AP - 52

ANNUAL MONITORING REPORT

YEAR(S):
2004

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

September 2, 2005

Ms. Camille Reynolds
Plains Pipeline
3112 West Highway 82
Lovington, NM 88260

Re: 2004 Annual Monitoring Report
C.S. Cayler Release Site, 2002-10250
NW/4, NE/4, of Section 6, Range 37 East, Township 17 South
Dated August 2005
NMOCD Ref: 1R-0382

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report, submitted on behalf of Plains All American Pipeline, L.P. (Plains) by Environmental Plus, Inc. (EPI). This report is hereby accepted with the following understandings and conditions:

1. Plains will submit Stage I and Stage II Abatement Plans for this site to the NMOCD Santa Fe office **no later than November 2, 2005**.
2. Plains will complete delineation activities at the site.
3. Plains will continue recovery of phase-separated hydrocarbons at the site.

If you have any questions, contact me at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs

PLAINS PIPELINE

August 25, 2005

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

Re: Plains Pipeline – Annual Monitoring Reports
1 Site in Lea County, New Mexico

Dear Mr. Martin:

Plains Pipeline is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains Pipeline actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains Pipeline hereby submits our Annual Monitoring report for the following site:

CS Caylor **Section 6, Township 17 South, Range 37 East, Lea County**

EPI prepared this document and has vouched for its accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the document and interviewed EPI in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains Pipeline submits the enclosed Annual Monitoring Report for the above facility.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains Pipeline

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

PLAINS
ALL AMERICAN
PIPELINE, L.P.

2004 Annual Monitoring Report

1R-382

C.S. Cayler
Ref. # 2002-10250

NW¼ of the NE¼ of Section 6, R37E, T17S
Latitude 32° 52' 2.45"N and Longitude 103° 17' 17.73"W
Elevation ~3,810'amsl

~7 miles southeast of Lovington, Lea, New Mexico

August 2005

Prepared by

Environmental Plus, Inc.
2100 West Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601
(enviplus1@aol.com)

STANDARD OF CARE

2004 ANNUAL MONITORING REPORT

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/jp — Pat McCasland

August 25, 2005 — Date

This report was reviewed by:

Iain Olness — Iain Olness, PG
Hydrogeologist

25 August 2005 — Date

Distribution List

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Jeff Dann	Environmental Director	Plains	333 Clay Street Suite #1600, Houston, TX 77002	jpdann@paalp.com
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NMOCD - New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division
Plains - Plains Pipeline L.P.
EPI - Environmental Plus, Inc.

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1.0 BACKGROUND AND PREVIOUS REMEDIAL ACTIVITIES

This site is located in the NW¼ of the NE¼ (also referred to as Unit Letter-B) of Section 6, Range 37 East, Township 17 South at a latitude of 32° 52' 2.45"N and a longitude of 103° 17' 17.73"W, approximately 7 miles southeast of Lovington, Lea County, New Mexico on property owned by Robert C. Rice (reference Figures 1 through 4). The release occurred from the 8" steel pipeline on September 19, 2002, while under the ownership of EOTT Energy Pipeline (EOTT changed its' name to Link Energy in October 2003) and as of April 1, 2004, Plains Pipeline, L.P. (Plains) purchased the assets from Link Energy. The estimated 70 barrel (bbls) crude oil release was attributed to either internal or external corrosion and impacted approximately 2,199 square feet (ft^2) (70' x 30') of surface area (reference Figure 2 and Appendix IV). There was no crude oil recovered. It was also observed that the surface beyond the current spill area had apparently been impacted by a historical spill or spills; however, the source(s) and date(s) are not known.

Preliminary delineation of the site was initiated in September 2002 with the advancement of four soil borings (reference Figure 2). On September 24, 2002, during delineation activities, crude oil impact was delineated down 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 monitoring well MW1. Following development of monitoring well MW1, approximately 11-feet of phase separated hydrocarbon (PSH) was observed on top of the groundwater. The New Mexico Oil Conservation Division (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 (i.e., "Non-aqueous phase liquid shall not be present floating atop or immersed within ground water, as can be reasonably measured"). The soil samples collected during the preliminary site investigation were analyzed for 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). The NMOCD remedial goals, based on an NMOCD site ranking of 20, for the CoCs are as follows:

Constituent of Concern (CoC)	Remedial Goal
TPH^{8015M}	100 mg/Kg
Benzene[1]	10 mg/Kg
BTEX[1]	50 mg/Kg
[1]VOC headspace <100 ppm may be submitted "in lieu" of laboratory analysis.	

The laboratory reports are provided in Appendix II, illustrated in Figures 5 through 8, and summarized in Table 1. Plains is currently preparing a Stage 1 and Stage 2 Abatement Plan for the site, consistent with the NMOCD regulations found in New Mexico Administrative Code (NMAC) 19.15.1.19 (i.e., Rule 19) to address remediation of the impacted soil and groundwater.

Site surveillance, to measure groundwater and PSH levels and recover PSH, began immediately 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. Impacted soil down to approximately 7'bgs has been excavated. The rock and soil have been separated and are currently being stored on site. The soil has been spread into a 4-foot thick lift and is turned and aerated semi-annually to promote attenuation and is tested semi-annually.

2.0 2004 Field Activities

During 2004, field activities included routine site reconnaissance, continuous PSH recovery, installation of four monitoring wells in May and June and five monitoring wells in October, and groundwater sampling in September and November. The soil lift was tilled May and November and sampled in December.

