the surface down to the interface of the vadose zone and the groundwater were all above 100 ppm, but are likely the result of lateral pore space dispersion of the volatile organics from the impacted soil column to the north rather than a previous saturation event. The nominal TPH

concentration of the soil sample collected at the 53-55' bgs interval suggests that the elevated TPH concentrations detected in the samples from 68' bgs to 75' bgs are emanating from the groundwater; however, PSH was not detected.

3.1.2.2 Monitoring wells MW6 through MW10 Installation

A hollow stem auger drilling rig with an 8¼-inch diameter drill bit was used to install monitoring wells MW6 through MW10 and soil sampling was accomplished with a 4¼-inch stainless steel split spoon. Each well was constructed of O-ring sealed threaded 2-inch diameter PVC casing, screen and well point (reference the monitoring well diagrams included in Appendix III).

3.1.2.2.1 Monitoring Well MW6 (2" PVC)

Monitoring well MW6 is located 135-feet west-southwest of MW1 approximately 15-feet outside the west edge of the excavation. Monitoring well MW6 was advanced to a depth of 85' bgs and screened from 70' bgs to 85' bgs with 0.020-inch slotted screen. PSH were not detected in the well after development. PID readings of soil samples collected during advancement of the well bore ranged from 26.8 ppm at 33-35' bgs to 654 ppm at 73-75' bgs. TPH, benzene and BTEX were not detected above the respective method detection limits, (i.e., TPH = <5.0 mg/Kg and benzene and BTEX = <0.020 mg/Kg) in the 33-35' bgs, 63-65' bgs and 73-75' bgs samples. The laboratory results from analysis of samples collected from monitoring well MW6 support the conclusion that the soil from the surface down to groundwater is not impacted above the NMOCD remedial goals.

3.1.2.2.2 Monitoring Well MW7 (2" PVC)

Monitoring well MW7 was installed 145-feet west-northwest of monitoring well MW1 and is located approximately 20-feet from the northwest edge of the excavation perimeter. Monitoring well MW7 was advanced to a depth of 85' bgs and screened from 70' bgs to 85' bgs with 0.020-inch slotted screen. A PSH thickness of 0.23-feet was observed in this monitoring well after development. PID readings of soil samples collected during advancement of the well bore ranged from 28.1 ppm at 30-35' bgs to 223 ppm at 74-75' bgs. TPH, benzene and BTEX were not detected in the 30-35' bgs and 50-55' bgs samples above the respective method detection limits, (i.e., TPH = <5.0 mg/Kg and benzene and BTEX = <0.020 mg/Kg). The TPH, benzene, and BTEX concentrations in the 74-75' bgs sample were 3,130 mg/Kg, 20.3 mg/Kg, and 239 mg/Kg, respectively. PID headspace concentrations detected in the soil samples collected from the surface to 63-65' bgs were less than 100 ppm and are likely the result of lateral pore space dispersion of the volatile organics from the impacted soil column to the southeast rather than a previous saturation event. Soil to at least 55' bgs in the monitoring well MW7 location is not impacted above the NMOCD CoC remedial goals. The 74-75' bgs soil sample exceeds the NMOCD CoC remedial goals and likely emanates from the PSH accumulated on top of the groundwater.

3.1.2.2.3 Monitoring Well MW8 (2" PVC)

Monitoring well MW8 was installed 200-feet northwest of monitoring well MW1 and is located approximately 25-feet from the excavation perimeter. Monitoring well MW8 was advanced to a depth of 85' bgs and screened from 70' bgs to 85' bgs with 0.020-inch slotted screen. PSH were not detected in the well bore after development. PID readings of soil samples collected during advancement of the well bore ranged from 21.3 ppm at 30-35' bgs to 75.1 ppm at 74-75' bgs. TPH, benzene and BTEX were not detected above the respective method detection limits, (i.e., TPH = <5.0 mg/Kg and benzene and BTEX = <0.020 mg/Kg) in the 30-35' bgs, 45-50' bgs, or the 74-75' bgs samples.

3.1.2.2.4 Monitoring Well MW9 (2" PVC)

Monitoring well MW9 is located 175-feet northeast of monitoring well MW1 and was advanced to a depth of 85'bgs and screened from 70'bgs to 85'bgs with 0.020-inch slotted screen. PSH were not detected in the well bore after development. PID readings of soil samples collected during advancement of the well bore ranged from 42.6 ppm at 53-55'bgs to 16.0 ppm at 74-75'bgs. TPH, benzene and BTEX were not detected above the respective method detection limits, (i.e., TPH = <5.0 mg/Kg and benzene and BTEX = <0.020 mg/Kg) in the 24.5-25'bgs, 53-55'bgs and 74-75'bgs samples. The soil data collected during the installation of monitoring well MW9 indicates that the soil associated with this location is not impacted above the NMOCD CoC remedial goals.

3.1.2.2.5 Monitoring Well MW10 (2"PVC)

Monitoring well MW10 is located 150-feet east of monitoring well MW1. Monitoring well MW10 was advanced to a depth of 85'bgs and screened from 70'bgs to 85'bgs with 0.020-inch slotted screen. PSH were not detected in the well bore after development. PID readings of soil samples collected during advancement of the well bore ranged from 20.1 ppm at 29-30'bgs to 23.3 ppm at 74-75'bgs. TPH, benzene and BTEX were not detected above the respective method detection limits, (i.e., TPH = <5.0 mg/Kg and benzene and BTEX = <0.020 mg/Kg) in the 30-35'bgs, 45-50'bgs, or the 74-75'bgs samples. The soil data collected during the installation of monitoring well MW10 indicates that the soil associated with the location is not impacted above the NMOCD CoC remedial goals.

3.1.3 2004 Soil Investigation Findings

The analytical results from the 2004 soil investigation support the following findings:

- Soils associated with the monitoring well MW1 and MW2 well bores, from the ground surface the groundwater interface, are impacted above the NMOCD remedial goals,
- Soils associated with the monitoring well MW3 through MW5 and MW7 well bores, from the surface at a depth of approximately 50'bgs, are not impacted above the NMOCD remedial goals,
- Soils associated with the monitoring well MW3 through MW5 and MW7 well bores, at intervals >50'bgs, are impacted above the NMOCD remedial goals. The contamination likely emanates from the PSH accumulated on top of the groundwater.
- Soils associated with monitoring wells MW6, MW8, MW9 and MW10 are not impacted above the NMOCD remedial goals.

3.2 SOIL REMEDIATION STRATEGY

Plains proposes to isolate the remaining soils impacted above NMOCD guidelines with a 3-foot oversized engineered barrier, placing the stockpiled rock on top of the barrier and bringing to grade with the excavated soil currently in the attenuation cell. If, after testing, the soil has not attenuated to below the NMOCD remedial goals, Plains proposes to treat the soil with MicroBlaze Spill Control[®] (MicroBlaze) prior to emplacement and contouring. Additionally, to accelerate attenuation of the impacted vadose zone soils beneath the barrier, organic vapors from the screened intervals of the existing recovery monitoring wells will be evacuated via the dual phase (i.e., crude oil and vapor) eductor recovery system in place at the site.

3.2.1 Soil Testing

Samples will be collected and analyzed from the walls and floor of the existing excavation to determine the status of the 3-foot clean perimeter buffer and the attenuation cell soils.

3.2.1.1 3-foot Clean Perimeter Buffer

Samples will be collected from the 3-foot clean buffer around the perimeter of the excavation at 50-foot intervals and analyzed for the CoCs.

3.2.1.2 Attenuation Cell

Representative samples will be collected from the soil lift and analyzed for the CoCs.

3.2.2 Engineered Barrier Installation

After the floor of the excavation has been smoothed and contoured to shed water and tested to ensure the presence of a 3-foot clean soil buffer around the perimeter, a 20-mil polyethylene liner will be installed. The liner is reinforced to resist puncturing and tearing, but will nonetheless be cushioned, above and below, with either sand or geotextile fabric to protect from the rocky soil.

3.2.3 Backfilling

After installation of the liner and cushion, the rock stockpiled on site will be placed in the excavation followed by emplacement of the attenuation cell soil if determined to be acceptable.

3.2.4 MicroBlaze Treatment

If contaminant concentrations in the attenuation cell soils are elevated above the NMOCD remedial goals, the soil will be treated with a 6% solution of MicroBlaze Spill Control[®] (MicroBlaze), at a rate of 1 gallon per 16 cubic yards, to accelerate biological attenuation and placed in the excavation, creating a "monitored bio-attenuation cell" that will be sampled quarterly until NMOCD remedial goals are attained. MicroBlaze is a phosphate based detergent solution inoculated with petrophilic facultative bacteria that can utilize petroleum hydrocarbon as a substrate.

3.2.5 Site Surface Restoration

During the spring of the year, the surface will be reseeded with grasses native to the area (i.e., blue gramma and black gramma) or a seed mix agreeable with the landowner.

3.2.6 Vapor Extraction

During recovery of PSH, organic vapors will be extracted via the dual phase (i.e., crude oil and vapor) eductor recovery system currently deployed at the site. The eductors do not differentiate between fluids (i.e., crude oil and groundwater) and wellbore vapors and will evacuate either with equal efficiency. During normal crude oil recovery operations, the eductor is positioned in the wellbore approximately 0.2-feet above the stabilized Groundwater level. Because the eductor rate of recovery exceeds the rate of crude oil entering the wellbore, the eductor will also be extracting wellbore vapors from the interface of the crude oil and wellbore vapor space. If the recovery well casing is sealed at the surface, a negative pressure will be generated that can only be relieved through the portion of the well screen set above the groundwater, resulting in the extraction of organic vapors present in the pore space in the vicinity of the screen. A single eductor with a circulating water pressure of 40 to 70 psi is capable, at a minimum, of evacuating 0.06 cubic feet per minute or 89.76 cubic feet per day of air/vapor or fluid with the specific gravity of water.

3.3 PRODUCT RECOVERY

Site surveillance, to measure groundwater and PSH levels and recover PSH, began immediately upon discovery of PSH in September of 2002. PSH recovery was accomplished initially by manual bailing followed in March of 2003 with deployment of a portable gasoline powered trailer mounted eductor type recovery system designed for continuous operation. In June 2004, an automated electrified PSH recovery system was installed and activated. Currently, PSH is being recovered from monitoring wells MW1 through MW4 and MW7. During August 2005 monitoring, monitoring well MW8 was found to be impacted with PSH, but was not detected during the September 2005 measurement. In 2004, 6,049 gallons (144 bbls) of crude oil were recovered and reintroduced into the Plains system. As of August

2005, an additional 4,788 gallons (114 bbls) have been recovered and returned to the system. Total PSH recovery volume, as of August 2005, was 14,637 gallons (348 bbls) of crude oil.

3.4 PSH THICKNESS

Stabilized PSH thickness in monitoring well MW1 declined from 11.92 feet in March of 2003 to 3.84 feet in September 2005. Monitoring well MW2 PSH thickness decreased to 9.39-feet in September 2005 from 9.73-feet in October 2004. The PSH thicknesses recorded for monitoring well MW3 in September 2005 was 9.38-feet, an increase of 5.83-feet from the October 2004 thickness of 3.55-feet. PSH thickness in monitoring well MW4 in September 2005 was 9.52-feet, an increase of 3.66-feet from the October 2004 thickness of 5.86-feet. The PSH thicknesses recorded for monitoring well MW7 in September 2005 was 7.66-feet, an increase of 3.73-feet from the October 2004 thickness of 3.93-feet. (Reference Table 4 and Table 7). Groundwater and PSH measurements are taken at least monthly. The recovery system is shutdown for at least 48 hours prior to collecting groundwater and PSH levels to ensure stabilized measurements.

3.5 SOIL ATTENUATION CELL SAMPLING AND ANALYSIS

Composite samples of the soil treatment cell, located in the northeast corner of the site (Reference Figure 3), were collected on December 16, 2004 and submitted to the laboratory for TPH analysis. The TPH concentration in the northwest quadrant was 741 mg/Kg, 72.2 mg/Kg in the southeast quadrant, 492 mg/Kg in the southwest quadrant and 1,000 mg/Kg in the northeast quadrant (reference Table 3).

3.6 GROUNDWATER SAMPLING AND ANALYSIS

Monitoring wells not impacted with PSH were sampled on September 22, 2004, November 19, 2004, March 31, 2005, May 12, 2005 and August 22, 2005. Groundwater samples were submitted to a qualified independent laboratory for analysis of benzene, toluene, ethylbenzene, and m, p, & o-xylenes (BTEX). Samples collected during the September 22, 2004 and May 12, 2005 events were submitted to the laboratory for analysis of the polynuclear aromatic hydrocarbons (PAH). Prior to collecting the laboratory samples, the monitoring wells were purged of at least three well volumes or dry. Analytical results from the September 22, 2004, November 19, 2004, March 31, 2005, May 12, 2005 and August 22, 2005 sampling events are discussed below (reference Figures 22 through 26, Tables 5 and 6 and Appendix I).

3.6.1 Monitoring Well MW5

The concentrations of benzene, toluene, ethylbenzene and m,p,o-xylenes have increased with each sampling event, however, benzene is the only parameter in excess of the WQCC groundwater standards. Additional monitoring wells are being proposed to identify the southern extent of the dissolved phase plume.

3.6.1.1 September 22, 2004 Sampling Event

The BTEX and PAH compounds were not detected above the respective method detection limits (MDLs) in the groundwater samples collected from monitor well MW5.

3.6.1.2 March 31, 2005 Sampling Event

The benzene concentration in monitoring well MW5 was 3,140 micrograms per liter ($\mu\text{g/L}$) and exceeded the WQCC 10 $\mu\text{g/L}$ groundwater standard. Toluene and ethylbenzene were detected in monitoring well MW5, but did not exceed the 750 $\mu\text{g/L}$ WQCC standards. Total xylenes were detected, but did not exceed the 620 $\mu\text{g/L}$ WQCC standard.

3.6.1.3 May 12, 2005 Sampling Event

PAH were detected in monitoring well MW5 during this event (i.e., fluorine = 0.000439 mg/L; naphthalene = 0.0175 mg/L, and phenanthrene = 0.000245 mg/L), but not in excess of the WQCC aggregate standard of 0.03 mg/L. The benzene concentration in monitoring well MW5 was 4,250 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were detected in monitoring well MW5, but did not exceed the 750 µg/L WQCC standards. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.1.4 August 22, 2005 Sampling Event

The benzene concentration in monitoring well MW5 was 20,300 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were detected, but did not exceed the 750 µg/L WQCC standards. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.2 Monitoring Well MW6

The concentrations of benzene, toluene, ethylbenzene and m,p,o-xylenes have decreased with each sampling event; however, benzene is in excess of the WQCC groundwater standard.

3.6.2.1 November 19, 2004 Sampling Event

The benzene concentration in monitoring well MW6 was 635 micrograms per liter (µg/L) and exceeded the WQCC 10 µg/L groundwater standard. Toluene was detected in monitoring well MW6, but did not exceed the 750 µg/L WQCC standard. Ethylbenzene was not detected above the 1 µg/L MDL. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.2.2 March 31, 2005 Sampling Event

The benzene concentration in monitoring well MW6 was 702 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDL. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.2.3 May 12, 2005 Sampling Event

PAH were not detected in monitoring well MW6 above the 0.05 µg/L MDL. The benzene concentration in monitoring well MW6 was 468 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene was detected in monitoring well MW6, but did not exceed the 750 µg/L WQCC standard. Ethylbenzene was not detected above the 1 µg/L MDL. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.2.4 August 22, 2005 Sampling Event

The benzene concentration in monitoring well MW6 was 158 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene was not detected above the 1.0 µg/L MDL. Ethylbenzene was detected, but did not exceed 750 µg/L WQCC standard. Total xylenes were detected, but did not exceed the 620 µg/L WQCC standard.

3.6.3 Monitoring Well MW8

The concentrations of benzene, toluene, ethylbenzene and m,p,o-xylenes have decreased with each sampling event; however, benzene is in excess of the WQCC groundwater standards.

3.6.3.1 November 19, 2004 Sampling Event

The benzene concentration in monitoring well MW8 was 1,440 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene, ethylbenzene, and total xylenes were detected above the MDLs, but did not exceed the WQCC standards.

3.6.3.2 March 31, 2005 Sampling Event

The benzene concentration in monitoring well MW8 was 915 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene, ethylbenzene, and total xylenes were detected above the MDLs, but did not exceed the WQCC standards.

3.6.3.3 May 12, 2005 Sampling Event

PAH were not detected in monitoring well MW8 above the 0.05 µg/L MDL. The benzene concentration in monitoring well MW8 was 737 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene, ethylbenzene, and total xylenes were detected above the MDLs, but did not exceed the WQCC standards.

3.6.3.4 August 22, 2005 Sampling Event

This well was not sampled due to the presence of PSH.

3.6.4 Monitoring Well MW9

Toluene, ethylbenzene and o-xylene have not been detected during any sampling event. Nominal concentrations of m,p-xylenes have slightly increased and remain less than the WQCC groundwater standard. Benzene is in excess of the WQCC groundwater standards, but is decreasing.

3.6.4.1 November 19, 2004 Sampling Event

The benzene concentration in monitoring well MW9 was 42 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDLs. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.4.2 March 31, 2005 Sampling Event

The benzene concentration in monitoring well MW9 was 24.0 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDLs. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.4.3 May 12, 2005 Sampling Event

PAH were not detected in monitoring well MW9 above the 0.05 µg/L MDL. The benzene concentration in monitoring well MW9 was 11.5 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDLs. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.4.4 August 22, 2005 Sampling Event

The benzene concentration in monitoring well MW9 was 10.8 µg/L and exceeded the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDLs. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.5 Monitoring Well MW10

Nominally detectable decreasing concentrations of the BTEX compounds have been reported, but not in excess of the respective WQCC groundwater standards.

3.6.5.1 November 19, 2004 Sampling Event

The benzene concentration in monitoring well MW10 was 7.25 µg/L, but did not exceed the WQCC 10 µg/L groundwater standard. Toluene was detected, but did not exceed the 750 µg/L WQCC standard. Ethylbenzene was not detected above the 1 µg/L MDL. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.5.2 March 31, 2005 Sampling Event

The benzene concentration in monitoring well MW10 was 1.28 µg/L, but did not exceed the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDL. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.5.3 May 12, 2005 Sampling Event

PAH were detected in monitoring well MW10 during this event (i.e., fluorine = 0.000056 mg/L; and phenanthrene = 0.000068 mg/L), but not in excess of the WQCC aggregate standard of 0.03 mg/L. The benzene concentration in monitoring well MW10 was 3.16 µg/L, but did not exceed the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDL. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.6.5.4 August 22, 2005 Sampling Event

The benzene concentration in monitoring well MW10 was 2.76 µg/L and did not exceed the WQCC 10 µg/L groundwater standard. Toluene and ethylbenzene were not detected above the 1 µg/L MDL. Total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

3.7 PROPOSED MONITORING WELLS

The current array of monitoring wells has not completely defined the areal extent of PSH on the groundwater to the west or areal distribution of the dissolved phase hydrocarbon impact. Installation of up to six additional perimeter monitoring wells is proposed to bound the areal extents of the PSH impact and the dissolved phase hydrocarbon plume (reference Figure 30).

3.8 GROUNDWATER REMEDIATION

After all recoverable PSH has been removed from the ground surface, the extraction/recovery wells will be converted to air injection wells, (i.e., groundwater sparge wells) and serve as additional sample points. Additional sparge wells will likely be installed given that the existing wells are screened across the groundwater interface. Being screened in the saturated zone of the subsurface, the injected oxygen will promote natural attenuation of the groundwater that can be monitored. This method will also aerate the contaminated smear and vadose zones and promote attenuation.

3.9 ABATEMENT AND MONITORING SCHEDULE

Quarterly sampling of the monitoring wells not impacted with PSH will continue along with routine site reconnaissance. Annual reports will be submitted to the NMOCD Environmental Bureau office in Santa Fe, New Mexico by April 1st of each year. ~~Remediation of the groundwater will cease after receipt of 4 consecutive quarters of monitoring well data below regulatory limits.~~ At that time, the monitor wells will be abandoned. 8 QTR3

3.10 PUBLIC NOTIFICATION

Prior to issuance of the Public Notice, the following individuals and entities will be notified in writing of the Stage 1 and Stage 2 Abatement Plans.

- Surface owners of record with one (1) mile of the perimeter of the affected area;

- The Lea County Commission;
- Individuals or organizations requesting notification;
- The New Mexico Trustee for Natural Resources and other affected agencies; and
- All others as directed by the Director of the New Mexico Energy Minerals and Natural Resources Department.

Within fifteen days after receiving notice from the NMOCD that the Stage 1 Abatement Plan or the Stage 2 Abatement Plan are administratively complete, Plains will issue public notice in newspapers with county and state wide circulation's, i.e., Hobbs Daily News Sun, Lovington Leader, and Albuquerque Journal.

The Public Notice will be developed to include:

- Name and address of the responsible person;
- Location of the proposed abatement;
- Descriptions of the source extent, release volume, and affected environmental media;
- Description of the Stage 1 and Stage 2 Abatement Plans;
- Description of the procedure required by the Director before making a final determination;
- State that the abatement plan can be viewed at the Division office in Hobbs or electronically from a Division maintained site; and
- State that the Director will consider the following comments and requests if received within 30 days after publication of the public notice:
 - a) Written comments on the abatement plan;
 - b) For a Stage 2 abatement plan, written requests for a public hearing that includes reasons why a hearing should be held; and
 - c) Address and telephone number at which interested persons may obtain further information.

FIGURES

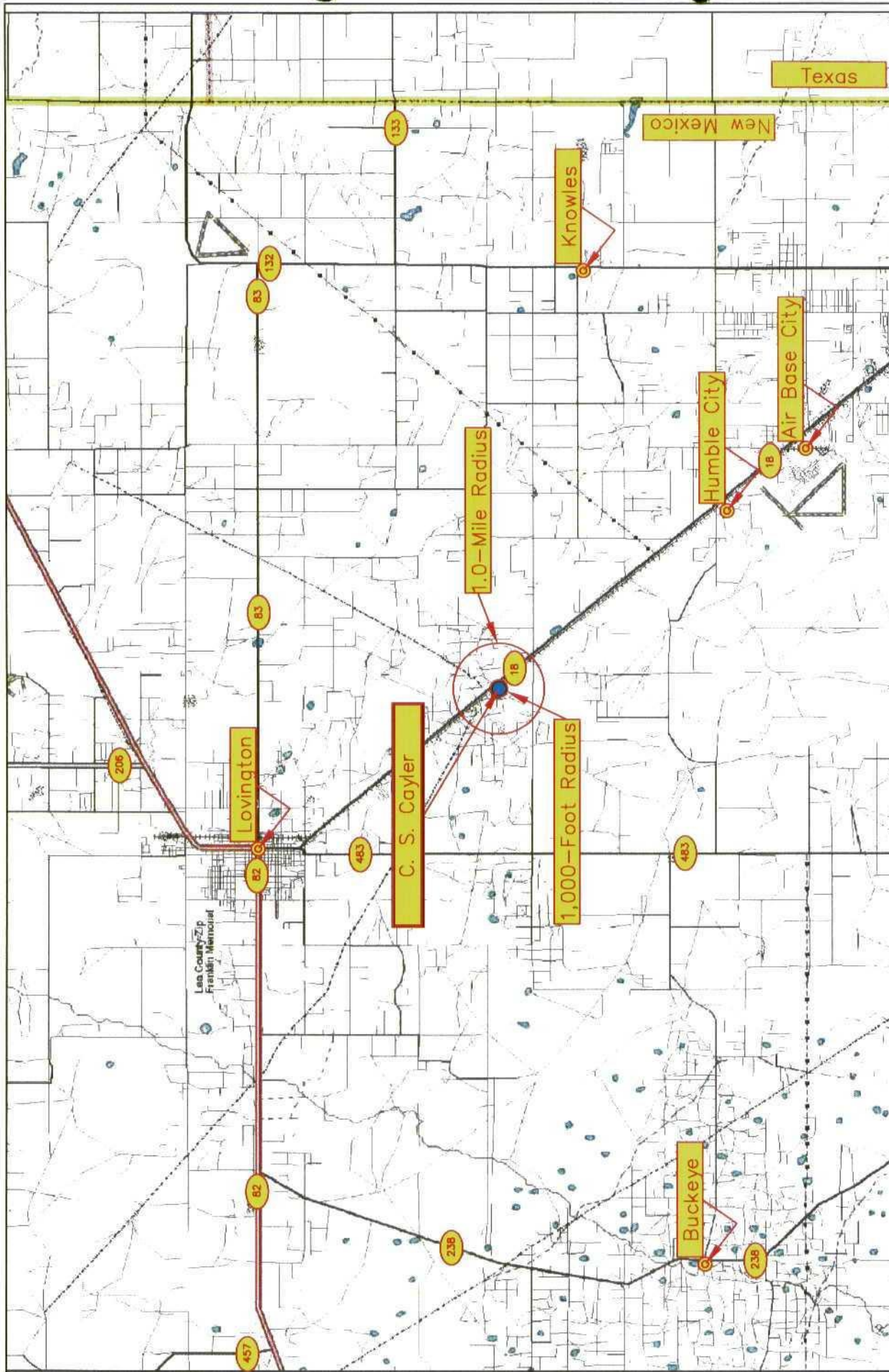
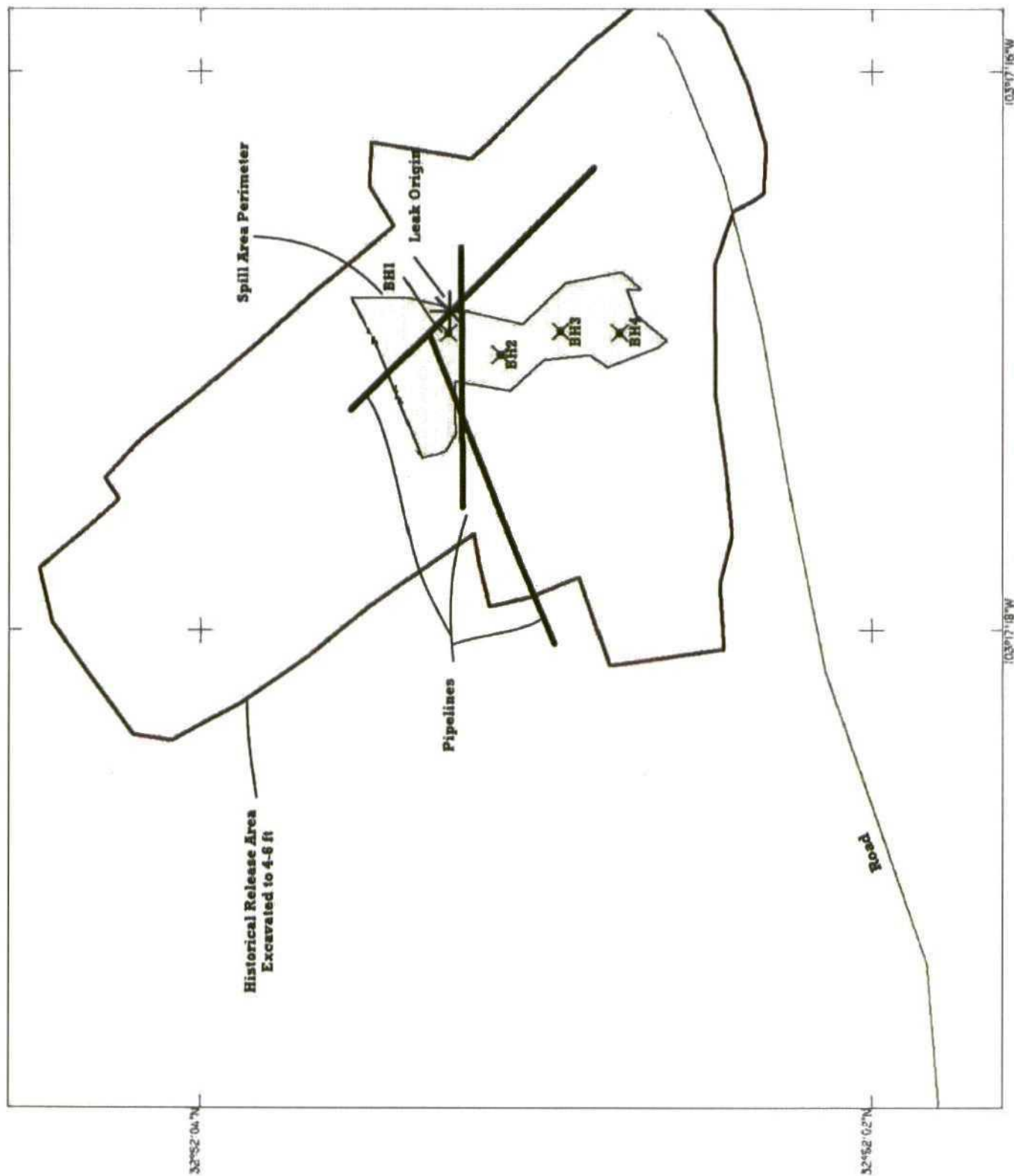


Figure 1 Area Map Plains Marketing, L. P. C. S. Cayler 2002-10250	Lea County, New Mexico NW 1/4 of the NE 1/4, Sec. 6, T17S, R37E N 32° 52' 02.45" W 103° 17' 17.73" Elevation: 3,809 feet amsl		DWG By: Daniel Dominguez September 2005	REVISED:	SHEET 1 of 1
	0 3 6 Miles				

Figure 3
 Plains Marketing, L.P.
 C.S. Cayler
 #2002-10250
 UL-B Sec 6
 T17S R37E



N ↑

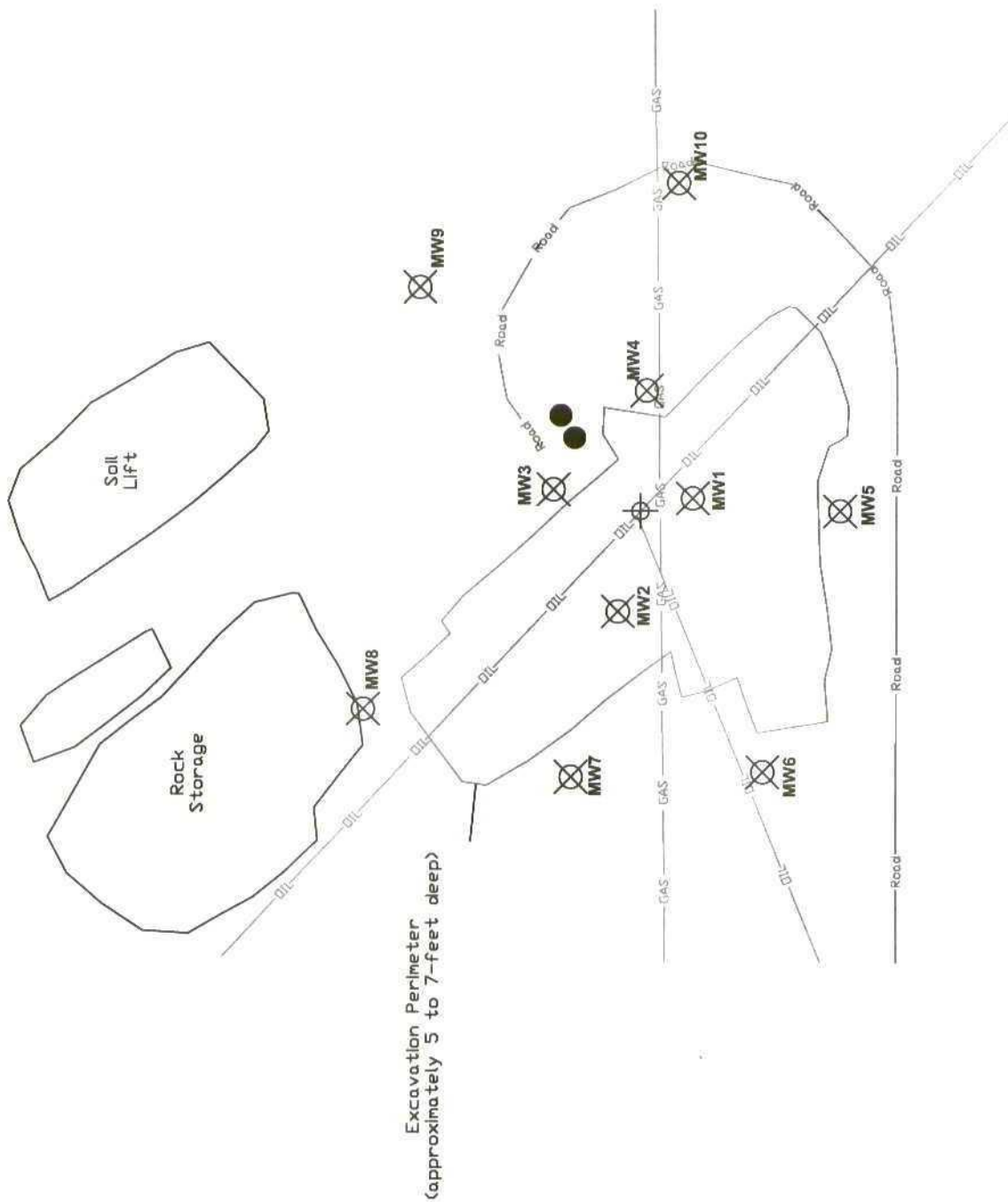
SCALE 1:600



LAT/LONG
 WGS 1984

MULTIPLE FILES
 3/4/2004





LEGEND

- OIL — Crude Oil Pipeline
- Road — Caliche Road
- GAS — Natural Gas Pipeline
- Recovery System Tanks
- ⊗ Monitoring Well
- ⊕ Leak Drigin



DRAWN BY: PW McCasland

DATE: September 2004

REVISED: January 2005

Figure 4
Site Map
December 31, 2004
Plains Marketing, L.P.
C.S. Cayler #2002-10250

Lea County, New Mexico
NW 1/4 of the NE 1/4 of Sec. 6, T17S, R37E
N 32° 52' 2.45" W 103° 17' 17.70"
Elevation: 3,810 feet amsl

Figure 5
 Plains Marketing L.P.
 C.S. Cayler #2002-10250
 Soil Borings Photoionization Detector (PID) Delineation

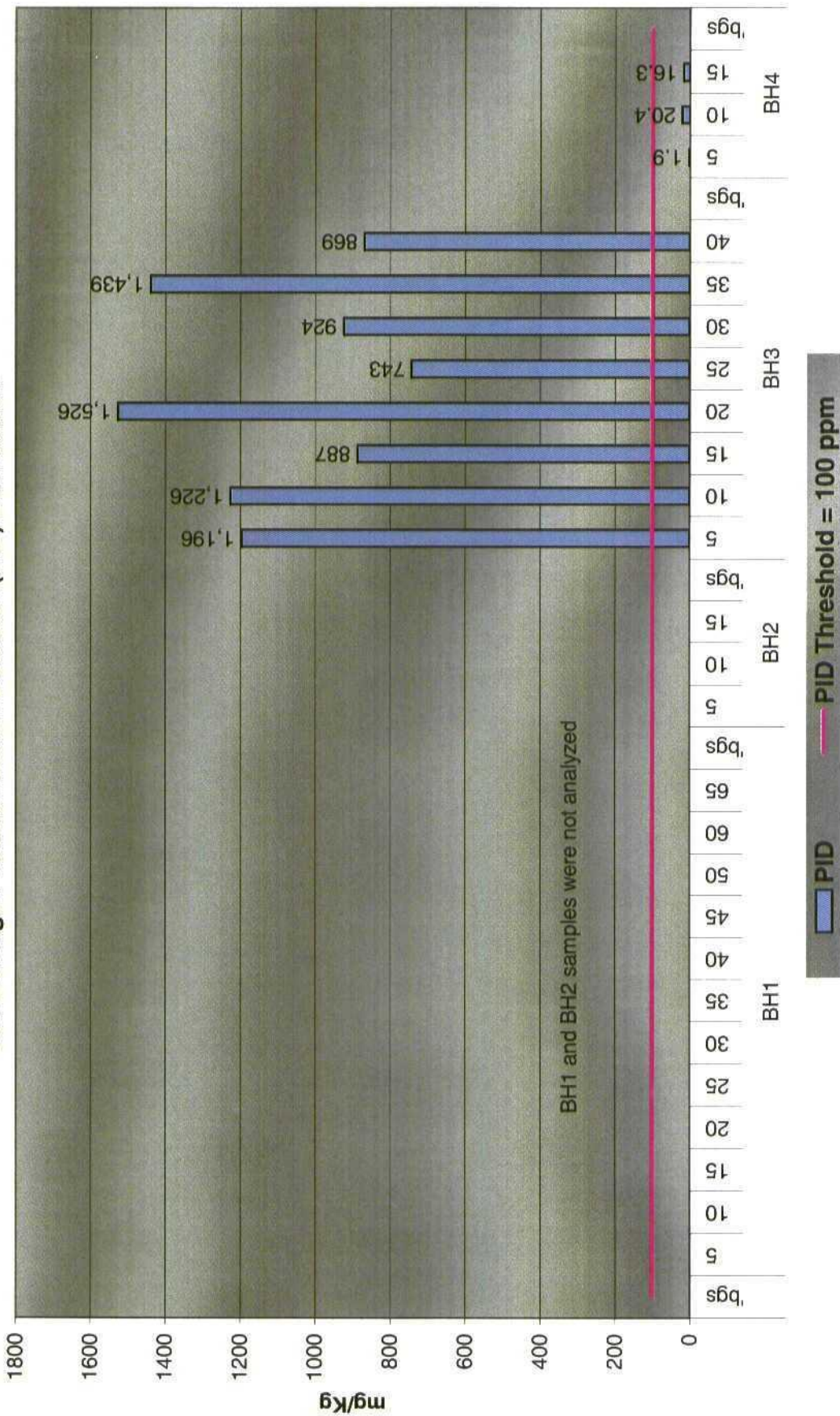


Figure 6
 Plains Marketing L.P.
 C.S. Cayler #2002-10250
 Benzene In Soil Concentrations

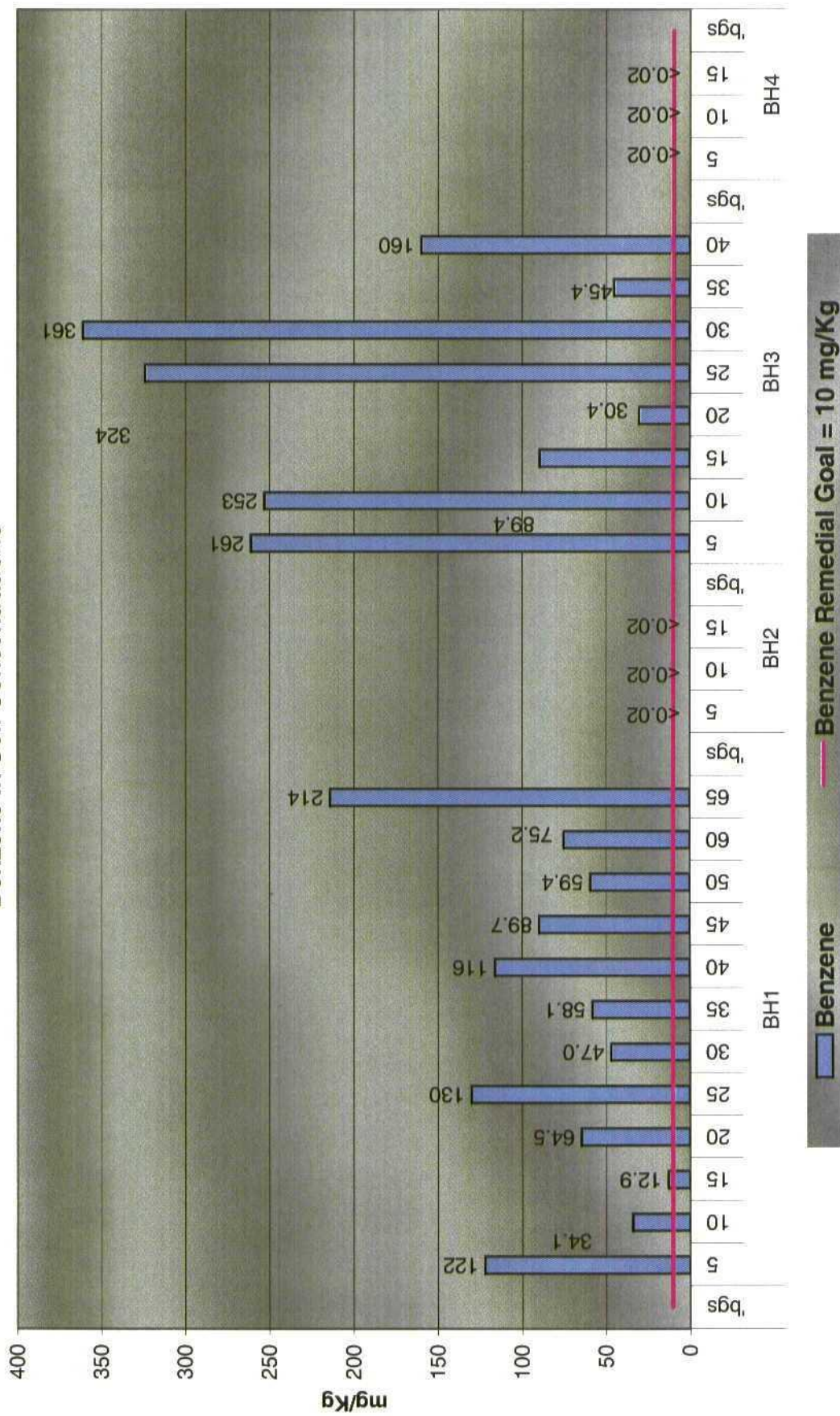


Figure 7
 Plains Marketing L.P.
 C.S. Cayler #2002-10250
 BTEX In Soil Concentrations