2.1 Site Reconnaissance

Site reconnaissance and surveillance occurred at least twice weekly to maintain the PSH recovery system, manage PSH, check for leaks and document changes in groundwater and PSH levels.

2.2 PSH Recovery

In June 2004, an automated electrified eductor type PSH recovery system was installed and activated. Currently, PSH is being recovered from monitoring wells MW1 through MW4 and MW7. In 2004, 6,049 gallons (144 bbls) of crude oil was recovered and reintroduced into the Plains pipeline system. Total PSH recovery volume as of December 31, 2004 was 9,849 gallons (234.5 bbls) of crude oil.

2.3 Groundwater Monitoring Well Installation and Soil Investigation

To further delineate the areal distribution of the PSH and dissolved phase impacts, the NMOCD approved the May and June 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 Figure 3 and Figures 17 through 20. Lockable well vaults were set in the concrete surface well seal and a service pad (i.e., 4-foot square by 4-inch thick) constructed around each well vault. The monitoring well construction diagrams are included as Appendix III. During advancement of the monitoring well borings, soil samples were collected at 5-foot vertical intervals, beginning at the 5'bgs interval, down to the interface of the vadose zone and the groundwater. The organic vapor headspace (VOC) concentration of each sample was analyzed using a calibrated MiniRAE® photoionization detector (PID). Selected samples were prepared and submitted to an independent laboratory for analysis. The laboratory analytical suite included TPH^{8015m} and BTEX constituents. The laboratory analytical reports for the soil samples are included in Appendix II, summarized in Table 2 and illustrated in Figures 9 through 16.

2.3.1 MONITORING WELLS MW2 THROUGH MW5 INSTALLATION

An air rotary drilling rig with an 8¾-inch diameter drill bit was used to install the monitoring wells MW2 through MW5 and soil sampling was accomplished with a 6⅛-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).

2.3.1.1 Monitoring Well MW2 (4"PVC)

Monitoring well MW2 is located in the bottom 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.

2.3.1.1.1 Monitoring Well MW2 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 1,282 ppm at 13-15'bgs and 480 ppm at 43-45'bgs to 2,999 ppm at 73-75'bgs. The TPH concentration in the 13-15'bgs sample was 3,690 mg/Kg and the benzene and BTEX concentrations were 5.35 mg/Kg and 78.14 mg/Kg, respectively. The TPH concentration in the 43-45'bgs sample was 4,470 mg/Kg and the benzene and BTEX concentrations were 0.449 mg/Kg and 32.1 mg/Kg, respectively. The TPH concentration in the 73-75'bgs sample was 38,100 mg/Kg and the benzene and BTEX concentrations were 57.6 mg/Kg and 853.2 mg/Kg, respectively. 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 the groundwater.

2.3.1.2 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.

2.3.1.2.1 Monitoring Well MW3 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 38.5 ppm at 13-15'bgs, 92.8 ppm at 43-45'bgs and 924 ppm at 58-60'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. TPH and BTEX were not detected in the 58-60'bgs sample, (i.e., TPH <10 mg/Kg and BTEX <0.025 mg/Kg). The TPH concentration in the 68-70'bgs sample was 32,100 mg/Kg and the benzene and BTEX concentrations were 171 mg/Kg and 1,181 mg/Kg, respectively. 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 the 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.

2.3.1.3 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.

2.3.1.3.1 Monitoring Well MW4 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 1.3 ppm at 13-15'bgs, 0.0 ppm at 43-45'bgs and 7.0 ppm at 58-60'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 and BTEX were not detected in the 58-60'bgs sample, (i.e., TPH <10 mg/Kg and BTEX <0.025 mg/Kg). The TPH concentration in the 73-75'bgs sample was 27,150 mg/Kg and the benzene and BTEX concentrations were 13.7 mg/Kg and 326.1 mg/Kg, respectively. 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 the 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.

2.3.1.4 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 was not detected in the well after development.

2.3.1.4.1 Monitoring Well MW5 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 144 ppm at 13-15'bgs, 236 ppm at 43-45'bgs, 137 ppm at 53-55'bgs, and 1,409 ppm at 68-70'bgs to 654 ppm at 73-75'bgs. The 13-15'bgs and the 43-45'bgs samples were not submitted to the laboratory for CoC analyses. BTEX was not detected in the 53-55'bgs sample, (i.e., BTEX <0.025 mg/Kg). The TPH concentration in the 68-70'bgs sample was 43,600 mg/Kg and 27,150 mg/Kg in the 73-75'bgs sample. The TPH concentration in the sample collected at the 53-55'bgs interval was reported at 15.8 mg/Kg and benzene and BTEX were not detected above the 0.025 mg/Kg method detection limit. The benzene and BTEX concentrations in the 68-70'bgs sample were 216 mg/Kg and 1,168.9 mg/Kg, respectively. The benzene and BTEX concentrations in the 73-75'bgs sample were 13.7 mg/Kg and 326.1 mg/Kg, respectively. 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.

2.3.2 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).

2.3.2.1 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 was not detected in the well after development.

2.3.2.1.1 Monitoring Well MW6 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 26.8 ppm at 33-35'bgs, 51.3 ppm at 63-65'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 the groundwater is not impacted above the NMOCD remedial goals.

2.3.2.2 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.

2.3.2.2.1 Monitoring Well MW7 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 28.1 ppm at 30-35'bgs, 79.2 ppm at 50-55'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 down 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 down 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.

2.3.2.3 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 thickness was not detected in the well bore after development.

2.3.2.3.1 Monitoring Well MW8 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 21.3 ppm at 30-35'bgs, 22.9 ppm at 45-50'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.

2.3.2.3.2 Monitoring Well MW8 Soil Analytical Results Discussion

The soil data collected during the installation of monitoring well MW8 indicates the soil associated with this location is not impacted above the NMOCD CoC remedial goals.

2.3.2.4 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 thickness was not detected in the well bore after development.

2.3.2.4.1 Monitoring Well MW9 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 18.0 ppm at 24.5-25'bgs, 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.

2.3.2.5 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 thickness was not detected in the well bore after development.

2.3.2.5.1 Monitoring Well MW10 Soil Analytical Results

PID readings of soil samples collected during advancement of the well bore varied from 20.1 ppm at 29-30'bgs, 23.2 ppm at 45-50'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.

3.0 Groundwater Elevation and Gradient

The area groundwater gradient (reference Figure 17) is to the southeast and was determined using area water well information from the New Mexico Office of the State Engineer. Surface elevations were interpolated from the USGS topographical map. The site groundwater gradient is consistent with the area groundwater gradient (reference Figure 18). The groundwater elevations, derived from the monitor wells not impacted with PSH, were relatively stable during the last quarter of 2004 (reference Figures 21 and 22).

4.0 PSH Thickness

Stabilized PSH thickness in monitoring well MW1 declined from 11.92 feet in March of 2003, to 9.96 feet in August 2003, and to 4.92 feet in October 2004. Average stabilized PSH thicknesses have declined in monitoring wells MW1 through MW4, with declines ranging up to 3.54 feet. The increased PSH thickness recorded for monitor well MW7 is actually the effect of development and final stabilization (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.

5.0 Soil Treatment 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. TPH concentrations are less than 1,000 mg/Kg in the northwest, southeast, and southwest quadrants and were reported at 1,000 mg/Kg in the northeast quadrant (reference Table 3).

6.0 Groundwater Sampling and Analysis

Monitoring well MW5 was sampled on September 22, 2004 and monitoring wells MW6, MW8, MW9, and MW10 were sampled on November 19, 2004. Groundwater samples were submitted to a qualified independent laboratory for analysis of benzene, toluene, ethylbenzene, and m, p, & o-xylenes (BTEX). Samples collected from monitoring well MW5 on September 22, 2004 were submitted for analysis of the polynuclear aromatic hydrocarbons (PAH) (reference Figure 23, Tables 5 and 6, and Appendix I). Monitoring wells MW1 through MW4 and MW7 were impacted with PSH and not sampled. Prior to collecting the laboratory samples, the monitoring wells were purged of at least three well bore volumes or dry.

6.4 Analytical Results - September 22, 2004 Sampling Event

The analytical suite included the BTEX compounds and the PAH suite of parameters.

6.4.1 Monitoring Well MW5

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

6.5 Analytical Results - November 19, 2004 Sampling Event

The analytical suite during this event was limited to the BTEX compounds.

6.5.1 Monitoring Well MW5

The 4th quarter sample from monitor well MW5 was collected on September 22, 2004 and not sampled during the November 19, 2004 event.

6.5.2 Monitoring Well MW6

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 above the 2 µg/L MDL, but did not exceed the 620 µg/L WQCC standard.

6.5.3 Monitoring Well MW7

Not sampled due to the presence of PSH.

6.5.4 Monitoring Well MW8

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.

6.5.5 Monitoring Well MW9

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. The total xylenes were detected above the MDL, but did not exceed the 620 µg/L WQCC standard.

6.5.6 Monitoring Well MW10

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 above the 1 µg/L MDL, 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.

7.0 Status and Recommendations

The current array of monitoring wells has not completely defined the areal extent of the PSH on the groundwater to the west or areal distribution of the dissolved phase hydrocarbon impact. Installation of up to 6 additional perimeter monitoring wells is proposed to bound the areal extents of the PSH impact and the dissolved phase hydrocarbon plume (reference Figure 24). Currently, Plains is preparing a Stage I and Stage II Abatement Plan in accordance with 19.15.1.19 NMAC (Rule 19) to formalize site soil and groundwater delineation and remediation. Below are the recommended actions for 2005:

1. Submit Stage I and Stage II Abatement Plan to the NMOCD for approval.

2. Install and survey up to 6 additional perimeter monitor wells to delineate the areal extents of the dissolved phase hydrocarbon plume.
3. Resurvey existing monitoring wells (i.e., MW1 through MW10).
4. Continue to document weekly site surveillance, maintenance of the facilities, management of recovered fluids, and collect monthly stabilized groundwater and PSH levels.
5. Collect and analyze quarterly samples from monitor wells not impacted by PSH for the BTEX parameters.
6. Collect and analyze samples for the PAH suite of parameters at least annually.