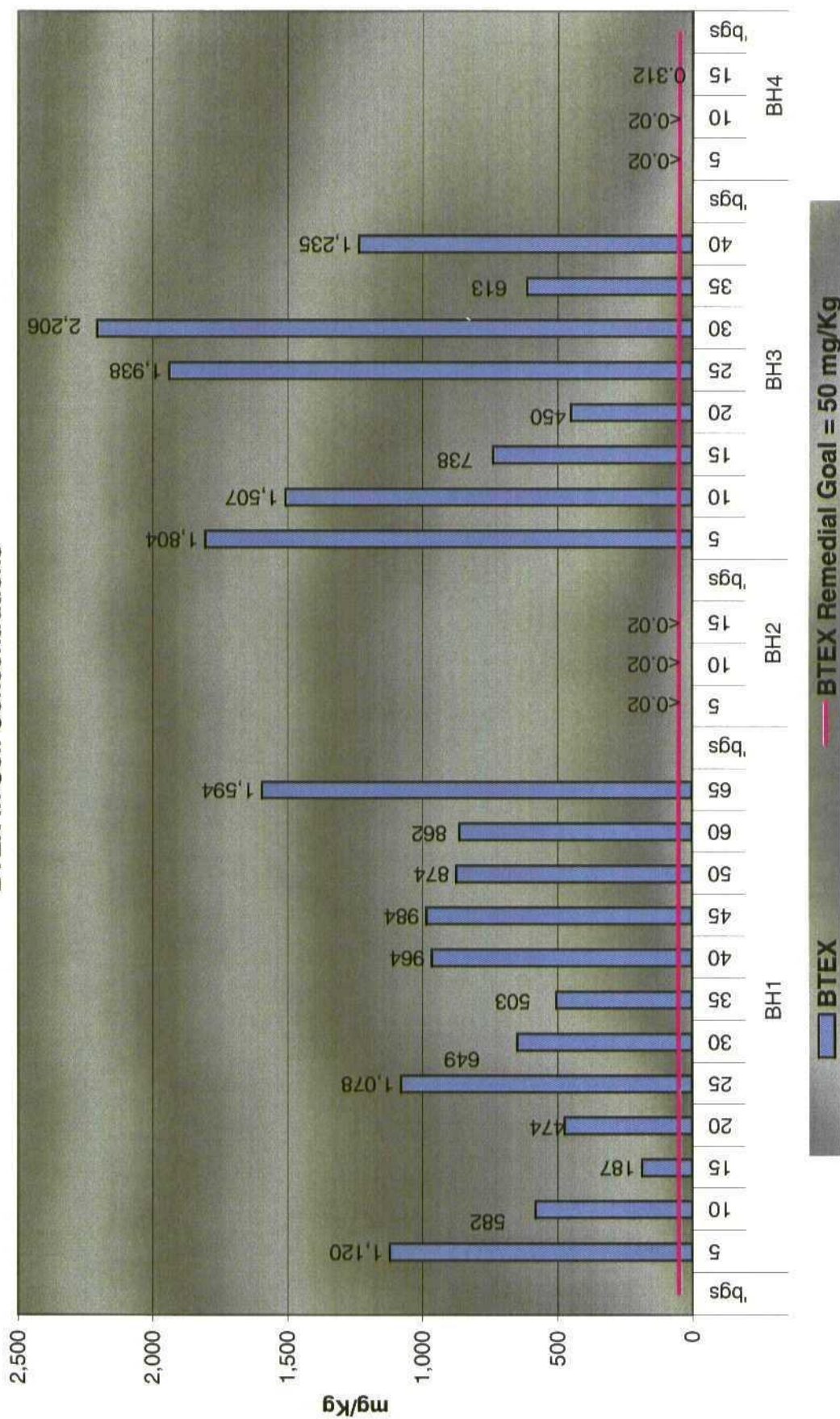


Figure 8
 Plains Marketing L.P.
 C.S. Cayler #2002-10250
 TPH In Soil Concentrations

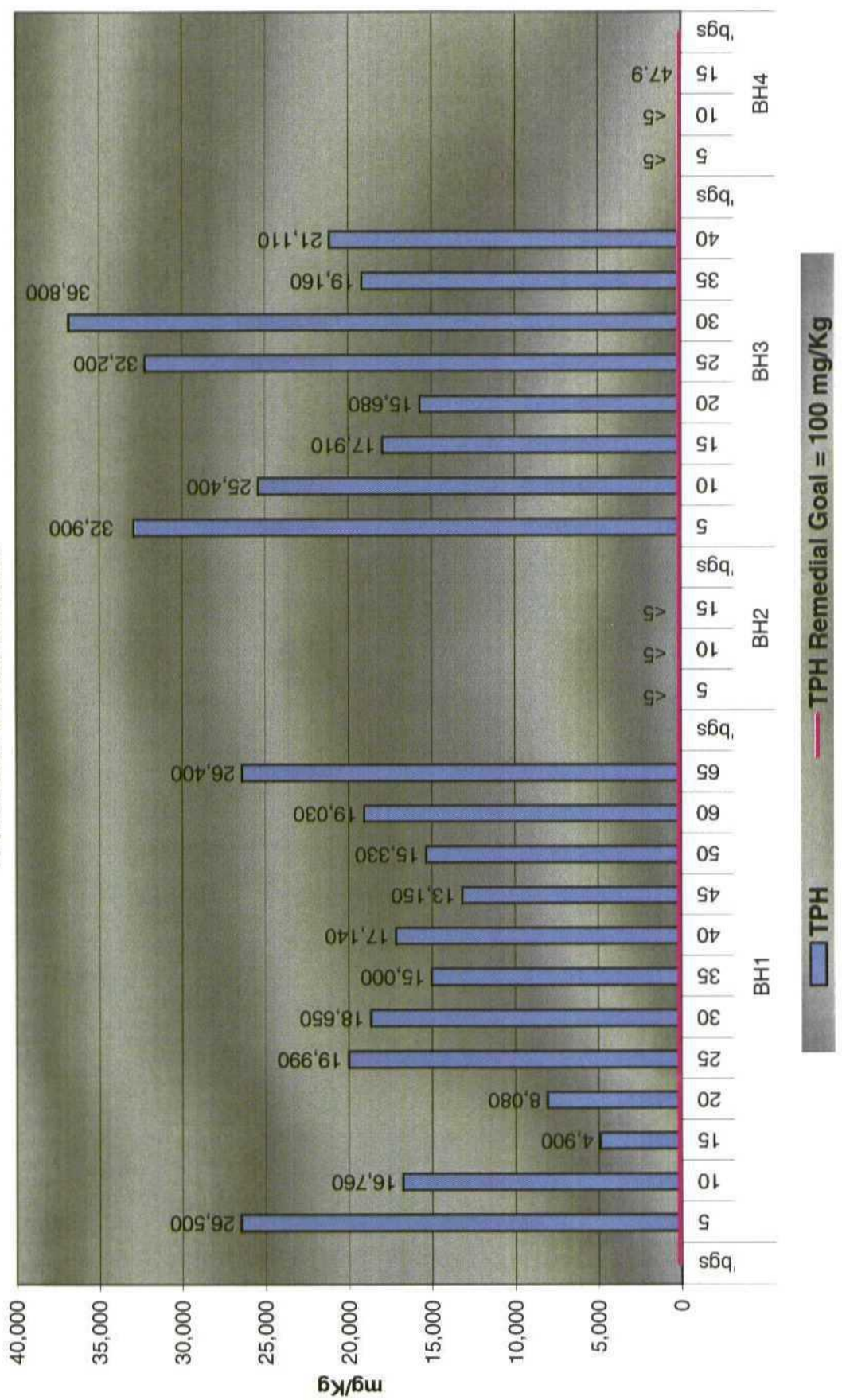


Figure 9
 Plains Marketing, L.P.
 C.S. Caylor #2002-10250
 Monitoring Wells MW1 through MW5 Soil Analytical
 Volatile Organic Constituents (VOC) Headspace Readings

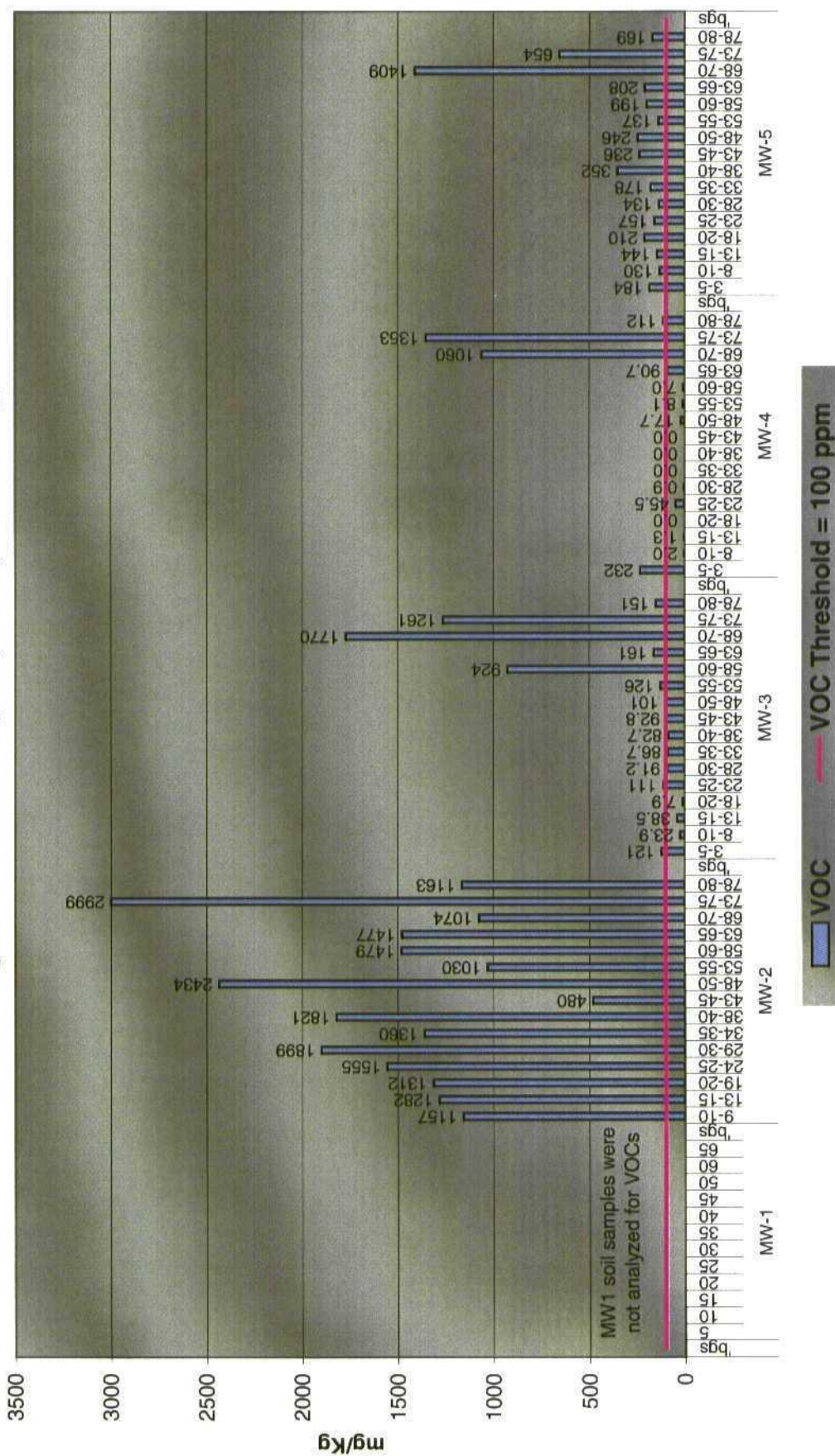


Figure 10
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW6 through MW10 Soil Analytical
 Volatile Organic Constituents (VOC) Headspace Readings

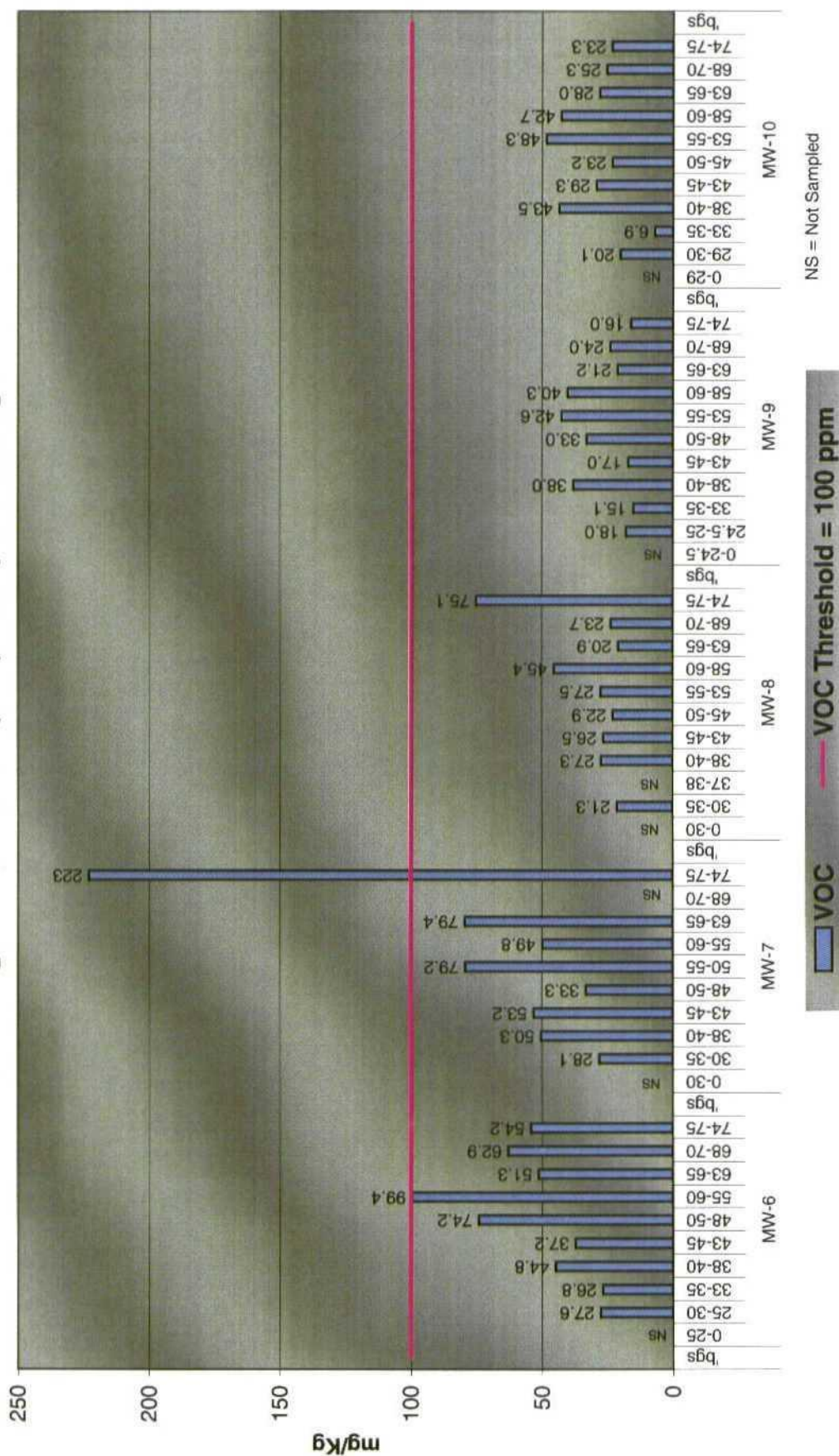


Figure 11
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW1 through MW5 Soil Analytical
 Benzene

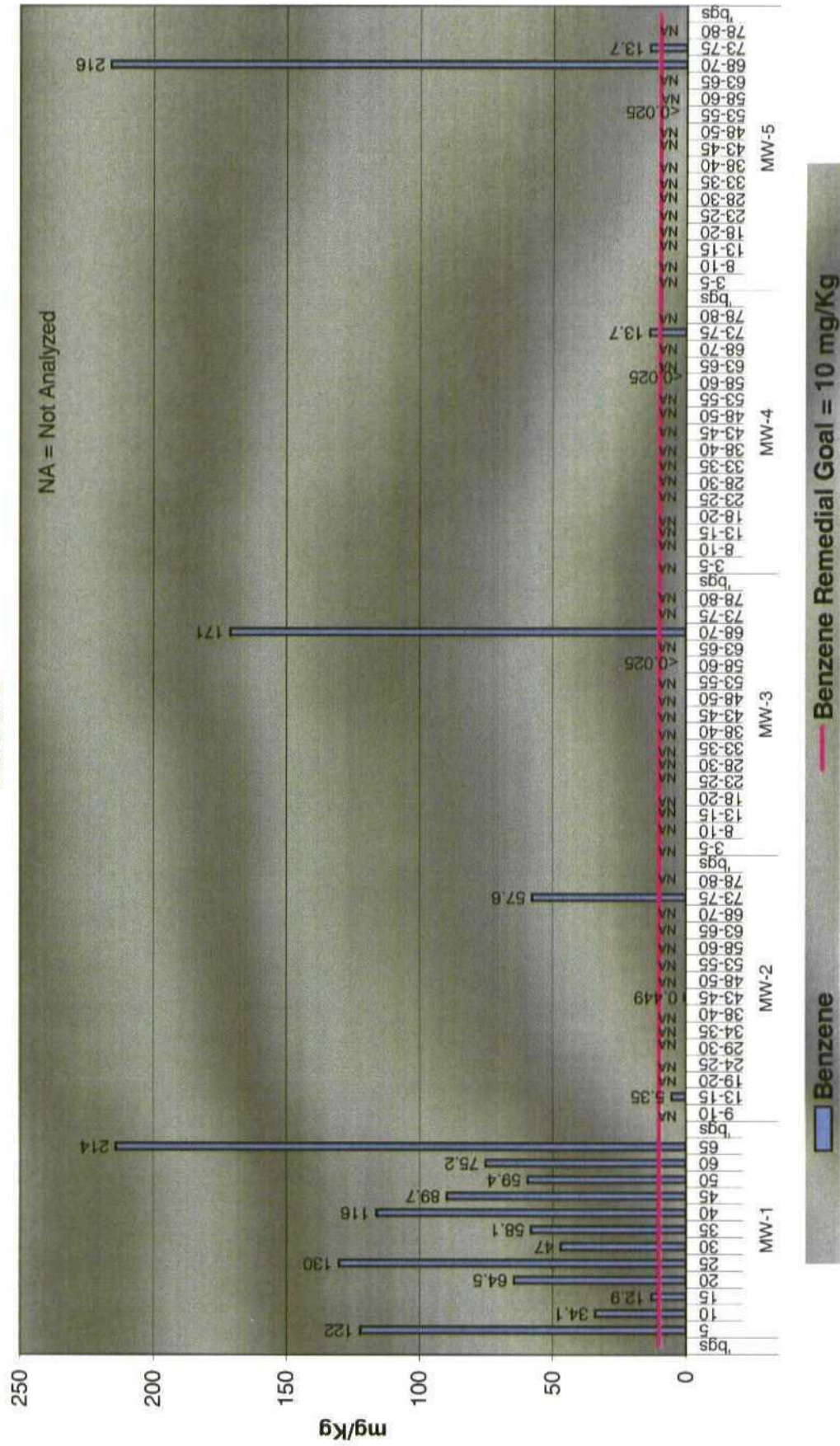


Figure 12
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW6 through MW10 Soil Analytical
 Benzene

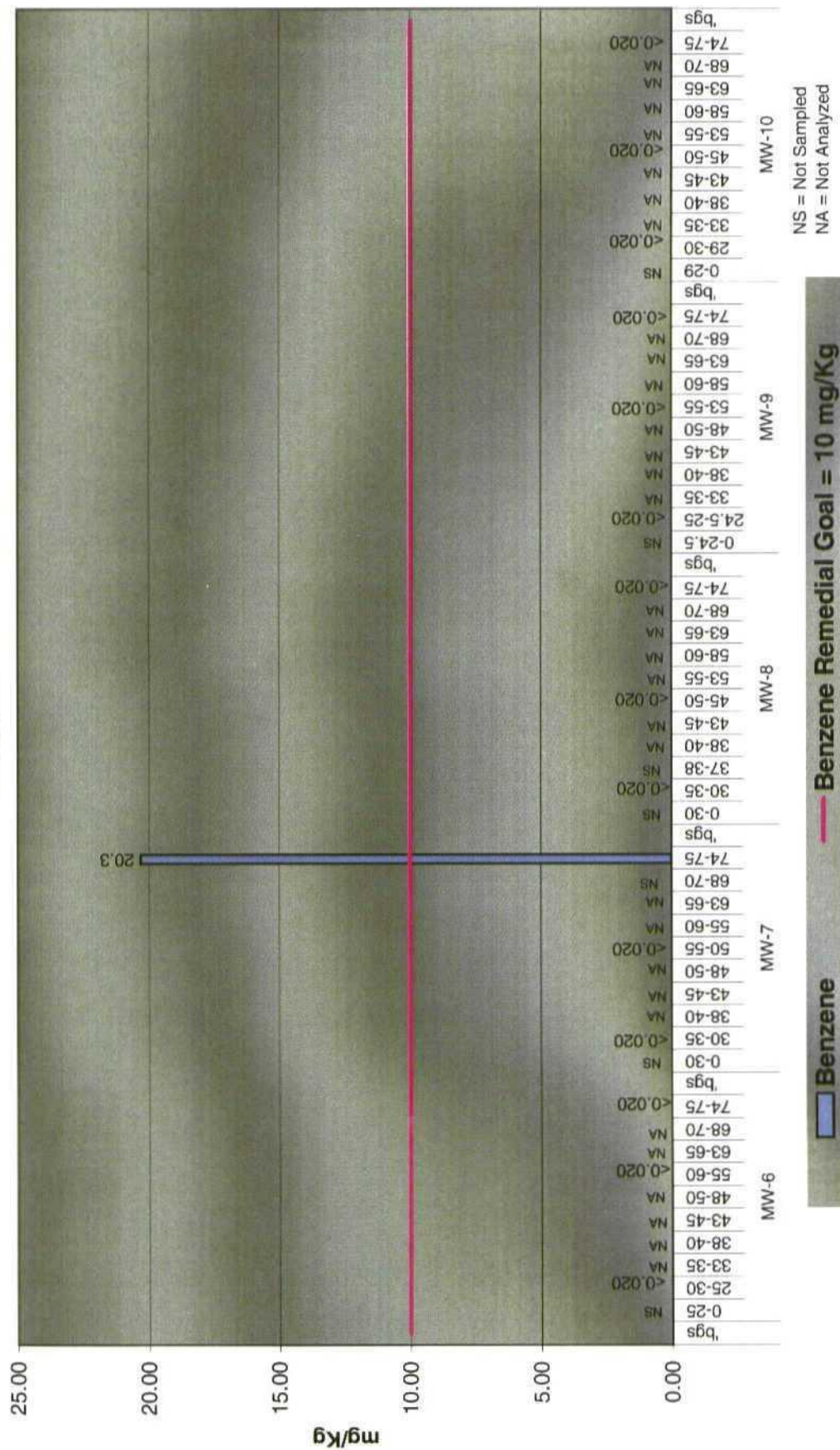


Figure 13
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW1 through MW5 Soil Analytical
 BTEX

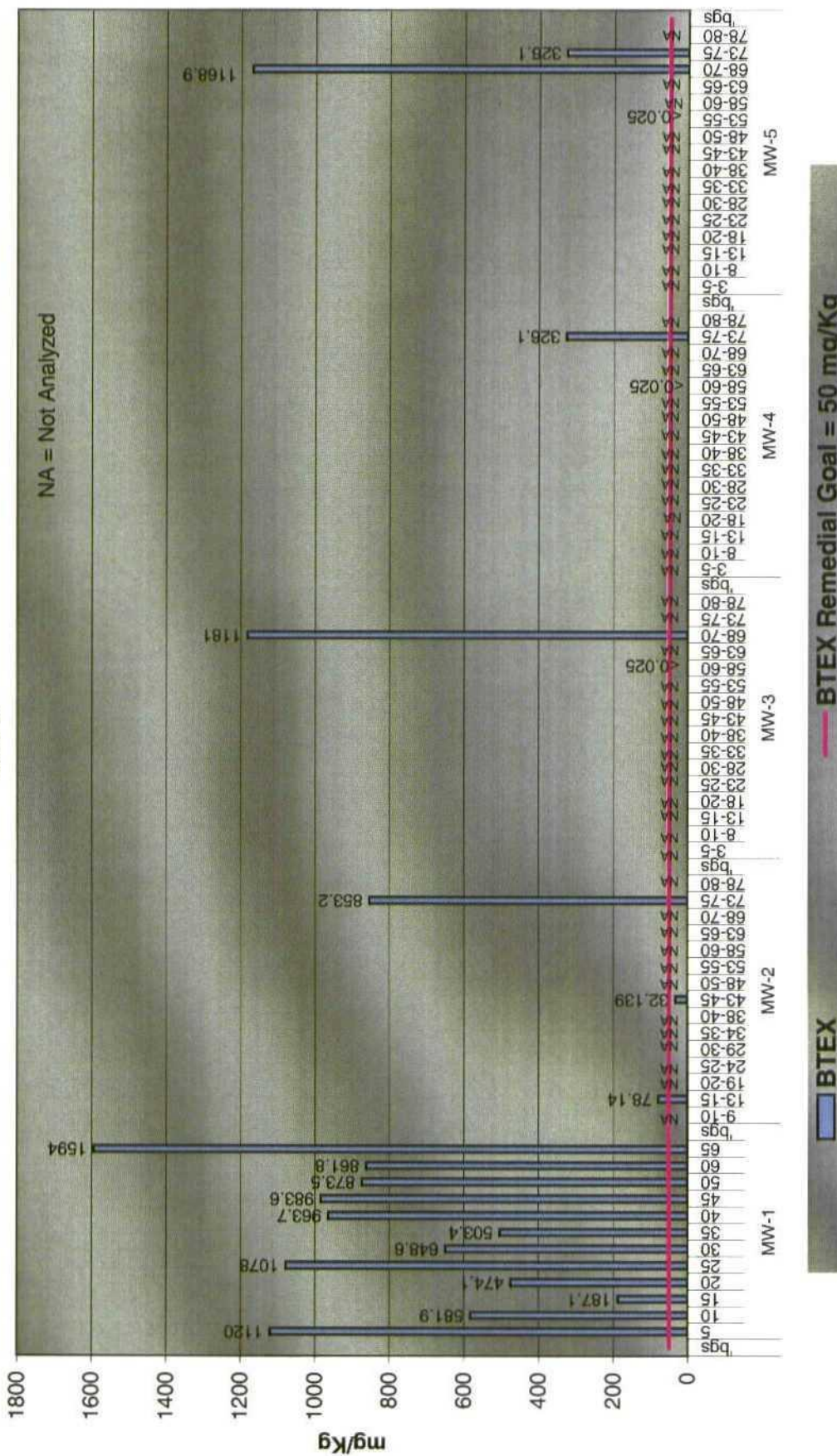


Figure 14
 Plains Marketing, L.P.
 C.S. Caylor #2002-10250
 Monitoring Wells MW6 through MW10 Soil Analytical
 BTEX

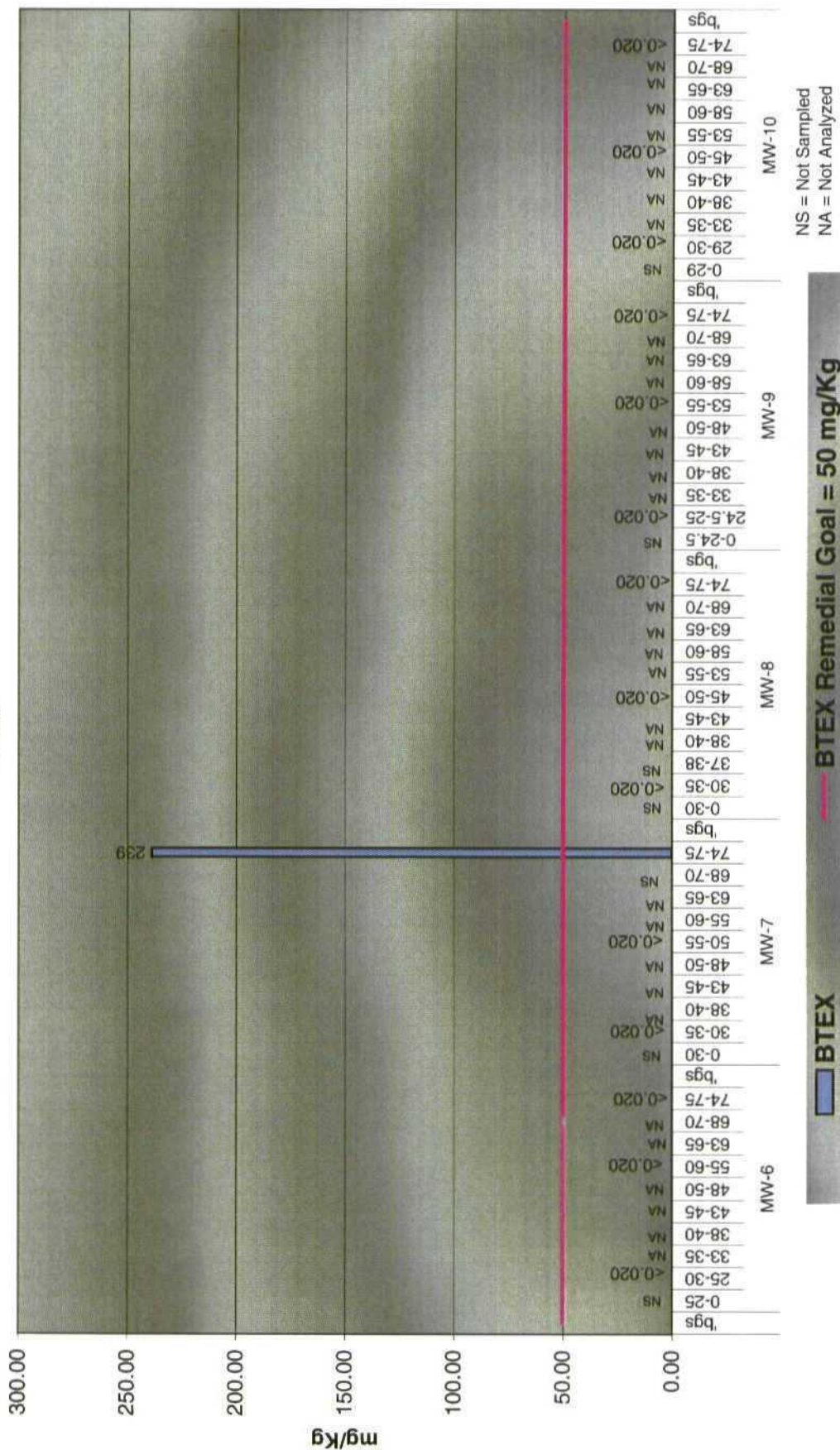
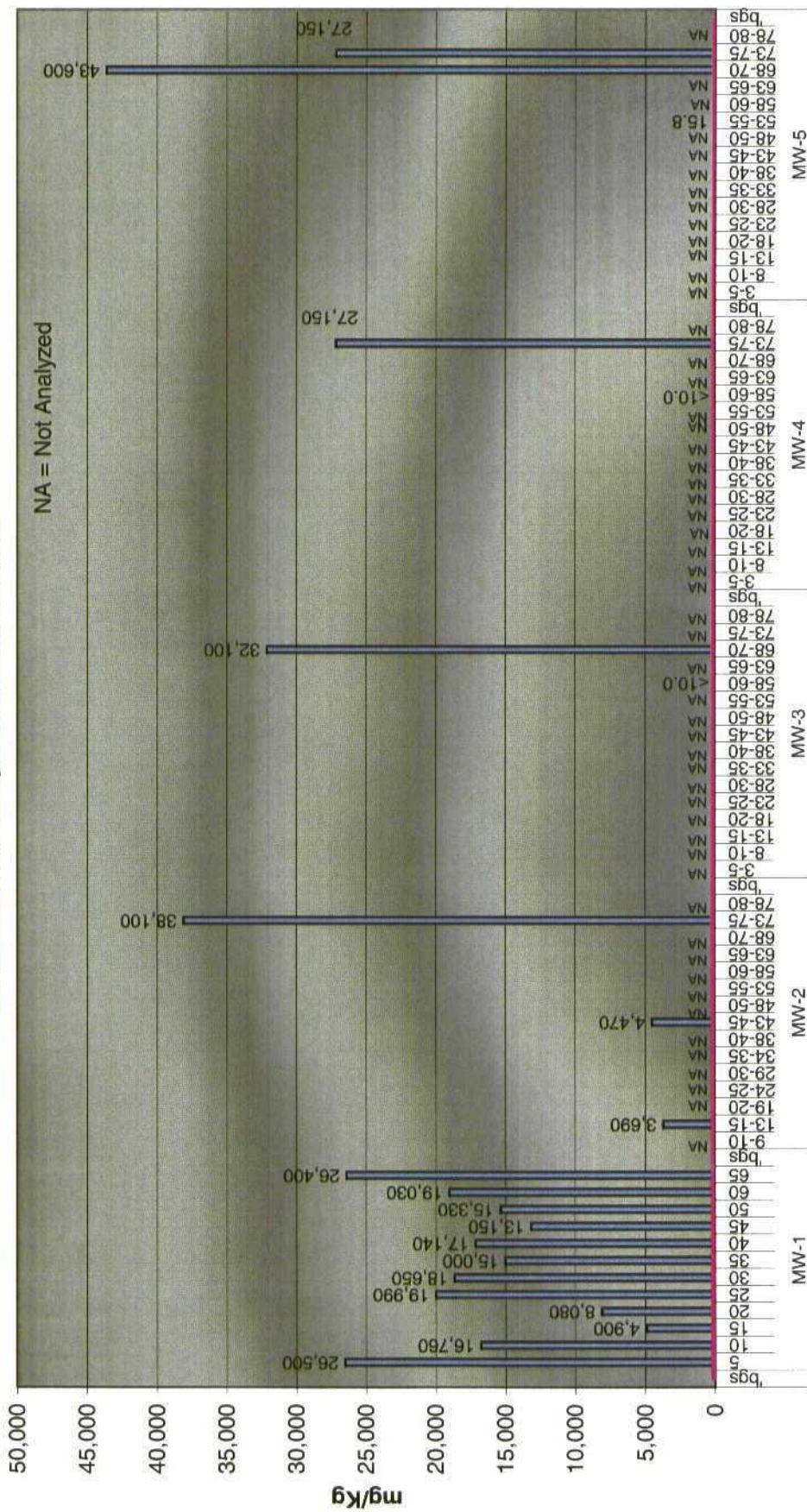


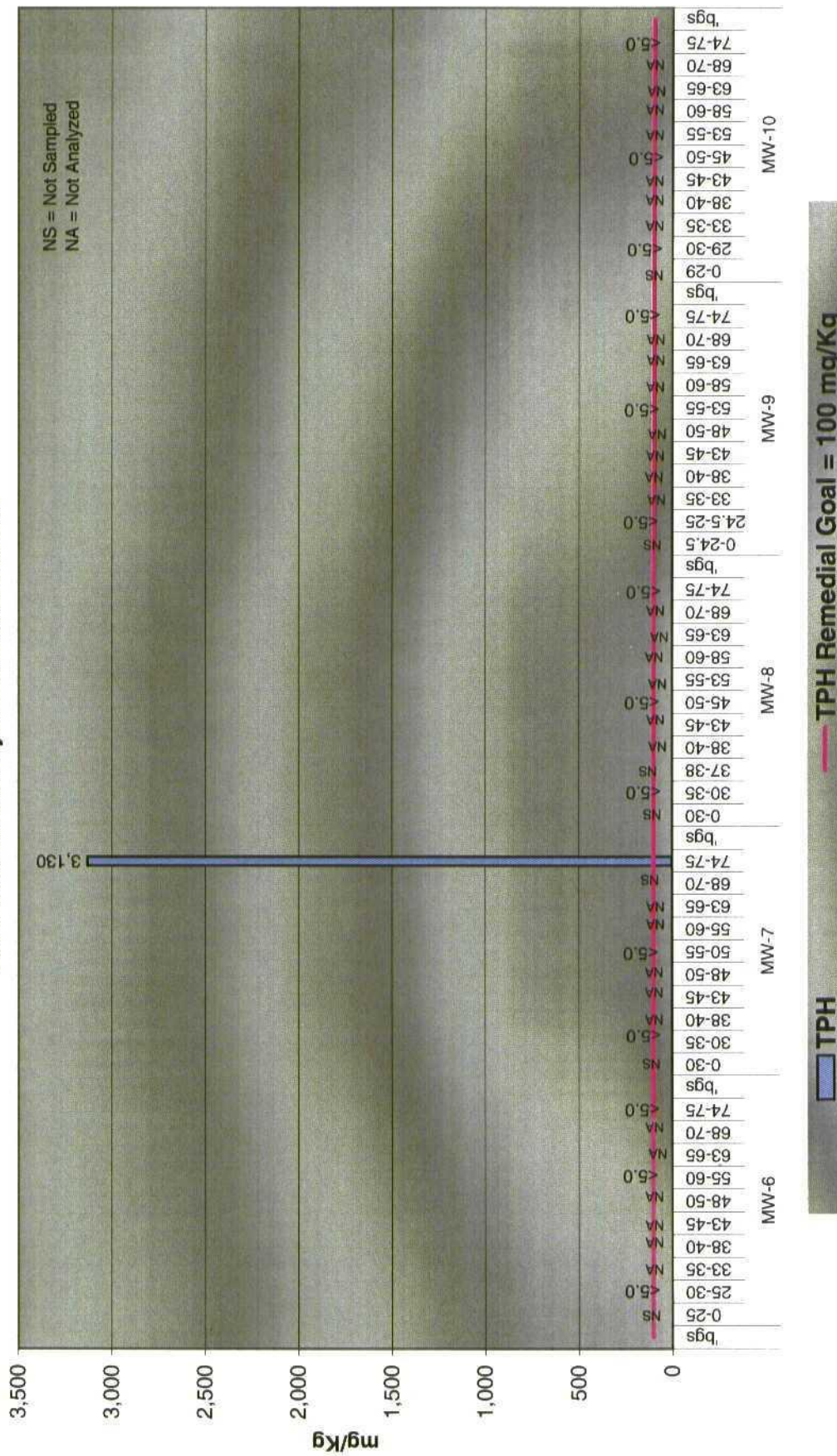
Figure 15
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW1 through MW5 Soil Analytical
 Total Petroleum Hydrocarbons 8015M

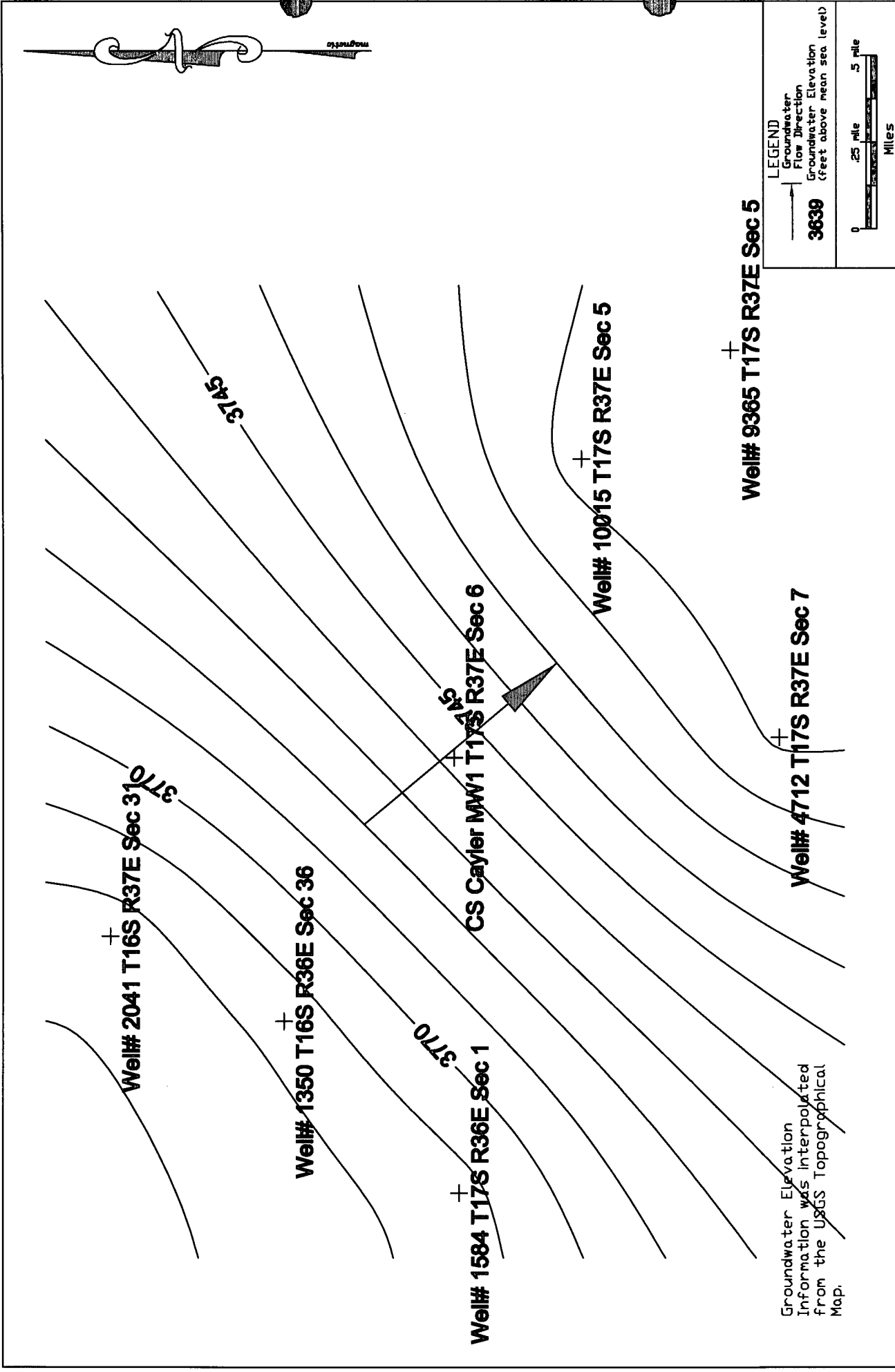


TPH Remedial Goal = 100 mg/Kg

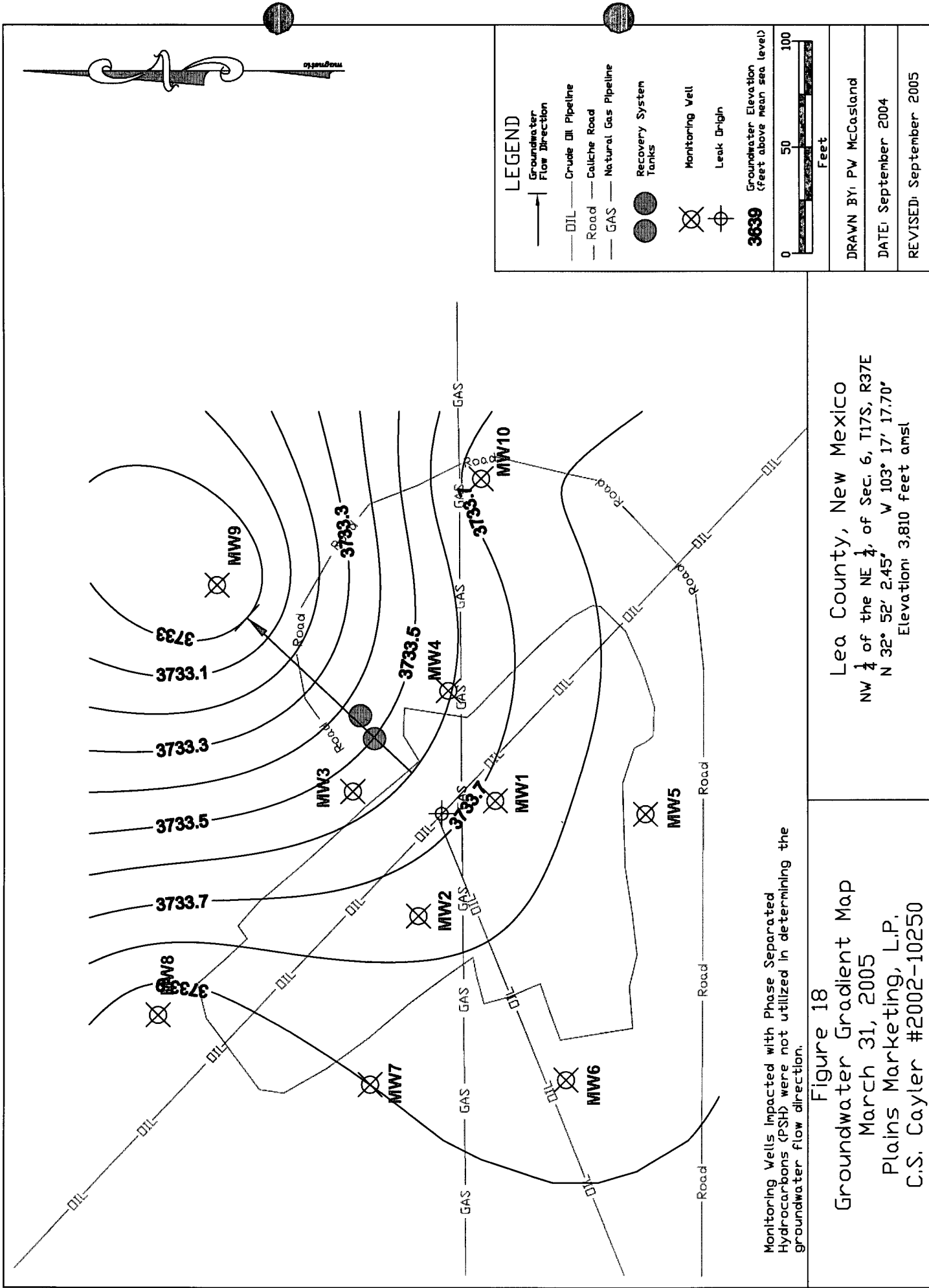
TPH

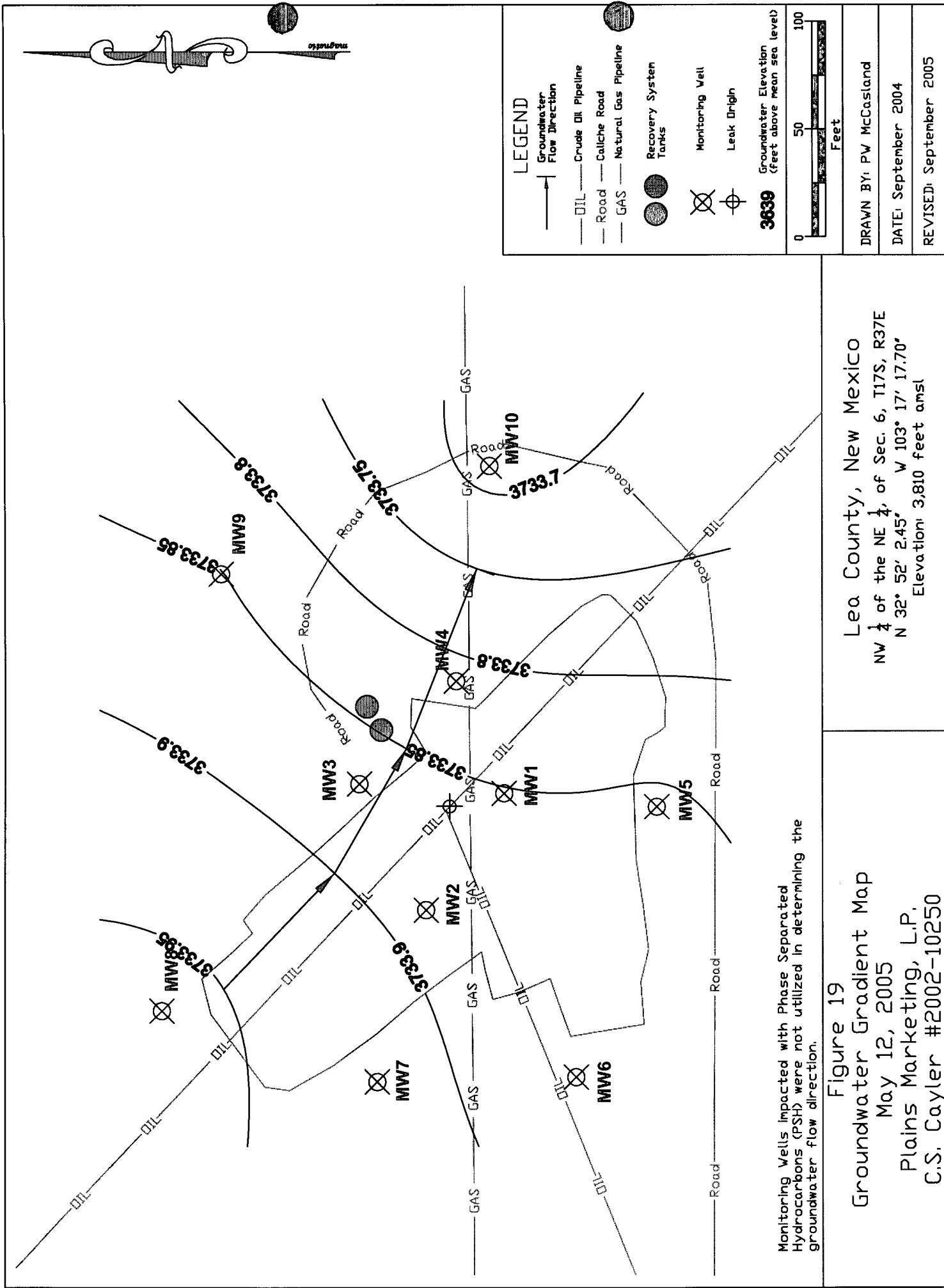
Figure 16
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Monitoring Wells MW6 through MW10 Soil Analytical
 Total Petroleum Hydrocarbons 8015M