FIGURES

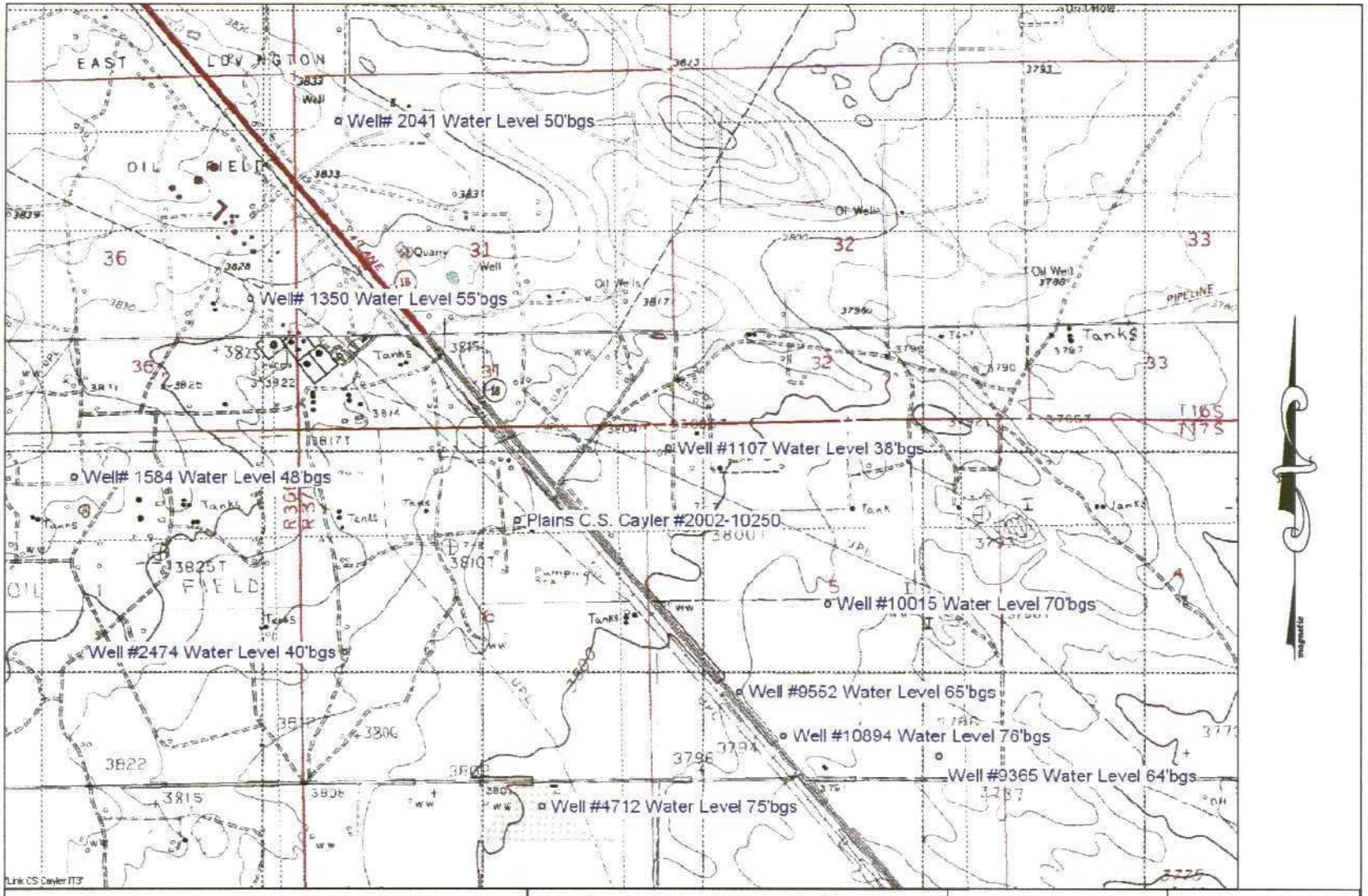

Figure 1: C.S. Cayler Area Map with Water Wells

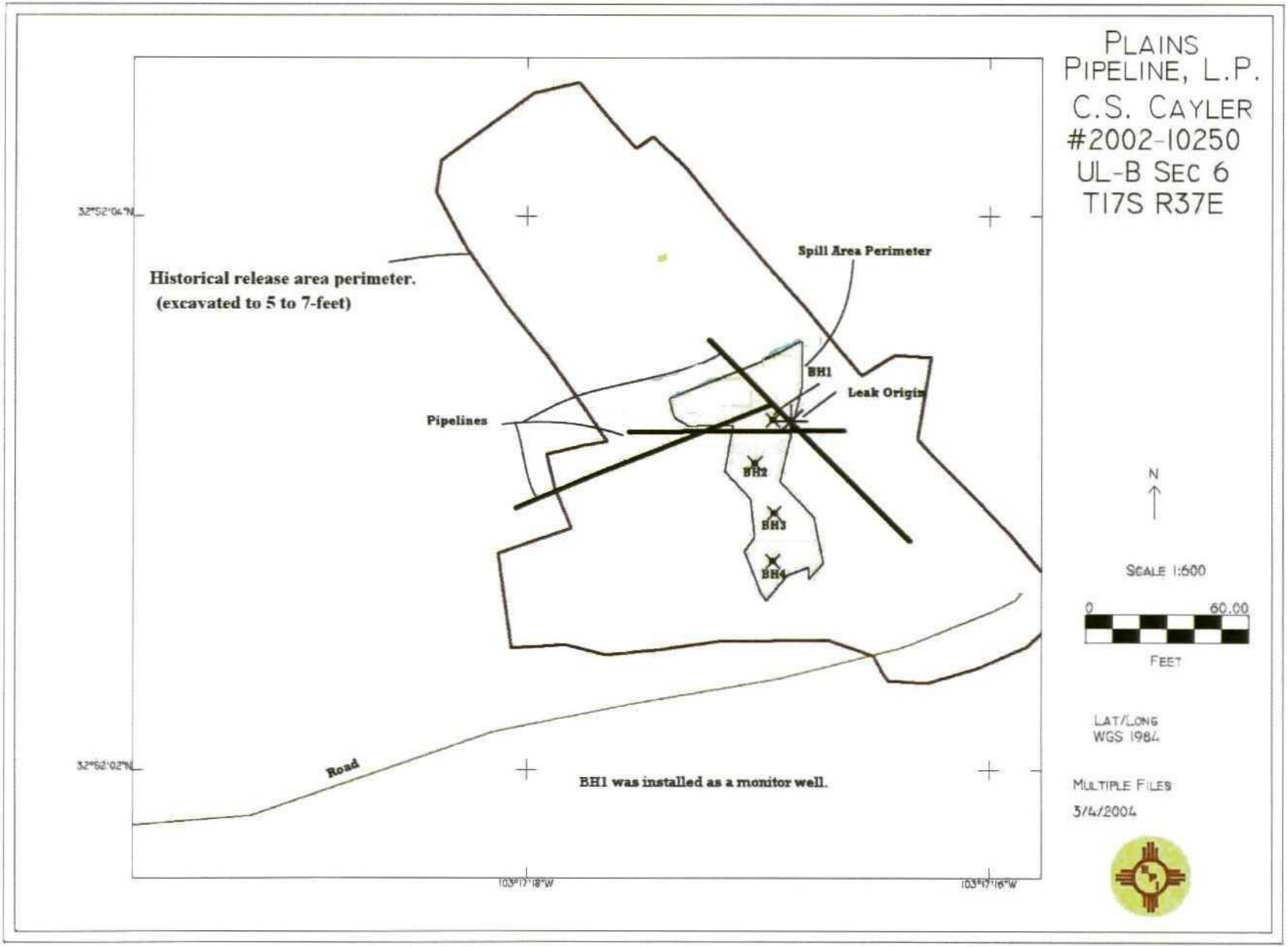

Figure 2: C.S. Cayler Borehole Location Map

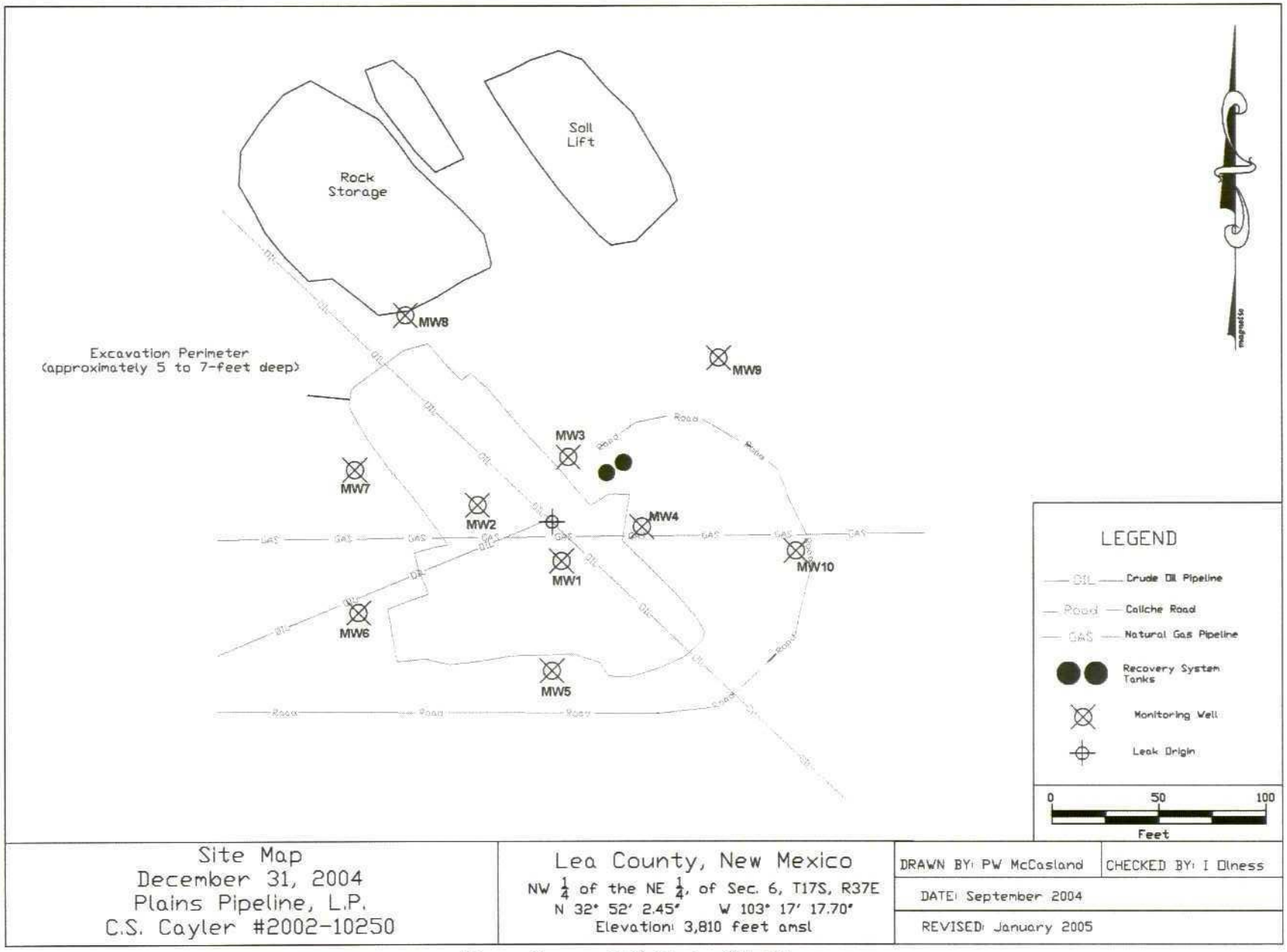

Figure 3: C.S. Cayler Site Map

Plains Pipeline, L.P.
CS Cayler
#2002-10250
UL-B Sec 6
T17S R37E
(USGS 1996)

N

Scale 1:3,000

0 300.0

Feet

Universal Transverse Mercator
13 North
NAD 1983 HPGN (New Mexico)

CS Cayler MWs Piles Exc 12-3.

4/10/2005

Figure 4: C.S. Cayler Site Map (USGS 1996)

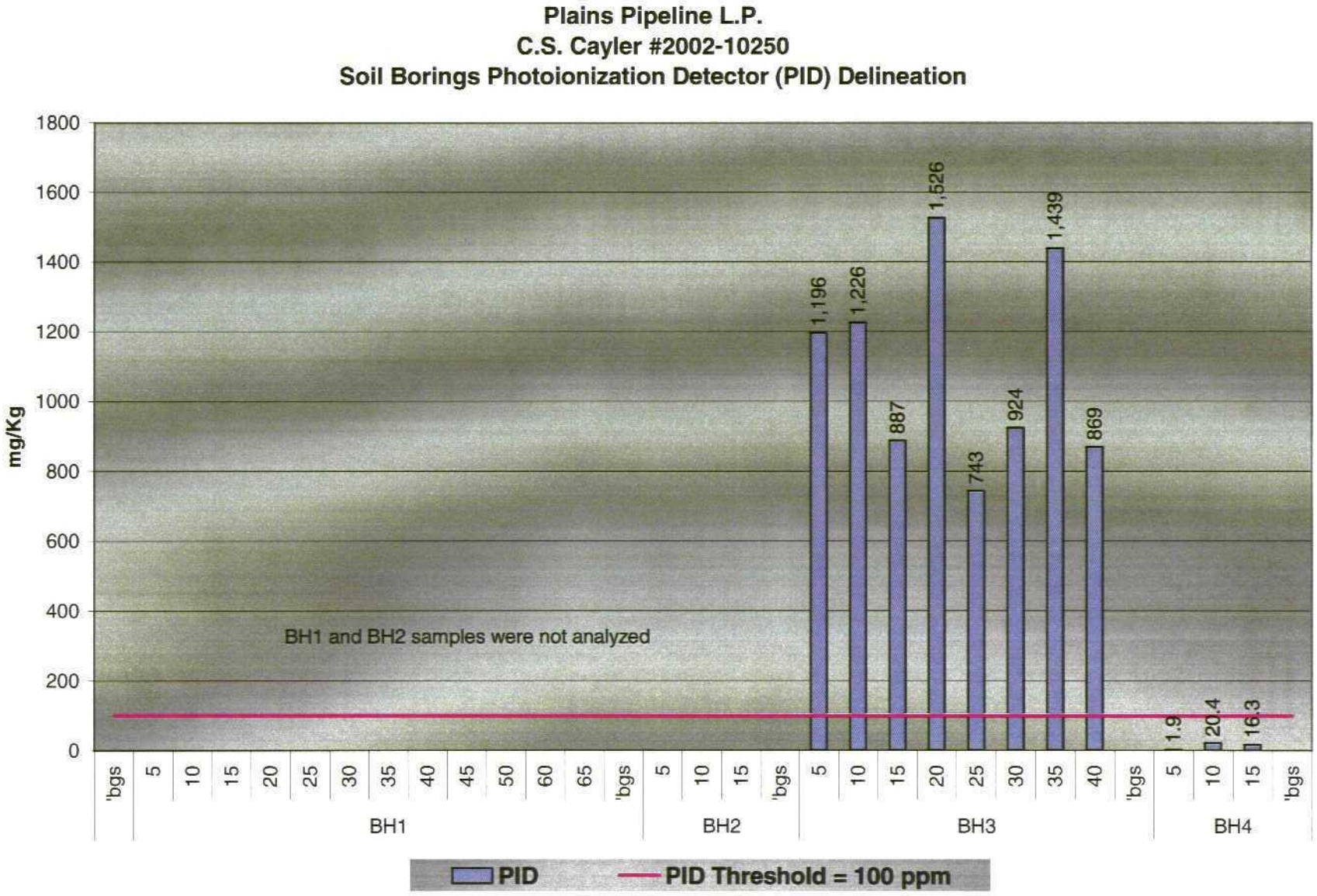

Figure 5: Soil Borings PID Delineation

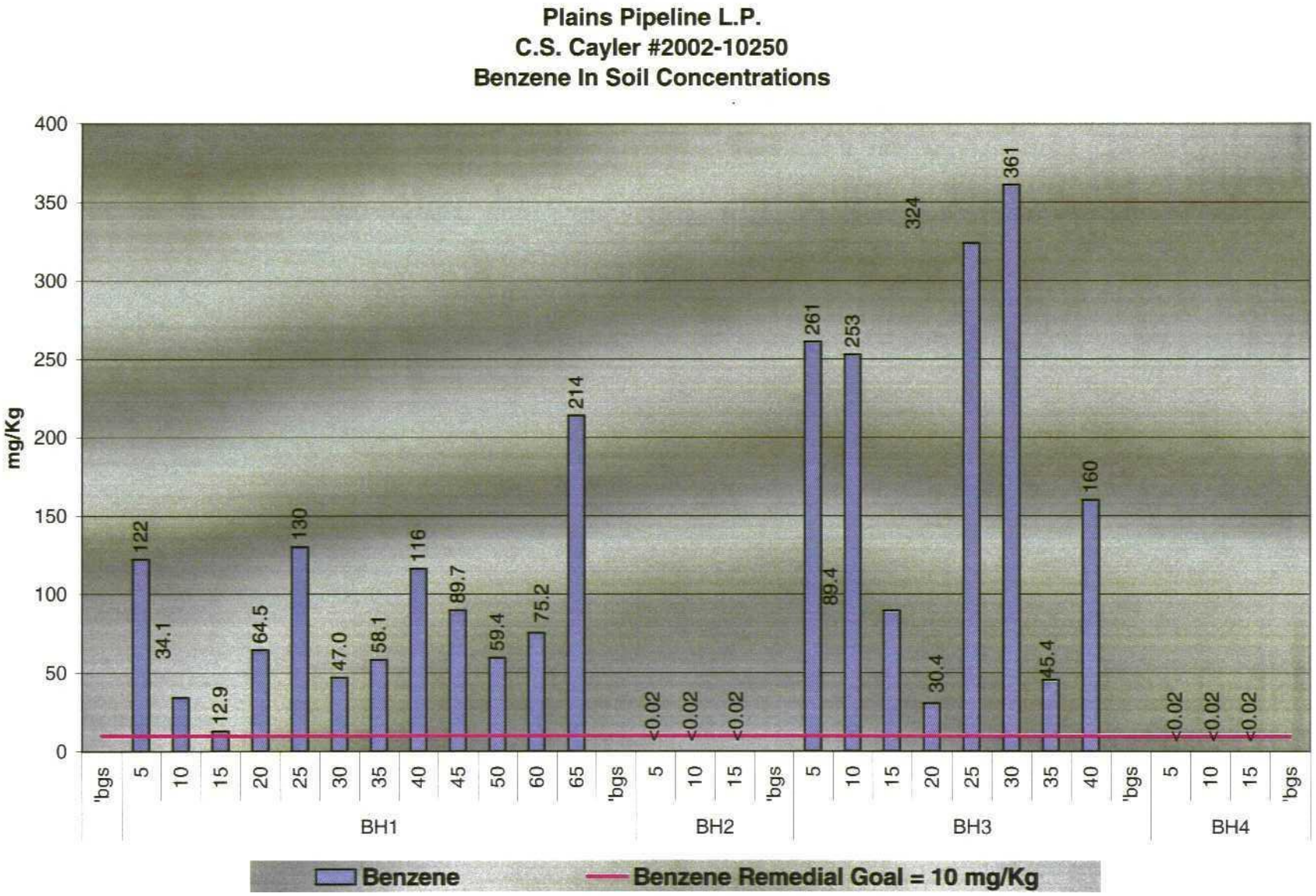