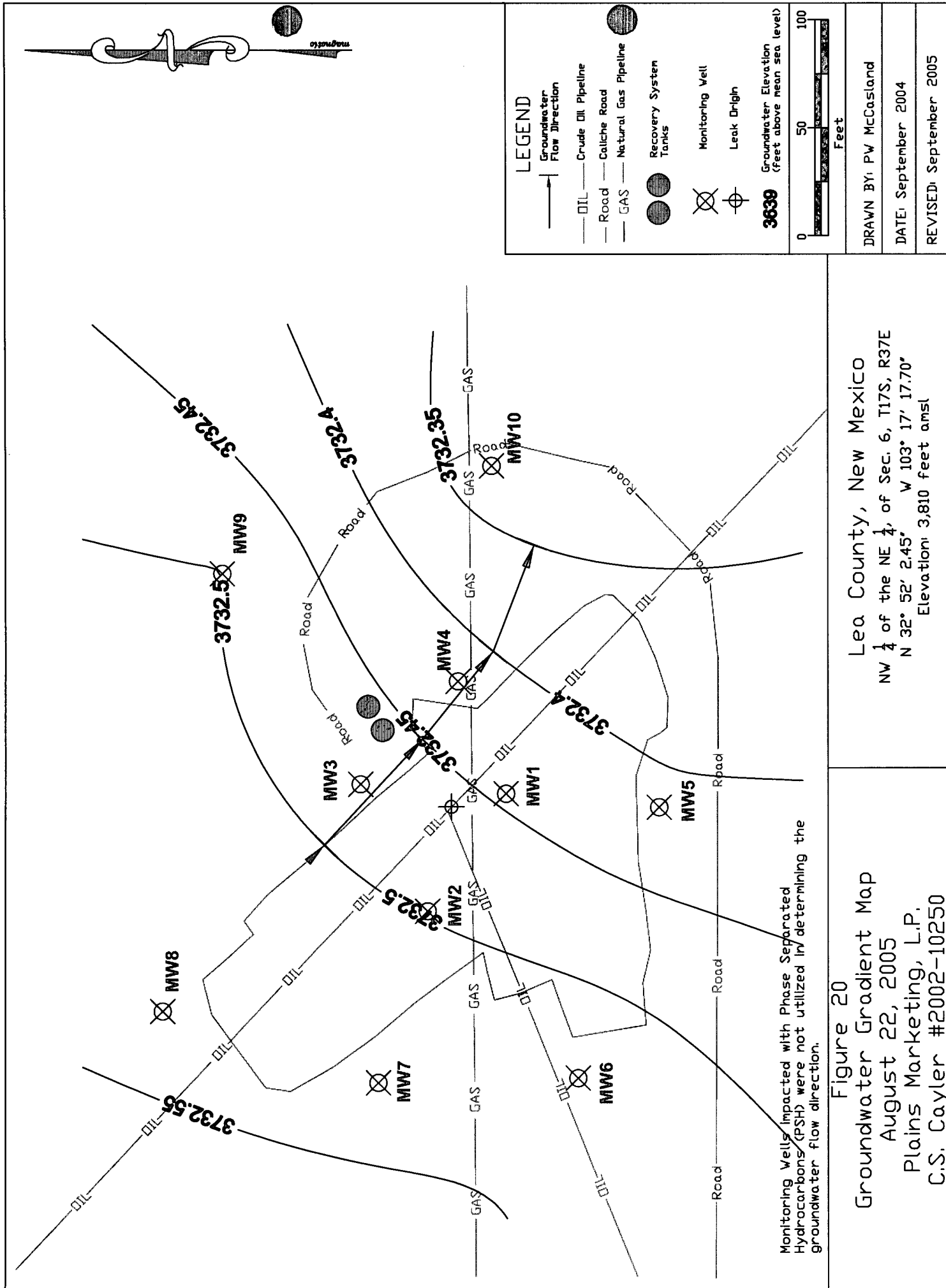




Groundwater Elevation Information was interpolated from the USGS Topographical Map.		Figure 17	
Area Groundwater Elevation Map Plains Marketing, L.P. C.S. Cayler #2002-10250		Lea County, New Mexico NW $\frac{1}{4}$ of the NE $\frac{1}{4}$, of Sec. 6, T17S, R37E N 32° 52' 2.45" W 103° 17' 17.70" Elevation: 3,810 feet amsl	
DRAWN BY: PW McCasland		CHECKED BY: I Diness	
DATE: September 2004		REVISED:	







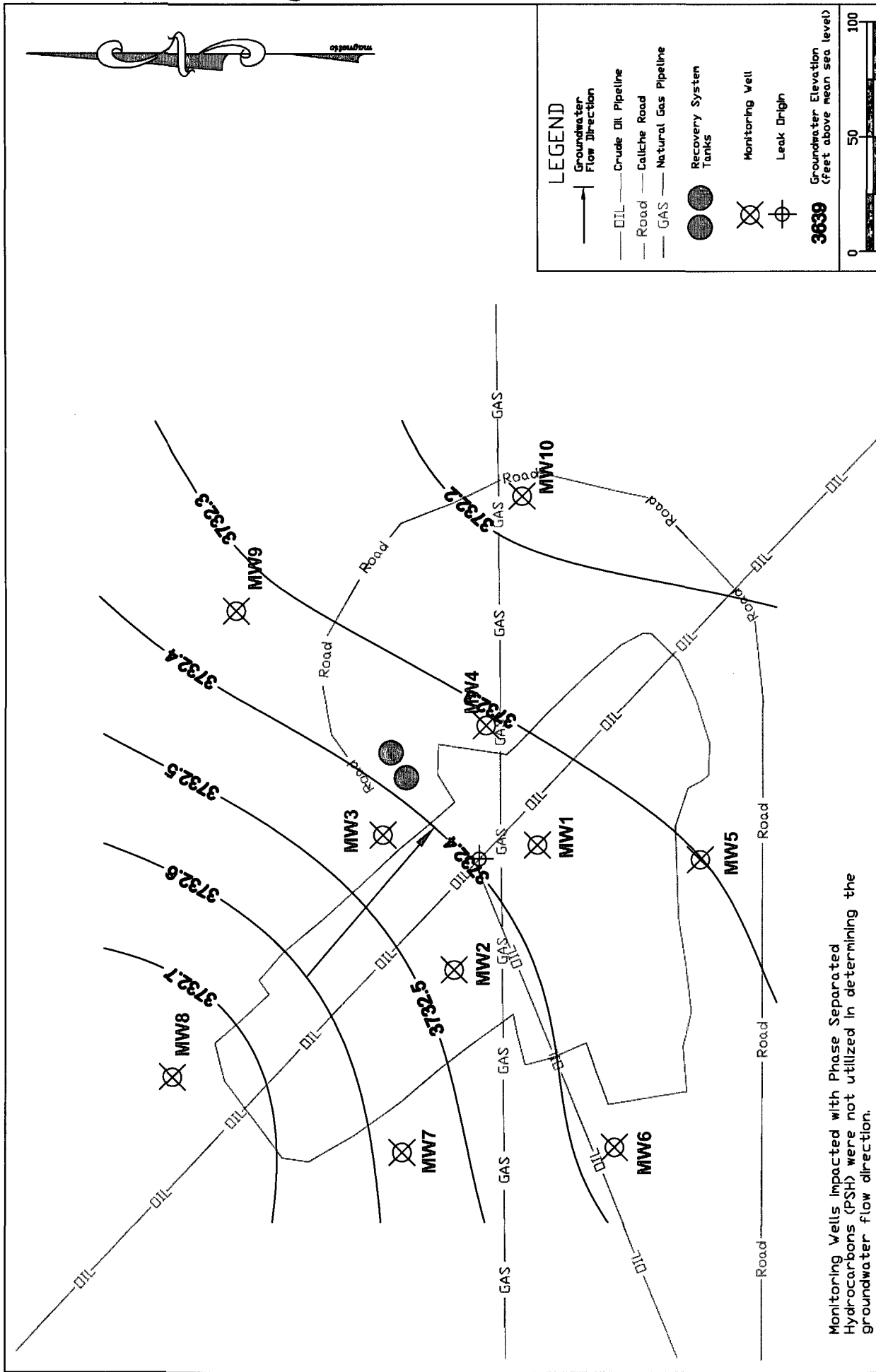


Figure 21
 Groundwater Gradient Map
 September 15, 2005
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250

Lea County, New Mexico
 NW 1/4 of the NE 1/4, of Sec. 6, T17S, R37E
 N 32° 52' 2.45" W 103° 17' 17.70"
 Elevation: 3,810 feet amsl

DRAWN BY: PW McCasland

DATE: September 2004

REVISED: September 2005

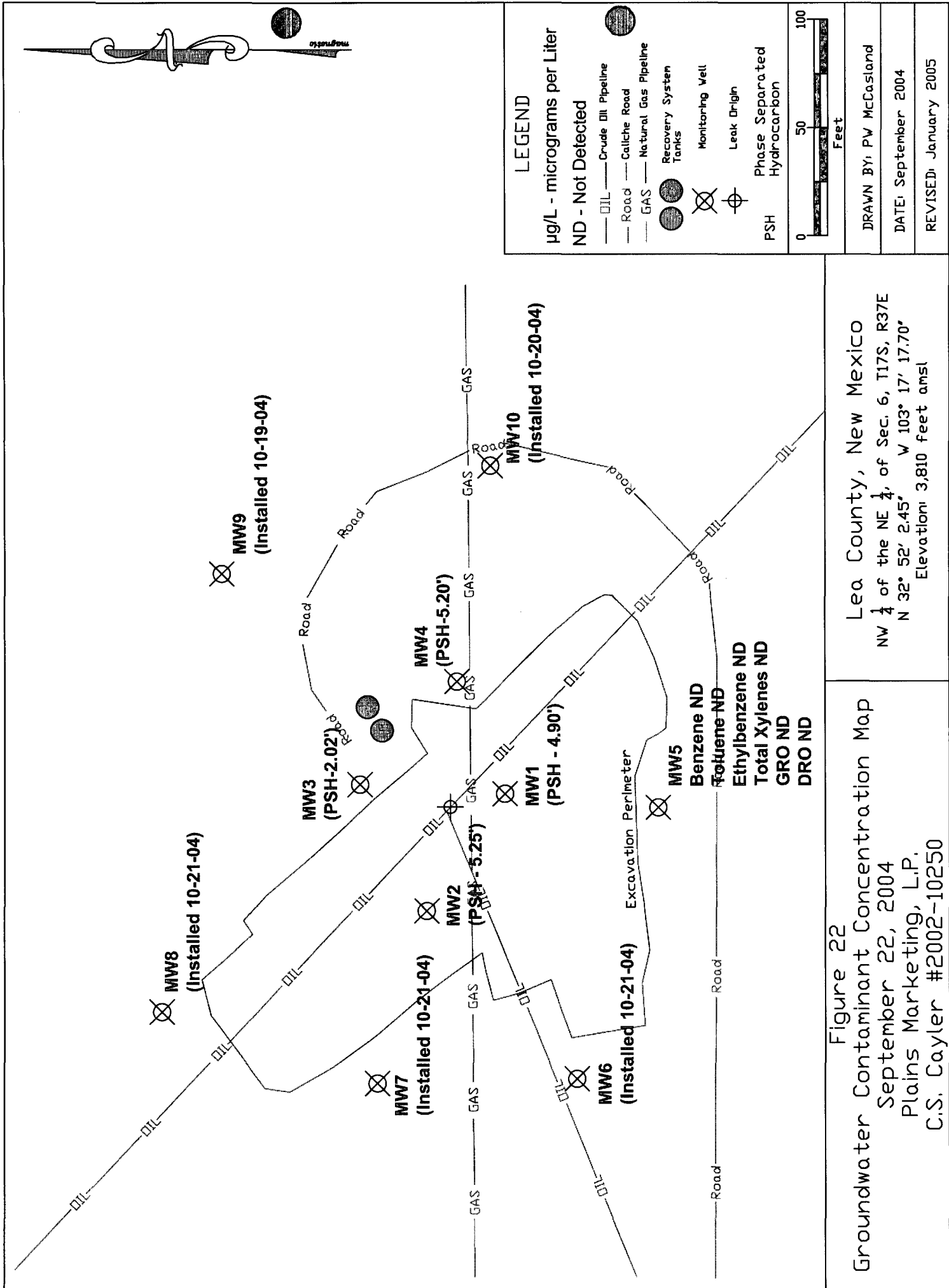


Figure 22

Groundwater Contaminant Concentration Map

September 22, 2004

Plains Marketing, L.P.

C.S. Cayler #2002-10250

Lea County, New Mexico

NW ¼ of the NE ¼ of Sec. 6, T17S, R37E

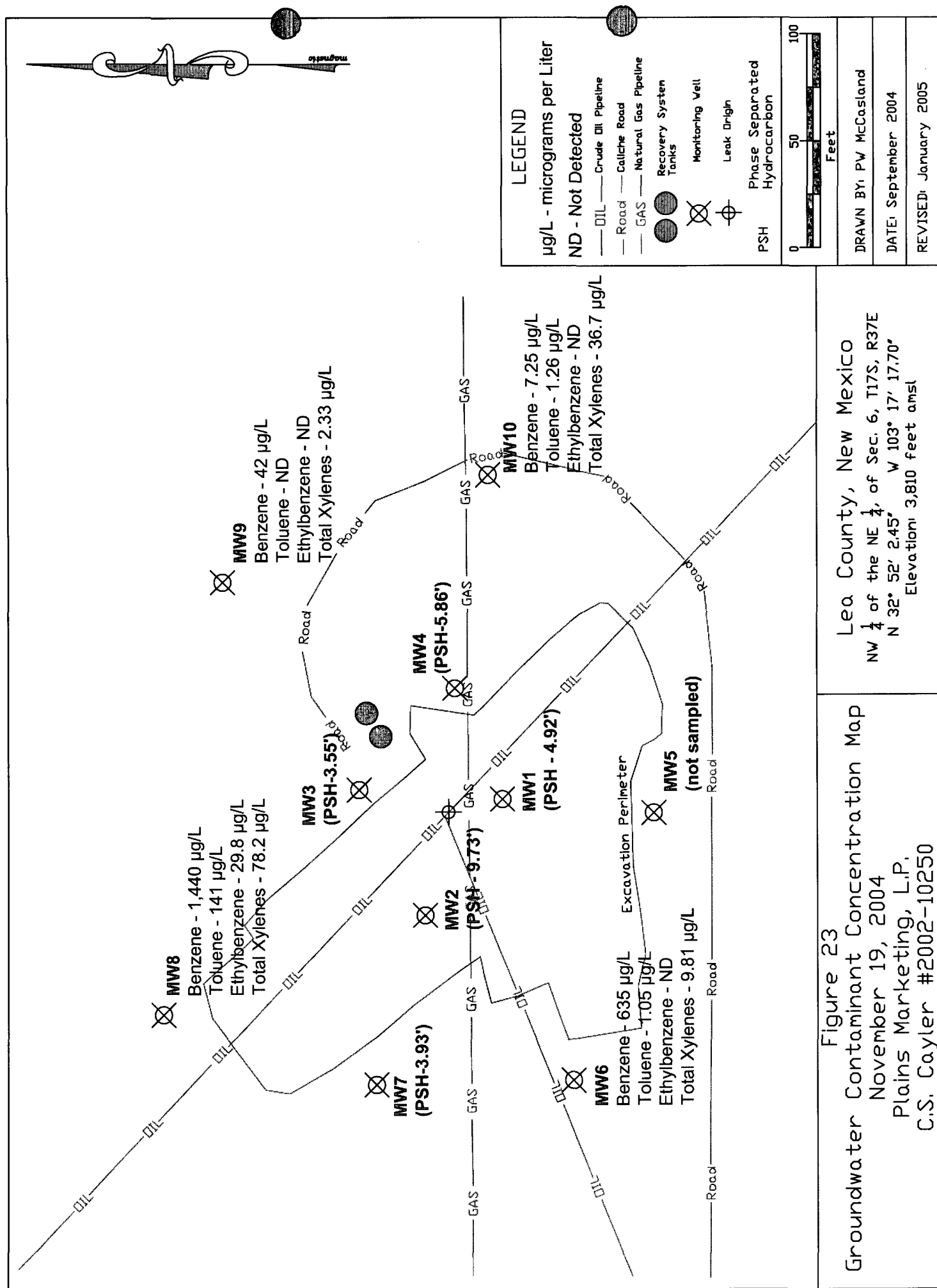
N 32° 52' 2.45" W 103° 17' 17.70"

Elevation: 3,810 feet amsl

DRAWN BY: PW McCasland

DATE: September 2004

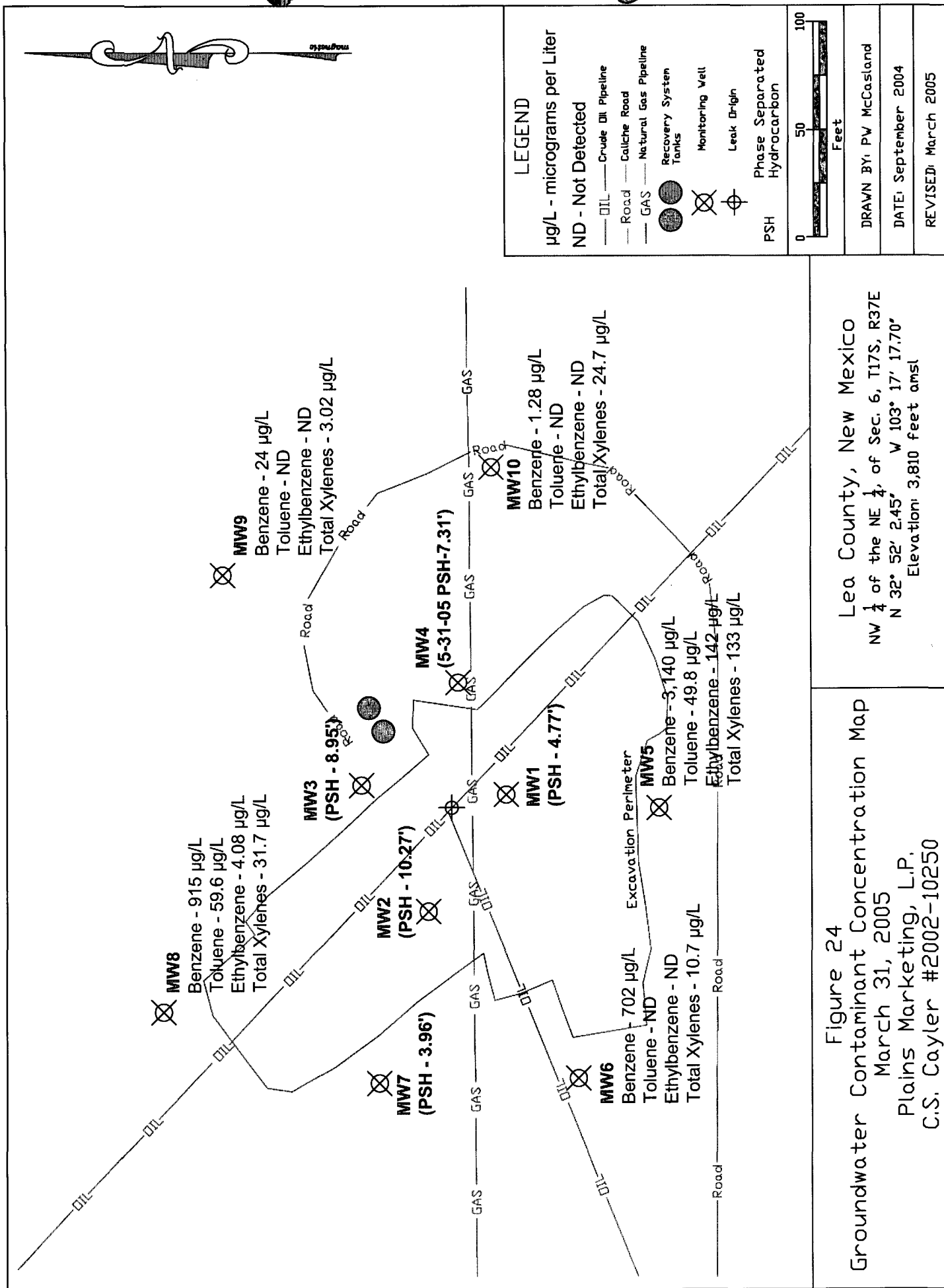
REVISED: January 2005



Lea County, New Mexico
 NW ¼ of the NE ¼, of Sec. 6, T17S, R37E
 N 32° 52' 24.5" W 103° 17' 17.70"
 Elevation: 3,810 feet amsl

Figure 23
 Groundwater Contaminant Concentration Map
 November 19, 2004
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250

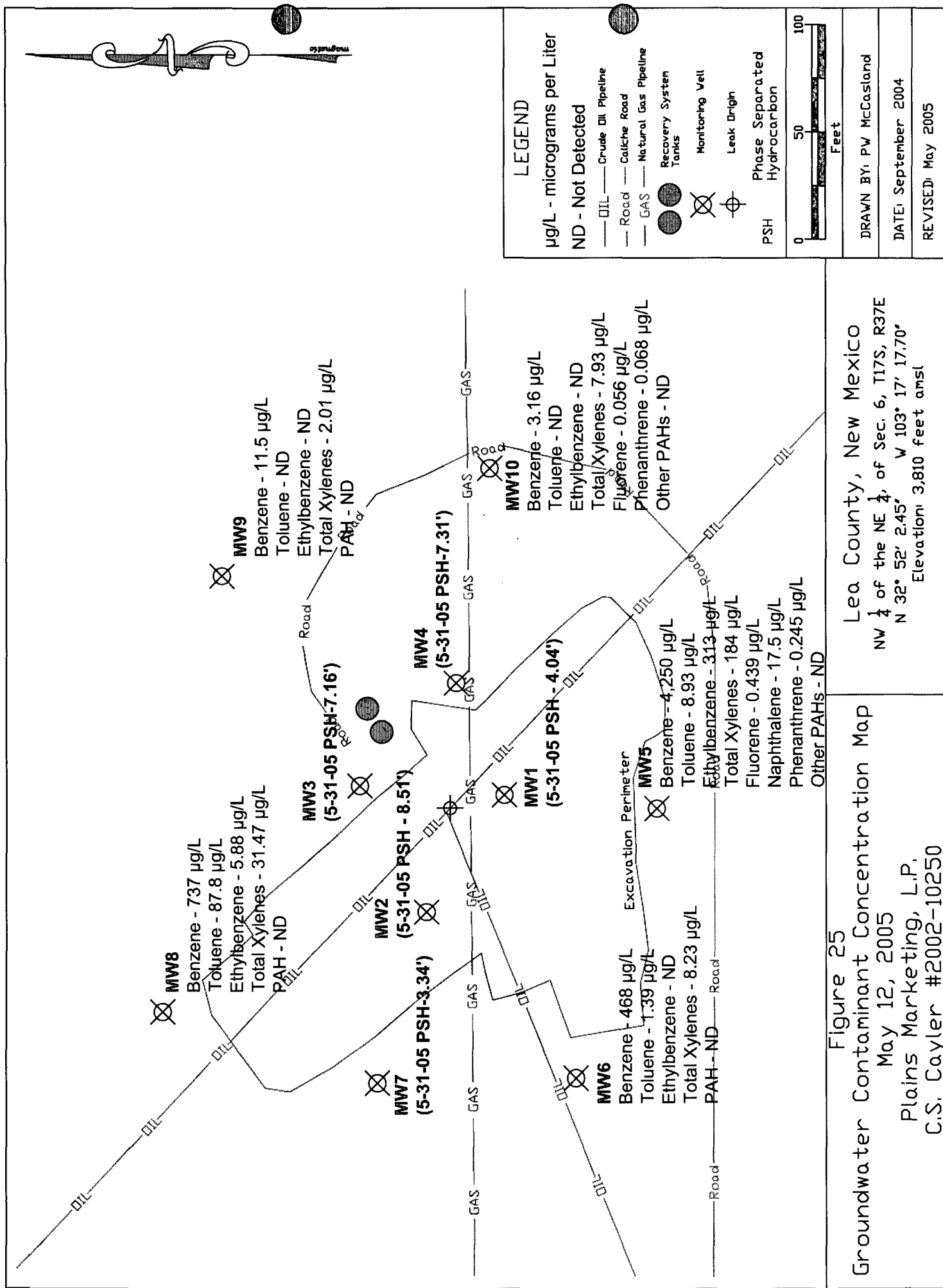
DRAWN BY: PW McCasland
 DATE: September 2004
 REVISED: January 2005



Lea County, New Mexico
 NW ¼ of the NE ¼, of Sec. 6, T17S, R37E
 N 32° 52' 2.45" W 103° 17' 17.70"
 Elevation: 3,810 feet amsl

Figure 24
 Groundwater Contaminant Concentration Map
 March 31, 2005
 Plains Marketing, L.P.
 C.S. Caylor #2002-10250

DRAWN BY: PW McCasland
 DATE: September 2004
 REVISED: March 2005



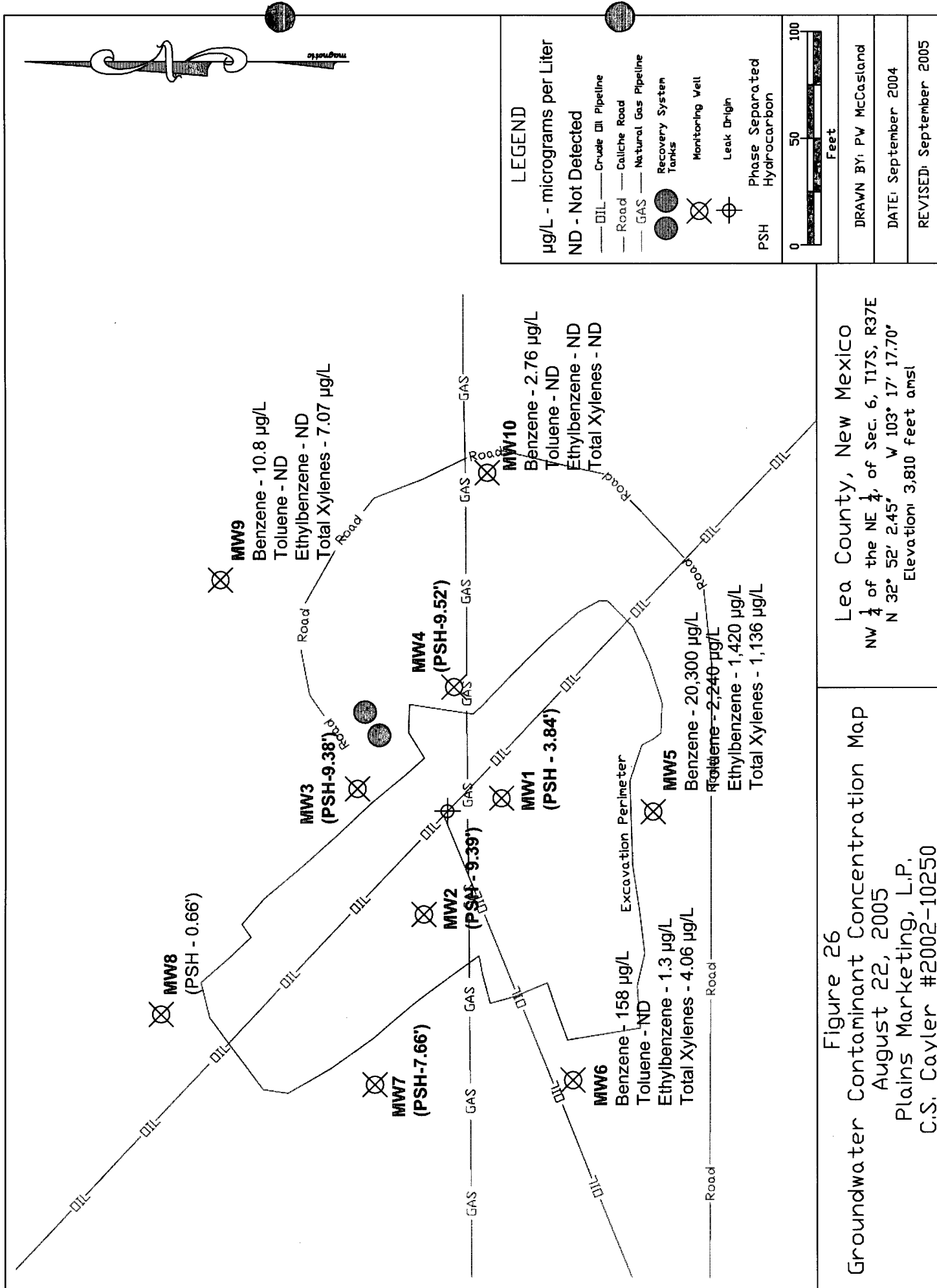


Figure 27
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Hydrograph
 Monitoring Wells MW1 through MW5

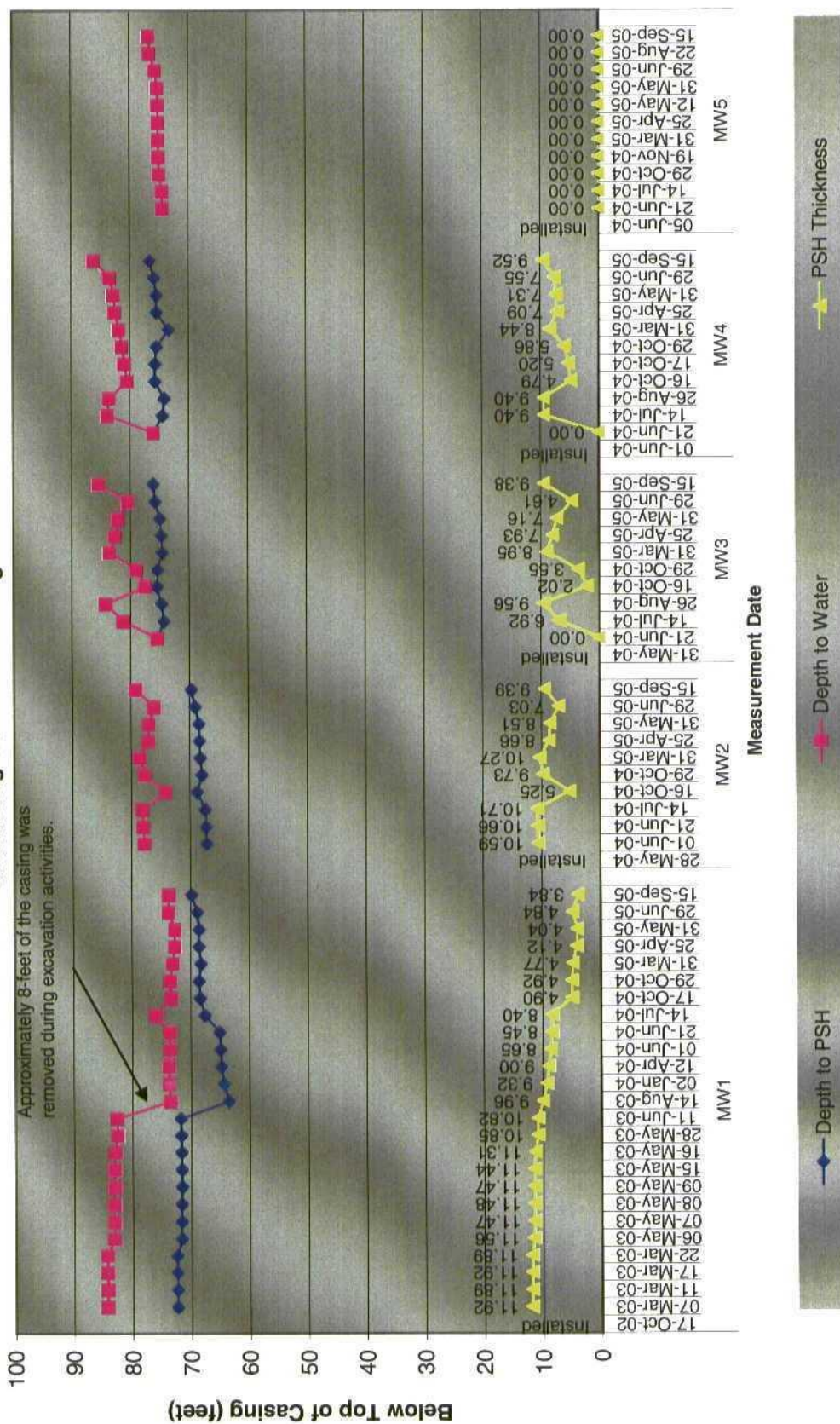
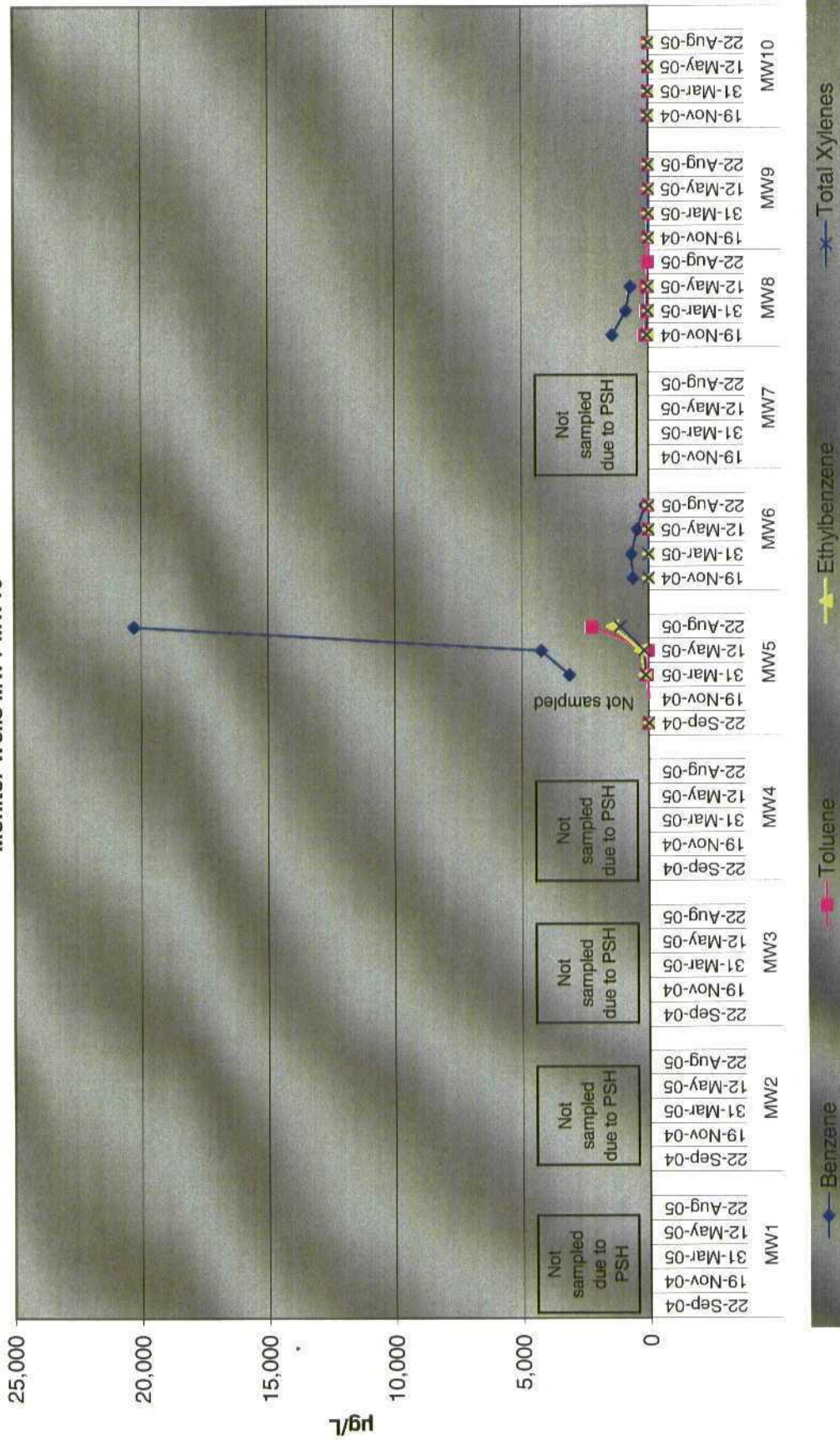
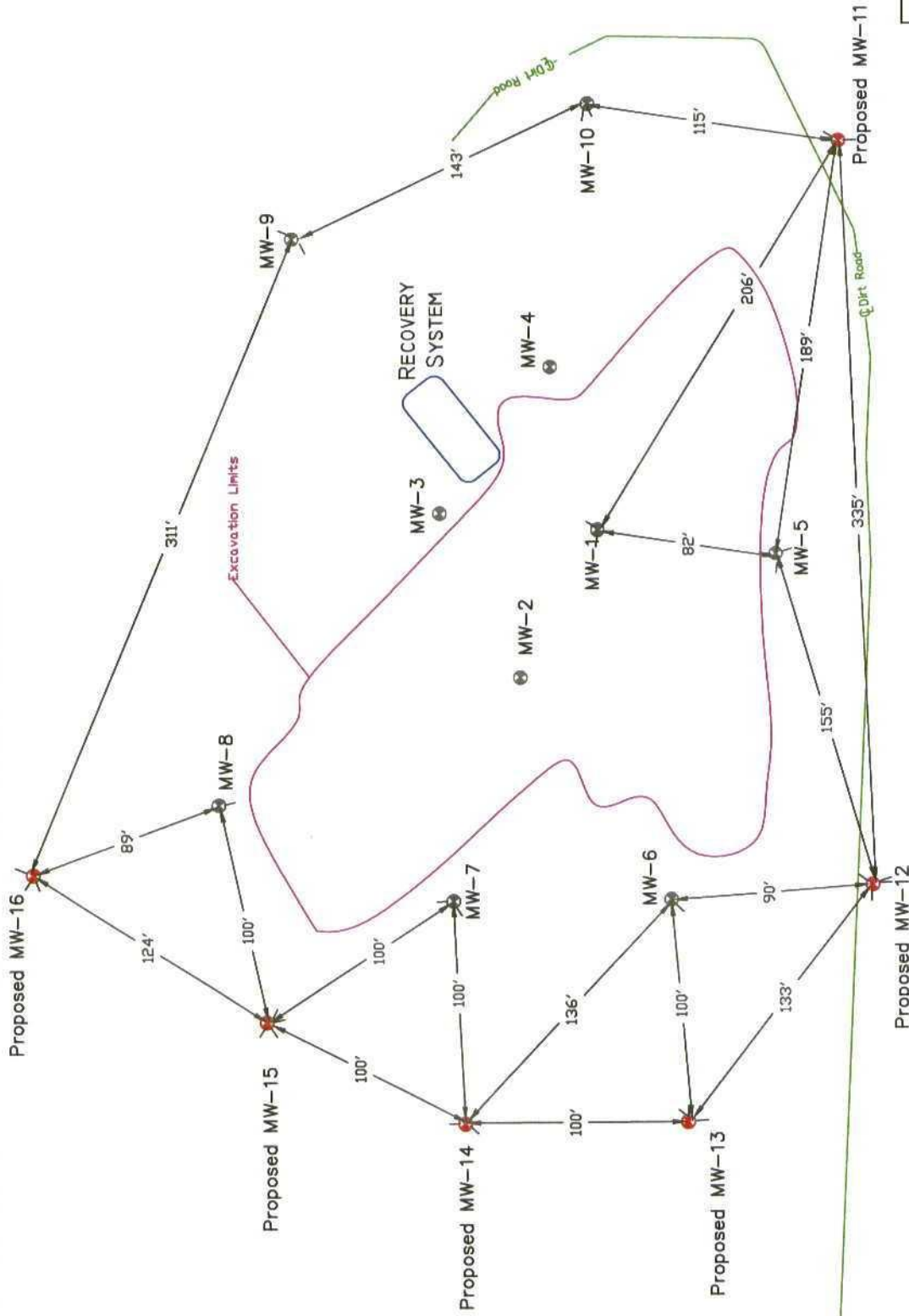


Figure 29
 Plains Marketing, L.P.
 C.S. Cayler #2002-10250
 Benzene, Toluene, Ethylbenzene, and Total Xylene Concentrations
 Monitor Wells MW1-MW10

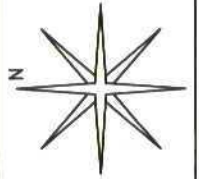




LEGEND

-○- Dirt Road - Access Road

⊕ Monitoring Well



Revised By:
Pat McCasland
Aug. 2005

DWG By: Iain Olness
September 2004

SHEET
1 of 1



Lea County, New Mexico
NW 1/4 of the NE 1/4, Sec. 6, T17S, R37E
N 32° 52' 2.45" W 103° 17' 17.7"
Elevation: 3,810 feet amsl

Figure 30
Proposed Monitor Well Location Map
August 2005
Plains Marketing, L.P.
C.S. Cayler #2002-10250

TABLES

Table 1
Plains Marketing, L.P.
C.S. Cayler - Ref. #2002-10250
Soil Boring Analytical Summary

Soil Boring (BH)	Sampling Interval (bgs) ¹	Sample ID	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m.p) (mg/Kg)	Xylene (o) (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO) ⁶ (mg/Kg)	TPH (DRO) ⁵ (mg/Kg)	TPH (mg/Kg)
BH1	5	CSC101702BH1-5	10/17/2002	not logged	NA	122	395	164	318	121	1,120	10,800	15,700	26,500
	10	CSC101702BH1-10	10/17/2002	not logged	NA	34.1	172	89	204	83	582	9,110	7,650	16,760
	15	CSC101702BH1-15	10/17/2002	not logged	NA	12.9	68.6	32.1	53.1	20.4	187	2,680	2,220	4,900
	20	CSC101702BH1-20	10/17/2002	not logged	NA	64.5	204	65.2	101	39.4	474	4,270	3,810	8,000
	25	CSC101702BH1-25	10/17/2002	not logged	NA	130	398	174	271	105	1,078	9,190	10,800	19,990
	30	CSC101702BH1-30	10/17/2002	not logged	NA	47.0	248	105	178	70.6	649	8,350	10,300	18,650
	35	CSC101702BH1-35	10/17/2002	not logged	NA	58.1	189	75.6	130	50.7	503	6,670	8,330	15,000
	40	CSC101702BH1-40	10/17/2002	not logged	NA	116	359	152	244	92.7	964	7,250	9,890	17,140
	45	CSC101702BH1-45	10/17/2002	not logged	NA	89.7	403	152	243	95.9	984	5,720	7,430	13,150
	50	CSC101702BH1-50	10/17/2002	not logged	NA	59.4	336	147	241	90.1	874	6,650	8,680	15,330
BH2	60	CSC101702BH1-60	10/17/2002	not logged	NA	75.2	334	126	233	93.6	862	8,230	10,800	19,030
	65	CSC101702BH1-65	10/17/2002	not logged	NA	214	622	224	382	152	1,594	11,600	14,800	26,400
	5	CSC102202BH2-5	10/22/2002	not logged	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<5	<5	<5
	10	CSC102202BH2-10	10/22/2002	not logged	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<5	<5	<5
	15	CSC102202BH2-15	10/22/2002	not logged	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<5	<5	<5
BH3	5	SECSC92302BH3-5	9/24/2002	Brown sand (oily/odorous)	1,196	261	714	260	425	144	1,804	16,200	16,700	32,900
	10	SECSC92302BH3-10	9/24/2002	Brown sand (oily/odorous)	1,226	253	575	225	340	114	1,507	12,000	13,400	25,400
	15	SECSC92302BH3-15	9/24/2002	Tan sand/rock (odorous)	887	89.4	225	131	216	76.8	738	8,440	9,470	17,910
	20	SECSC92302BH3-20	9/24/2002	Tan sand/rock (odorous)	1,526	30.4	151	77.4	141	50.2	450	8,560	7,120	15,680
	25	SECSC92302BH3-25	9/24/2002	Brown sand (oily/odorous)	743	324	706	288	463	157	1,938	15,000	17,200	32,000
	30	SECSC92302BH3-30	9/24/2002	Brown sand (oily/odorous)	924	361	791	345	530	179	2,206	17,500	19,300	36,800
	35	SECSC92302BH3-35	9/24/2002	Brown sand (oily/odorous)	1,439	45.4	215	109	179	64.2	613	9,310	9,850	19,160
	40	SECSC92302BH3-40	9/24/2002	Brown sand (oily/odorous)	869	160	430	199	336	110	1,235	9,710	11,400	21,110
	5	SECSC92302BH4-5	9/23/2002	White caliche/sand	1.9	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<5	<5	<5
	10	SECSC92302BH4-10	9/23/2002	Brown sand	20.4	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	10	<5	<5
BH4	15	SECSC92302BH4-15	9/23/2002	Brown sand/rock	16.3	<0.020	0.028	0.085	0.141	0.059	0.312	34.8	13.1	47.9
NMOC Remedial Thresholds						10					50			100

¹ Batted values are in excess of the NMOC Remediation Thresholds

² NA: Not Analyzed

³ NS: Not Sampled

⁴ bgs: feet below ground surface

⁵ DRO: Diesel-range organics

⁶ GRO: Gasoline range organics

⁷ TPH: Total Petroleum Hydrocarbons

⁸ VOC: Volatile Organic Constituent vapor headspace

Table 2

[illegible]

Table 2
Plains Marketing, L.P.
C.S. Cayler - Ref. #2002-10250
Monitoring Well Soil Analytical Summary

Monitoring Well	Sampling Interval (bgs)	Sample ID	Sample Date	Lithology & Description	VOC ^a (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
MW-5	3-5	MW-5 (3'-5')	6/14/2004	Caliche	184	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-5 (8'-10')	6/14/2004	Caliche	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-5 (13'-15')	6/14/2004	Caliche	144	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-5 (18'-20')	6/14/2004	Caliche	210	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-5 (23'-25')	6/14/2004	Caliche sand	157	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-5 (28'-30')	6/14/2004	Sand	134	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-5 (33'-35')	6/14/2004	Sand	178	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-5 (38'-40')	6/14/2004	Sand	352	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-5 (43'-45')	6/14/2004	Sand	236	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-5 (48'-50')	6/14/2004	Sand	246	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-5 (53'-55')	6/14/2004	Sand	137	<0.025	0.026	<0.025	0.045	<0.025	<0.025	<10.0	15.8	15.8
	58-60	MW-5 (58'-60')	6/14/2004	Sand	199	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-5 (63'-65')	6/14/2004	Sand	208	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-5 (68'-70')	6/14/2004	Sand (damp)	1409	216	491	145	235	81.9	1169	20,800	22,800	43,600
	73-75	MW-5 (73'-75')	6/14/2004	Caliche sand (damp)	654	13.7	96.0	63.6	107	45.8	326	6,950	20,200	27,150
MW-6	78-80	MW-5 (78'-80')	6/14/2004	Sand (wet)	169	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0-25	MW-6 (0'-25')	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25-30	MW-6 (25'-30')	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	27.6	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<2.5	<5	<5
	33-35	MW-6 (33'-35')	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	26.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-6 (38'-40')	10/21/2004	Tan fine sand	44.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-6 (43'-45')	10/21/2004	Tan fine sand	37.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-6 (48'-50')	10/21/2004	Reddish brown fine sand	74.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	MW-6 (55'-60')	10/21/2004	Reddish brown fine sand	99.4	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<2.5	<5	<5
	63-65	MW-6 (63'-65')	10/21/2004	Reddish brown fine sand	51.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-6 (68'-70')	10/21/2004	Reddish brown fine sand and angular rocks	62.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-6 (74'-75')	10/21/2004	Reddish brown fine sand (damp)	54.2	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<2.5	<5	<5

Table 2

Plains Marketing, L.P.

C.S. Cayler - Ref. #2002-10250

Monitoring Well Soil Analytical Summary

Monitoring Well	Sampling Interval (logs')	Sample ID	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁵) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
MW-7	0-27	MW-7 (0'-27')	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-28	MW-7 (27'-28')	10/21/2004	Red fine sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-29	MW-7 (28'-29')	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-30	MW-7 (29'-30')	10/21/2004	Fine red sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-35	MW-7 (30'-35')	10/21/2004	Fine reddish white caliche sand mix	28.1	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	38-40	MW-7 (38'-40')	10/21/2004	Fine reddish brown sand (top 6" whitish)	50.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-7 (43'-45')	10/21/2004	Fine reddish brown sand w/ hard packed pebbles	53.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-7 (48'-50')	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	33.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	MW-7 (50'-55')	10/21/2004	Fine reddish brown sand	79.2	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	55-60	MW-7 (55'-60')	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	49.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	63-65	MW-7 (63'-65')	10/21/2004	Fine reddish brown sand	79.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-7 (68'-70')	10/21/2004	NS (tig stuck-drilled past)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	74-75	MW-7 (74'-75')	10/21/2004	Fine reddish brown sand w/ some gravel (odorous)	223	20.3	92.0	36.5	66.8	23.2	239	1,560	1,570	3,130
	0-5	MW-8 (0'-5')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-15	MW-8 (5'-15')	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15-30	MW-8 (15'-30')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-35	MW-8 (30'-35')	10/20/2004	Fine tan sand caliche mix	21.3	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	37-38	MW-8 (37'-38')	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	38-40	MW-8 (38'-40')	10/20/2004	Fine tan sand caliche mix	27.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-8 (43'-45')	10/20/2004	Fine reddish brown sand w/ some pebbles	26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	45-50	MW-8 (45'-50')	10/20/2004	Fine reddish brown sand	22.9	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	53-55	MW-8 (53'-55')	10/20/2004	Fine reddish brown sand w/ some pebbles	27.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-8 (58'-60')	10/20/2004	Fine reddish brown sand w/ angular rock	45.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-8 (63'-65')	10/20/2004	Fine reddish brown sand w/ angular rock	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-8 (68'-70')	10/20/2004	Fine reddish brown sand w/ angular rock	23.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-8 (74'-75')	10/20/2004	Fine reddish brown sand (wet green black staining odorous)	75.1	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5

Table 2

Plains Marketing, L.P.

C.S. Cayler - Ref. #2002-10250

Monitoring Well Soil Analytical Summary

Monitoring Well	Sampling Interval (bgs) ⁴	Sample ID	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (m.p) (mg/kg)	Xylene (o) (mg/kg)	BTEX (mg/kg)	TPH ⁷ (GRO ⁶) (mg/kg)	TPH (DRO ⁵) (mg/kg)	Total TPH (mg/kg)
MW-9	0-5	MW-9 (0'-5')	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5-12	MW-9 (5'-12')	10/19/2004	Sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-24.5	MW-9 (12'-24.5')	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24.5-25	MW-9 (24.5'-25')	10/19/2004	Red brown fine sand w/ some silt and clay	18.0	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	33-35	MW-9 (33'-35')	10/19/2004	Tan fine sand compacted	15.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-9 (38'-40')	10/19/2004	Reddish brown fine sand	38.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-9 (43'-45')	10/19/2004	Reddish brown fine sand	17.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-9 (48'-50')	10/19/2004	Reddish brown fine sand	33.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-9 (53'-55')	10/19/2004	Reddish brown fine sand	42.6	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	58-60	MW-9 (58'-60')	10/19/2004	Reddish brown fine sand w/ some pebbles	40.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-9 (63'-65')	10/19/2004	Reddish brown fine sand w/ some pebbles	21.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-9 (68'-70')	10/19/2004	Reddish brown fine sand (damp)	24.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-9 (74'-75')	10/19/2004	Reddish brown fine sand (wet)	16.0	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	0-5	MW-10 (74'-75')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	5-12	MW-10 (74'-75')	10/20/2004	Sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12-29	MW-10 (74'-75')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-30	MW-10 (29'-30')	10/20/2004	Red brown fine sand w/ some silt and clay	20.1	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	33-35	MW-10 (74'-75')	10/20/2004	Tan fine sand compacted	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	43.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	29.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	MW-10 (45'-50')	10/20/2004	Reddish brown fine sand	23.2	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	53-55	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand	48.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand w/ some pebbles	42.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand w/ some pebbles	28.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand (damp)	25.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	MW-10 (74'-75')	10/20/2004	Reddish brown fine sand (wet)	23.3	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	NMOCD Remedial Thresholds					10					50			100

¹ Bolded values are in excess of the NMOCD Remediation Thresholds² NA : Not Analyzed³ NS : Not Sampled⁴ bgs : feet below ground surface⁵ DRO : Diesel range organics⁶ GRO : Gasoline range organics⁷ TPH : Total Petroleum Hydrocarbons⁸ VOC : Volatile Organic Constituent vapor headspace

Table 3
Plains Marketing, L.P.
C.S. Cayler - Ref. #2002-10250
Soil Lift Analytical Summary

Sample Location	Sample ID	Sample Date	Lithology & Description	VOC ⁸	Benzene	Toluene	Ethylbenzene	Xylenes (m,p)	Xylene (o)	BTEX	TPH ⁷ (GRO ⁶)	TPH (DRO ⁵)	TPH (mg/Kg)
Northwest Quadrant	NW	12/16/2004	Sand/rock mix	NA	NA	NA	NA	NA	NA	NA	<5	741	741
Northeast Quadrant	NE	12/16/2004	Sand/rock mix	NA	NA	NA	NA	NA	NA	NA	<5	1,000	1,000
Southeast Quadrant	SE	12/16/2004	Sand/rock mix	NA	NA	NA	NA	NA	NA	NA	<5	72.2	72.2
Southwest Quadrant	SW	12/16/2004	Sand/rock mix	NA	NA	NA	NA	NA	NA	NA	<5	492	492
New Mexico Oil Conservation Division Remedial Goals					10					50			100

¹ *Bolded values are in excess of the NMOCD Remediation Thresholds*

² *NA : Not Analyzed*

³ *NS : Not Sampled*

⁴ *bgs : feet below ground surface*

⁵ *DRO : Diesel range organics*

⁶ *GRO : Gasoline range organics*

⁷ *TPH : Total Petroleum Hydrocarbons*

⁸ *VOC: Volatile Organic Constituent vapor headspace*

Table 4
Plains Marketing, L.P.
C. S. Cayler - Ref. #2002-10250
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses

Monitor Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW1	17-Oct-02	WELL INSTALLED 17-Oct-02				
	07-Mar-03	3,803.97	72.28	84.20	3,730.50	11.92
	11-Mar-03		72.30	84.19	3,730.48	11.89
	17-Mar-03		72.33	84.25	3,730.45	11.92
	22-Mar-03		72.35	84.24	3,730.43	11.89
	06-May-03		71.55	83.11	3,731.26	11.56
	07-May-03		71.58	83.05	3,731.24	11.47
	08-May-03		71.55	83.03	3,731.27	11.48
	09-May-03		71.53	83.00	3,731.29	11.47
	15-May-03		71.57	83.01	3,731.26	11.44
	16-May-03		71.59	82.90	3,731.25	11.31
	28-May-03		71.65	82.50	3,731.24	10.85
	11-Jun-03		71.75	82.57	3,731.14	10.82
	14-Aug-03		63.45	73.41	3,739.52	9.96
	02-Jan-04		64.31	73.63	3,738.73	9.32
	12-Apr-04		64.74	73.74	3,738.33	9.00
	01-Jun-04		64.87	73.52	3,738.24	8.65
	21-Jun-04		65.04	73.49	3,738.09	8.45
	14-Jul-04		67.52	75.92	3,735.61	8.40
	17-Oct-04		68.38	73.28	3,735.10	4.90
	29-Oct-04		68.53	73.45	3,734.95	4.92
	31-Mar-05		68.23	73.00	3,735.26	4.77
	25-Apr-05		68.56	72.68	3,735.00	4.12
	31-May-05		68.57	72.61	3,735.00	4.04
	29-Jun-05		68.88	73.72	3,734.61	4.84
	15-Sep-05		69.79	73.63	3,733.80	3.84
MW2	28-May-04	WELL INSTALLED 28-May-04				
	01-Jun-04	3,803.93	67.17	77.76	3,735.70	10.59
	21-Jun-04		67.27	77.93	3,735.59	10.66
	14-Jul-04		67.38	78.09	3,735.48	10.71
	16-Oct-04		68.79	74.04	3,734.62	5.25
	29-Oct-04		67.97	77.70	3,734.99	9.73
	31-Mar-05		68.23	78.50	3,734.67	10.27
	25-Apr-05		68.37	77.03	3,734.69	8.66
	31-May-05		68.46	76.97	3,734.62	8.51
	29-Jun-05		69.09	76.12	3,734.14	7.03
	15-Sep-05		69.75	79.14	3,733.24	9.39
MW3	31-May-04	WELL INSTALLED 31-May-04				
	21-Jun-04	3,807.90	75.51	75.51	3,732.39	ND
	14-Jul-04		74.39	81.31	3,732.82	6.92
	26-Aug-04		74.75	84.31	3,732.19	9.56
	16-Oct-04		75.53	77.55	3,732.17	2.02
	29-Oct-04		75.45	79.00	3,732.10	3.55
	31-Mar-05		74.65	83.60	3,732.36	8.95
	25-Apr-05		74.81	82.74	3,732.30	7.93
	31-May-05		75.00	82.16	3,732.18	7.16
	29-Jun-05		75.83	80.44	3,731.61	4.61
	15-Sep-05		76.09	85.47	3,730.87	9.38

Table 4
Plains Marketing, L.P.
C. S. Cayler - Ref. #2002-10250
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses

Monitor Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW4	01-Jun-04	WELL INSTALLED 01-Jun-04				
	21-Jun-04	3,810.70	76.04	76.04	3,734.66	ND
	14-Jul-04		74.51	83.91	3,735.25	9.40
	26-Aug-04		74.21	83.61	3,735.55	9.40
	16-Oct-04		75.77	80.56	3,734.45	4.79
	17-Oct-04		75.76	80.96	3,734.42	5.20
	29-Oct-04		75.56	81.42	3,734.55	5.86
	31-Mar-05		73.51	81.95	3,736.35	8.44
	25-Apr-05		75.53	82.62	3,734.46	7.09
	31-May-05		75.55	82.86	3,734.42	7.31
	29-Jun-05		75.96	83.51	3,733.99	7.55
	15-Sep-05		76.71	86.23	3,733.04	9.52
MW5	05-Jun-04	WELL INSTALLED 05-Jun-04				
	21-Jun-04	3,809.05	--	74.42	3,734.63	ND
	14-Jul-04		--	74.53	3,734.52	ND
	29-Oct-04		--	75.00	3,734.05	ND
	19-Nov-04		--	75.10	3,733.95	ND
	31-Mar-05		--	75.18	3,733.87	ND
	25-Apr-05		--	75.19	3,733.86	ND
	12-May-05		--	75.22	3,733.83	ND
	31-May-05		--	75.25	3,733.80	ND
	29-Jun-05		--	75.67	3,733.38	ND
	22-Aug-05		--	76.64	3,732.41	ND
	15-Sep-05		--	76.75	3,732.30	ND
MW6	21-Oct-04	WELL INSTALLED 21-Oct-04				
	27-Oct-04	3,809.17	--	75.13	3,734.04	ND
	29-Oct-04		--	75.13	3,734.04	ND
	19-Nov-04		--	75.23	3,733.94	ND
	31-Mar-05		--	75.33	3,733.84	ND
	25-Apr-05		--	75.27	3,733.90	ND
	12-May-05		--	75.30	3,733.87	ND
	31-May-05		--	75.33	3,733.84	ND
	29-Jun-05		--	75.68	3,733.49	ND
	22-Aug-05		--	76.63	3,732.54	ND
	15-Sep-05		--	76.80	3,732.37	ND
MW7	21-Oct-04	WELL INSTALLED 21-Oct-04				
	27-Oct-04	3,809.95	75.82	76.05	3,734.11	0.23
	29-Oct-04		75.82	76.05	3,734.11	0.23
	19-Nov-04		75.21	79.14	3,734.35	3.93
	31-Mar-05		75.22	79.18	3,734.33	3.96
	25-Apr-05		74.37	82.84	3,734.73	8.47
	31-May-05		75.41	78.75	3,734.21	3.34
	29-Jun-05		74.86	83.31	3,734.25	8.45
	15-Sep-05		75.92	83.58	3,733.26	7.66

Table 4
Plains Marketing, L.P.
C. S. Cayler - Ref. #2002-10250
Groundwater Elevations and
Phase Separated Hydrocarbon (PSH) Thicknesses

Monitor Well	Date Gauged	Surveyed Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW8	20-Oct-04	WELL INSTALLED 20-Oct-04				
	27-Oct-04	3,810.29	--	76.20	3,734.09	ND
	29-Oct-04		--	76.20	3,734.09	ND
	19-Nov-04		--	76.26	3,734.03	ND
	31-Mar-05		--	76.30	3,733.99	ND
	25-Apr-05		--	76.29	3,734.00	ND
	12-May-05		--	76.32	3,733.97	ND
	31-May-05		--	76.34	3,733.95	ND
	29-Jun-05		--	76.62	3,733.67	ND
	22-Aug-05		77.42	78.08	3,732.21	0.66
	15-Sep-05			77.51	3,732.78	ND
MW9	19-Oct-04	WELL INSTALLED 19-Oct-04				
	27-Oct-04	3,809.81	--	75.85	3,733.96	ND
	29-Oct-04		--	75.85	3,733.96	ND
	19-Nov-04		--	75.91	3,733.90	ND
	31-Mar-05		--	76.97	3,732.84	ND
	25-Apr-05		--	75.91	3,733.90	ND
	12-May-05		--	75.96	3,733.85	ND
	31-May-05		--	75.99	3,733.82	ND
	29-Jun-05		--	76.34	3,733.47	ND
	22-Aug-05		--	77.31	3,732.50	ND
	15-Sep-05		--	77.48	3,732.33	ND
MW10	20-Oct-04	WELL INSTALLED 20-Oct-04				
	27-Oct-04	3,809.64	--	75.76	3,733.88	ND
	29-Oct-04		--	75.76	3,733.88	ND
	19-Nov-04		--	75.84	3,733.80	ND
	31-Mar-05		--	75.87	3,733.77	ND
	25-Apr-05		--	75.85	3,733.79	ND
	12-May-05		--	75.96	3,733.68	ND
	31-May-05		--	75.91	3,733.73	ND
	29-Jun-05		--	76.30	3,733.34	ND
	22-Aug-05		--	77.32	3,732.32	ND
	15-Sep-05		--	77.46	3,732.18	ND

Top of casing elevations referenced to groundwater monitoring well MW-3, which was assigned an elevation of 3,760 feet amsl.

* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)).

-- = Not Detected

If the cell is blank, the well was not gauged.

BTOC = Below Top of Casing

Summary of Groundwater Analytical Results

Well #	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	TPH	
								GRO (mg/L)	DRO (mg/L)
MW1	22-Sep-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	31-Mar-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	12-May-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW2	22-Sep-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	31-Mar-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	12-May-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW3	22-Sep-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	31-Mar-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	12-May-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW4	22-Sep-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	31-Mar-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	12-May-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW5	22-Sep-04	<1	<1	<1	<2	<1	<2	<0.5	<0.5
	19-Nov-04	Not Sampled							
	31-Mar-05	3,140	49.8	142	7.63	125	133		
	12-May-05	4,250	8.93	313	<2	184	184		
	22-Aug-05	20,300	2,240	1,420	377	759	1,136		
MW6	19-Nov-04	635	1.05	<1	9.81	<1	9.81		
	31-Mar-05	702	<1	<1	10.7	<1	10.7		
	12-May-05	468	1.39	<1	8.23	<1	8.23		
	22-Aug-05	158	<1	1.3	4.06	<1	4.06		
MW7	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	31-Mar-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	12-May-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							

Table 5
Plains Marketing, L.P.
C. S. Cayler - Ref. #2002-10250
Summary of Groundwater Analytical Results

Well #	Date	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Total Xylenes	TPH	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	GRO (mg/L)	DRO (mg/L)
MW8	19-Nov-04	1,440	141	29.8	62.6	15.6	78.2		
	31-Mar-05	915	59.6	4.08	25.9	5.78	31.7		
	12-May-05	737	87.8	5.88	23.1	8.37	31.5		
	22-Aug-05	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW9	19-Nov-04	42	<1	<1	2.33	<1	2.33		
	31-Mar-05	24	<1	<1	3.02	<1	3.02		
	12-May-05	11.5	<1	<1	2.01	<1	2.01		
	22-Aug-05	10.8	<1	<1	7.07	<1	7.07		
MW10	19-Nov-04	7.25	1.26	<1	36.7	<1	36.7		
	31-Mar-05	1.28	<1	<1	24.7	<1	24.7		
	12-May-05	3.16	<1	<1	7.93	<1	7.93		
	22-Aug-05	2.76	<1	<1	<2	<1	<3		
NMWQCC Standards		10	750	750			620		

µg/L - micrograms per liter

mg/L - milligrams per liter

TPH - Total Petroleum Hydrocarbons EPA method 8015M

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

Blank cells indicate that analyses was not performed.

NMWQCC - New Mexico Water Quality Control Commission

Table 6
Plains Marketing, L.P.
C. S. Cayler - Ref. #2002-10250
CONCENTRATIONS OF PAH (SEMI-VOLATILE ORGANICS) IN GROUNDWATER

MONITORING WELL		SAMPLE DATE		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Indeno[1,2,3-cd]pyrene	1-Methylnaphthene	2-Methylnaphthene	Naphthalene	Phenanthrene	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L
MW -5	9/24/2004	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
	5/12/2005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.439	<0.05	NA	NA	17.5	0.245	<0.05
MW-6	5/12/2005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
MW -8	5/12/2005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
MW -9	5/12/2005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA	<0.05	<0.05	<0.05
MW -10	5/12/2005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.056	<0.05	NA	NA	<0.05	0.068	<0.05

NA - Not Analyzed

µg/L - micrograms per Liter

mg/L - milligrams per Liter

Table 7

Plains Marketing, L.P.

C.S. Cayler #2002-10250

Phase Separated Hydrocarbon (PSH) Declination Table

Monitoring Well	Period	Average PSH Thickness	Change
		feet	feet
MW1	2003	11.38	
	2004	8.12	-3.26
	Sep-05	3.84	-4.28
MW2	Jun-04	10.59	
	Oct-04	9.73	-0.86
	Sep-05	9.39	-0.34
MW3	Jul-04	6.92	
	Oct-04	3.55	-3.37
	Sep-05	9.38	5.83
MW4	Jul-04	9.4	
	Oct-04	5.86	-3.54
	Sep-05	9.52	3.66
MW5	2004	no PSH	--
MW6	2004	no PSH	--
MW7	Oct-04	0.23	
	Nov-04	3.93	3.70
	Sep-05	7.66	3.73
MW8	Oct-04	no PSH	--
	Aug-05	0.66	0.66
	Sep-05	no PSH	-0.66
MW9	2004	no PSH	--
MW10	2004	no PSH	--

Table 8
Plains Marketing, L.P.
C.S. Cayler #2002-10250
Recommendations for 2005

Monitoring Well	Eight Quarters Below NMOCD Standards	2005 Sampling Schedule				Notes
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
MW1	No	--	-- (resurvey)	--	--	Continue PSH recovery
MW2	No	--	-- (resurvey)	--	--	Continue PSH recovery
MW3	No	--	-- (resurvey)	--	--	Continue PSH recovery
MW4	No	--	-- (resurvey)	--	--	Continue PSH recovery
MW5	No	X	X (resurvey)	X	X	Recommend Annual PAH analysis
MW6	No	X	X (resurvey)	X	X	Recommend Annual PAH analysis
MW7	No	--	-- (resurvey)	--	--	Continue PSH recovery
MW8	No	X	X (resurvey)	X	X	Recommend Annual PAH analysis
MW9	No	X	X (resurvey)	X	X	Recommend Annual PAH analysis
MW10	No	X	X (resurvey)	X	X	Recommend Annual PAH analysis
MW11	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis
MW12	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis
MW13	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis
MW14	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis
MW15	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis
MW16	No	--	X (install/survey)	X	X	Recommend Annual PAH analysis

NMOCD - New Mexico Oil Conservation Division

PAH - Polynuclear Aromatic Hydrocarbons

PSH - Phase Separated Hydrocarbons

APPENDICES

Appendix I: Laboratory Analytical Reports - Groundwater

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#: 159903

Project ID: 2002-10250

Sample Name: MW-5

Sample Matrix: water

Date Received: 09/24/2004

Time: 13:25

Date Sampled: 09/22/2004

Time: 11:00

Report Date: 10/05/04

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
A/BN Extraction-PAH	---	---	---	---	09/27/04	3520	---	---	---	---	---
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/27/04	8015 mod.	---	9.9	85	90.9	83.1
TPH by GC (as diesel-ext)	---	---	---	---	09/27/04	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/27/04	8015 mod.	---	2.7	97.2	91.4	95
Extractable organics-PAH	---	---	---	---	10/05/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/28/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/28/04	8260b	---	1	95.8	96.2	93.4
Ethylbenzene	<1	µg/L	1	<1	09/28/04	8260b	---	3.9	105.2	107	105.2
m,p-Xylenes	<2	µg/L	2	<2	09/28/04	8260b	---	3.4	105.1	109.1	106.1
o-Xylene	<1	µg/L	1	<1	09/28/04	8260b	---	3.6	99.8	113.6	100.1
Toluene	<1	µg/L	1	<1	09/28/04	8260b	---	2.1	107.9	113.5	102.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	10	40.9	95.1	26.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	8.5	41	95.6	26.4
Anthracene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	5.3	46.5	95.1	34.1
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	1.5	48.4	94.4	42.3
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0	48.5	94.4	41.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0.1	51.4	98	44.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0.7	49.2	88.7	42
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0.1	50.8	89.3	43.4
Chrysene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	2.2	48.3	92.3	42.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0.6	50	90.7	43

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

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: Iain Olness

Project ID: 2002-10250
Sample Name: MW-5

Report#/Lab ID#: 159903
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Fluoranthene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	3	47.9	94.5	39.6
Fluorene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	9.6	42.9	94.6	28.6
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	0.3	48.9	90.8	42.1
Naphthalene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	5	37.2	96.9	24.1
Phenanthrene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	7.3	46.8	93.1	33.8
Pyrene	<0.05	µg/L	0.05	<0.05	10/05/04	610 & 8270c	---	3.5	48.2	91.7	39

Client: Environmental Plus, Inc.	Project ID: 2002-10250	Report#/Lab ID#: 159903
Attn: Iain Olness	Sample Name: MW-5	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	39.6	39-110	---
Nitrobenzene-d5	610 & 8270c	37.1	12-110	---
Terphenyl-d14	610 & 8270c	35.3	25-110	---
1-Chlorooctane	8015 mod.	74.5	30-133	---
p-Terphenyl	8015 mod.	76.3	41-150	---
1,2-Dichloroethane-d4	8260b	83.9	74-124	---
Toluene-d8	8260b	101	89-115	---

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

Chain of Custody Form

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

T. 59 J

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#: 161942 Report Date: 12/02/04
Project ID: 2002-10250
Sample Name: CSC111904MW6
Sample Matrix: water
Date Received: 11/23/2004 Time: 11:15
Date Sampled: 11/19/2004 Time: 12:50

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	635	µg/L	10	<10	12/01/04	8260b	---	2.4	77.9	99.4	97.5
Ethylbenzene	<1	µg/L	1	<1	11/24/04	8260b	J	5	95	91.9	93.9
m,p-Xylenes	9.81	µg/L	2	<2	11/24/04	8260b	---	4.9	90.6	90.7	91.4
o-Xylene	<1	µg/L	1	<1	11/24/04	8260b	---	2.9	99.3	96	96.3
Toluene	1.05	µg/L	1	<1	11/24/04	8260b	---	3.1	93.1	92.3	87.6

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.

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.

QUALITY ASSURANCE DATA 1

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC111904MW6	Report#/Lab ID#: 161942 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.3	74-124	---
Toluene-d8	8260b	91.9	89-115	---

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

Report #/Lab ID#: 161942 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2002-10250
Sample Name: CSC111904MW6

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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#: 161943 **Report Date:** 12/02/04
Project ID: 2002-10250
Sample Name: CSC111904MW8
Sample Matrix: water
Date Received: 11/23/2004 **Time:** 11:15
Date Sampled: 11/19/2004 **Time:** 09:36

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
Volatiles organics-8260b/BTEX	---		---		11/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	1440	µg/L	10	<10	11/29/04	8260b	---	2.4	77.9	99.4	97.5
Ethylbenzene	29.8	µg/L	10	<10	11/29/04	8260b	---	5	95	91.9	93.9
m,p-Xylenes	62.6	µg/L	20	<20	11/29/04	8260b	---	4.9	90.6	90.7	91.4
o-Xylene	15.6	µg/L	10	<10	11/29/04	8260b	---	2.9	99.3	96	96.3
Toluene	141	µg/L	10	<10	11/29/04	8260b	---	3.1	93.1	92.3	87.6

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Respectfully Submitted,

DW

Date 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: Iain Olness	Project ID: 2002-10250 Sample Name: CSC111904MW8	Report#/Lab ID#: 161943 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.3	74-124	---
Toluene-d8	8260b	93.3	89-115	---

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#: 161944 **Report Date:** 12/02/04
Project ID: 2002-10250
Sample Name: CSC111904MW9
Sample Matrix: water
Date Received: 11/23/2004 **Time:** 11:15
Date Sampled: 11/19/2004 **Time:** 11:12

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
Volatiles organics-8260b/BTEX	---		---		11/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	42	µg/L	1	<1	11/24/04	8260b	---	2.4	77.9	99.4	97.5
Ethylbenzene	<1	µg/L	1	<1	11/24/04	8260b	---	5	95	91.9	93.9
m,p-Xylenes	2.33	µg/L	2	<2	11/24/04	8260b	---	4.9	90.6	90.7	91.4
o-Xylene	<1	µg/L	1	<1	11/24/04	8260b	---	2.9	99.3	96	96.3
Toluene	<1	µg/L	1	<1	11/24/04	8260b	---	3.1	93.1	92.3	87.6

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.

Respectfully Submitted,

D. Wagner

Dale Wagner

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09 N... Dr., ... TX
(512) 385-5886 FAX (512) 385-7411

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC111904MW9	Report#/Lab ID#: 161944 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.2	74-124	---
Toluene-d8	8260b	89.5	89-115	---

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Emice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 161945 **Report Date:** 12/02/04
Project ID: 2002-10250
Sample Name: CSC111904MW10
Sample Matrix: water
Date Received: 11/23/2004 **Time:** 11:15
Date Sampled: 11/19/2004 **Time:** 10:18

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
Volatiles organics-8260b/BTEX	---		---		11/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	7.25	µg/L	1	<1	11/24/04	8260b	---	2.4	77.9	99.4	97.5
Ethylbenzene	<1	µg/L	1	<1	11/24/04	8260b	J	5	95	91.9	93.9
m,p-Xylenes	36.7	µg/L	2	<2	11/24/04	8260b	---	4.9	90.6	90.7	91.4
o-Xylene	<1	µg/L	1	<1	11/24/04	8260b	---	2.9	99.3	96	96.3
Toluene	1.26	µg/L	1	<1	11/24/04	8260b	---	3.1	93.1	92.3	87.6

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Respectfully Submitted,



Dale Wagner

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Dr., [redacted] as C [redacted] TX [redacted] 8
[redacted] (512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC111904MW10	Report#/Lab ID#: 161945 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.1	74-124	---
Toluene-d8	8260b	92.7	89-115	---

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

Report #/Lab ID#: 161945 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: CSC111904MW10

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

Analysys Inc.

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

Chain of Custody Form

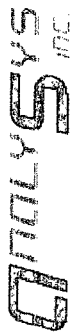
2209 N. Padre Island Dr., Corpus Christi, TX 78408

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 C. S. Cayler															
Project Reference 2002-10250															
EPI Sampler Name Manuel Gonzales															

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	MATRIX						PRESERV.		SAMPLING		TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE								TIME
161942	1 CSC111904MW6	G 3	X						X	X										
161943	2 CSC111904MW8	G 3	X						X	X										
161944	3 CSC111904MW9	G 3	X						X	X										
161945	4 CSC111904MW10	G 3	X						X	X										
5																				
6																				
7																				
8																				
9																				
10																				

Sample Relinquished: <i>Iain Olness</i>	Date 11/22/04	Received By:	E-mail results to: iolness@hotmail.com REMARKS:
	Time 1630		
Relinquished by:	Date 11/23/04	Received By: (lab staff)	
	Time 1115	<i>AS1</i>	
Delivered by:	Sample Cool & Intact Yes No		Checked By:

7:59°C



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

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#: 165668 **Report Date:** 04/18/05
Project ID: 2002-10250
Sample Name: CSC3-31-05MW5
Sample Matrix: water
Date Received: 04/06/2005 **Time:** 10:00
Date Sampled: 03/31/2005 **Time:** 15:30

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
Volatile organics-8260b/BTEX	---		---		04/13/05	8260b(5030/5035)	---	---	---	---	---
Benzene	31.40	µg/L	100	<100	04/13/05	8260b	---	2.6	94.2	98.9	100.7
Ethylbenzene	1.42	µg/L	1	<1	04/13/05	8260b	---	4.2	103.6	103.4	97
m,p-Xylenes	7.63	µg/L	2	<2	04/13/05	8260b	---	5	103.4	103.2	96.5
o-Xylene	125	µg/L	1	<1	04/13/05	8260b	---	11.1	110.3	108.6	99.9
Toluene	49.8	µg/L	1	<1	04/13/05	8260b	---	3.5	106.5	102.9	106.1

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC3-31-05MW5	Report#/Lab ID#: 165668 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.4	74-124	---
Toluene-d8	8260b	107	89-115	---

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



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(512) 385-5886 • FAX (512) 385-7411

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#: 165669 **Report Date:** 04/18/05
Project ID: 2002-10250
Sample Name: CSC3-31-05MW6
Sample Matrix: water
Date Received: 04/06/2005 **Time:** 10:00
Date Sampled: 03/31/2005 **Time:** 16:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		04/12/05	8260b(5030/5035)	---	---	---	---	---
Benzene	702	µg/L	10	<10	04/12/05	8260b	---	0.4	93.3	103	94.8
Ethylbenzene	<1	µg/L	1	<1	04/12/05	8260b	---	0.3	99.2	107.5	96.8
m,p-Xylenes	10.7	µg/L	2	<2	04/12/05	8260b	---	0.8	98.6	106.3	97.4
o-Xylene	<1	µg/L	1	<1	04/12/05	8260b	---	0.5	102.4	112	100.3
Toluene	<1	µg/L	1	<1	04/12/05	8260b	J	0.4	104.5	117.5	98.8

QUALITY ASSURANCE DATA 1

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Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC3-31-05MW6	Report#/Lab ID#: 165669 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	110	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165669	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10250		
Sample Name: CSC3-31-05MW/6		

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

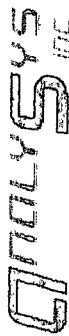
J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 FAX (512) 385-7411

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#: 165670 **Report Date:** 04/18/05
Project ID: 2002-10250
Sample Name: CSC3-31-05MW8
Sample Matrix: water
Date Received: 04/06/2005 **Time:** 10:00
Date Sampled: 03/31/2005 **Time:** 16:30

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
Volatiles organics-8260b/BTEX	---		---		04/12/05	8260b(5030/5035)	---	---	---
Benzene	915	µg/L	10	<10	04/12/05	8260b	---	0.4	93.3 103 94.8
Ethylbenzene	4.08	µg/L	1	<1	04/12/05	8260b	---	0.3	99.2 107.5 96.8
m,p-Xylenes	25.9	µg/L	2	<2	04/12/05	8260b	---	0.8	98.6 106.3 97.4
o-Xylene	5.78	µg/L	1	<1	04/12/05	8260b	---	0.5	102.4 112 100.3
Toluene	59.6	µg/L	1	<1	04/12/05	8260b	---	0.4	104.5 117.5 98.8

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2002-10250 Sample Name: CSC3-31-05MW8	Report#/Lab ID#: 165670 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	108	74-124	---
Toluene-d8	8260b	102	89-115	---

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



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Emice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 165671 **Report Date:** 04/18/05
Project ID: 2002-10250
Sample Name: CSC3-31-05MW9
Sample Matrix: water
Date Received: 04/06/2005 **Time:** 10:00
Date Sampled: 03/31/2005 **Time:** 17:00

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
Volatiles organics-8260b/BTEX	---		---		04/12/05	8260b(5030/5035)	---	---	---	---	---
Benzene	23.7	µg/L	1	<1	04/12/05	8260b	---	0.4	93.3	103	94.8
Ethylbenzene	<1	µg/L	1	<1	04/12/05	8260b	J	0.3	99.2	107.5	96.8
m,p-Xylenes	3.02	µg/L	2	<2	04/12/05	8260b	---	0.8	98.6	106.3	97.4
o-Xylene	<1	µg/L	1	<1	04/12/05	8260b	---	0.5	102.4	112	100.3
Toluene	<1	µg/L	1	<1	04/12/05	8260b	---	0.4	104.5	117.5	98.8

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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.



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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: CSC3-31-05MW9

Report#/Lab ID#: 165671
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.9	74-124	---
Toluene-d8	8260b	109	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 165671	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10250		
Sample Name: CSC3-31-05MW9		

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euless, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 165672 **Report Date:** 04/18/05
Project ID: 2002-10250
Sample Name: CSC3-31-05MW10
Sample Matrix: water
Date Received: 04/06/2005 **Time:** 10:00
Date Sampled: 03/31/2005 **Time:** 17:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		04/12/05	8260b(5030/5035)	---	---	---	---	---
Benzene	1.28	µg/L	1	<1	04/12/05	8260b	---	0.4	93.3	103	94.8
Ethylbenzene	<1	µg/L	1	<1	04/12/05	8260b	---	0.3	99.2	107.5	96.8
m,p-Xylenes	24.7	µg/L	2	<2	04/12/05	8260b	---	0.8	98.6	106.3	97.4
o-Xylene	<1	µg/L	1	<1	04/12/05	8260b	---	0.5	102.4	112	100.3
Toluene	<1	µg/L	1	<1	04/12/05	8260b	---	0.4	104.5	117.5	98.8

QUALITY ASSURANCE DATA 1

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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.



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: CSC3-31-05MW10

Report#/Lab ID#: 165672
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.7	74-124	---
Toluene-d8	8260b	108	89-115	---

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

12169

AnalySys Inc.

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

Chain of Custody Form

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

Company Name Environmental Plus, Inc.		Billing		Analysis Request											
EPI Project Manager Iain Olness		PLAINS ALL AMERICAN PIPELINE, L.P.													
Mailing Address P.O. BOX 1558		Attn: ENV Accounts Payable PO Box 4648, Houston TX 77210-4648													
City, State, Zip Eunice New Mexico 88231															
EPI Phone#/Fax# 505-394-3481 / 505-394-2601															
Client Company Plains All American															
Facility Name C. S. Cayler															
Project Reference 2002-10250															
EPI Sampler Name Cody Fisher															

LAB I.D.	SAMPLE I.D.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>	PAH	
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL											OTHER
1656681	CSC3-31-05MW5	G 3	X							X		3/31/05	3:30	X							
1656692	CSC3-31-05MW6	G 3	X							X		3/31/05	4:00	X							
1656703	CSC3-31-05MW8	G 3	X							X		3/31/05	4:30	X							
1656714	CSC3-31-05MW9	G 3	X							X		3/31/05	5:00	X							
1656725	CSC3-31-05MW10	G 4	X							X		3/31/05	5:30	X							
6																					
7																					
8																					
9																					
10																					

Sampler Relinquished:		Date: 3-05		Received By:	
Relinquished by:		Time: 3:00		REMARKS: CoC Requested	
Delivered by:		Date: 3-05		Received By: (lab staff)	
		Time: 10:00		Sample Cool & Intact	
				Yes No	
				Checked By:	

75.2°C

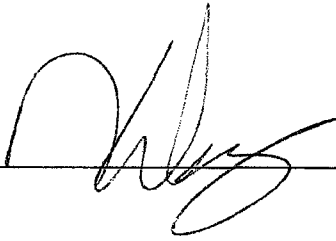
Sample Analysis Case Narrative

Client: Environmetal Plus, Inc. Project ID: 2002-10250

Attn: Iain Olness

for Sample #'s: 167324 thru 167328

Analyzed by AnalySys, Inc.

Final Review Date: 6/8/2005 By:  (D. Wagner)

Case Narrative:

The spike recoveries and/or precisions of several PAH compounds for the analytical batch that contained samples 167324 thru 167328 were outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for each compound indicating the analytical method was operating correctly and in control.

A Continuing Calibration Blank (CCB1) was above the Reporting Quantitation Limit (RQL) for Naphthalene in the analytical batch that contained samples 167325 and 167326. However, there was no Naphthalene detected in either of the above referenced samples indicating this potential for "high" bias had no impact on data usability.



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(512) 385-5886 • FAX (512) 385-7411

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#: 167324 **Report Date:** 06/02/05

Project ID: 2002-10250

Sample Name: MW-5

Sample Matrix: water

Date Received: 05/19/2005 **Time:** 07:30

Date Sampled: 05/12/2005 **Time:** 15:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

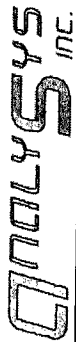
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	05/19/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	05/26/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	4240	µg/L	1	<1	05/20/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	313	µg/L	1	<1	05/20/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	<2	µg/L	2	<2	05/20/05	8260b	---	3.5	112.5	113.4	106.3
MTBE	<5	µg/L	5	<5	05/20/05	8260b	---	7.3	100.9	95.5	129.7
o-Xylene	184	µg/L	1	<1	05/20/05	8260b	---	2.2	110.5	110	103.6
Toluene	8.93	µg/L	1	<1	05/20/05	8260b	---	0.8	94.4	90.6	90.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	30.8	38.4	95.9	42.7
Acenaphthylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	34	38.2	99.7	43.6
Anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11.7	41.8	96.9	47.7
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	5.2	28.6	86.7	56.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.7	15.1	89.8	53.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.2	17.1	86.3	59.2
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	30.6	13.9	105	68.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	18	20	106.6	70
Chrysene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.8	43.5	107.8	85.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	21.2	13.6	96.6	79.3
Fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	5.7	50.1	107.7	57.5
Fluorene	0.439	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	29.4	39.1	100.4	42.7

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Dale Wagner

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3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

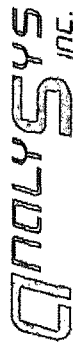
Project ID: 2002-10250
Sample Name: MW-5

Report#/Lab ID#: 167324
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	34	13	103.3	66.5
Naphthalene	17.5	µg/L	0.5	0.63	05/26/05	610 & 8270c	B,P	40.1	33.7	106.7	40.3
Phenanthrene	0.245	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11	42.8	88.7	48
Pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	4.6	53.2	103.7	65.9



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-5

Report#/Lab ID#: 167324
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	59	30-110	---
	610 & 8270c	49.1	12-110	---
	610 & 8270c	46	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	106	74-124	---
	8260b	106	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167324 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-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 TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[g,h,i]perylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Indeno[1,2,3-cd]pyrene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Naphthalene	B	One or more method/calib. or Prep. blanks associated with the analysis were found to have analyte above the RQL. However, the sample result is more than five times the conc. of the blank and impact on sample quantitation is negligible.
Naphthalene	B	

Notes:



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(512) 385-5886 • FAX (512) 385-7411

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#: 167325 **Report Date:** 06/02/05
Project ID: 2002-10250
Sample Name: MW-6
Sample Matrix: water
Date Received: 05/19/2005 **Time:** 07:30
Date Sampled: 05/12/2005 **Time:** 13:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

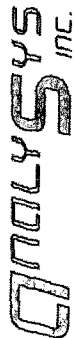
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	05/19/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	05/26/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	468	µg/L	10	<10	05/23/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	<1	µg/L	1	<1	05/20/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	8.23	µg/L	2	<2	05/20/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/20/05	8260b	---	2.2	110.5	110	103.6
Toluene	1.39	µg/L	1	<1	05/20/05	8260b	---	0.8	94.4	90.6	90.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	30.8	38.4	95.9	42.7
Acenaphthylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	34	38.2	99.7	43.6
Anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11.7	41.8	96.9	47.7
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	5.2	28.6	86.7	56.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.7	15.1	89.8	53.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.2	17.1	86.3	59.2
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	30.6	13.9	105	68.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	18	20	106.6	70
Chrysene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.8	43.5	107.8	85.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	21.2	13.6	96.6	79.3
Fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	5.7	50.1	107.7	57.5
Fluorene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	29.4	39.1	100.4	42.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	34	13	103.3	66.5

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

Respectfully Submitted,

Dale Wagner

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.



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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6

Report#/Lab ID#: 167325
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Naphthalene	<0.05	µg/L	0.05	0.063	05/26/05	610 & 8270c	B.P	40.1	33.7	106.7	40.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11	42.8	88.7	48
Pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	4.6	53.2	103.7	65.9



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6

Report#/Lab ID#: 167325
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	42.5	30-110	---
	610 & 8270c	49.2	12-110	---
	610 & 8270c	40.6	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	111	74-124	---
	8260b	107	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167325 **Matrix:** water
Client: Environmental Plus, Inc.
Project ID: 2002-10250
Sample Name: MW-6
Attn: Iain Olness

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.

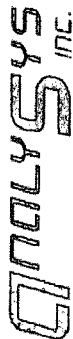
J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzol[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzol[g,h,i]perylene	P	
Benzol[g,h,i]perylene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Indeno[1,2,3-cd]pyrene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Naphthalene	B	One or more method/calib. blanks associated with the analysis were found to have analyte at a level that could impact sample results near the RQL.

Notes:



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(512) 385-5886 • FAX (512) 385-7411

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#: 167326 **Report Date:** 06/02/05

Project ID: 2002-10250

Sample Name: MW-8

Sample Matrix: water

Date Received: 05/19/2005 **Time:** 07:30

Date Sampled: 05/12/2005 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

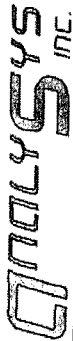
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	05/19/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	05/26/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	05/20/05	8260b(5030/5035)	---	---	---	---	---
Benzene	737	µg/L	10	<10	05/23/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	5.88	µg/L	1	<1	05/20/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	23.1	µg/L	2	<2	05/20/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	8.37	µg/L	1	<1	05/20/05	8260b	---	2.2	110.5	110	103.6
Toluene	87.8	µg/L	10	<10	05/23/05	8260b	---	0.8	94.4	90.6	90.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	30.8	38.4	95.9	42.7
Acenaphthylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	34	38.2	99.7	43.6
Anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11.7	41.8	96.9	47.7
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	5.2	28.6	86.7	56.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.7	15.1	89.8	53.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.2	17.1	86.3	59.2
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	30.6	13.9	105	68.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	18	20	106.6	70
Chrysene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	14.8	43.5	107.8	85.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	P	21.2	13.6	96.6	79.3
Fluoranthene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	5.7	50.1	107.7	57.5
Fluorene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	29.4	39.1	100.4	42.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	S,M,P	34	13	103.3	66.5

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-8

Report#/Lab ID#: 167326
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Naphthalene	<0.05	µg/L	0.05	0.063	05/26/05	610 & 8270c	B,P	40.1	33.7	106.7	40.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	11	42.8	88.7	48
Pyrene	<0.05	µg/L	0.05	<0.05	05/26/05	610 & 8270c	---	4.6	53.2	103.7	65.9



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Project ID: 2002-10250
Sample Name: MW-8

Report#/Lab ID#: 167326
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	40.9	30-110	---
Nitrobenzene-d5	610 & 8270c	43	12-110	---
Terphenyl-d14	610 & 8270c	52.1	25-110	---
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	106	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167326 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-8

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[e,h,i]perylene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Indeno[1,2,3-cd]pyrene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Naphthalene	B	One or more method/calib. blanks associated with the analysis were found to have analyte at a level that could impact sample results near the RQL.

Notes:



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Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 167327 **Report Date:** 06/02/05
Project ID: 2002-10250
Sample Name: MW-9
Sample Matrix: water
Date Received: 05/19/2005 **Time:** 07:30
Date Sampled: 05/12/2005 **Time:** 13:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

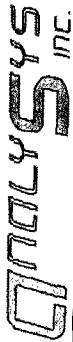
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	05/19/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	06/02/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	05/23/05	8260b(5030/5035)	---	---	---	---	---
Benzene	11.5	µg/L	1	<1	05/23/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	<1	µg/L	1	<1	05/23/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	2.01	µg/L	2	<2	05/23/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/23/05	8260b	---	2.2	110.5	110	103.6
Toluene	<1	µg/L	1	<1	05/23/05	8260b	---	0.8	94.4	90.6	90.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	30.8	38.4	95.9	42.7
Acenaphthylene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	34	38.2	99.7	43.6
Anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	11.7	41.8	96.9	47.7
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	5.2	28.6	86.7	56.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.7	15.1	89.8	53.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.2	17.1	86.3	59.2
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	S,M,P	30.6	13.9	105	68.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	18	20	106.6	70
Chrysene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.8	43.5	107.8	85.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	21.2	13.6	96.6	79.3
Fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	5.7	50.1	107.7	57.5
Fluorene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	29.4	39.1	100.4	42.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	S,M,P	34	13	103.3	66.5

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-9

Report#/Lab ID#: 167327
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Naphthalene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	J,P	40.1	33.7	106.7	40.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	J	11	42.8	88.7	48
Pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	4.6	53.2	103.7	65.9



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Project ID: 2002-10250
Sample Name: MW-9

Report#/Lab ID#: 167327
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	46.4	30-110	---
Nitrobenzene-d5	610 & 8270c	44.3	12-110	---
Terphenyl-d14	610 & 8270c	37.5	25-110	---
1,2-Dichloroethane-d4	8260b	103	74-124	---
Toluene-d8	8260b	112	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167327 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-9

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 inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[g,h,i]perylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Indeno[1,2,3-cd]pyrene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Naphthalene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.

Notes:



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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euless, NM 88231

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

Report#/Lab ID#: 167328 **Report Date:** 06/02/05

Project ID: 2002-10250

Sample Name: MW-10

Sample Matrix: water

Date Received: 05/19/2005 **Time:** 07:30

Date Sampled: 05/12/2005 **Time:** 14:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

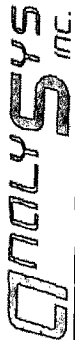
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	05/19/05	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	06/02/05	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	05/23/05	8260b(5030/5035)	---	---	---	---	---
Benzene	3.16	µg/L	1	<1	05/23/05	8260b	---	0.9	84.3	85.1	81.4
Ethylbenzene	<1	µg/L	1	<1	05/23/05	8260b	---	2.5	110.9	113.3	107.6
m,p-Xylenes	7.93	µg/L	2	<2	05/23/05	8260b	---	3.5	112.5	113.4	106.3
o-Xylene	<1	µg/L	1	<1	05/23/05	8260b	---	2.2	110.5	110	103.6
Toluene	<1	µg/L	1	<1	05/23/05	8260b	J	0.8	94.4	90.6	90.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	30.8	38.4	95.9	42.7
Acenaphthylene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	34	38.2	99.7	43.6
Anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	11.7	41.8	96.9	47.7
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	5.2	28.6	86.7	56.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.7	15.1	89.8	53.6
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.2	17.1	86.3	59.2
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	S,M,P	30.6	13.9	105	68.1
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	18	20	106.6	70
Chrysene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	14.8	43.5	107.8	85.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	P	21.2	13.6	96.6	79.3
Fluoranthene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	5.7	50.1	107.7	57.5
Fluorene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	29.4	39.1	100.4	42.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	S,M,P	34	13	103.3	66.5

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

Respectfully Submitted,

Dale Wagner

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.



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Client: Environmental Plus, Inc.
Attn: Iain Olness

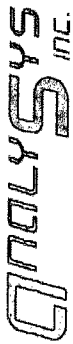
Project ID: 2002-10250
Sample Name: MW-10

Report#/Lab ID#: 167328
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Naphthalene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	J.P	40.1	33.7	106.7	40.3
Phenanthrene	0.068	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	11	42.8	88.7	48
Pyrene	<0.05	µg/L	0.05	<0.05	06/02/05	610 & 8270c	---	4.6	53.2	103.7	65.9



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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-10

Report#/Lab ID#: 167328
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	54.9	30-110	---
Nitrobenzene-d5	610 & 8270c	45.8	12-110	---
Terphenyl-d14	610 & 8270c	57.8	25-110	---
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	110	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 167328 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-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:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	J	See J-flag discussion above.

Notes:

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. Attn: ENV Accounts Payable PO Box 4648, Houston TX 77210-4648		PRESERV.		SAMPLING		BTEX 8021B		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH			
Mailing Address P.O. BOX 1558				MATRIX		OTHER:		ACID/BASE		ICE/COOL		OTHER		DATE		TIME									
City, State, Zip Eunice New Mexico 88231				GROUND WATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE													
EPI Phone#/Fax# 505-394-3481 / 505-394-2601				# CONTAINERS		(G) RAB OR (C) OMP.		G 6		X		G 6		X		G 6		X							
Client Company Plains All American																									
Facility Name C. S. Cayler																									
Project Reference 2002-10250																									
EPI Sampler Name John Robinson																									
LAB I.D.		SAMPLE I.D.																							
167324 1 MW-5																									
167325 2 MW-6																									
167326 3 MW-8																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Sampler Relinquished: John Robinson Date: 5-18-05 Received By: John Robinson 5/19/05 9:30 AM

Relinquished by: John Robinson Time: 4:00

Received By: (lab staff) Date: _____ Time: _____

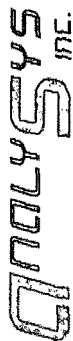
Delivered by: _____ Sample Cool & Intact Yes _____ No _____ Checked By: _____

E-mail results to: iolness@hotmail.com

REMARKS:

12580

12



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

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Eunice,

NM 88231

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

Report#/Lab ID#: 170206 Report Date: 09/01/05

Project ID: 2002-10250

Sample Name: MW-5

Sample Matrix: water

Date Received: 08/25/2005 Time: 10:00

Date Sampled: 08/22/2005 Time: 07:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/31/05	8260b(5030/5035)	---	---	---	---	---
Benzene	20300	µg/L	500	<500	08/31/05	8260b	S,M	8.6	108	106.6	107.7
Ethylbenzene	1420	µg/L	50	<50	08/31/05	8260b	---	2.2	117.5	115.7	115.9
m,p-Xylenes	377	µg/L	100	<100	08/31/05	8260b	---	2.9	116.9	113.6	115.1
o-Xylene	759	µg/L	50	<50	08/31/05	8260b	---	1.5	115.4	111.9	113
Toluene	2240	µg/L	50	<50	08/31/05	8260b	---	7.1	110.1	105.6	110.6

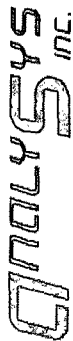
QUALITY ASSURANCE DATA 1

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 & SI =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.



3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-5

Report#/Lab ID#: 170206
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	112	70-130	---
Toluene-d8	8260b	111	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170206	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10250		
Sample Name: MW-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).

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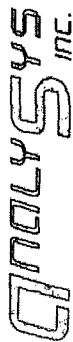
J flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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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#: 170207 **Report Date:** 09/01/05

Project ID: 2002-10250

Sample Name: MW-6

Sample Matrix: water

Date Received: 08/25/2005 **Time:** 10:00

Date Sampled: 08/22/2005 **Time:** 08:00

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
Volatiles organics-8260b/BTEX	---		---		08/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	158	µg/L	1	<1	08/30/05	8260b	S,M	8.6	108	106.6	107.7
Ethylbenzene	1.3	µg/L	1	<1	08/30/05	8260b	---	2.2	117.5	115.7	115.9
m,p-Xylenes	4.06	µg/L	2	<2	08/30/05	8260b	---	2.9	116.9	113.6	115.1
o-Xylene	<1	µg/L	1	<1	08/30/05	8260b	J	1.5	115.4	111.9	113
Toluene	<1	µg/L	1	<1	08/30/05	8260b	J	7.1	110.1	105.6	110.6

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Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6

Report#/Lab ID#: 170207
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	114	70-130	---
Toluene-d8	8260b	110	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170207 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-6

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

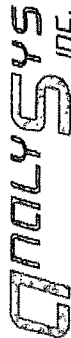
J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:



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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Euinee, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report# / Lab ID#: 170208 **Report Date:** 09/01/05
Project ID: 2002-10250
Sample Name: MW-9
Sample Matrix: water
Date Received: 08/25/2005 **Time:** 10:00
Date Sampled: 08/22/2005 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

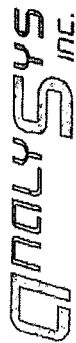
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/31/05	8260b(5030/5035)	---	---	---	---	---
Benzene	10.8	µg/L	1	<1	08/31/05	8260b	S,M	8.6	108	106.6	107.7
Ethylbenzene	<1	µg/L	1	<1	08/31/05	8260b	J	2.2	117.5	115.7	115.9
m,p-Xylenes	7.07	µg/L	2	<2	08/31/05	8260b	---	2.9	116.9	113.6	115.1
o-Xylene	<1	µg/L	1	<1	08/31/05	8260b	---	1.5	115.4	111.9	113
Toluene	<1	µg/L	1	<1	08/31/05	8260b	---	7.1	110.1	105.6	110.6

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.

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.



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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-9

Report#/Lab ID#: 170208
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	119	70-130	---
Toluene-d8	8260b	109	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170208	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2002-10250		
Sample Name: MW-9		

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.

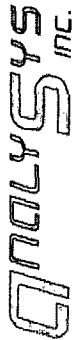
J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Ethylbenzene	J	See J-flag discussion above.

Notes:



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

Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Eunice,

NM 88231

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

Report#/Lab ID#: 170209 **Report Date:** 09/01/05

Project ID: 2002-10250

Sample Name: MW-10

Sample Matrix: water

Date Received: 08/25/2005 **Time:** 10:00

Date Sampled: 08/22/2005 **Time:** 11:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	2.76	µg/L	1	<1	08/30/05	8260b	S,M	8.6	108	106.6	107.7
Ethylbenzene	<1	µg/L	1	<1	08/30/05	8260b	---	2.2	117.5	115.7	115.9
m,p-Xylenes	<2	µg/L	2	<2	08/30/05	8260b	J	2.9	116.9	113.6	115.1
o-Xylene	<1	µg/L	1	<1	08/30/05	8260b	---	1.5	115.4	111.9	113
Toluene	<1	µg/L	1	<1	08/30/05	8260b	---	7.1	110.1	105.6	110.6

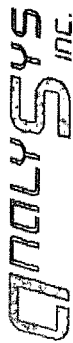
QUALITY ASSURANCE DATA 1

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Respectfully Submitted,

Dale Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-10

Report#/Lab ID#: 170209
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	120	70-130	---
Toluene-d8	8260b	109	80-127	---

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

Exceptions Report:

Report #/Lab ID#: 170209 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2002-10250
Sample Name: MW-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:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

AnalySys Inc.

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

Chain of Custody Form

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

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 C. S. Cayler													
Project Reference 2002-10250													
EPI Sampler Name George Blackburn													

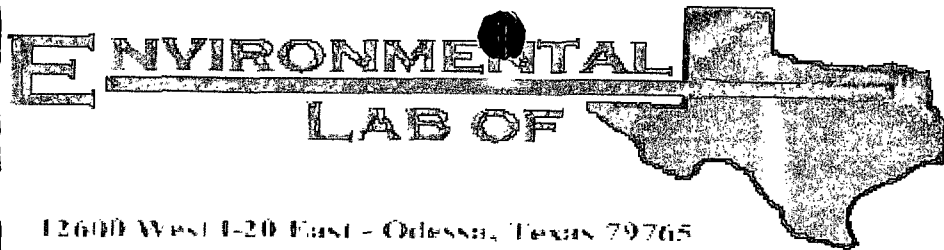
LAB I.D.	SAMPLE I.D.	MATRIX				PRESERV.				SAMPLING				TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>	PAH	
		WASTEWATER	GROUND WATER	# CONTAINERS	(G)RAB OR (C)OMP.	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE								TIME
1	MW-5 170206		X	4	G																
2	MW-6 170207		X	4	G																
3	MW-9 170208		X	4	G																
4	MW-10 170209		X	4	G																
5																					
6																					
7																					
8																					
9																					
10																					

Samples Relinquished:		Received By:	
Date: 8/24/05		Date: 8/24/05	
Time: 10:36		Time: 10:36	
Relinquished by: <i>[Signature]</i>		Received By: (lab staff) <i>[Signature]</i>	
Delivered by:		Sample Cool & Intact	
		Yes No	
		Checked By: <i>[Signature]</i>	

E-mail results to: iolness@envplus.com & cjeynolds@paalp.com

REMARKS:

Appendix II: Laboratory Analytical Reports - Soil



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: C.S. Cayler Gathering

Project Number: 2002-10250

Location: UL-B Section 6 T17S R37E

Lab Order Number: 4F02003

Report Date: 06/04/04

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2 (13-15)	4F02003-01	Soil	05/27/04 10:10	06/02/04 13:30
MW-2 (43-45)	4F02003-02	Soil	05/27/04 10:49	06/02/04 13:30
MW-2 (73-75)	4F02003-03	Soil	05/27/04 11:50	06/02/04 13:30

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (13-15) (4F02003-01) Soil									
Benzene	5.35	0.0250	mg/kg dry	25	EF40403	06/02/04	06/03/04	EPA 8021B	
Toluene	29.1	0.0250	"	"	"	"	"	"	
Ethylbenzene	7.99	0.0250	"	"	"	"	"	"	
Xylene (p/m)	25.1	0.0250	"	"	"	"	"	"	
Xylene (o)	10.6	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		1270 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		84.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1430	10.0	mg/kg dry	1	EF40207	06/02/04	06/02/04	EPA 8015M	
Diesel Range Organics >C12-C35	2260	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	3690	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-130		"	"	"	"	
MW-2 (43-45) (4F02003-02) Soil									
Benzene	0.449	0.0250	mg/kg dry	25	EF40403	06/02/04	06/03/04	EPA 8021B	
Toluene	6.42	0.0250	"	"	"	"	"	"	
Ethylbenzene	6.14	0.0250	"	"	"	"	"	"	
Xylene (p/m)	13.4	0.0250	"	"	"	"	"	"	
Xylene (o)	5.73	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		287 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		82.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1180	10.0	mg/kg dry	1	EF40207	06/02/04	06/02/04	EPA 8015M	
Diesel Range Organics >C12-C35	3290	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	4470	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-130		"	"	"	"	

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.

C. D. Keene

Quality Assurance Review

Page 2 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (73-75) (4F02003-03) Soil									
Benzene	57.6	0.200	mg/kg dry	200	EF40403	06/02/04	06/03/04	EPA 8021B	
Toluene	330	0.200	"	"	"	"	"	"	
Ethylbenzene	146	0.200	"	"	"	"	"	"	
Xylene (p/m)	238	0.200	"	"	"	"	"	"	
Xylene (o)	81.6	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		1170 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		83.3 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	15600	50.0	mg/kg dry	5	EF40207	06/02/04	06/02/04	EPA 8015M	
Diesel Range Organics >C12-C35	22500	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	38100	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		35.8 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		67.6 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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Ally D. Kene

Quality Assurance Review

Page 3 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
06/04/04 17:39

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (13-15) (4F02003-01) Soil									
% Solids	91.0		%	1	EF40305	06/02/04	06/02/04	% calculation	
MW-2 (43-45) (4F02003-02) Soil									
% Solids	93.0		%	1	EF40305	06/02/04	06/02/04	% calculation	
MW-2 (73-75) (4F02003-03) Soil									
% Solids	91.0		%	1	EF40305	06/02/04	06/02/04	% calculation	

Environmental Lab of Texas

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Cayler D. Kene

Quality Assurance Review

Page 4 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF40207 - Solvent Extraction (GC)

Blank (EF40207-BLK1)

Prepared & Analyzed: 06/02/04

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	37.1		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	35.8		"	50.0		71.6	70-130			

LCS (EF40207-BS1)

Prepared & Analyzed: 06/02/04

Gasoline Range Organics C6-C12	425	10.0	mg/kg wet	500		85.0	75-125			
Diesel Range Organics >C12-C35	442	10.0	"	500		88.4	75-125			
Total Hydrocarbon C6-C35	867	10.0	"	1000		86.7	75-125			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	70-130			
Surrogate: 1-Chlorooctadecane	37.5		"	50.0		75.0	70-130			

LCS Dup (EF40207-BSD1)

Prepared: 06/02/04 Analyzed: 06/03/04

Gasoline Range Organics C6-C12	407	10.0	mg/kg wet	500		81.4	75-125	4.33	20	
Diesel Range Organics >C12-C35	515	10.0	"	500		103	75-125	15.3	20	
Total Hydrocarbon C6-C35	922	10.0	"	1000		92.2	75-125	6.15	20	
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	70-130			
Surrogate: 1-Chlorooctadecane	38.2		"	50.0		76.4	70-130			

Calibration Check (EF40207-CCV1)

Prepared & Analyzed: 06/02/04

Gasoline Range Organics C6-C12	418		mg/kg	500		83.6	80-120			
Diesel Range Organics >C12-C35	477		"	500		95.4	80-120			
Total Hydrocarbon C6-C35	895		"	1000		89.5	80-120			
Surrogate: 1-Chlorooctane	59.6		"	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	45.4		"	50.0		90.8	70-130			

Environmental Lab of Texas

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Cheryl D. Keene

Quality Assurance Review

Page 5 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
06/04/04 17:39

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF40403 - EPA 5030C (GC)

Blank (EF40403-BLK1)

Prepared & Analyzed: 06/02/04

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	103		ug/kg	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	91.9		"	100		91.9	80-120			

ICS (EF40403-BS1)

Prepared & Analyzed: 06/02/04

Benzene	101		ug/kg	100		101	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	96.3		"	100		96.3	80-120			
Xylene (p/m)	194		"	200		97.0	80-120			
Xylene (o)	97.4		"	100		97.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	105		"	100		105	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

Calibration Check (EF40403-CCV1)

Prepared: 06/02/04 Analyzed: 06/03/04

Benzene	98.3		ug/kg	100		98.3	80-120			
Toluene	100		"	100		100	80-120			
Ethylbenzene	95.2		"	100		95.2	80-120			
Xylene (p/m)	194		"	200		97.0	80-120			
Xylene (o)	96.7		"	100		96.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	98.2		"	100		98.2	80-120			

Matrix Spike (EF40403-MS1)

Source: 4F02004-04

Prepared: 06/02/04 Analyzed: 06/04/04

Benzene	99.1		ug/kg	100	ND	99.1	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	99.9		"	100	ND	99.9	80-120			
Xylene (p/m)	202		"	200	ND	101	80-120			
Xylene (o)	98.7		"	100	ND	98.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

Environmental Lab of Texas

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Ally D. Kene

Quality Assurance Review

Page 6 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF40403 - EPA 5030C (GC)

Matrix Spike Dup (EF40403-MSD1)

Source: 4F02004-04

Prepared: 06/02/04 Analyzed: 06/04/04

Benzene	98.9		ug/kg	100	ND	98.9	80-120	0.202	20	
Toluene	99.7		"	100	ND	99.7	80-120	1.30	20	
Ethylbenzene	95.2		"	100	ND	95.2	80-120	4.82	20	
Xylene (p/m)	191		"	200	ND	95.5	80-120	5.60	20	
Xylene (o)	93.3		"	100	ND	93.3	80-120	5.62	20	
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	99.1		"	100		99.1	80-120			

Environmental Lab of Texas

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C. D. Keene

Quality Assurance Review

Page 7 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914
Reported:
06/04/04 17:39

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF40305 - General Preparation (Prep)

Blank (EF40305-BLK1)

Prepared & Analyzed: 06/02/04

% Solids	100		%							
----------	-----	--	---	--	--	--	--	--	--	--

Duplicate (EF40305-DUP1)

Source: 4F02003-01

Prepared & Analyzed: 06/02/04

% Solids	91.0		%		91.0			0.00	20	
----------	------	--	---	--	------	--	--	------	----	--

Environmental Lab of Texas

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Cayler D. Kene

Quality Assurance Review

Page 8 of 9

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

Project: C.S. Cayler Gathering
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/04/04 17:39

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

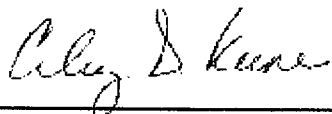
LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Environmental Lab of Texas

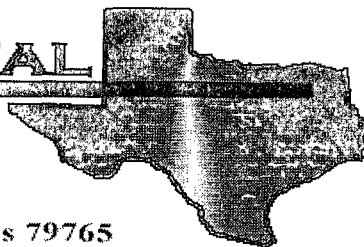
The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory.. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.



Quality Assurance Review

Page 9 of 9

ENVIRONMENTAL LAB OF



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: C.S. Cayler
Project Number: 2002-10250
Location: UL-B Section 6 T17SR37E

Lab Order Number: 4F11010

Report Date: 06/16/04

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3 (58'-60')	4F11010-01	Soil	06/09/04 09:34	06/11/04 10:50
MW-3 (68'-70')	4F11010-02	Soil	06/09/04 09:52	06/11/04 10:50

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (58'-60') (4F11010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	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		99.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		72.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.2 %	70-130		"	"	"	"	
MW-3 (68'-70') (4F11010-02) Soil									
Benzene	171	1.00	mg/kg dry	1000	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene	450	1.00	"	"	"	"	"	"	
Ethylbenzene	162	1.00	"	"	"	"	"	"	
Xylene (p/m)	291	1.00	"	"	"	"	"	"	
Xylene (o)	107	1.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		500 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		95.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	15700	50.0	mg/kg dry	5	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	16400	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	32100	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		23.4 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		57.4 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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Page 2 of 8

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (58'-60') (4F11010-01) Soil									
% Solids	93.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
MW-3 (68'-70') (4F11010-02) Soil									
% Solids	87.0		%	1	EF41301	06/11/04	06/11/04	% calculation	

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

Organics by GC - Quality Control
Environmental Lab of Texas

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

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		

Environmental Lab of Texas

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Page 4 of 8

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch 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 EF41602 - EPA 5030C (GC)

Blank (EF41602-BLK1)

Prepared & Analyzed: 06/15/04

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	97.9		ug/kg	100		97.9	80-120			
Surrogate: 4-Bromofluorobenzene	92.0		"	100		92.0	80-120			

LCS (EF41602-BS1)

Prepared & Analyzed: 06/15/04

Benzene	90.7		ug/kg	100		90.7	80-120			
Toluene	93.2		"	100		93.2	80-120			
Ethylbenzene	90.2		"	100		90.2	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	96.0		"	100		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.8		"	100		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	98.9		"	100		98.9	80-120			

Environmental Lab of Texas

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF41602 - EPA 5030C (GC)

Calibration Check (EF41602-CCV1)

Prepared: 06/15/04 Analyzed: 06/16/04

Benzene	96.4		ug/kg	100		96.4	80-120			
Toluene	93.5		"	100		93.5	80-120			
Ethylbenzene	88.0		"	100		88.0	80-120			
Xylene (p/m)	176		"	200		88.0	80-120			
Xylene (o)	91.4		"	100		91.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.0		"	100		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	89.5		"	100		89.5	80-120			

Matrix Spike (EF41602-MS1)

Source: 4F11010-01

Prepared: 06/15/04 Analyzed: 06/16/04

Benzene	101		ug/kg	100	ND	101	80-120			
Toluene	98.6		"	100	ND	98.6	80-120			
Ethylbenzene	96.3		"	100	ND	96.3	80-120			
Xylene (p/m)	194		"	200	ND	97.0	80-120			
Xylene (o)	101		"	100	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.5		"	100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			

Matrix Spike Dup (EF41602-MSD1)

Source: 4F11010-01

Prepared: 06/15/04 Analyzed: 06/16/04

Benzene	103		ug/kg	100	ND	103	80-120	1.96	20	
Toluene	99.4		"	100	ND	99.4	80-120	0.808	20	
Ethylbenzene	96.6		"	100	ND	96.6	80-120	0.311	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	1.03	20	
Xylene (o)	102		"	100	ND	102	80-120	0.985	20	
Surrogate: a,a,a-Trifluorotoluene	85.4		"	100		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			

Environmental Lab of Texas

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Page 6 of 8

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF41301 - General Preparation (Prep)

Blank (EF41301-BLK1)

Prepared & Analyzed: 06/11/04

% Solids	100	%
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Duplicate (EF41301-DUP1)

Source: 4F11001-01

Prepared & Analyzed: 06/11/04

% Solids	86.0	%	86.0	0.00	20
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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: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/16/04 17:04

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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:



Date:

6-16-04

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.

Environmental Lab of Texas

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Page 8 of 8

12600 West I-20 East
Odessa Texas 79763

PO#:

[illegible]

Temperature Upon Request
Laboratory Comments:

Date	Time
------	------

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

Client: Plains

Date/Time: 06-11-04 @ 1200

Order #: 4F11010

Initials: JMM

Sample Receipt Checklist

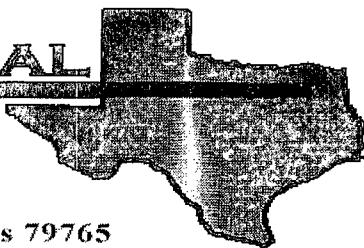
Temperature of container/cooler?	☒ Yes	☐ No	O.S	C
Shipping container/cooler in good condition?	☒ Yes	☐ No	N/A	
Custody Seals intact on shipping container/cooler?	☒ Yes	☐ No	<u>Not present</u>	
Custody Seals intact on sample bottles?	☒ Yes	☐ No	<u>Not present</u>	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Preservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
All samples received within sufficient hold time?	☒ Yes	☐ No		
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



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: C.S. Cayler
Project Number: 2002-10250
Location: UL-BSection 6 T17S R37E

Lab Order Number: 4F17005

Report Date: 06/21/04

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5 (53'-55')	4F17005-01	Soil	06/14/04 09:09	06/17/04 12:40
MW-5 (68'-70')	4F17005-02	Soil	06/14/04 09:45	06/17/04 12:40
MW-4 (58'-60')	4F17005-03	Soil	06/15/04 09:30	06/17/04 12:40
MW-4 (73'-75')	4F17005-04	Soil	06/15/04 09:45	06/17/04 12:40

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (53'-55') (4F17005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	0.0261	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0236]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0451	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0161]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		98.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41705	06/17/04	06/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	15.8	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	15.8	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	
MW-5 (68'-70') (4F17005-02) Soil									
Benzene	216	0.200	mg/kg dry	200	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	491	0.200	"	"	"	"	"	"	
Ethylbenzene	145	0.200	"	"	"	"	"	"	
Xylene (p/m)	235	0.200	"	"	"	"	"	"	
Xylene (o)	81.9	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		1690 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		85.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	20800	50.0	mg/kg dry	5	EF41705	06/17/04	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	22800	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	43600	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		32.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		78.4 %	70-130		"	"	"	"	S-06
MW-4 (58'-60') (4F17005-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	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		92.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	J [6.67]	10.0	mg/kg dry	1	EF41705	06/17/04	06/18/04	EPA 8015M	J
Diesel Range Organics >C12-C35	J [5.56]	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (58'-60') (4F17005-03) Soil									
Surrogate: 1-Chlorooctane		117 %	70-130		EF41705	06/17/04	06/18/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-4 (73'-75') (4F17005-04) Soil									
Benzene	13.7	0.200	mg/kg dry	200	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	96.0	0.200	"	"	"	"	"	"	
Ethylbenzene	63.6	0.200	"	"	"	"	"	"	
Xylene (p/m)	107	0.200	"	"	"	"	"	"	
Xylene (o)	45.8	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		438 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		114 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	6950	50.0	mg/kg dry	5	EF41705	06/17/04	06/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	13200	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	20200	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		28.6 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		55.0 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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Page 3 of 10

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (53'-55') (4F17005-01) Soil									
% Solids	96.0		%	1	EF41806	06/17/04	06/17/04	% calculation	
MW-5 (68'-70') (4F17005-02) Soil									
% Solids	90.0		%	1	EF41806	06/17/04	06/17/04	% calculation	
MW-4 (58'-60') (4F17005-03) Soil									
% Solids	95.0		%	1	EF41806	06/17/04	06/17/04	% calculation	
MW-4 (73'-75') (4F17005-04) Soil									
% Solids	91.0		%	1	EF41806	06/17/04	06/17/04	% calculation	

Environmental Lab of Texas

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Page 4 of 10

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

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 EF41705 - Solvent Extraction (GC)

Blank (EF41705-BLK1)

Prepared & Analyzed: 06/17/04

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	41.2		mg/kg	50.0		82.4	70-130			
Surrogate: 1-Chlorooctadecane	35.7		"	50.0		71.4	70-130			

Blank (EF41705-BLK2)

Prepared: 06/17/04 Analyzed: 06/18/04

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	35.1		"	50.0		70.2	70-130			

LCS (EF41705-BS1)

Prepared & Analyzed: 06/17/04

Gasoline Range Organics C6-C12	480	10.0	mg/kg wet	500		96.0	75-125			
Diesel Range Organics >C12-C35	536	10.0	"	500		107	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	38.2		"	50.0		76.4	70-130			

LCS (EF41705-BS2)

Prepared: 06/17/04 Analyzed: 06/18/04

Gasoline Range Organics C6-C12	461	10.0	mg/kg wet	500		92.2	75-125			
Diesel Range Organics >C12-C35	536	10.0	"	500		107	75-125			
Total Hydrocarbon C6-C35	997	10.0	"	1000		99.7	75-125			
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			

Calibration Check (EF41705-CCV1)

Prepared & Analyzed: 06/17/04

Gasoline Range Organics C6-C12	523		mg/kg	500		105	80-120			
Diesel Range Organics >C12-C35	562		"	500		112	80-120			
Total Hydrocarbon C6-C35	1090		"	1000		109	80-120			
Surrogate: 1-Chlorooctane	53.3		"	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	42.9		"	50.0		85.8	70-130			

Environmental Lab of Texas

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF41705 - Solvent Extraction (GC)

Calibration Check (EF41705-CCV2)

Prepared: 06/17/04 Analyzed: 06/18/04

Gasoline Range Organics C6-C12	518		mg/kg	500		104	80-120			
Diesel Range Organics >C12-C35	570		"	500		114	80-120			
Total Hydrocarbon C6-C35	1090		"	1000		109	80-120			
Surrogate: 1-Chlorooctane	54.5		"	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	46.7		"	50.0		93.4	70-130			

Matrix Spike (EF41705-MS1)

Source: 4F17003-01

Prepared & Analyzed: 06/17/04

Gasoline Range Organics C6-C12	595	10.0	mg/kg dry	538	ND	111	75-125			
Diesel Range Organics >C12-C35	657	10.0	"	538	ND	122	75-125			
Total Hydrocarbon C6-C35	1250	10.0	"	1080	ND	116	75-125			
Surrogate: 1-Chlorooctane	62.9		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	53.2		"	50.0		106	70-130			

Matrix Spike (EF41705-MS2)

Source: 4F17007-02

Prepared: 06/17/04 Analyzed: 06/18/04

Gasoline Range Organics C6-C12	681	10.0	mg/kg dry	633	ND	108	75-125			
Diesel Range Organics >C12-C35	759	10.0	"	633	ND	120	75-125			
Total Hydrocarbon C6-C35	1440	10.0	"	1270	ND	113	75-125			
Surrogate: 1-Chlorooctane	58.3		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	49.3		"	50.0		98.6	70-130			

Matrix Spike Dup (EF41705-MSD1)

Source: 4F17003-01

Prepared & Analyzed: 06/17/04

Gasoline Range Organics C6-C12	599	10.0	mg/kg dry	538	ND	111	75-125	0.670	20	
Diesel Range Organics >C12-C35	645	10.0	"	538	ND	120	75-125	1.84	20	
Total Hydrocarbon C6-C35	1240	10.0	"	1080	ND	115	75-125	0.803	20	
Surrogate: 1-Chlorooctane	63.0		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130			

Matrix Spike Dup (EF41705-MSD2)

Source: 4F17007-02

Prepared: 06/17/04 Analyzed: 06/18/04

Gasoline Range Organics C6-C12	677	10.0	mg/kg dry	633	ND	107	75-125	0.589	20	
Diesel Range Organics >C12-C35	777	10.0	"	633	ND	123	75-125	2.34	20	
Total Hydrocarbon C6-C35	1450	10.0	"	1270	ND	114	75-125	0.692	20	
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	50.7		"	50.0		101	70-130			

Environmental Lab of Texas

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Page 6 of 10

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF42102 - EPA 5030C (GC)

Blank (EF42102-BLK1)

Prepared & Analyzed: 06/17/04

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	83.4		ug/kg	100		83.4	80-120			
Surrogate: 4-Bromofluorobenzene	97.5		"	100		97.5	80-120			

LCS (EF42102-BS1)

Prepared & Analyzed: 06/17/04

Benzene	100		ug/kg	100		100	80-120			
Toluene	95.8		"	100		95.8	80-120			
Ethylbenzene	91.4		"	100		91.4	80-120			
Xylene (p/m)	185		"	200		92.5	80-120			
Xylene (o)	96.8		"	100		96.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	88.0		"	100		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

Calibration Check (EF42102-CCV1)

Prepared: 06/17/04 Analyzed: 06/19/04

Benzene	95.3		ug/kg	100		95.3	80-120			
Toluene	91.9		"	100		91.9	80-120			
Ethylbenzene	86.0		"	100		86.0	80-120			
Xylene (p/m)	173		"	200		86.5	80-120			
Xylene (o)	90.8		"	100		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	93.6		"	100		93.6	80-120			
Surrogate: 4-Bromofluorobenzene	95.9		"	100		95.9	80-120			

Matrix Spike (EF42102-MS1)

Source: 4F17007-01

Prepared: 06/17/04 Analyzed: 06/19/04

Benzene	98.5		ug/kg	100	ND	98.5	80-120			
Toluene	95.3		"	100	ND	95.3	80-120			
Ethylbenzene	90.2		"	100	ND	90.2	80-120			
Xylene (p/m)	182		"	200	ND	91.0	80-120			
Xylene (o)	93.7		"	100	ND	93.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.2		"	100		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	99.2		"	100		99.2	80-120			

Environmental Lab of Texas

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EF42102 - EPA 5030C (GC)

Matrix Spike Dup (EF42102-MSD1) **Source: 4F17007-01** Prepared: 06/17/04 Analyzed: 06/19/04

Benzene	100		ug/kg	100	ND	100	80-120	1.51	20	
Toluene	96.6		"	100	ND	96.6	80-120	1.35	20	
Ethylbenzene	91.6		"	100	ND	91.6	80-120	1.54	20	
Xylene (p/m)	185		"	200	ND	92.5	80-120	1.63	20	
Xylene (o)	96.7		"	100	ND	96.7	80-120	3.15	20	
Surrogate: a,a,a-Trifluorotoluene	94.6		"	100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	105		"	100		105	80-120			

Environmental Lab of Texas

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Page 8 of 10

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF41806 - General Preparation (Prep)

Blank (EF41806-BLK1)

Prepared & Analyzed: 06/17/04

% Solids	100	%
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Duplicate (EF41806-DUP1)

Source: 4F17003-01

Prepared & Analyzed: 06/17/04

% Solids	93.0	%	93.0	0.00	20
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Environmental Lab of Texas

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

Project: C.S. Cayler
Project Number: 2002-10250
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
06/21/04 11:31

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

6-21-04

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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Environmental Lab of Texas

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Page 10 of 10

12600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

PO#:

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L

Date/Time: 06-17-04 @ 1315

Order #: 4F17005

Initials: Jmm

Sample Receipt Checklist

Temperature of container/cooler?	☒ Yes	☐ No	4	C
Shipping container/cooler in good condition?	☒ Yes	☐ No	N/A	
Custody Seals intact on shipping container/cooler?	☒ Yes	☐ No	Not present	
Custody Seals intact on sample bottles?	☒ Yes	☐ No	Not present	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Preservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
All samples received within sufficient hold time?	☒ Yes	☐ No		
VOC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Emice, NM 88231

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

Report#/Lab ID#: 160998 Report Date: 11/01/04
Project ID: 2002-10250
Sample Name: MW-6 (25-30)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/21/2004 Time: 15:01

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0	87.3	102.7	98.8
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0.2	92.2	103.8	101.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	1.3	88.9	100.4	100.2
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0.3	91.2	102.3	104.9
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	1.9	108	119.8	124.9

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Respectfully Submitted,



Dale Wagner

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6 (25-30)

Report#/Lab ID#: 160998
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	91.1	30-125	---
	8015 mod.	103	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	101	56-120	---
	8260b	94.9	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#: 160999 Report Date: 11/01/04
Project ID: 2002-10250
Sample Name: MW-6 (55-60)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/21/2004 Time: 16:00

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatiles organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Respectfully Submitted,



Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6 (55-60)

Report#/Lab ID#: 160999
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	90.2	30-125	---
	8015 mod.	98.9	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	92.2	56-120	---
	8260b	97.4	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#: 161000
Project ID: 2002-10250
Sample Name: MW-6 (74-75)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/21/2004 Time: 16:25

Report Date: 11/01/04

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.5	70.4	95.6	100.8
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0.4	88.8	101.5	112.7
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	2.7	87.4	104.2	110.2
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	1.9	92.6	109.2	117.5
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.2	83.7	116.1	113.2

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Respectfully Submitted,



Dale Wagner

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-6 (74-75)

Report#/Lab ID#: 161000
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	91	30-125	---
	8015 mod.	102	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	86.7	56-120	---
	8260b	90.1	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#: 161001
Project ID: 2002-10250
Sample Name: MW-7 (30-35)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/21/2004 **Time:** 09:04

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatle organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.5	70.4	95.6	100.8
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0.4	88.8	101.5	112.7
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	2.7	87.4	104.2	110.2
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	1.9	92.6	109.2	117.5
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.2	83.7	116.1	113.2

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-7 (30-35)

Report#/Lab ID#: 161001
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	85.4	30-125	---
	8015 mod.	95.9	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	89.3	56-120	---
	8260b	99.7	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#: 161002 Report Date: 11/01/04
Project ID: 2002-10250
Sample Name: MW-7 (50-55)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/21/2004 Time: 09:28

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.5	70.4	95.6	100.8
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	0.4	88.8	101.5	112.7
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	2.7	87.4	104.2	110.2
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	1.9	92.6	109.2	117.5
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.2	83.7	116.1	113.2

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Respectfully Submitted,



Dale Wagner

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-7 (50-55)

Report#/Lab ID#: 161002
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	85.9	30-125	---
	8015 mod.	95.7	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	99.8	56-120	---
	8260b	111	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#: 161003 Report Date: 11/01/04
Project ID: 2002-10250
Sample Name: MW-7 (74-75)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/21/2004 Time: 12:17

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)	1.56#	mg/Kg	25	<25	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	1.7#	mg/Kg	50	<50	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	2.34#	µg/Kg	1000	<1000	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	3.54#	µg/Kg	1000	<1000	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	4.63#	µg/Kg	2000	<2000	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	2.52#	µg/Kg	1000	<1000	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	9.29#	µg/Kg	1000	<1000	10/29/04	8260b	---	2.4	105.9	117	114.5

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Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-7 (74-75)

Report#/Lab ID#: 161003
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	85.9	30-125	---
p-Terphenyl	8015 mod.	91.4	30-160	---
1,2-Dichloroethane-d4	8260b	100.0	diluted @ 50X	D
Toluene-d8	8260b	100.0	diluted @ 50X	D

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

Report #/Lab ID#: 161003 Matrix: soil
Client: Environmental Plus, Inc.
Project ID: 2002-10250
Sample Name: MW-7 (74-75)
Attn: Iain Olness

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
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	
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: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report# Lab ID# 161004
Project ID: 2002-10250
Sample Name: MW-8 (30-35)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/20/2004 **Time:** 14:35

Report Date: 11/01/04

2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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

Respectfully Submitted,

Dale Wagner

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: Iain Olness

Project ID: 2002-10250
Sample Name: MW-8 (30-35)

Report#/Lab ID#: 161004
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	88.8	30-125	---
	8015 mod.	102	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	101	56-120	---
	8260b	103	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#: 161005 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-8 (45-50)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/20/2004 **Time:** 15:10

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-8 (45-50)

Report#/Lab ID#: 161005
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	85.1	30-125	---
	8015 mod.	96.2	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	75.7	56-120	---
	8260b	90.7	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#: 161006 Report Date: 11/01/04
Project ID: 2002-10250
Sample Name: MW-8 (74-75)
Sample Matrix: soil
Date Received: 10/26/2004 Time: 09:40
Date Sampled: 10/20/2004 Time: 15:53

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-8 (74-75)

Report# / Lab ID#: 161006
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	89	30-125	---
p-Terphenyl	8015 mod.	96.9	30-160	---
1,2-Dichloroethane-d4	8260b	75.7	56-120	---
Toluene-d8	8260b	99.2	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 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)	<2.5	mg/Kg	2.5	<2.5	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Report# / Lab ID#: 161007 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-9 (24.5-25)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/19/2004 **Time:** 12:28

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-9 (24.5-25)

Report#/Lab ID#: 161007
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	89.4	30-125	---
	8015 mod.	100	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	95.4	56-120	---
	8260b	104	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#: 161008 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-9 (53-55)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/19/2004 **Time:** 13:07

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-9 (53-55)

Report#/Lab ID#: 161008
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	90.2	30-125	---
	8015 mod.	100	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	83.8	56-120	---
	8260b	98.9	71-116	---

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



2209 N. Padre Island Dr., Corpus Christi, TX 78408
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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#: 161009 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-9 (74-75)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/19/2004 **Time:** 13:37

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatiles organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-9 (74-75)

Report#/Lab ID#: 161009
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	91	30-125	---
	8015 mod.	99.4	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	87.4	56-120	---
	8260b	96.2	71-116	---

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



2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

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#: 161010 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-10 (29-30)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/20/2004 **Time:** 09:17

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2002-10250
Sample Name: MW-10 (29-30)

Report#/Lab ID#: 161010
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	90.9	30-125	---
	8015 mod.	100	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	92.6	56-120	---
	8260b	99.4	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#: 161011 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-10 (45-50)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/20/2004 **Time:** 09:46

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatile organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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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: Iain Olness

Project ID: 2002-10250
Sample Name: MW-10 (45-50)

Report#/Lab ID#: 161011
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	89.7	30-125	---
	8015 mod.	103	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	92.7	56-120	---
	8260b	96.4	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#: 161012 **Report Date:** 11/01/04
Project ID: 2002-10250
Sample Name: MW-10 (74-75)
Sample Matrix: soil
Date Received: 10/26/2004 **Time:** 09:40
Date Sampled: 10/20/2004 **Time:** 10:30

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	10/27/04	8015 mod.	---	7.8	112.4	97.1	101.7
TPH by GC (as diesel-ext)	---	---	---	---	10/27/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/27/04	8015 mod.	---	11.2	108.2	96.1	96.3
Volatiles organics-8260b/BTEX	---	---	---	---	10/29/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	<40	µg/Kg	40	<40	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	<20	µg/Kg	20	<20	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	<20	µg/Kg	20	<20	10/29/04	8260b	---	2.4	105.9	117	114.5

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

Respectfully Submitted,

Dale Wagner

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: Iain Olness

Project ID: 2002-10250
Sample Name: MW-10 (74-75)

Report#/Lab ID#: 161012
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	93.5	30-125	---
	8015 mod.	104	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	72.2	56-120	---
	8260b	92.5	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

Chain of Custody Form

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

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 PO Box 4648, Houston, TX 77210-4648											
City, State, Zip Eunice New Mexico 88231													
EPI Phone#/Fax# 505-394-3481 / 505-394-2601													
Client Company Plains All American													
Facility Name C. S. Cayler													
Project Reference 2002-10250													
EPI Sampler Name John Robinson													

LAB I.D.	SAMPLE I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.			SAMPLING		TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER							
160998	1 MW-6 (25-30)	C 1	1			X						X	X						
160999	2 MW-6 (55-60)	C 1	1			X						X	X						
161000	3 MW-6 (74-75)	C 1	1			X						X	X						
161001	4 MW-7 (30-35)	C 1	1			X						X	X						
161002	5 MW-7 (50-55)	C 1	1			X						X	X						
161003	6 MW-7 (74-75)	C 1	1			X						X	X						
161004	7 MW-8 (30-35)	C 1	1			X						X	X						
161005	8 MW-8 (45-50)	C 1	1			X						X	X						
161006	9 MW-8 (74-75)	C 1	1			X						X	X						
161007	10 MW-9 (24.5 - 25)	G 1	1			X						X	X						

Sampler Relinquished: <i>Iain Olness</i>	Date 10/25/04	Received By:
Relinquished by:	Time 1:36	
	Date 10/26/04	Received By: (lab staff)
	Time 0940	
Delivered by:	Sample Cool & Intact Yes No	Checked By: <i>AS1</i>

E-mail results to: iolness@hotmail.com and enviplus1@aol.com

REMARKS:

T:43c

Analysys Inc.

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

Chain of Custody Form

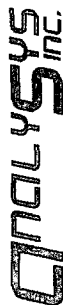
2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST											
EPI Project Manager Iain Olness		Attn: ENV Accounts Payable PO Box 4648, Houston, TX 77210-4648													
Mailing Address P.O. BOX 1558															
City, State, Zip Eunice New Mexico 88231															
EPI Phone#/Fax# 505-394-3481 / 505-394-2601															
Client Company Plains All American															
Facility Name C. S. Cayler															
Project Reference 2002-10250															
EPI Sampler Name John Robinson															

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>	PAH	
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME								
161008	1 MW-9 (53-55)	C 1				X						X			X							
161009	2 MW-9 (74-75)	C 1				X						X			X							
161010	3 MW-10 (29-30)	C 1				X						X			X							
161011	4 MW-10 (45-50)	C 1				X						X			X							
161012	5 MW-10 (74-75)	C 1				X						X			X							
6																						
7																						
8																						
9																						
10																						

Sampler Relinquished: <i>John Robinson</i>	Received By:	10/23/04	E-mail results to: iolness@hotmail.com and envplus1@aol.com
	Time	1630	
Relinquished by:	Received By: (lab staff)	10/26/04	REMARKS:
	Date	10/26/04	
Delivered by:	Sample Cool & Intact	Yes	Checked By:
	No	No	

T.430



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

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#: 135483 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-5
Sample Matrix: soil
Date Received: 10/23/2002 **Time:** 10:10
Date Sampled: 10/17/2002 **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)	10800	mg/Kg	500	<500	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	15700	mg/Kg	500	<500	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	122000	µg/Kg	10000	<10000	10/28/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	164000	µg/Kg	10000	<10000	10/28/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	318000	µg/Kg	10000	<10000	10/28/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	121000	µg/Kg	10000	<10000	10/28/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	395000	µg/Kg	10000	<10000	10/28/02	8260b	---	5.5	93.6	97.3	102.1

QUALITY ASSURANCE DATA¹

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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.

Client: Environmental Plus, Inc.
Attn: Pat McCaslandProject ID: 2002-10250 CS Cavalier
Sample Name: CSC101702BH1-5Report#/Lab ID#: 135483
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	none/diluted	diluted @ 500X	D
Toluene-d8	8260b	none/diluted	diluted @ 500X	D

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

Exceptions Report:

Report #/Lab ID#: 135483 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250 CS Cavalier
Sample Name: CSC101702BH1-5

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.

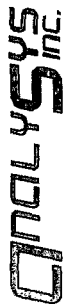
J flag Discussion

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	
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	
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

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#: 135484 Report Date: 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-10
Sample Matrix: soil
Date Received: 10/23/2002 Time: 10:10
Date Sampled: 10/17/2002 Time: 08:30

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)	9110	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	7650	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	34100	µg/Kg	5000	<5000	10/28/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	89100	µg/Kg	5000	<5000	10/28/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	204000	µg/Kg	5000	<5000	10/28/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	82700	µg/Kg	5000	<5000	10/28/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	172000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	93.6	97.3	102.1

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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.

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2002-10250 CS Cavler Sample Name: CSC101702BH1-10	Report#/Lab ID#: 135484 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	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.

Exceptions Report:

Report #/Lab ID#: 135484 Matrix: soil
Client: Environmental Plus, Inc.
Project ID: 2002-10250 CS Cavalier
Sample Name: CSC101702BH1-10

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 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
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	
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	
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
Address: 1324 M.St Po Box
Eumice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 135485 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-15
Sample Matrix: soil
Date Received: 10/23/2002 **Time:** 10:10
Date Sampled: 10/17/2002 **Time:** 09:00

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)	2680	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	2220	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	12900	µg/Kg	1000	<1000	10/28/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	32100	µg/Kg	1000	<1000	10/28/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	53100	µg/Kg	1000	<1000	10/28/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	20400	µg/Kg	1000	<1000	10/28/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	68600	µg/Kg	1000	<1000	10/28/02	8260b	---	5.5	93.6	97.3	102.1

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 Easter

Richard Easter

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: 2002-10250 CS Cavler Sample Name: CSC101702BH1-15	Report#/Lab ID#: 135485 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 135485	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 CS Cavalier		
Sample Name: CSC101702BH1-15		

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	
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	
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
Address: 1324 M. St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 135486 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-20
Sample Matrix: soil
Date Received: 10/23/2002 **Time:** 10:10
Date Sampled: 10/17/2002 **Time:** 09:30

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)	4270	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	3810	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/25/02	8260b	---	---	---	---	---
Benzene	64500	µg/Kg	1000	<1000	10/25/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	65200	µg/Kg	1000	<1000	10/25/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	101000	µg/Kg	1000	<1000	10/25/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	39400	µg/Kg	1000	<1000	10/25/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	204000	µg/Kg	1000	<1000	10/25/02	8260b	---	5.5	93.6	97.3	102.1

QUALITY ASSURANCE DATA¹

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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.

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-20

Report#/Lab ID#: 135486
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	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.

Exceptions Report:

Report #/Lab ID#: 135486	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 CS Cavler		
Sample Name: CSC101702BH1-20		

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	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.
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.
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

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#: 135487 **Report Date:** 10/31/02

Project ID: 2002-10250 CS Cavler

Sample Name: CSC101702BH1-25

Sample Matrix: soil

Date Received: 10/23/2002 **Time:** 10:10

Date Sampled: 10/17/2002 **Time:** 10:00

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)	9190	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	10800	mg/Kg	500	<500	10/29/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	130000	µg/Kg	5000	<5000	10/28/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	174000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	271000	µg/Kg	5000	<5000	10/28/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	105000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	398000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	93.6	97.3	102.1

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: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-25

Report#/Lab ID#: 135487
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	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.

Exceptions Report:

Report #/Lab ID#: 135487 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-25

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

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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
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.
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.
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Emisce

NM 88231

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

Report#/Lab ID#: 135488 **Report Date:** 10/31/02

Project ID: 2002-10250 CS Cavler

Sample Name: CSC101702BH1-30

Sample Matrix: soil

Date Received: 10/23/2002 **Time:** 10:10

Date Sampled: 10/17/2002 **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)	8350	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	10300	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/25/02	8260b	---	---	---	---	---
Benzene	47000	µg/Kg	1000	<1000	10/25/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	105000	µg/Kg	1000	<1000	10/25/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	178000	µg/Kg	1000	<1000	10/25/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	70600	µg/Kg	1000	<1000	10/25/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	248000	µg/Kg	1000	<1000	10/25/02	8260b	---	5.5	93.6	97.3	102.1

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: 2002-10250 CS Cavler Sample Name: CSC101702BH1-30	Report#/Lab ID#: 135488 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 135488	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 CS Cavalier		
Sample Name: CSC101702BH1-30		

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

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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	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.
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.
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
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 135489 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-35
Sample Matrix: soil
Date Received: 10/23/2002 **Time:** 10:10
Date Sampled: 10/17/2002 **Time:** 11:00

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)	6670	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	8330	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/25/02	8260b	---	---	---	---	---
Benzene	58100	µg/Kg	1000	<1000	10/25/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	75600	µg/Kg	1000	<1000	10/25/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	130000	µg/Kg	1000	<1000	10/25/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	50700	µg/Kg	1000	<1000	10/25/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	189000	µg/Kg	1000	<1000	10/25/02	8260b	---	5.5	93.6	97.3	102.1

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: 2002-10250 CS Caver Sample Name: CSC101702BH1-35	Report#/Lab ID#: 135489 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 135489 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavalier
Sample Name: CSC101702BH1-35

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
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	
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	
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

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#: 135490 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-40
Sample Matrix: soil
Date Received: 10/23/2002 **Time:** 10:10
Date Sampled: 10/17/2002 **Time:** 11:30

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)	7250	mg/Kg	50	<50	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9890	mg/Kg	500	<500	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	116000	µg/Kg	5000	<5000	10/28/02	8260b	---	4.6	74.3	86.9	78.7
Ethylbenzene	152000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.6	114.9	110.4	123.6
m,p-Xylenes	244000	µg/Kg	5000	<5000	10/28/02	8260b	---	1.2	113.6	104.9	121.1
o-Xylene	92700	µg/Kg	5000	<5000	10/28/02	8260b	---	0.7	115.9	107.8	125.1
Toluene	359000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	93.6	97.3	102.1

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: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-40

Report#/Lab ID#: 135490
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	none/diluted	diluted @ 250X	D
	8260b	none/diluted	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#:135490	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 CS Caver		
Sample Name: CSC101702BH1-40		

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	
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	
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

Address: 1324 M.St Po Box
Eunice NM 88231

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

Report#/Lab ID#: 135491 **Report Date:** 10/31/02

Project ID: 2002-10250 CS Cavler

Sample Name: CSC101702BH1-45

Sample Matrix: soil

Date Received: 10/23/2002 **Time:** 10:10

Date Sampled: 10/17/2002 **Time:** 12:00

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)	5720	mg/Kg	500	<500	10/25/02	8015 mod.	---	2.8	95.3	124.9	74.7
TPH by GC (as diesel-ext)	---	---	---	---	10/24/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	7430	mg/Kg	500	<500	10/25/02	8015 mod.	---	2.4	91.3	122.8	83.8
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	89700	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	71.5	93.9	76.9
Ethylbenzene	152000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.1	112.5	113.1	118.2
m,p-Xylenes	243000	µg/Kg	5000	<5000	10/28/02	8260b	---	0	109.4	107	114.7
o-Xylene	95900	µg/Kg	5000	<5000	10/28/02	8260b	---	0.3	113.4	111.6	120.6
Toluene	403000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.4	94.6	99.7	101.9

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 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: 2002-10250 CS Cavlcr
Sample Name: CSC101702BH1-45

Report#/Lab ID#: 135491
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	none/diluted	diluted @ 250X	D
	8260b	none/diluted	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#: 135491 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-45

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	
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	
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

Address: 1324 M.St Po Box

Emice

NM 88231

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

Report#/Lab ID#: 135492 **Report Date:** 10/31/02

Project ID: 2002-10250 CS Caver

Sample Name: CSC101702BH1-50

Sample Matrix: soil

Date Received: 10/23/2002 **Time:** 10:10

Date Sampled: 10/17/2002 **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)	6650	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.3	76.5	117.8	88.2
TPH by GC (as diesel-ext)	---	---	---	---	10/25/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	8680	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.4	77.9	101.1	95.1
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	59400	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	71.5	93.9	76.9
Ethylbenzene	147000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.1	112.5	113.1	118.2
m,p-Xylenes	241000	µg/Kg	5000	<5000	10/28/02	8260b	---	0	109.4	107	114.7
o-Xylene	90100	µg/Kg	5000	<5000	10/28/02	8260b	---	0.3	113.4	111.6	120.6
Toluene	336000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.4	94.6	99.7	101.9

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 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: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-50

Report#/Lab ID#: 135492
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	none/diluted	diluted @ 250X	D
	8260b	none/diluted	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#: 135492 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavalier
Sample Name: CSC101702BH1-50

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.

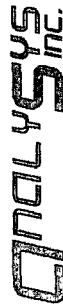
J flag Discussion

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	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.
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.
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

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#: 135493 Report Date: 10/31/02

Project ID: 2002-10250 CS Cavler

Sample Name: CSC101702BH1-60

Sample Matrix: soil

Date Received: 10/23/2002 Time: 10:10

Date Sampled: 10/17/2002 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)	8230	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.3	76.5	117.8	88.2
TPH by GC (as diesel-ext)	---	---	---	---	10/25/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	10800	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.4	77.9	101.1	95.1
Volatile organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	75200	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	71.5	93.9	76.9
Ethylbenzene	126000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.1	112.5	113.1	118.2
m,p-Xylenes	233000	µg/Kg	5000	<5000	10/28/02	8260b	---	0	109.4	107	114.7
o-Xylene	93600	µg/Kg	5000	<5000	10/28/02	8260b	---	0.3	113.4	111.6	120.6
Toluene	334000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.4	94.6	99.7	101.9

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 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: 2002-10250 CS Cavler Sample Name: CSC101702BH1-60	Report#/Lab ID#: 135493 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	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.

Exceptions Report:

Report #/Lab ID#: 135493	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 CS Cavalier		
Sample Name: CSC101702BH1-60		

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	
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	
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:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX
78408

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Euinec

NM 88231

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

Report#/Lab ID#: 135494 **Report Date:** 10/31/02

Project ID: 2002-10250 CS Caver

Sample Name: CSC101702BH1-65

Sample Matrix: soil

Date Received: 10/23/2002 **Time:** 10:10

Date Sampled: 10/17/2002 **Time:** 14:00

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)	11600	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.3	76.5	117.8	88.2
TPH by GC (as diesel-ext)	---	---	---	---	10/25/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	14800	mg/Kg	500	<500	10/28/02	8015 mod.	---	17.4	77.9	101.1	95.1
Volatle organics-8260b/BTEX	---	---	---	---	10/28/02	8260b	---	---	---	---	---
Benzene	214000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.5	71.5	93.9	76.9
Ethylbenzene	224000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.1	112.5	113.1	118.2
m,p-Xylenes	382000	µg/Kg	5000	<5000	10/28/02	8260b	---	0	109.4	107	114.7
o-Xylene	152000	µg/Kg	5000	<5000	10/28/02	8260b	---	0.3	113.4	111.6	120.6
Toluene	622000	µg/Kg	5000	<5000	10/28/02	8260b	---	5.4	94.6	99.7	101.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2002-10250 CS Cavler Sample Name: CSC101702BH1-65	Report#/Lab ID#: 135494 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	none/diluted	diluted @ 250X	D
	8260b	none/diluted	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#:135494	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250	CS Caver	
Sample Name: CSC101702BH1-65		

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.
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.
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:

CHAIN-OF-CUSTODY

Send Reports To:

Environmental Plus Inc.
PO Box 1558
Eunice NM 88231
Attn: Pat McCasland
Phone (505)-394-3481 Fax (505)-394-2601
enviplus1@aol.com cmung142@aol.com

Bill to (if different):

E.O.T.T. Energy
PO Box 1660
Midland TX 79702
Attn. Frank Hernandez

ANALYSYS inc.

4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone: (512) 444-5896
Fax: (512) 447-4766

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

Project Name/PO#: 2002-10250 Sampler: Cody Miller ✓ Cody Miller CS CAVLER

Analyses Requested (1)					Please attach explanatory information as required				
Client Sample No.					Comments				
Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M BTEX 8015M	
CSC101702BH1-5	10-17-02	0810	1	X			135483	✓	
CSC101702BH1-10	10-17-02	0830	1	X			135484	✓	
CSC101702BH1-15	10-17-02	0900	1	X			135485	✓	
CSC101702BH1-20	10-17-02	0930	1	X			135486	✓	
CSC101702BH1-25	10-17-02	1000	1	X			135487	✓	
CSC101702BH1-30	10-17-02	1030	1	X			135488	✓	
CSC101702BH1-35	10-17-02	1100	1	X			135489	✓	
CSC101702BH1-40	10-17-02	1130	1	X			135490	✓	
CSC101702BH1-45	10-17-02	1200	1	X			135491	✓	
CSC101702BH1-50	10-17-02	1300	1	X			135492	✓	

(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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 4.0°C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
✓ Cody Miller	Environmental Plus	10-17-02	Michael Thompson	ASI	10/23/02 10:10

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

המחברות

4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone: (512) 444-5896
Fax: (512) 447-4766

E.O. 1.1. Energy

PO Box 1660

Midland TX 79702

Attn. Frank Hernandez

Analyses Requested

mgr.):

Sampler: Cody Miller / Cody Miller

11/11/2022 12:27
 5741 2022.000
 11/11/2022 12:27

[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/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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 4.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
✓ Cody Miller	Environmental Plus	10-17-02		Michael Humphrey	AS	10/23/02	10:10

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

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#: 135850

Project ID: 2002-10250 CS Carter

Sample Name: CSC102202BH2-5

Sample Matrix: soil

Date Received: 10/30/2002

Time: 10:10

Date Sampled: 10/22/2002

Time: 13:00

Report Date: 11/07/02

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	11/05/02	8015 mod.	---	11.2	79.6	98	93.3
TPH by GC (as diesel-ext)	---	---	---	---	11/04/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/05/02	8015 mod.	---	9.2	77.3	98	83.2
Volatile organics-8260b/BTEX	---	---	---	---	11/04/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	3.1	84.1	93.8	83.2
Ethylbenzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	105.8	111.7	112.2
m,p-Xylenes	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.5	103.4	108.6	111
o-Xylene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	106.5	112.8	116.2
Toluene	<20	µg/Kg	20	<20	11/04/02	8260b	---	9.5	88	106.2	96.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 CS Carter
Sample Name: CSC102202BH2-5

Report#/Lab ID#: 135850
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	56.2	50-150	---
	8015 mod.	79.1	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	84.7	65-115	---
	8260b	95.2	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#: 135851 **Report Date:** 11/07/02
Project ID: 2002-10250 CS Carter
Sample Name: CSC102202BH2-10
Sample Matrix: soil
Date Received: 10/30/2002 **Time:** 10:10
Date Sampled: 10/22/2002 **Time:** 13:30

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)	<5	mg/Kg	5	<5	11/05/02	8015 mod.	---	11.2	79.6	98	93.3
TPH by GC (as diesel-ext)	---	---	---	---	11/04/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/05/02	8015 mod.	---	9.2	77.3	98	83.2
Volatiles organics-8260b/BTEX	---	---	---	---	11/04/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	3.1	84.1	93.8	83.2
Ethylbenzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	105.8	111.7	112.2
m,p-Xylenes	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.5	103.4	108.6	111
o-Xylene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	106.5	112.8	116.2
Toluene	<20	µg/Kg	20	<20	11/04/02	8260b	---	9.5	88	106.2	96.1

QUALITY ASSURANCE DATA¹

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Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 CS Carter
Sample Name: CSC102202BH2-10

Report#/Lab ID#: 135851
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.9	50-150	---
p-Terphenyl	8015 mod.	73.2	50-150	---
1,2-Dichloroethane-d4	8260b	86	65-115	---
Toluene-d8	8260b	97.5	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#: 135852 **Report Date:** 11/07/02
Project ID: 2002-10250 CS Carter
Sample Name: CSC102202BH2-15
Sample Matrix: soil
Date Received: 10/30/2002 **Time:** 10:10
Date Sampled: 10/22/2002 **Time:** 14:00

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	11/05/02	8015 mod.	---	11.2	79.6	98	93.3
TPH by GC (as diesel-ext)	---	---	---	---	11/04/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/05/02	8015 mod.	---	9.2	77.3	98	83.2
Volatile organics-8260b/BTEX	---	---	---	---	11/04/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	3.1	84.1	93.8	83.2
Ethylbenzene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	105.8	111.7	112.2
m,p-Xylenes	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.5	103.4	108.6	111
o-Xylene	<20	µg/Kg	20	<20	11/04/02	8260b	---	6.4	106.5	112.8	116.2
Toluene	<20	µg/Kg	20	<20	11/04/02	8260b	---	9.5	88	106.2	96.1

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Richard Laster

Richard Laster

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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2002-10250 CS Carter Sample Name: CSC102202BH2-15	Report#/Lab ID#: 135852 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	51.4	50-150	---
	8015 mod.	61.2	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	94.2	65-115	---
	8260b	105	50-120	---

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

Bill to (if different)

Company Name Environmental Plus
Address
City Pat McGeahand State TX Zip
ATTN: Frank Hernandez
Phone 512 444-5896 Fax 512 444-5896

Company Name Environmental Plus
Address
City Pat McGeahand State TX Zip
ATTN: Frank Hernandez
Phone 512 444-5896 Fax 512 444-5896

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

Project Name/PO#: 2002-10250 Sampler: CS Carlor

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Comments
<u>CS4102202020205</u>	<u>10/23/02</u>	<u>945</u>	<u>1</u>	<u>✓</u>			<u>135847</u>	<u>X</u>
<u>CS4102202020210</u>	<u>10/23/02</u>	<u>930</u>	<u>1</u>	<u>✓</u>			<u>135848</u>	<u>X</u>
<u>CS4102202020215</u>	<u>10/23/02</u>	<u>1000</u>	<u>1</u>	<u>✓</u>			<u>135849</u>	<u>X</u>
<u>CS4102202020220</u>	<u>10/23/02</u>	<u>1300</u>	<u>1</u>	<u>✓</u>			<u>135850</u>	<u>X</u>
<u>CS4102202020225</u>	<u>10/23/02</u>	<u>1330</u>	<u>1</u>	<u>✓</u>			<u>135851</u>	<u>X</u>
<u>CS4102202020230</u>	<u>10/23/02</u>	<u>1400</u>	<u>1</u>	<u>✓</u>			<u>135852</u>	<u>X</u>
<u>CS4102202020235</u>	<u>10/23/02</u>	<u>1445</u>	<u>1</u>	<u>✓</u>			<u>135853</u>	<u>X</u>
<u>CS4102202020240</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135854</u>	<u>X</u>
<u>CS4102202020245</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135855</u>	<u>X</u>
<u>CS4102202020250</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135856</u>	<u>X</u>
<u>CS4102202020255</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135857</u>	<u>X</u>
<u>CS4102202020260</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135858</u>	<u>X</u>
<u>CS4102202020265</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135859</u>	<u>X</u>
<u>CS4102202020270</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135860</u>	<u>X</u>
<u>CS4102202020275</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135861</u>	<u>X</u>
<u>CS4102202020280</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135862</u>	<u>X</u>
<u>CS4102202020285</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135863</u>	<u>X</u>
<u>CS4102202020290</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135864</u>	<u>X</u>
<u>CS4102202020295</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135865</u>	<u>X</u>
<u>CS4102202020300</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135866</u>	<u>X</u>
<u>CS4102202020305</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135867</u>	<u>X</u>
<u>CS4102202020310</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135868</u>	<u>X</u>
<u>CS4102202020315</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135869</u>	<u>X</u>
<u>CS4102202020320</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135870</u>	<u>X</u>
<u>CS4102202020325</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135871</u>	<u>X</u>
<u>CS4102202020330</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135872</u>	<u>X</u>
<u>CS4102202020335</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135873</u>	<u>X</u>
<u>CS4102202020340</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135874</u>	<u>X</u>
<u>CS4102202020345</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135875</u>	<u>X</u>
<u>CS4102202020350</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135876</u>	<u>X</u>
<u>CS4102202020355</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135877</u>	<u>X</u>
<u>CS4102202020360</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135878</u>	<u>X</u>
<u>CS4102202020365</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135879</u>	<u>X</u>
<u>CS4102202020370</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135880</u>	<u>X</u>
<u>CS4102202020375</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135881</u>	<u>X</u>
<u>CS4102202020380</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135882</u>	<u>X</u>
<u>CS4102202020385</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135883</u>	<u>X</u>
<u>CS4102202020390</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135884</u>	<u>X</u>
<u>CS4102202020395</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135885</u>	<u>X</u>
<u>CS4102202020400</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135886</u>	<u>X</u>
<u>CS4102202020405</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135887</u>	<u>X</u>
<u>CS4102202020410</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135888</u>	<u>X</u>
<u>CS4102202020415</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135889</u>	<u>X</u>
<u>CS4102202020420</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135890</u>	<u>X</u>
<u>CS4102202020425</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135891</u>	<u>X</u>
<u>CS4102202020430</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135892</u>	<u>X</u>
<u>CS4102202020435</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135893</u>	<u>X</u>
<u>CS4102202020440</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135894</u>	<u>X</u>
<u>CS4102202020445</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135895</u>	<u>X</u>
<u>CS4102202020450</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135896</u>	<u>X</u>
<u>CS4102202020455</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135897</u>	<u>X</u>
<u>CS4102202020460</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135898</u>	<u>X</u>
<u>CS4102202020465</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135899</u>	<u>X</u>
<u>CS4102202020470</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135900</u>	<u>X</u>
<u>CS4102202020475</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135901</u>	<u>X</u>
<u>CS4102202020480</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135902</u>	<u>X</u>
<u>CS4102202020485</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135903</u>	<u>X</u>
<u>CS4102202020490</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135904</u>	<u>X</u>
<u>CS4102202020495</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135905</u>	<u>X</u>
<u>CS4102202020500</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135906</u>	<u>X</u>
<u>CS4102202020505</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135907</u>	<u>X</u>
<u>CS4102202020510</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135908</u>	<u>X</u>
<u>CS4102202020515</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135909</u>	<u>X</u>
<u>CS4102202020520</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135910</u>	<u>X</u>
<u>CS4102202020525</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135911</u>	<u>X</u>
<u>CS4102202020530</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135912</u>	<u>X</u>
<u>CS4102202020535</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135913</u>	<u>X</u>
<u>CS4102202020540</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135914</u>	<u>X</u>
<u>CS4102202020545</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135915</u>	<u>X</u>
<u>CS4102202020550</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135916</u>	<u>X</u>
<u>CS4102202020555</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135917</u>	<u>X</u>
<u>CS4102202020560</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135918</u>	<u>X</u>
<u>CS4102202020565</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135919</u>	<u>X</u>
<u>CS4102202020570</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135920</u>	<u>X</u>
<u>CS4102202020575</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135921</u>	<u>X</u>
<u>CS4102202020580</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135922</u>	<u>X</u>
<u>CS4102202020585</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135923</u>	<u>X</u>
<u>CS4102202020590</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135924</u>	<u>X</u>
<u>CS4102202020595</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135925</u>	<u>X</u>
<u>CS4102202020600</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135926</u>	<u>X</u>
<u>CS4102202020605</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135927</u>	<u>X</u>
<u>CS4102202020610</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135928</u>	<u>X</u>
<u>CS4102202020615</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135929</u>	<u>X</u>
<u>CS4102202020620</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135930</u>	<u>X</u>
<u>CS4102202020625</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135931</u>	<u>X</u>
<u>CS4102202020630</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135932</u>	<u>X</u>
<u>CS4102202020635</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135933</u>	<u>X</u>
<u>CS4102202020640</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135934</u>	<u>X</u>
<u>CS4102202020645</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135935</u>	<u>X</u>
<u>CS4102202020650</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135936</u>	<u>X</u>
<u>CS4102202020655</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135937</u>	<u>X</u>
<u>CS4102202020660</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135938</u>	<u>X</u>
<u>CS4102202020665</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135939</u>	<u>X</u>
<u>CS4102202020670</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135940</u>	<u>X</u>
<u>CS4102202020675</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135941</u>	<u>X</u>
<u>CS4102202020680</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135942</u>	<u>X</u>
<u>CS4102202020685</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135943</u>	<u>X</u>
<u>CS4102202020690</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135944</u>	<u>X</u>
<u>CS4102202020695</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135945</u>	<u>X</u>
<u>CS4102202020700</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135946</u>	<u>X</u>
<u>CS4102202020705</u>	<u>10/23/02</u>	<u>1455</u>	<u>1</u>	<u>✓</u>			<u>135947</u>	<u>X</u>

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box

Eumice

NM 88231

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

Report#/Lab ID#: 134459 **Report Date:** 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH4-5

Sample Matrix: soil

Date Received: 10/02/2002 **Time:** 10:15

Date Sampled: 09/23/2002 **Time:** 08:15

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	10/11/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/07/02	8015 mod.	J	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/03/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/03/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	<20	µg/Kg	20	<20	10/03/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	<20	µg/Kg	20	<20	10/03/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	<20	µg/Kg	20	<20	10/03/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	<20	µg/Kg	20	<20	10/03/02	8260b	---	7	84	88.1	82.5

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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3512 Montopolis Dr., Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2002-10250 C. S. Cayler Sample Name: SECS92302BH4-5	Report#/Lab ID#: 134459 Sample Matrix: soil
---	--	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	88.5	50-150	---
	8015 mod.	129	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	77.8	65-115	---
	8260b	93.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 134459	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 C. S. Cayler		
Sample Name: SECS92302BH4-5		

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 gasoline)	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#: 134460 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH4-10
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/23/2002 **Time:** 09:00

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)	9.68	mg/Kg	5	<5	10/11/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	10/07/02	8015 mod.	J	0.4	70.5	108.2	70.5
Volatiles organics-8260b/BTEX	---	---	---	---	10/03/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	10/03/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	<20	µg/Kg	20	<20	10/03/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	<20	µg/Kg	20	<20	10/03/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	<20	µg/Kg	20	<20	10/03/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	<20	µg/Kg	20	<20	10/03/02	8260b	---	7	84	88.1	82.5

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

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH4-10

Report#/Lab ID#: 134460
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	86.3	50-150	---
p-Terphenyl	8015 mod.	120	50-150	---
1,2-Dichloroethane-d4	8260b	73.3	65-115	---
Toluene-d8	8260b	82.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 134460	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 C. S. Cayler		
Sample Name: SECSC92302BH4-10		

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M. St Po Box

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NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 134461

Report Date: 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH4-15

Sample Matrix: soil

Date Received: 10/02/2002

Time: 10:15

Date Sampled: 09/23/2002

Time: 09:23

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)	34.8	mg/Kg	5	<5	10/11/02	8015 mod.	---	4.1	79.4 110.2 71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---
TPH by GC (as gasoline)	13.1	mg/Kg	5	<5	10/07/02	8015 mod.	---	0.4 70.5	108.2 70.5
Volatiles organics-8260b/BTEX	---	---	---	---	10/03/02	8260b	---	---	---
Benzene	<20	µg/Kg	20	<20	10/03/02	8260b	---	5 103	82.2 105.1
Ethylbenzene	84.9	µg/Kg	20	<20	10/03/02	8260b	---	6.8 114	119.1 115.7
m,p-Xylenes	141	µg/Kg	20	<20	10/03/02	8260b	---	8.5 107.4	112.2 106.7
o-Xylene	58.6	µg/Kg	20	<20	10/03/02	8260b	---	8.2 95.5	100.9 95.3
Toluene	27.5	µg/Kg	20	<20	10/03/02	8260b	---	7 84	88.1 82.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH4-15

Report#/Lab ID#: 134461
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	108	50-150	---
	8015 mod.	149	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	85.4	65-115	---
	8260b	95.1	50-120	---

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



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Address: 1324 M.St Po Box

Eumice

NM 88231

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

Report#/Lab ID#: 134462 **Report Date:** 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH3-5

Sample Matrix: soil

Date Received: 10/02/2002 **Time:** 10:15

Date Sampled: 09/24/2002 **Time:** 08:00

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)	16200	mg/Kg	500	<500	10/14/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	16700	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	261000	µg/Kg	5000	<5000	10/04/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	260000	µg/Kg	5000	<5000	10/04/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	425000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	144000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	714000	µg/Kg	5000	<5000	10/04/02	8260b	---	7	84	88.1	82.5

QUALITY ASSURANCE DATA¹

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Client: Environmental Plus, Inc.	Project ID: 2002-10250 C. S. Cayler	Report#/Lab ID#: 134462
Attn: Pat McCasland	Sample Name: SECSC92302BH3-5	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	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.

Exceptions Report:

Report #/Lab ID#:134462 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS092302BH3-5

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).

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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
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	
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	
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:



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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#: 134463

Report Date: 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH3-10

Sample Matrix: soil

Date Received: 10/02/2002 **Time:** 10:15

Date Sampled: 09/24/2002 **Time:** 08:30

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)	12000	mg/Kg	500	<500	10/14/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	13400	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatiles organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	253000	µg/Kg	5000	<5000	10/04/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	225000	µg/Kg	5000	<5000	10/04/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	340000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	114000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	575000	µg/Kg	5000	<5000	10/04/02	8260b	---	7	84	88.1	82.5

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Client: Environmental Plus, Inc.	Project ID: 2002-10250 C. S. Caylor	Report#/Lab ID#: 134463
Attn: Pat McCasland	Sample Name: SECS92302BH3-10	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	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.

Exceptions Report:

Report #/Lab ID#: 134463	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 C. S. Cayler		
Sample Name: SECSC92302BH3-10		

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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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.
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.
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:



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

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#: 134464 Report Date: 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECSC92302BH3-15

Sample Matrix: soil

Date Received: 10/02/2002 Time: 10:15

Date Sampled: 09/24/2002 Time: 09:15

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)	8440	mg/Kg	500	<500	10/15/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9470	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	89400	µg/Kg	1000	<1000	10/04/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	131000	µg/Kg	1000	<1000	10/04/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	216000	µg/Kg	1000	<1000	10/04/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	76800	µg/Kg	1000	<1000	10/04/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	225000	µg/Kg	1000	<1000	10/03/02	8260b	---	7	84	88.1	82.5

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.



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

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH3-15

Report#/Lab ID#: 134464
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 134464 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-15

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). 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.
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.
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:



3512 Montopolis Dr., Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M. St Po Box

Eumice

NM 88231

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

Report#/Lab ID#: 134465 Report Date: 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH3-20

Sample Matrix: soil

Date Received: 10/02/2002 Time: 10:15

Date Sampled: 09/24/2002 Time: 09:40

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)	8560	mg/Kg	50	<50	10/12/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	7120	mg/Kg	50	<50	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	30400	µg/Kg	1000	<1000	10/04/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	77400	µg/Kg	1000	<1000	10/04/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	141000	µg/Kg	1000	<1000	10/04/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	50200	µg/Kg	1000	<1000	10/04/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	151000	µg/Kg	1000	<1000	10/04/02	8260b	---	7	84	88.1	82.5

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: 2002-10250 C. S. Caylor
Sample Name: SECSC92302BH3-20

Report#/Lab ID#: 134465
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 134465 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH3-20

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	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	
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	
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:



3512 Montopolis Dr., Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

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#: 134466 **Report Date:** 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECSC92302BH3-25

Sample Matrix: soil

Date Received: 10/02/2002 **Time:** 10:15

Date Sampled: 09/24/2002 **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)	15000	mg/Kg	500	<500	10/15/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	17200	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatiles organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	324000	µg/Kg	5000	<5000	10/04/02	8260b	---	5	103	82.2	105.1
Ethylbenzene	288000	µg/Kg	5000	<5000	10/04/02	8260b	---	6.8	114	119.1	115.7
m,p-Xylenes	463000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.5	107.4	112.2	106.7
o-Xylene	157000	µg/Kg	5000	<5000	10/04/02	8260b	---	8.2	95.5	100.9	95.3
Toluene	706000	µg/Kg	5000	<5000	10/04/02	8260b	---	7	84	88.1	82.5

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: 2002-10250 C. S. Cayler Sample Name: SECS92302BH3-25	Report#/Lab ID#: 134466 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	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.

Exceptions Report:

Report #/Lab ID#:134466	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 C. S. Cayler		
Sample Name: SECSC92302BH3-25		

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

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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
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	
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	
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

Address: 1324 M.St Po Box

Eunice

NM 88231

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

Report#/Lab ID#: 134467 **Report Date:** 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH3-30

Sample Matrix: soil

Date Received: 10/02/2002 **Time:** 10:15

Date Sampled: 09/24/2002 **Time:** 11:00

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)	17500	mg/Kg	500	<500	10/15/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	19300	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	361000	µg/Kg	5000	<5000	10/04/02	8260b	---	11.8	94.1	80.1	128.6
Ethylbenzene	345000	µg/Kg	5000	<5000	10/04/02	8260b	---	1.4	112.7	112.2	119.9
m,p-Xylenes	530000	µg/Kg	5000	<5000	10/04/02	8260b	---	3.4	104.5	113.5	110
o-Xylene	179000	µg/Kg	5000	<5000	10/04/02	8260b	---	3.1	93.5	103.3	99.4
Toluene	791000	µg/Kg	5000	<5000	10/04/02	8260b	---	4.1	76.1	84.1	104.6

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.	Project ID: 2002-10250 C. S. Cayler	Report#/Lab ID#: 134467
Attn: Pat McCasland	Sample Name: SECS92302BH3-30	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	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.

Exceptions Report:

Report #/Lab ID#: 134467 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS092302BH3-30

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.
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J flag Discussion

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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.
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.
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

Address: 1324 M.St Po Box

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 134468

Report Date: 10/16/02

Project ID: 2002-10250 C. S. Cayler

Sample Name: SECS92302BH3-35

Sample Matrix: soil

Date Received: 10/02/2002

Time: 10:15

Date Sampled: 09/24/2002

Time: 11:50

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)	9310	mg/Kg	50	<50	10/12/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9850	mg/Kg	50	<50	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatiles organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	45400	µg/Kg	1000	<1000	10/04/02	8260b	---	11.8	94.1	80.1	128.6
Ethylbenzene	109000	µg/Kg	1000	<1000	10/04/02	8260b	---	1.4	112.7	112.2	119.9
m,p-Xylenes	179000	µg/Kg	1000	<1000	10/04/02	8260b	---	3.4	104.5	113.5	110
o-Xylene	64200	µg/Kg	1000	<1000	10/04/02	8260b	---	3.1	93.5	103.3	99.4
Toluene	215000	µg/Kg	1000	<1000	10/04/02	8260b	---	4.1	76.1	84.1	104.6

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 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: 2002-10250 C. S. Cayler Sample Name: SECS92302BH3-35	Report#/Lab ID#: 134468 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

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

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

Exceptions Report:

Report #/Lab ID#: 134468	Matrix: soil	Attn: Pat McCasland
Client: Environmental Plus, Inc.		
Project ID: 2002-10250 C. S. Cayler		
Sample Name: SECSC92302BH3-35		

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.

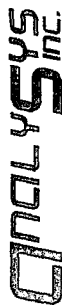
J flag Discussion

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
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.
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.
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:



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

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#: 134469 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH3-40
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **Time:** 13:15

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)	9710	mg/Kg	500	<500	10/15/02	8015 mod.	---	4.1	79.4	110.2	71
TPH by GC (as diesel-ext)	---	---	---	---	10/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	11400	mg/Kg	500	<500	10/07/02	8015 mod.	---	0.4	70.5	108.2	70.5
Volatile organics-8260b/BTEX	---	---	---	---	10/04/02	8260b	---	---	---	---	---
Benzene	160000	µg/Kg	5000	<5000	10/04/02	8260b	---	11.8	94.1	80.1	128.6
Ethylbenzene	199000	µg/Kg	5000	<5000	10/04/02	8260b	---	1.4	112.7	112.2	119.9
m,p-Xylenes	336000	µg/Kg	5000	<5000	10/04/02	8260b	---	3.4	104.5	113.5	110
o-Xylene	110000	µg/Kg	5000	<5000	10/04/02	8260b	---	3.1	93.5	103.3	99.4
Toluene	430000	µg/Kg	5000	<5000	10/04/02	8260b	---	4.1	76.1	84.1	104.6

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 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: 2002-10250 C. S. Cayler
Sample Name: SECS92302BH3-40

Report#/Lab ID#: 134469
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5 p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	none/diluted	diluted @ 250X	D
	8260b	none/diluted	diluted @ 250X	D

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

Exceptions Report:

Report #/Lab ID#: 134469 Matrix: soil
Client: Environmental Plus, Inc. Atn: Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-40

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.
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.
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:

מבשר

Bill to (if different):

4221 Freidrich Lane, Suite 190, Austin, TX 78744

E.O. 1.1. Energy

PO Box 1660

Midland TX 79702

Attn. Frank Hernandez

Fax: (512) 447-4766

Coody Miller
Executive Vice President

[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/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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
☒ Cody Miller	Environmental Plus Inc.	9-24-02	—	McLone, Anthony	ASI	10/08/02	10:15

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

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 FAX: (505) 394-2601

Report# Lab ID#: 162913 Report Date: 12/27/04
Project ID: 2002-10250
Sample Name: NW
Sample Matrix: soil
Date Received: 12/22/2004 Time: 10:20
Date Sampled: 12/16/2004 Time: 10:57

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)	741	mg/Kg	2.5	<2.5	12/27/04	8015 mod.	S,M	0	Mt.Intf.	90.8	82.6
TPH by GC (as diesel-ext)	---	---	---	---	12/23/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/27/04	8015 mod.	---	8.1	98.1	92.8	97.4

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 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.

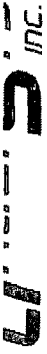
Respectfully Submitted,



Dale Wagner

QUALITY ASSURANCE DATA 1

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.



2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2002-10250
Sample Name: NW

Report#/Lab ID#: 162913
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	79.9	30-125	---
p-Terphenyl	8015 mod.	195	30-160	X

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

Report #/Lab ID#: 1025 J3 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250
Sample Name: NW

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
p-Terphenyl	X	Surrogate recovery outside advisory/acceptance limits. Typically, for samples with TPH/1005 hits, high recoveries are due to co-elution of
p-Terphenyl	X	hydrocarbons from the sample at the same retention time as the surrogate

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 162914 **Report Date:** 12/27/04
Project ID: 2002-10250
Sample Name: NE
Sample Matrix: soil
Date Received: 12/22/2004 **Time:** 10:20
Date Sampled: 12/16/2004 **Time:** 11:12

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)	1000	mg/Kg	5	<5	12/27/04	8015 mod.	S,M	0	Mt.Intf.	90.8	82.6
TPH by GC (as diesel-ext)	---	---	---	---	12/23/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/27/04	8015 mod.	---	8.1	98.1	92.8	97.4

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Respectfully Submitted,

Dale Wagner

QUALITY ASSURANCE DATA 1

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: Pat McCasland

Project ID: 2002-10250
Sample Name: NE

Report#/Lab ID#: 162914
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	86	30-125	---
p-Terphenyl	8015 mod.	146	30-160	---

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

Report #/Lab ID#: 162914 Matrix: soil

Client: Environmental Plus, Inc.

Project ID: 2002-10250

Sample Name: NE

Attn: Pat McCasland

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

- Sample Bottles & Preservation:**
- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
 - ☐ Sample received in appropriate container(s). State of sample preservation unknown.
 - ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

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)	72.2	mg/Kg	2.5	<2.5	12/27/04	8015 mod.	S.M	0	Mt.Intf.	90.8	82.6
TPH by GC (as diesel-ext)	---	---	---	---	12/23/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/27/04	8015 mod.	---	8.1	98.1	92.8	97.4

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Respectfully Submitted,



Dale Wagner

Report#/Lab ID#: 162915 Report Date: 12/27/04
Project ID: 2002-10250
Sample Name: SE
Sample Matrix: soil
Date Received: 12/22/2004 Time: 10:20
Date Sampled: 12/16/2004 Time: 11:23

QUALITY ASSURANCE DATA 1

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: Pat McCasland	Project ID: 2002-10250 Sample Name: SE	Report#/Lab ID#: 162915 Sample Matrix: soil
---	---	--

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	92.6	30-125	---
p-Terphenyl	8015 mod.	120	30-160	---

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

Report #/Lab ID#: 162915 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250
Sample Name: SE

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

Notes:



Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 162916 **Report Date:** 12/27/04
Project ID: 2002-10250
Sample Name: SW
Sample Matrix: soil
Date Received: 12/22/2004 **Time:** 10:20
Date Sampled: 12/16/2004 **Time:** 11:31

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)	492	mg/Kg	2.5	<2.5	12/27/04	8015 mod.	S,M	0	Mt.Intf.	90.8	82.6
TPH by GC (as diesel-ext)	---	---	---	---	12/23/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	12/27/04	8015 mod.	---	8.1	98.1	92.8	97.4

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 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 & SI = 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: 2002-10250
Sample Name: SW

Report#/Lab ID#: 162916
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	91.7	30-125	---
p-Terphenyl	8015 mod.	178	30-160	X

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

Report #/Lab ID#: 162916 Matrix: soil
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2002-10250
Sample Name: SW

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	S, M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
p-Terphenyl	X	Surrogate recovery outside advisory/acceptance limits. Typically, for samples with TPH/1005 hits, high recoveries are due to co-elution of
p-Terphenyl	X	hydrocarbons from the sample at the same retention time as the surrogate

Notes:

Chain of Custody Form

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

EPI Form "Analysis Analysis Inc Chain of Custody.xls"

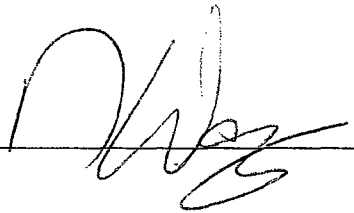
Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 2002-10250

Attn: Pat McCasland

for Sample #'s: 162913 thru 162916

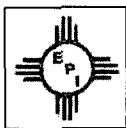
Analyzed by AnalySys, Inc.

Final Review Date: 12/29/2004 By:  (D. Wagner)

Case Narrative:

The recovery of Diesel Range Organics (DRO) in the Matrix Spikes (MS&MSD) for the analytical batch that contained sample #'s 162913 thru 162916 was below normal laboratory acceptance criteria. High levels of DRO compounds found in the randomly selected spiked sample interfered with spike recoveries as evidenced by the Matrix Interference (Mt.Intf.) flags seen in the recovery column of the data package. The Laboratory Control Sample (LCS) run with this batch met recovery acceptance criteria for DRO indicating that the analytical method was operating correctly and in control. Although the spike recoveries were below normal acceptance criteria for DRO, none of the above referenced samples were the spiked sample. When viewed within the context of the passing LCS data, this deviation in spike recovery should have minimal impact on data usability.

Appendix III: Monitoring Well Construction Diagrams



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Monitoring Well Construction Information Standard Well

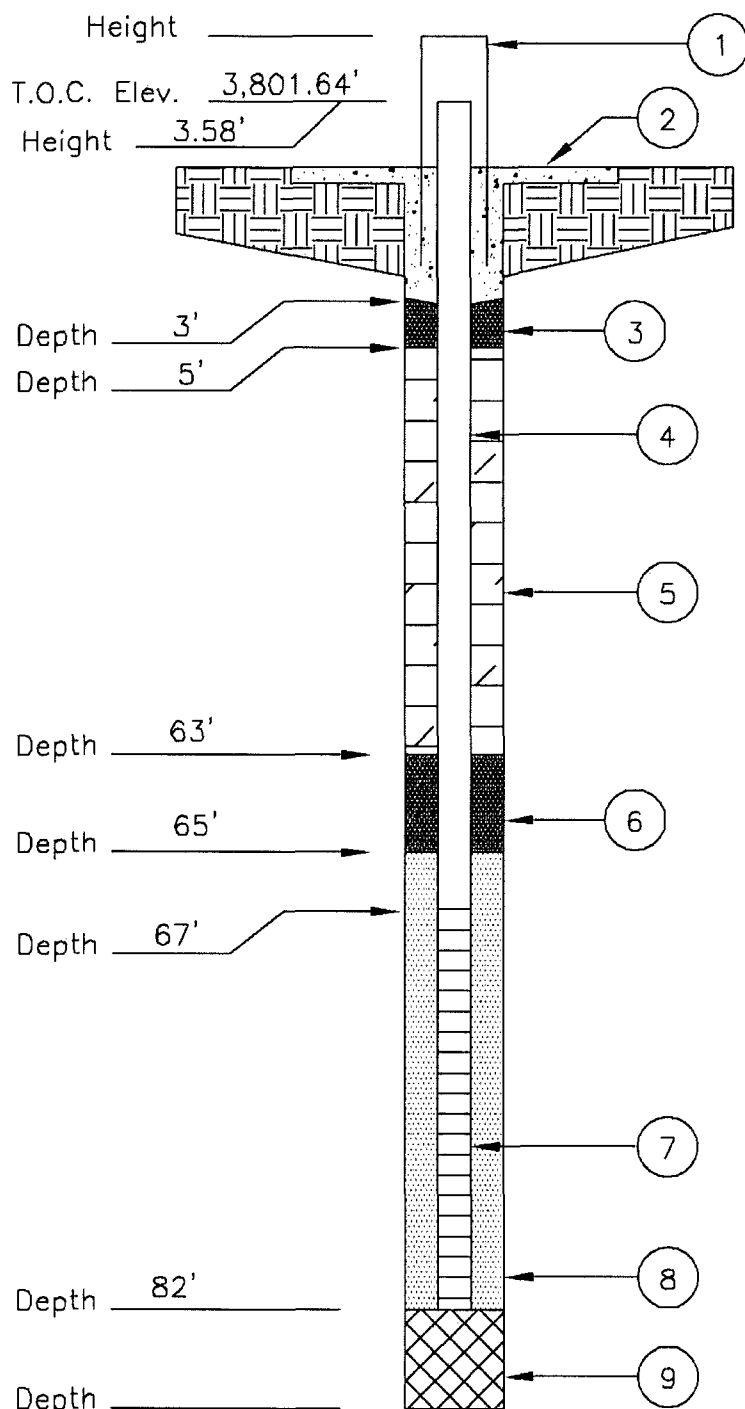
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

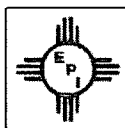
Date: 10-17-02

Field Representative: B. Blevins

Boring / Well No. MW-1



- 1) Protective Casing ☒ Yes ☐ No
Locking ☒ Yes ☐ No
Protective Posts ☐ Yes ☒ No
Concrete Pyramid ☐ Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
Solid Pipe Length 70.58' ft.
Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
Screen Length 15 ft.
Slot Size .010"
Length 15 ft.
Screen Diameter 2 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8 1/2 in.
Sampling Spoon Diameter 6 1/8"



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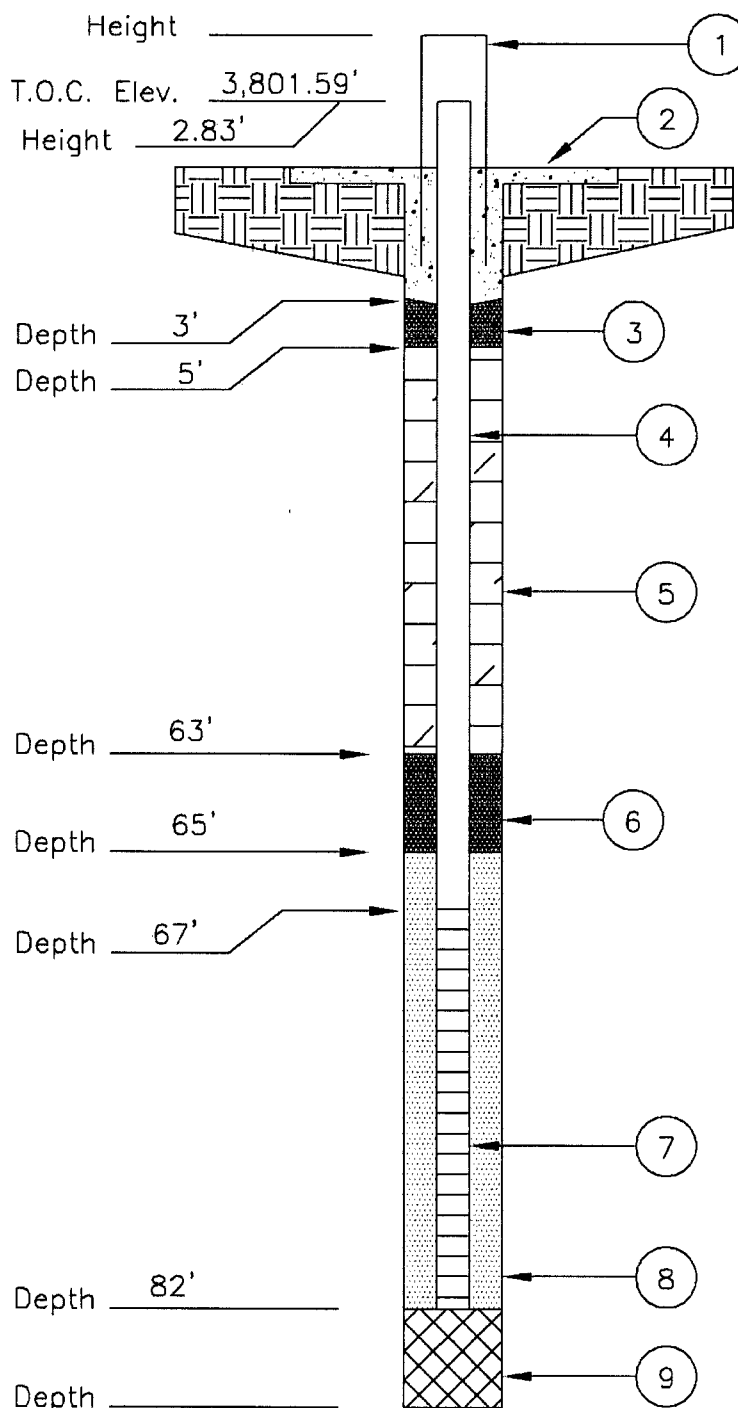
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

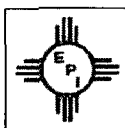
Date: 5-27-04

Field Representative: M. Burkett

Boring / Well No. MW-2



- 1) Protective Casing ☒ Yes ☐ No
 Locking ☒ Yes ☐ No
 Protective Posts Yes ☒ No
 Concrete Pyramid Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
 Solid Pipe Length 69.83' ft.
 Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
 Screen Length 15 ft.
 Slot Size .010"
 Length 15 ft.
 Screen Diameter 4 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8 3/4 in.
 Sampling Spoon Diameter 6 1/8"



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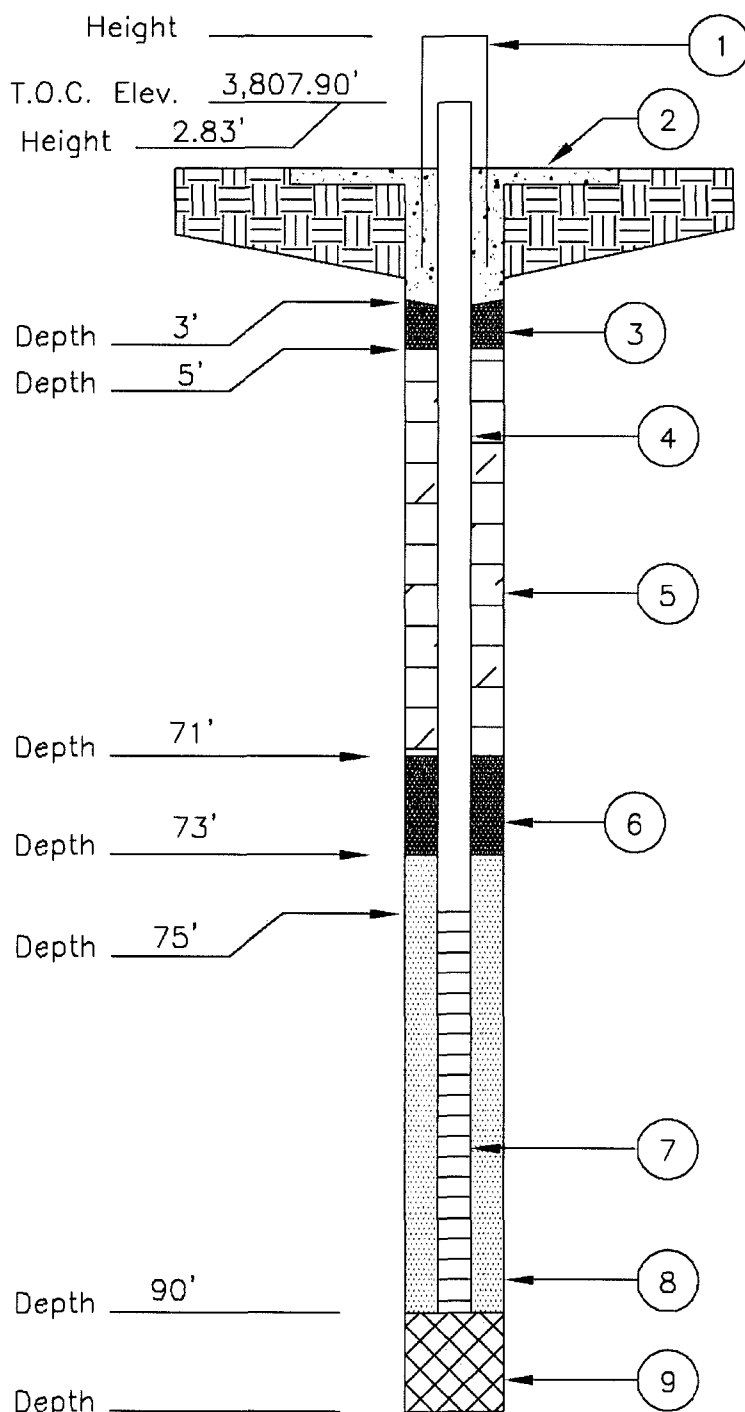
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

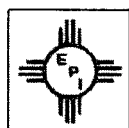
Date: 6-9-04

Field Representative: E. Harper

Boring/Monitoring Well No. MW-3



- 1) Protective Casing ☒ Yes ☐ No
Locking ☒ Yes ☐ No
Protective Posts ☐ Yes ☒ No
Concrete Pyramid ☐ Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
Solid Pipe Length 77.83 ft.
Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
Screen Length 15 ft.
Slot Size .010"
Length 15 ft.
Screen Diameter 4 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8 3/4 in.
Sampling Spoon Diameter 6 1/8"



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Monitoring Well Construction Information Standard Well

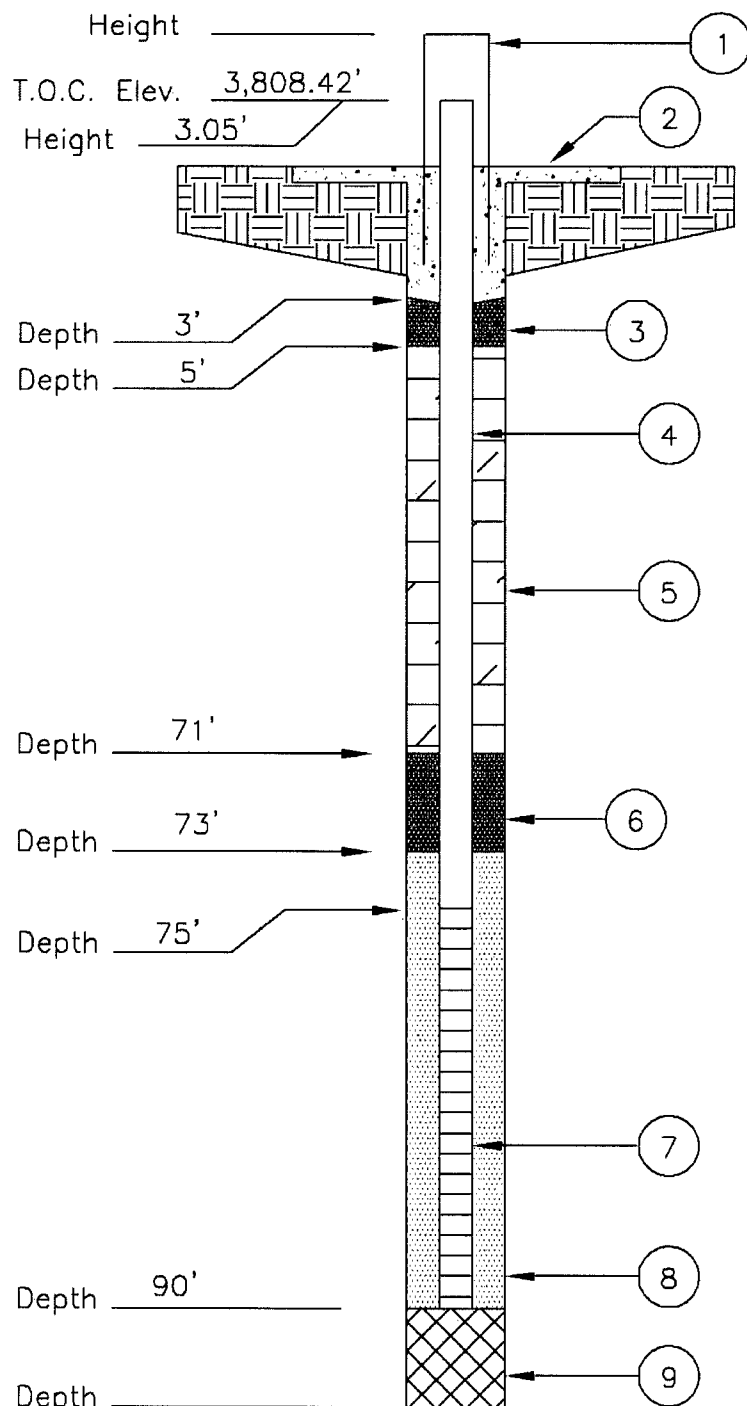
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

Date: 6-15-04

Field Representative: E. Harper

Boring/Monitoring Well No. MW-4



- 1) Protective Casing

☒ Yes	☐ No
☒ Locking	☐ No
☒ Protective Pasts	☒ No
☒ Concrete Pyramid	☒ No
- 2) Concrete Seal

☒ Yes	☐ No
---	-----------------------------
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
Solid Pipe Length 78.05 ft.
Joint Type Slip/Glued or Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
Screen Length 15 ft.
Slot Size .010"
Length 15 ft.
Screen Diameter 4 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8 3/4 in.
Sampling Spoon Diameter 6 1/8"



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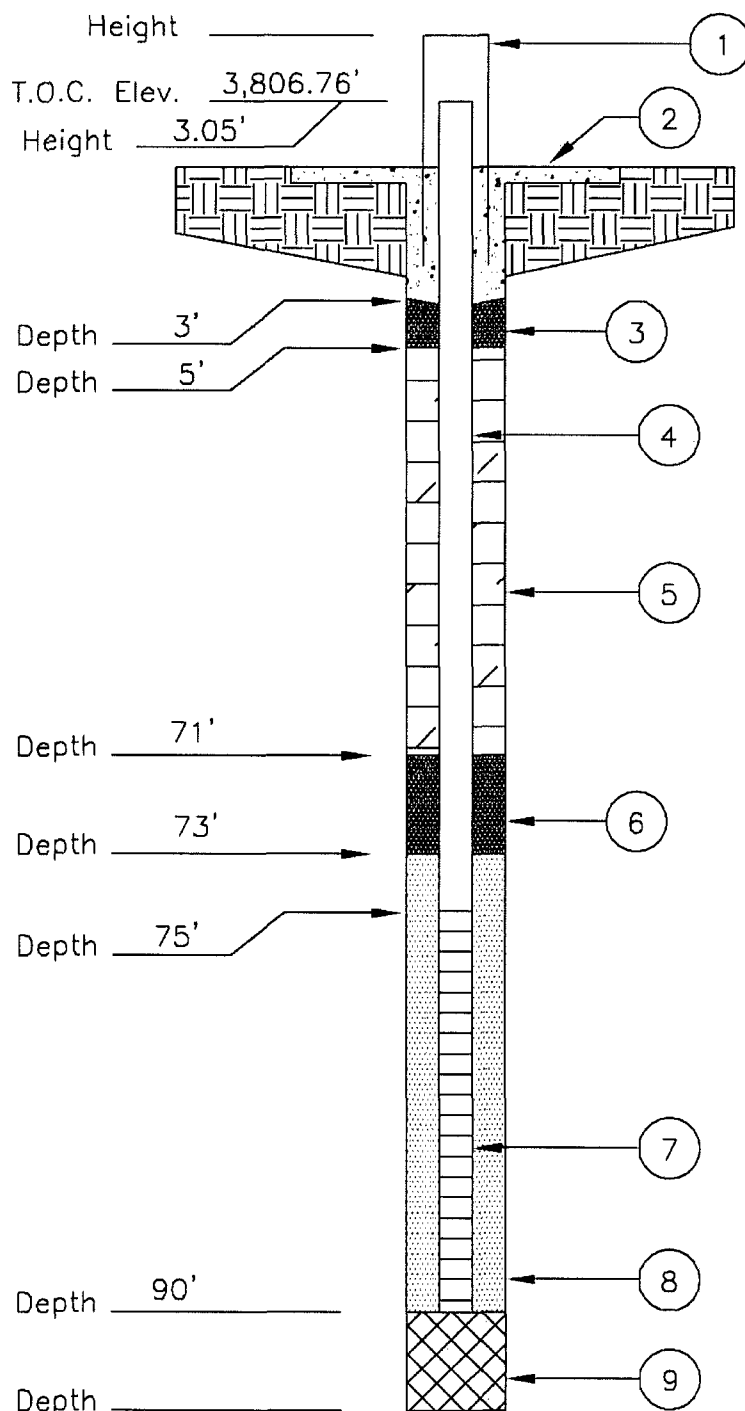
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

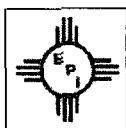
Date: 6-15-04

Field Representative: E. Harper

Boring/Monitoring Well No. MW-5



- 1) Protective Casing ☒ Yes ☐ No
 Locking ☒ Yes ☐ No
 Protective Pasts Yes ☒ No
 Concrete Pyramid Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
 Solid Pipe Length 78.05 ft.
 Joint Type Slip/Glued or Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
 Screen Length 15 ft.
 Slot Size .010"
 Length 15 ft.
 Screen Diameter 4 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Air Rotary
- 11) Additives Used if any None
- 12) Borehole Diameter 8 3/4 in.
 Sampling Spoon Diameter 6 1/8"



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Monitoring Well Construction Information Standard Well

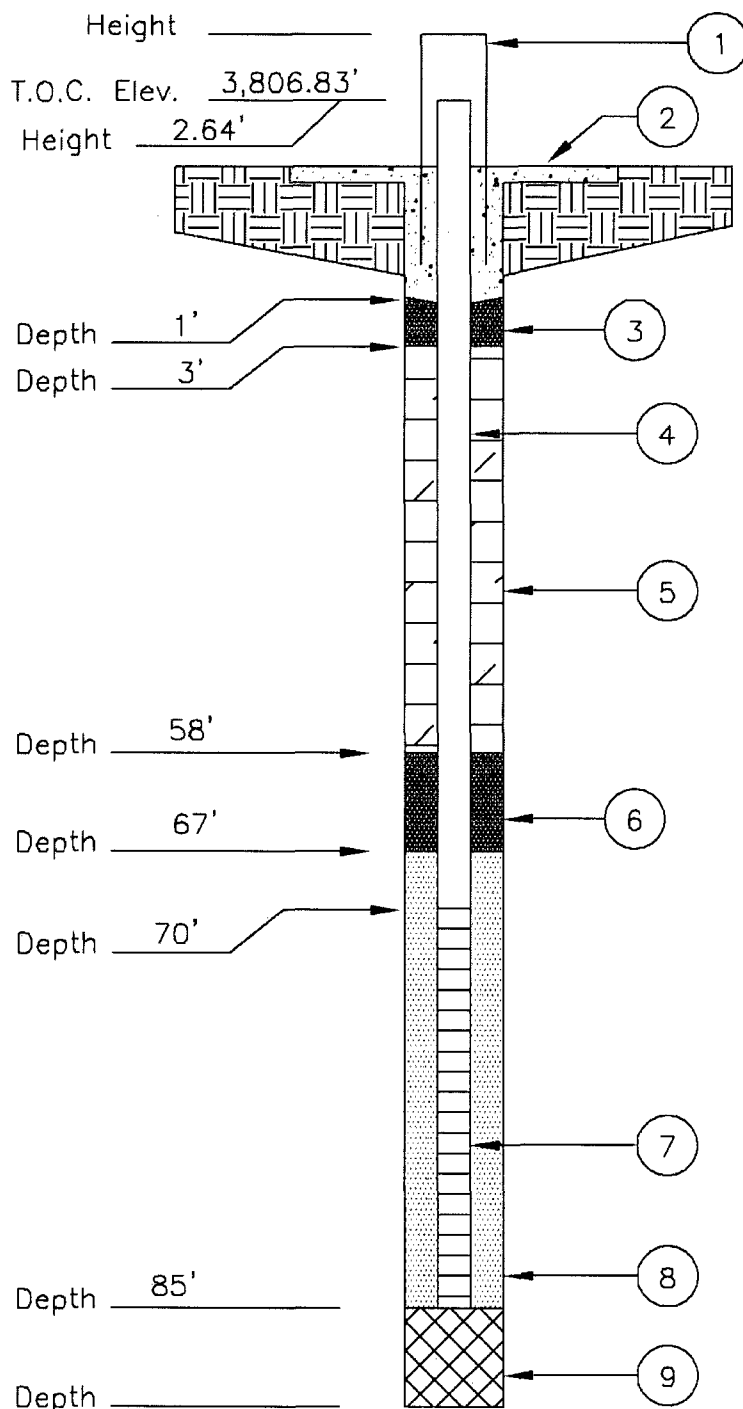
Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

Date: 10-21-04

Field Representative: J. Robinson

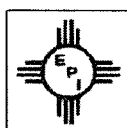
Boring/Monitoring Well No. MW-6



- 1) Protective Casing

☒ Yes	☐ No
☒ Locking	☐ No
☐ Protective Posts	☒ No
☐ Concrete Pyramid	☒ No
- 2) Concrete Seal

☒ Yes	☐ No
---	-----------------------------
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
Solid Pipe Length 72.64 ft.
Joint Type Slip/Glued or Threaded Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
Screen Length 15 ft.
Slot Size .020"
Length 15 ft.
Screen Diameter 2 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Hallow Stem Auger
- 11) Additives Used if any Fresh Water
- 12) Borehole Diameter 8 1/4 in.
Sampling Spoon Diameter 4-1/4" ID



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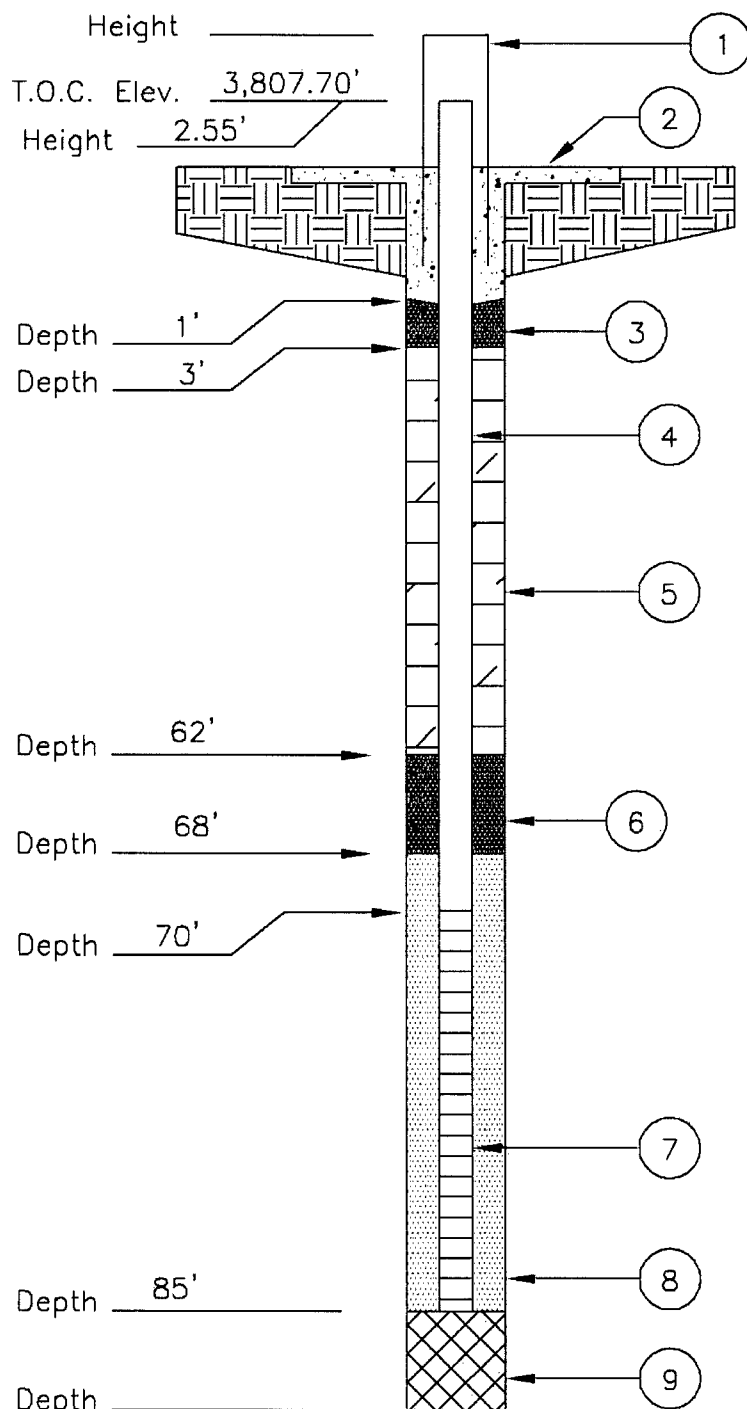
Monitoring Well Construction Information Standard Well

Job No.: Plains Marketing, L.P. ref. #2002-10250

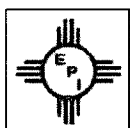
Job Name: C.S. Caylor

Date: 10-21-04

Field Representative: J. Robinson Boring/Monitoring Well No. MW-7



- 1) Protective Casing ☒ Yes ☐ No
 Locking ☒ Yes ☐ No
 Protective Pasts ☒ Yes ☐ No
 Concrete Pyramid ☒ Yes ☐ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
 Solid Pipe Length 72.64 ft.
 Joint Type Slip/Glued or
Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
 Screen Length 15 ft.
 Slot Size .020"
 Length 15 ft.
 Screen Diameter 2 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Hallow Stem Auger
- 11) Additives Used if any Fresh Water
- 12) Borehole Diameter 8 1/4 in.
 Sampling Spoon Diameter 4-1/4" ID



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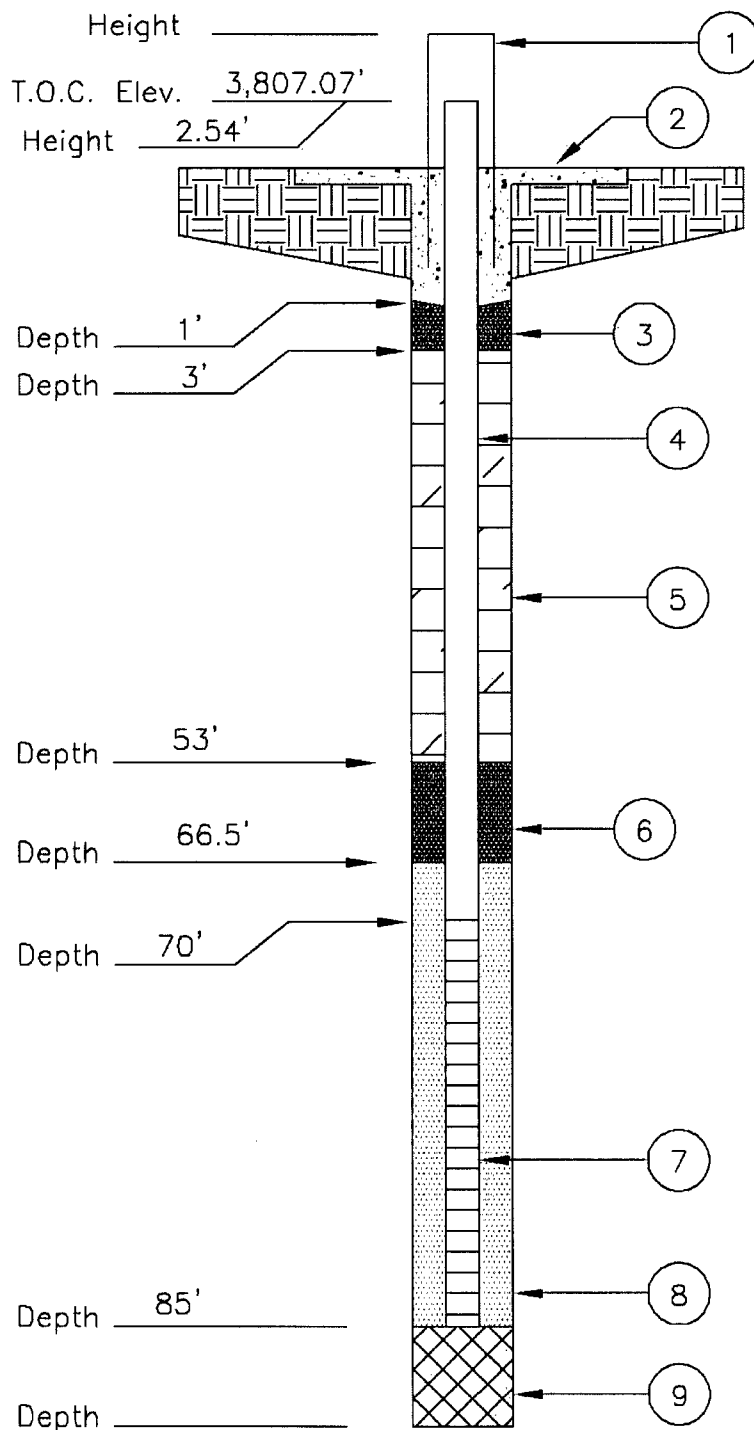
Monitoring Well Construction Information Standard Well

Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

Date: 10-20-04

Field Representative: J. Robinson Boring/Monitoring Well No. MW-8



1) Protective Casing ☒ Yes ☐ No
Locking ☒ Yes ☐ No
Protective Posts ☒ Yes ☐ No
Concrete Pyramid ☒ Yes ☐ No

2) Concrete Seal ☒ Yes ☐ No

3) Type of Surface Seal if
Installed Bentonite Chips

4) Solid Pipe Type PVC

Solid Pipe Length 72.54 ft.

Joint Type Slip/Glued or
Threaded

5) Type of Backfill Bentonite Chips

6) Type of Lower Seal if
Installed Bentonite Chips

7) Screen Type PVC with well point
Screen Length 15 ft.

Slot Size .020"
Length 15 ft.

Screen Diameter 2 in.

8) Type of Backfill around
Screen 1220 sand

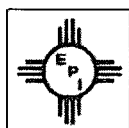
9) Type of Backfill NA

10) Drilling Method Hollow Stem Auger

11) Additives Used if any Fresh Water

12) Borehole Diameter 8 1/4 in.

Sampling Spoon Diameter 4-1/4" ID



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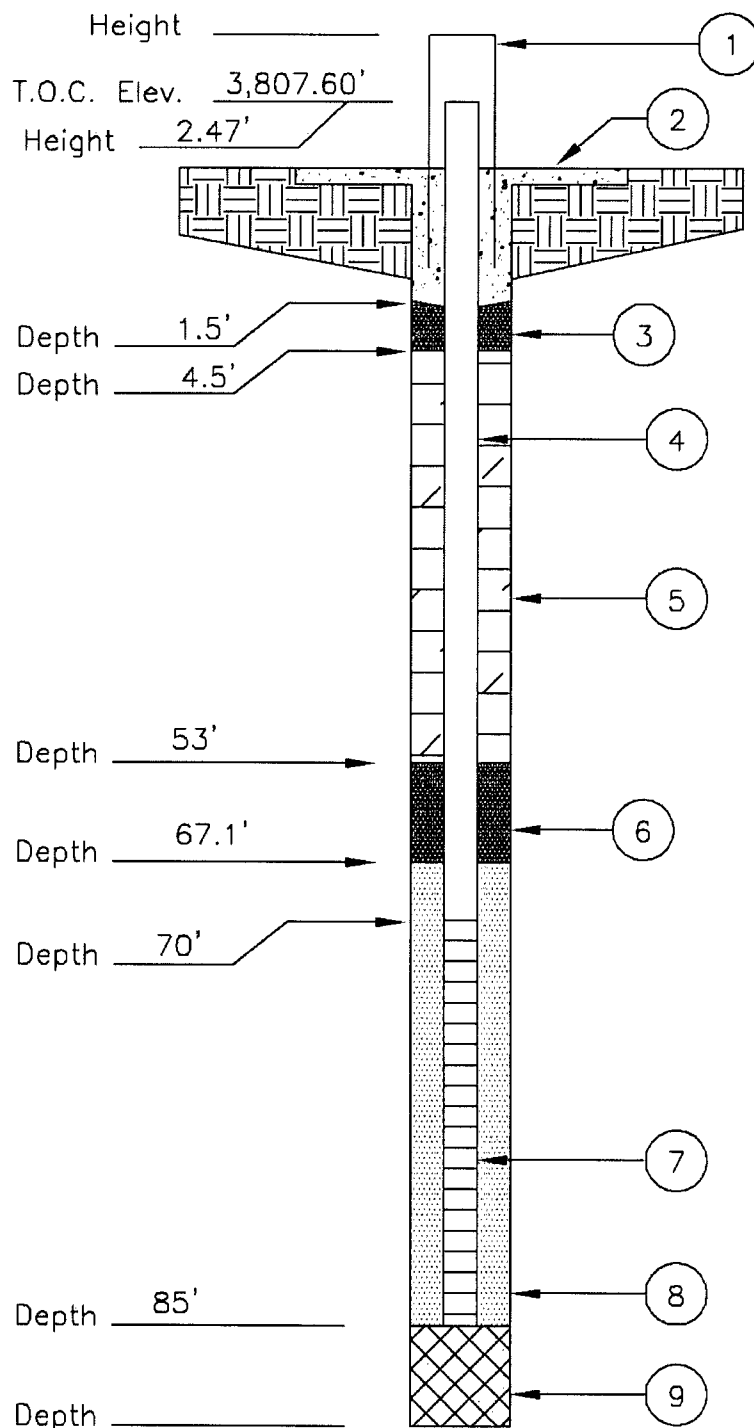
Monitoring Well Construction Information Standard Well

Job No.: Plains Marketing, L.P. ref. #2002-10250

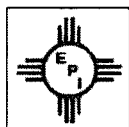
Job Name: C.S. Caylor

Date: 10-19-04

Field Representative: J. Robinson Boring/Monitoring Well No. MW-9



- 1) Protective Casing ☒ Yes ☐ No
 Locking ☒ Yes ☐ No
 Protective Posts ☐ Yes ☒ No
 Concrete Pyramid ☐ Yes ☒ No
- 2) Concrete Seal ☒ Yes ☐ No
- 3) Type of Surface Seal if Installed Bentonite Chips
- 4) Solid Pipe Type PVC
 Solid Pipe Length 72.47 ft.
 Joint Type Slip/Glued or Threaded
- 5) Type of Backfill Bentonite Chips
- 6) Type of Lower Seal if Installed Bentonite Chips
- 7) Screen Type PVC with well point
 Screen Length 15 ft.
 Slot Size .020"
 Length 15 ft.
 Screen Diameter 2 in.
- 8) Type of Backfill around Screen 1220 sand
- 9) Type of Backfill NA
- 10) Drilling Method Hollow Stem Auger
- 11) Additives Used if any Fresh Water
- 12) Borehole Diameter 8 1/4 in.
 Sampling Spoon Diameter 4-1/4" ID



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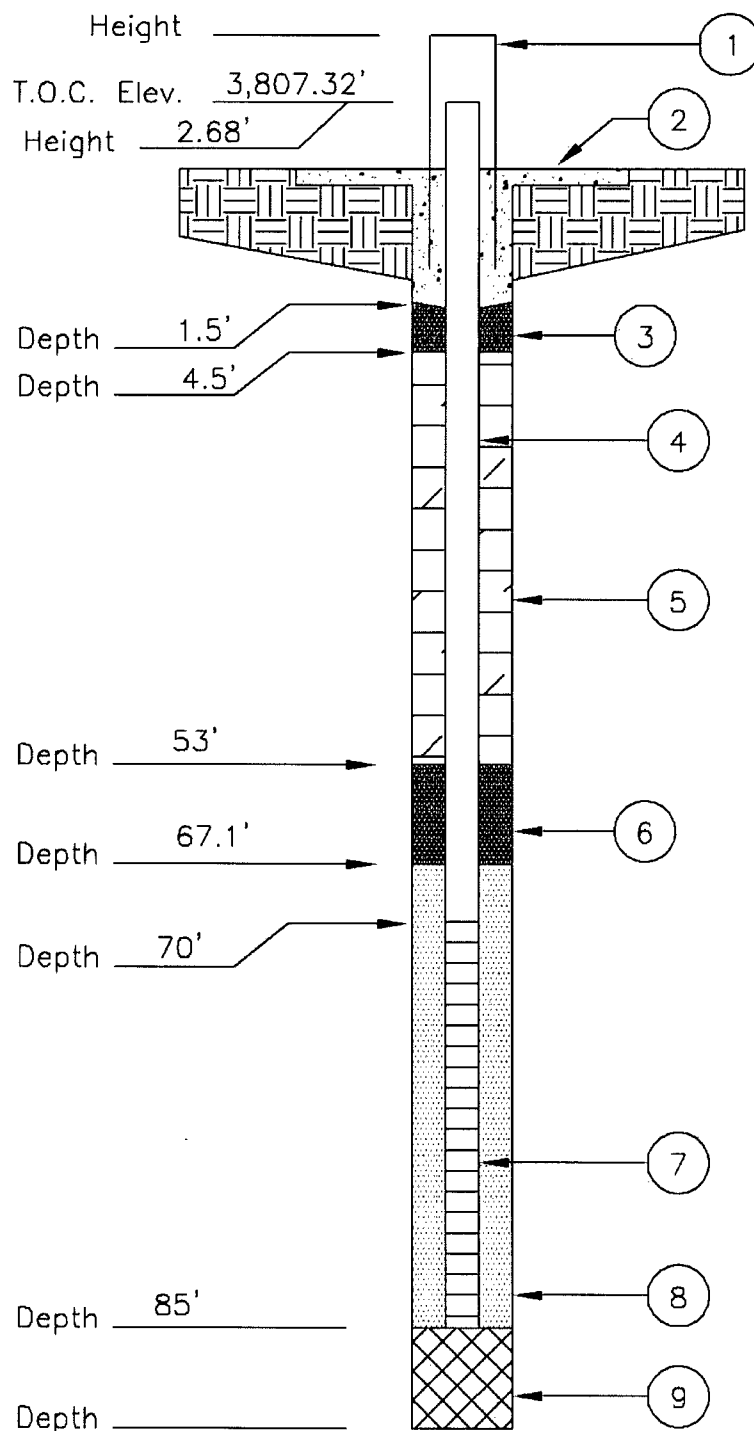
Monitoring Well Construction Information Standard Well

Job No.: Plains Marketing, L.P. ref. #2002-10250

Job Name: C.S. Caylor

Date: 10-20-04

Field Representative: J. Robinson Boring/Monitoring Well No. MW-10



- 1) Protective Casing ☒ Yes ☐ No
 Locking ☒ Yes ☐ No
 Protective Posts ☐ Yes ☒ No
 Concrete Pyramid ☐ Yes ☒ No

- 2) Concrete Seal ☒ Yes ☐ No

- 3) Type of Surface Seal if
 Installed Bentonite Chips

- 4) Solid Pipe Type PVC

Solid Pipe Length 72.68' ft.

Joint Type Slip/Glued or
Threaded

- 5) Type of Backfill Bentonite Chips

- 6) Type of Lower Seal if
 Installed Bentonite Chips

- 7) Screen Type PVC with well point
 Screen Length 15 ft.

Slot Size .020"
 Length 15 ft.

Screen Diameter 2 in.

- 8) Type of Backfill around
 Screen 1220 sand

- 9) Type of Backfill NA

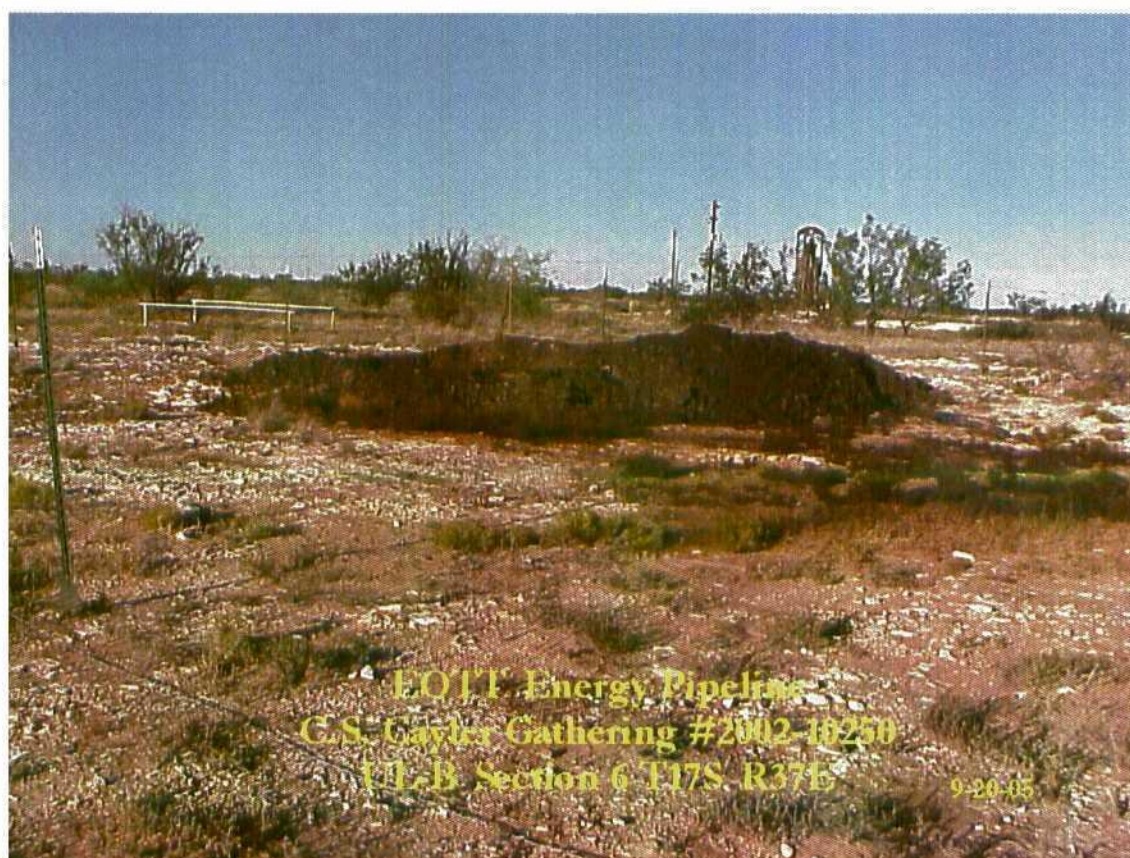
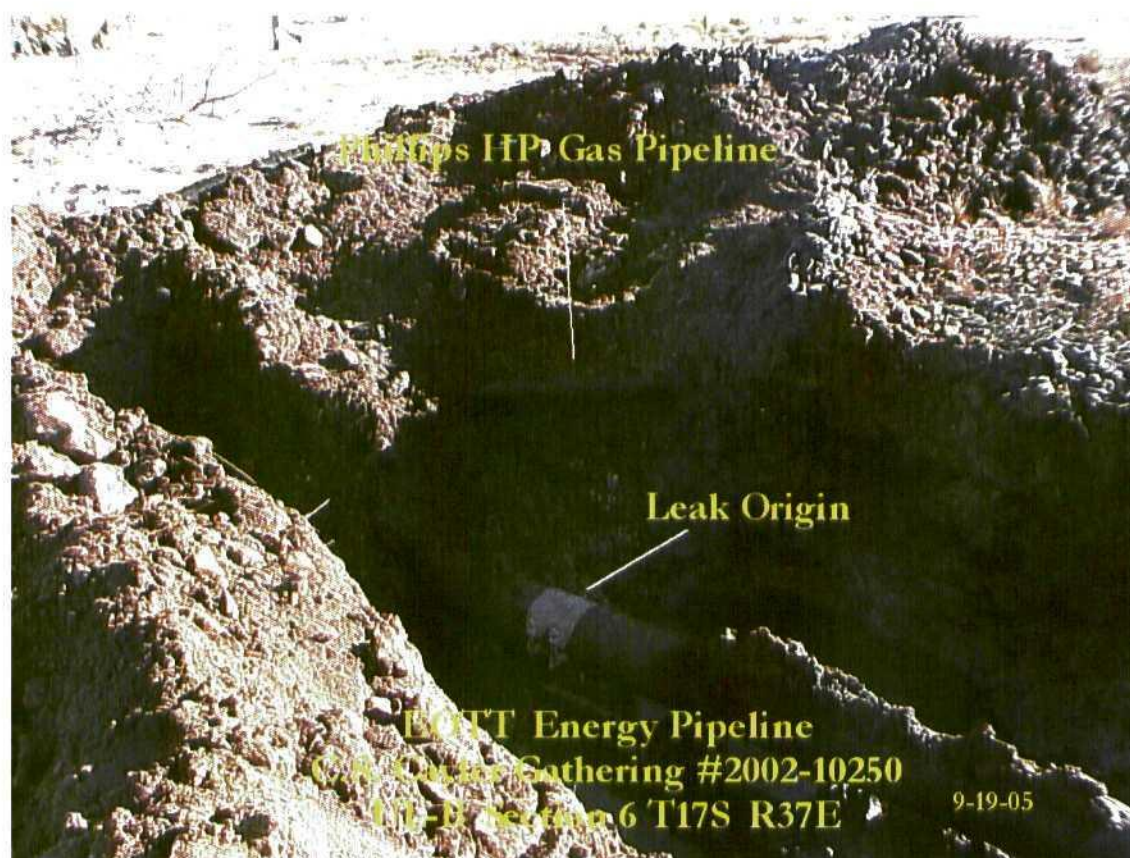
- 10) Drilling Method Hollow Stem Auger

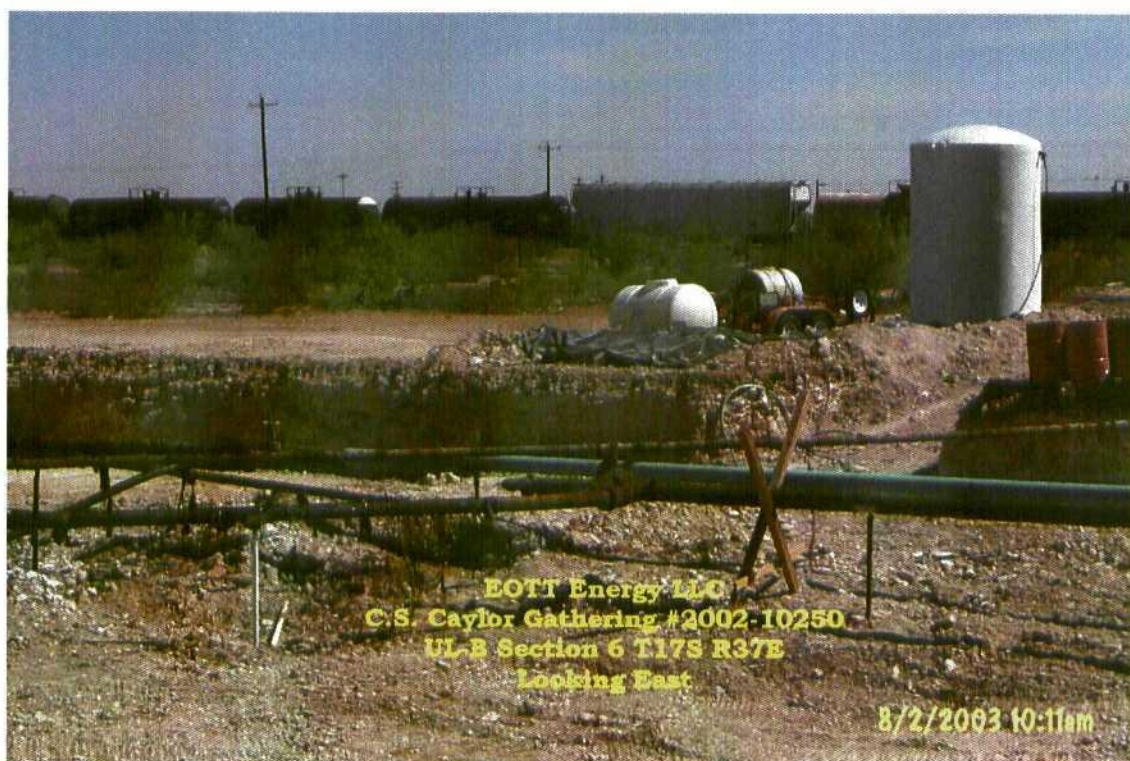
- 11) Additives Used if any Fresh Water

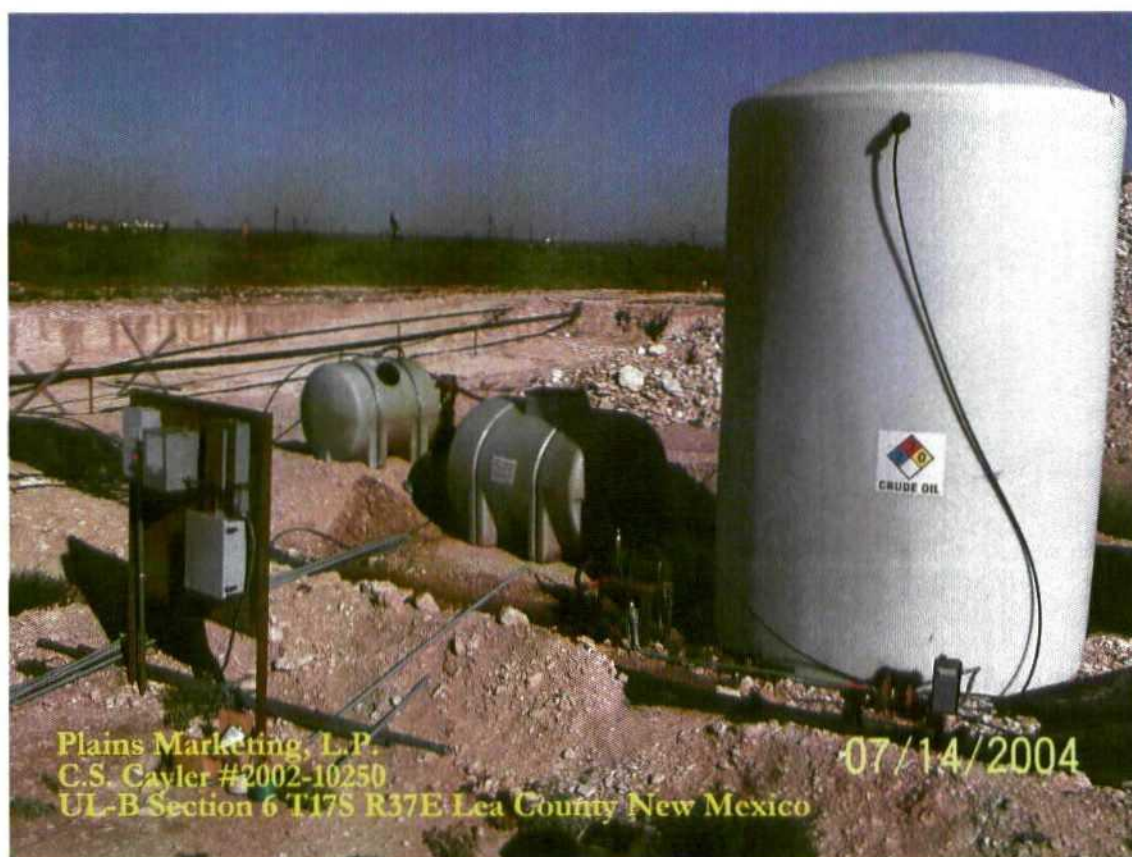
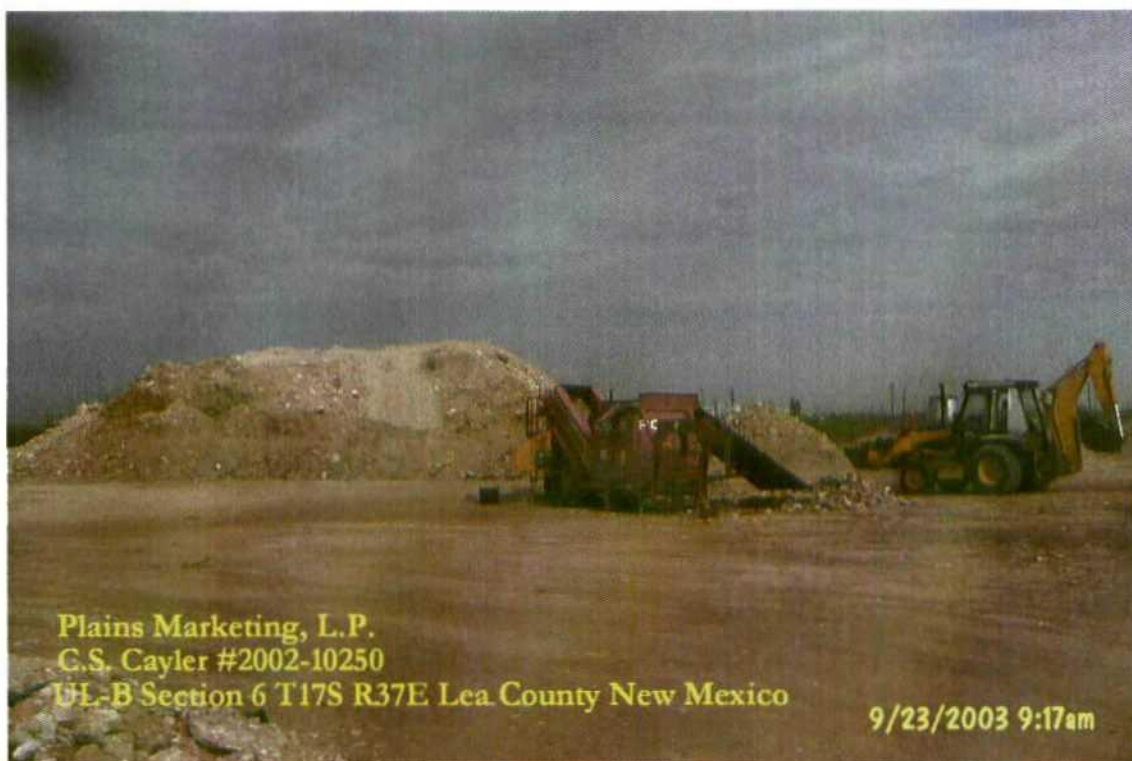
- 12) Borehole Diameter 8 1/4 in.

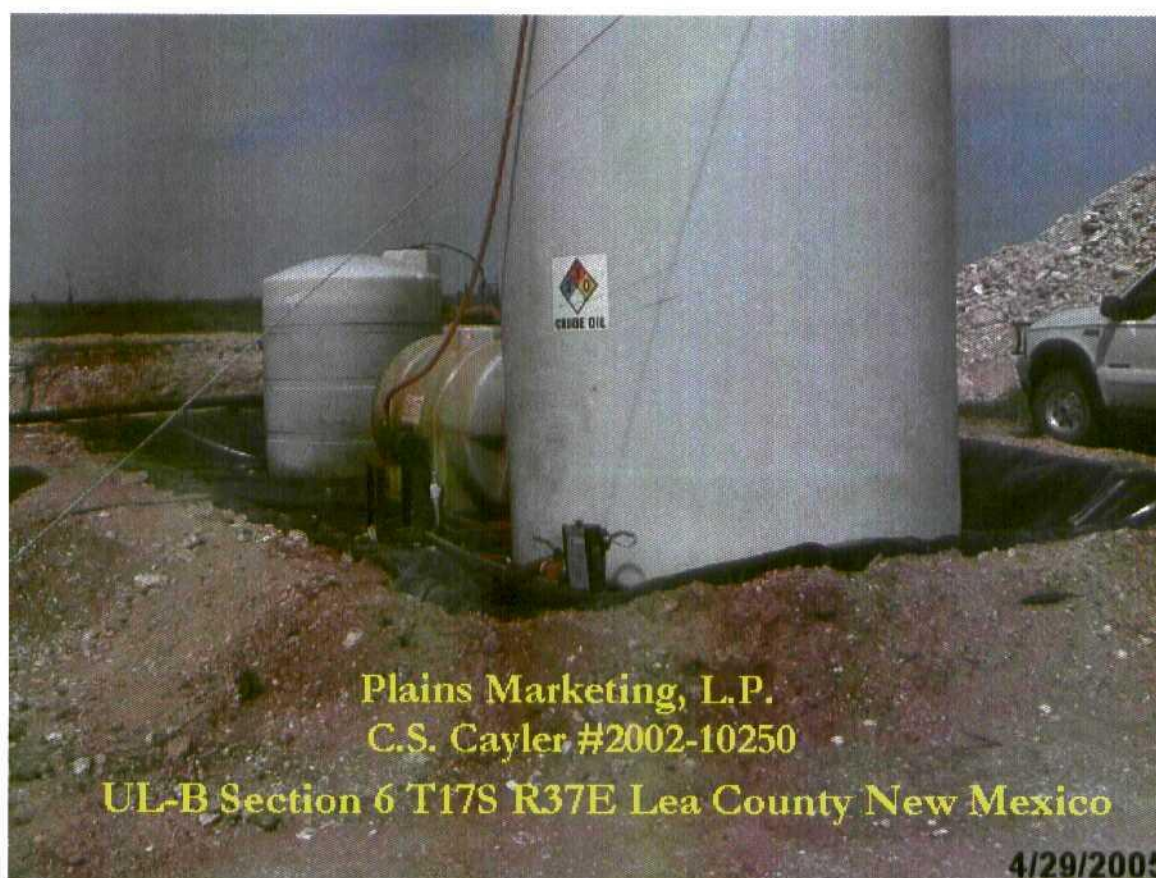
Sampling Spoon Diameter 4-1/4" ID

Appendix IV: Photographs









Appendix V: Quality Assurance Project Plan

1.0 QUALITY ASSURANCE PROJECT PLAN

This Quality Assurance Plan (QAP) will ensure the quality and usability of information and data used to support a successful site investigation and subsequent environmental management decisions.

1.1.1 Data Quality Objectives

For analytical information derived from samples, the following quality controls will be documented and verified. If data is within the specifications it will be deemed quantitative and acceptable for use in making environmental management decisions.

- Laboratory data must have extraction recovery for TPH, BTEX and general chemistry parameters $\leq 30.0\%$. Or a “% Extraction Accuracy” between 70 and 130%.
- Laboratory data must have $<30\%$ Relative Percent Difference or a “% Instrument Accuracy” between 70 and 130%.
- Field headspace analyses must be supported with instrument calibration data and calibration gas certification.

1.1.2 Methods

Collecting representative site samples and information requires that the sampling and observational processes and procedures be implemented within strict bounds. These control procedures will further ensure the quality of site data and information and are consistent with the Plains Marketing, L.P. standard operating procedures as referenced in the NMOCD approved “General Work Plan for Remediation of Plains Marketing, L.P. Pipeline Spills, Leaks, and Releases in New Mexico.” Likewise, personnel will implement standard environmental and occupational safety protocols.

1.1.2.1 Borehole Drilling, Lithologic Sampling, Logging, and Abandonment

Boreholes will be located strategically to best determine vertical and horizontal extent of contamination in the vadose zone and Groundwater. Borelogs will be developed for each boring noting site lithology. Likewise, laboratory samples may be collected to determine more detailed lithologic characteristics, i.e., porosity, transmissivity, etc. Each borehole not developed into a permanent monitor well will be plugged with Sodium Bentonite in accordance with the NMOCD guidelines.

1.1.2.1.1 General Drilling Procedures

The investigation will use the Environmental Plus, Inc. drill rig with hollow stem auger and “thin-wall probe” method of discrete sampling.

1.1.2.1.2 Soil Sampling and Logging

Upon advancing to the desired sampling interval the probe will be extended through the end of the hollow stem auger and pushed into the soil matrix to collect the sample. As the 1.5” X 48” stainless steel probe with a vinyl sampling sleeve is detached from the sampling bar, it will be immediately placed on the rack and logged. A 4 oz. sample will then be decanted into the sample jar for refrigeration and preparation with the remainder (~1 Kg) placed in a 1 gallon Ziplock bag, warmed to ambient ~ 70-80 °F and VOC Headspace concentration measured and recorded. All pertinent information will be recorded on the field borelog data sheet.

1.1.2.1.3 Monitor and Pollution Abatement Well Installation

Boreholes exhibiting contamination from the surface to Groundwater will be abandoned. Those advanced down gradient of the site for the purpose of plume delineation and found to be unimpacted will be completed and developed as monitor wells. Some boreholes may be temporarily abandoned, i.e., covered but not plugged, for

future development as pollution abatement wells. The New Mexico State Engineers Office will be notified in writing of all pollution abatement well installations. All monitor and pollution abatement wells will be installed and developed in accordance with the NMOCD guidelines.

1.1.2.1.4 Groundwater Sampling

Groundwater will be sampled within 24 hours of well development using a new and certifiably clean one-liter weighted baler. The water will be immediately decanted into the appropriate containers and prepared for ascension to the laboratory.

1.1.2.1.5 Borehole Abandonment

The boreholes will be filled with a mixture of distilled water and Sodium Bentonite and a wooden marker denoting the borehole number driven into the center of each backfilled hole.

1.1.2.2 Sample Handling

Soil and water samples will be collected and prepared in accordance with accepted ASTM and EPA SW846 methods.

1.1.2.3 Sampling protocols

1. Decontaminate sampling equipment and area with Alconox distilled water after each sample.
2. Prepare samples and refrigerate as soon as practicable.

Duplicates or blanks may be submitted to the laboratory to establish reproducibility and identify laboratory contamination, respectively.

1.1.2.4 Sample Containers

Laboratory and field analyses of soil and water require specific containers and are listed in the matrix below.

	TPH	BTEX	VOC Headspace	Metals	PAH	General Chemistry
Soil	4 oz. Jars with Teflon seal	4 oz. Jars with Teflon seal	1-gallon Ziplock® bags			
Water	1 liter amber glass w/HCL	2-40 ml VOA vials w/ HCL		16 oz. Plastic w/ 1ml HNO ₃	1 liter Amber Glass	1 liter Plastic

1.1.2.5 Sample Custody

All analytical request forms will be completed and signed by EPI as sampler. EPI personnel will ascension the samples to the AnalySys, Inc. or Environmental Labs of Texas sample-receiving personnel under chain-of-custody signature.

1.1.2.6 Quality Control Samples

Quality control samples will be analyzed to ensure data quality.

1.1.2.6.1 Field Blank

A field blank for soil or water is not deemed necessary.

1.1.2.6.2 Equipment Blank

None will be collected.

1.1.2.6.3 Field Duplicate or Co-located Samples

For water and soil samples, one duplicate or co-located sample will be collected for analysis every 10th sample.

1.1.2.6.4 Trip Blank

A laboratory prepared trip blank will accompany each water sample batch.

1.1.2.7 Field Measurements

The VOC Headspace concentration for each soil sample will be measured. The instrument used will be the Ultra-Rae PID manufactured by Rae Systems. The calibration gas will be 100.0 ppm isobutylene standard from Scott Specialty Gases, Freemont, Colorado.

1.1.2.7.1 Equipment Calibration and Quality Control

The PID will be calibrated at least 3 times daily and checked with the calibration gas hourly. When a check with the calibration gas indicates the instrument reading is 10 ppm too high or low it will be calibrated. Variation in the daytime ambient temperature will cause the variation.

1.1.2.7.2 Equipment Maintenance and Decontamination

All sampling and survey equipment will be routinely decontaminated between samples. Nitrile gloves will be worn and changed with each sampling iteration.

1.1.2.7.3 Groundwater Level Measurements

Groundwater levels will be taken with an accurate water level meter at each borehole where Groundwater is encountered and may require the use of an interface meter. Levels will be recorded as "feet below ground surface" to the nearest ".1 ft."

1.1.2.8 Analyses

Soil and Groundwater will be analyzed in accordance with the following EPA Methods.

The analytical suite for soil samples will include;

- TPH (EPA method 8015M)
- BTEX (EPA method 8020 or equivalent)
- SPLP for selected samples

The analytical suite for water samples will include:

- TPH (EPA method 8015B)
- BTEX (EPA method 8021B)
- Total Dissolved Solids (EPA method 150.1)
- PAH (EPA method 8270)

1.1.2.9 Sample Identification

Sample identification numbers will be designated as follows;

Site: PLAINS MARKETING, L.P. C.S. Cayler	Geoprobe	Borehole #	Interval bgs	Qualification: Cutting/Probe Sample
PCSC	GP	1	20'	C or P

Example: PCSCGP1-20C

1.1.2.10 Data Evaluation

All data will be reviewed based on the Data Quality Objectives in section 1.1.1..

Appendix VI: Engineered Survey, Site Information and Metrics Form and NMOCD C-141

CP #122
SET 5/8" REBAR
LAT.=32°52'26.249"N
LONG.=103°17'34.550"W
ELEV.=3814.93

N36°22'11"W
2745.08

MW #8 (W)
LAT.=32°52'04.708"N
LONG.=103°17'17.930"W
CASING=3810.29
CONCRETE=3807.72
GROUND=3807.62

CP #123
CHISELED "X"
LAT.=32°52'04.362"N
LONG.=103°17'15.495"W
ELEV.=3807.29

MW #9 (W)
LAT.=32°52'04.348"N
LONG.=103°17'15.500"W
CASING=3809.81
CONCRETE=3807.34
GROUND=3806.99

MW #3
LAT.=32°52'03.710"N
LONG.=103°17'16.703"W
CASING=3810.20
CONCRETE=3807.44
GROUND=3807.22 (W)

MW #7 (W)
LAT.=32°52'03.752"N
LONG.=103°17'18.344"W
CASING=3809.95
CONCRETE=3807.41
GROUND=3807.27

MW #2 (W)
LAT.=32°52'03.412"N
LONG.=103°17'17.390"W
CASING=3803.93
CONCRETE=3801.13
GROUND=3800.93

MW #4
LAT.=32°52'03.289"N
LONG.=103°17'16.169"W
CASING=3810.70
CONCRETE=3807.63
GROUND=3807.40 (W)

MW #10 (W)
LAT.=32°52'03.091"N
LONG.=103°17'14.981"W
CASING=3809.64
CONCRETE=3806.95
GROUND=3806.81

MW #6 (W)
LAT.=32°52'02.779"N
LONG.=103°17'18.323"W
CASING=3809.17
CONCRETE=3806.54
GROUND=3806.31

MW #1
LAT.=32°52'03.108"N
LONG.=103°17'16.833"W
CASING=3803.97
CONCRETE=3800.47
GROUND=3800.24 (W)

MW #5 (W)
LAT.=32°52'02.397"N
LONG.=103°17'16.879"W
CASING=3809.05
CONCRETE=3806.01
GROUND=3805.85



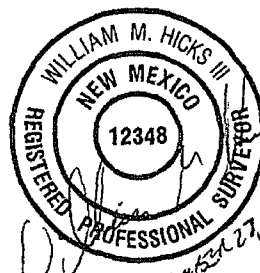
SCALE 1" = 50'

0' 25' 50' 100'

LEGEND

- (W) CONTROL POINT
⊕ MONITOR WELL
--- SWING TIE

Basis of Bearings -
Bearings are referred to Grid North based on the New Mexico State Plane Coordinate System, East Zone as observed by the Global Positioning Satellite system.



PETTIGREW AND ASSOCIATES

1110 N. GRIMES HOBBS, N.M. 88240
(505) 393-9827

0	09/27/2005	PLOTTED
00	08/29/2005	PRELIMINARY PLAT
	08/23/2005	DATE OF SURVEY
REV	DATE	DESCRIPTION

PLAT OF MONITOR WELL SURVEY FOR
ENVIROMENTAL PLUS, INC.
EUNICE, NEW MEXICO

PROJ. No.	2005.1127	DRN BY:	C. JOHNSON
DWG	Acad Enviro plus\dwg\Plains pipeline.dwg		
BOOK		SHT.	1 of 1

Plains Marketing, L.P.
Site Information and Metrics

Incident Date:
9-19-02 @ 8:00 AM

NMOCD Notified:
9-19-02 @ 3:15 PM

SITE: C.S. Caylor		Assigned Site Reference #: 2002-10250	
Company: Plains Marketing, L.P.		NATIONAL RESPONSE CENTER - 800.424.8802	
Street Address: 3112 West U.S. Highway 82		Notified Date/Time:	
Mailing Address: 3112 West U.S. Highway 82		Notified by: Pat McCasland, EPI	
City, State, Zip: Lovington, New Mexico 88260		Person Notified:	
Representative: Camille Reynolds		NRC Report# :	
Representative Telephone and email: 505.396.3341 (email CJReynolds@paalp.com)			
Telephone:			
Fluid volume released (bbls): 70 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: C.S. Caylor			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Robert C. Rice			
LSP Dimensions 70' x 30'			
LSP Area: 2,199 ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32° 52' 2.45"N			
Longitude: 103° 17' 17.73"W			
Elevation above mean sea level: 3,805'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: NW¼ of the NE¼		Unit Letter: B	
Location- Section: 6			
Location- Township: T17S			
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 Groundwater (DG) ~72' bgs			
Depth of contamination (DC) - 72' bgs			
Depth to Groundwater (DG - DC = D _{GW}) - 0			
1. Groundwater		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		Wellhead Protection Area Score = 0	
Groundwater Score = 20		Surface Water Score = 0	
Site Rank (1+2+3) = 20 (10)			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19 (soils >12' bgs)	10-19 (soils <12' bgs)	0-10
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company: Plains Marketing, L.P.	Contact: Camille Reynolds	
Address 3112 West U.S. Highway 82, Lovington, NM 88260	Telephone No. 505.396.3341	
Facility Name C.S. Cayler #2002-10250	Facility Type 8" Steel Pipeline	
Surface Owner: Robert C. Rice	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter B	Section 6	Township T17S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
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Latitude: **32 52' 2.45"N** Longitude: **103 17' 17.73"W**

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 70 barrels	Volume Recovered 0 barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 9-19-02 @ 8:00 AM	Date and Hour of Discovery 9-19-02 @ 12:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Pat McCasland, EPI	Date and Hour 9-19-02 @ 3:15 PM	
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.*

8" Steel Pipeline The cause was either internal or external corrosion. Contaminated soil, down to a depth of 8-feet below ground surface has been excavated and the rock and soil separated. The soil has been spread into a monitored soil cell northwest and adjacent to the excavation.

Describe Area Affected and Cleanup Action Taken.*

2,199 sqft 70' x 30': Crude oil is being recovered and the Groundwater monitored quarterly. It is proposed that the unexcavated impacted soil be isolated from the near surface environment with a 20 mil polyethylene liner, impervish to petroleum hydrocarbons and chloride and Remedial Goals: TPH 8015m = 1,000 mg/Kg (<12'bgs) 100 mg/Kg (>12'bgs), 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 Groundwater, 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:		OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds			
E-mail Address: CJReynolds@PAALP.com		Approved by District Supervisor:	
Title: District Environmental Supervisor		Approval Date:	Expiration Date:
Date: 10/2/2002 Phone: 505.396.3341		Conditions of Approval:	Attached ☐

Attach Additional Sheets If Necessary