Figure 6: Benzene In Soil Concentrations

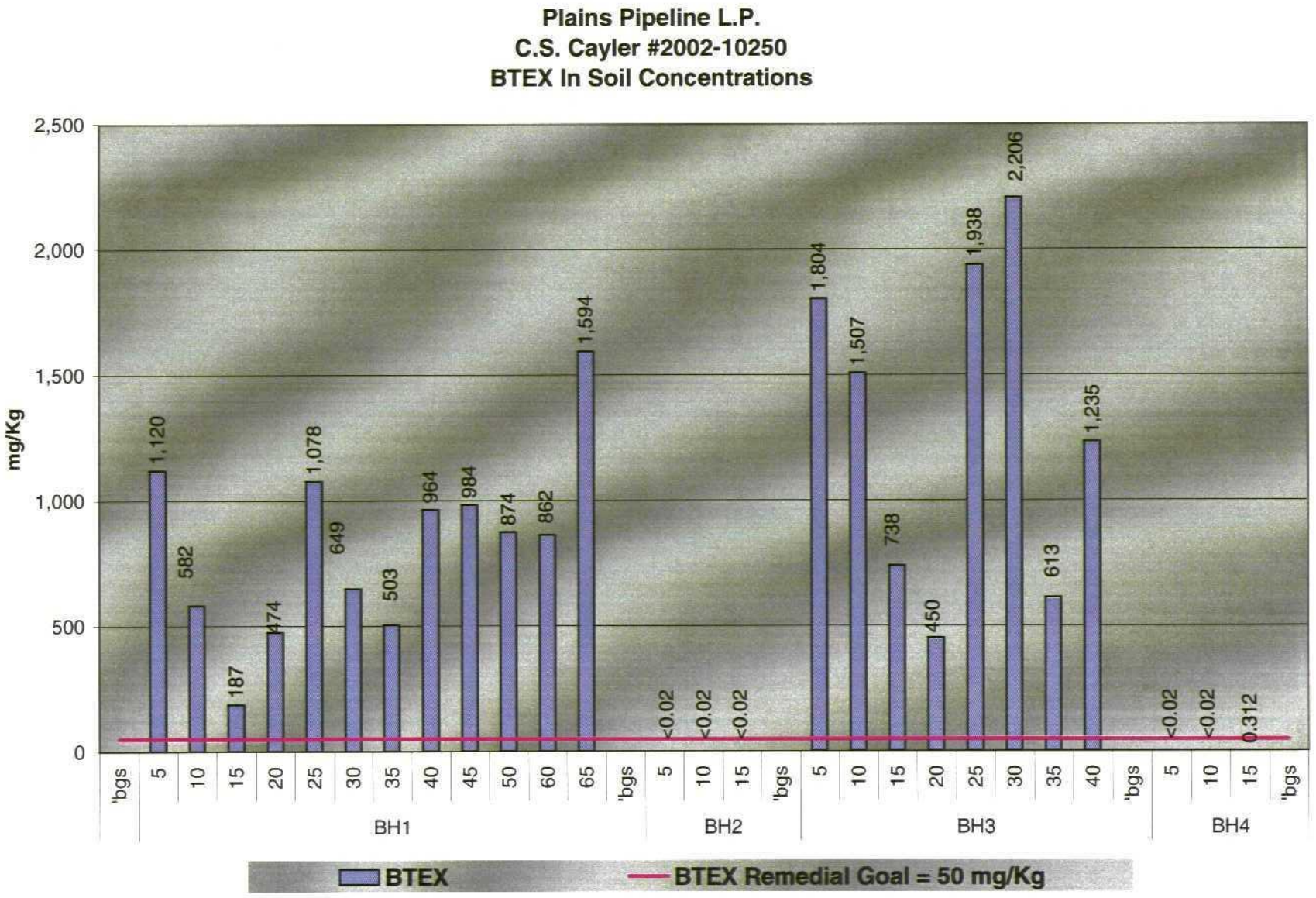

Figure 7: BTEX In Soil Concentrations

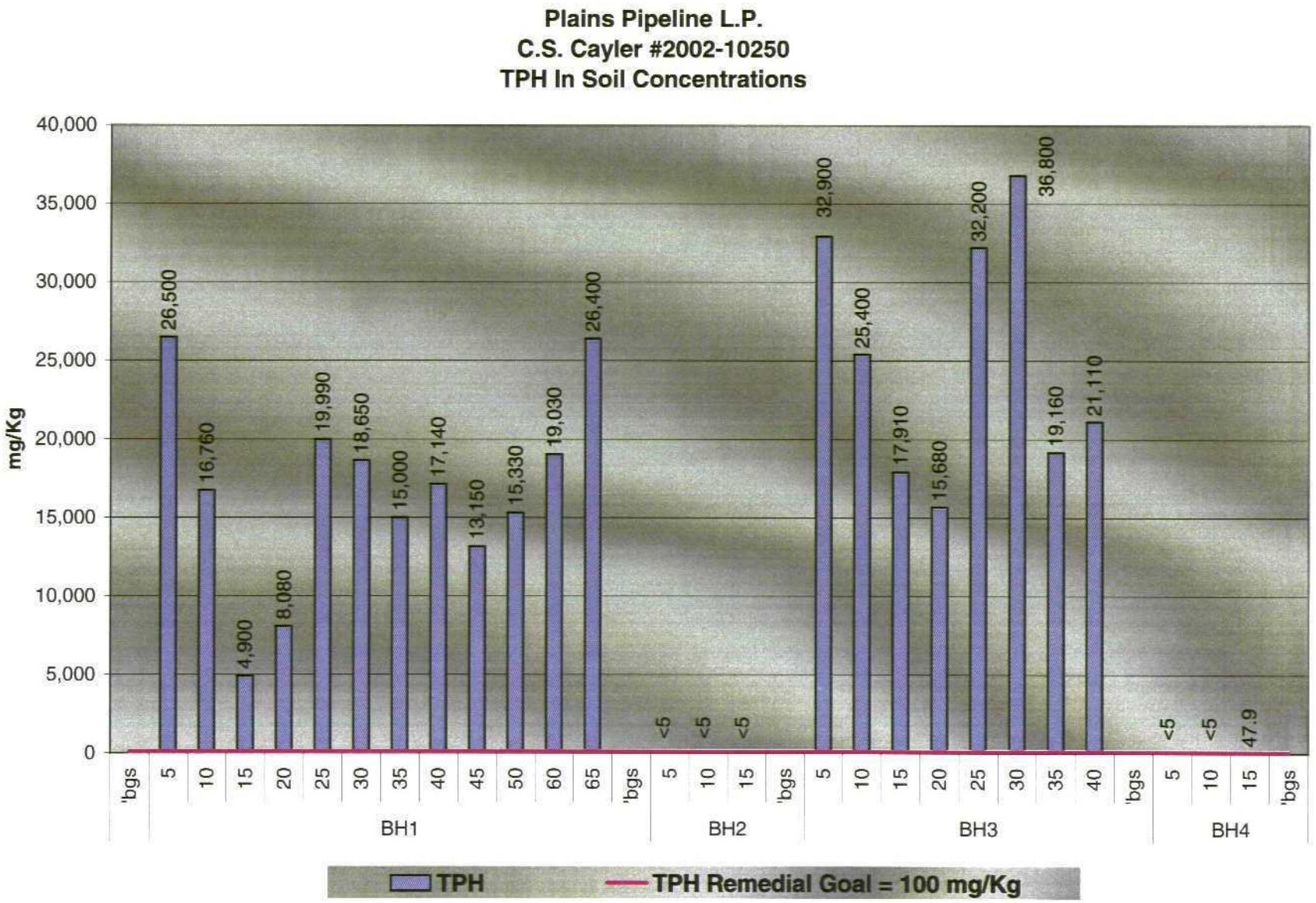

Figure 8: TPH In Soil Concentrations

Plains Pipeline L.P.
C.S. Cayler #2002-10250
Monitoring Wells MW1 through MW5 Soil Analytical
Volatile Organic Constituents (VOC) Headspace Readings

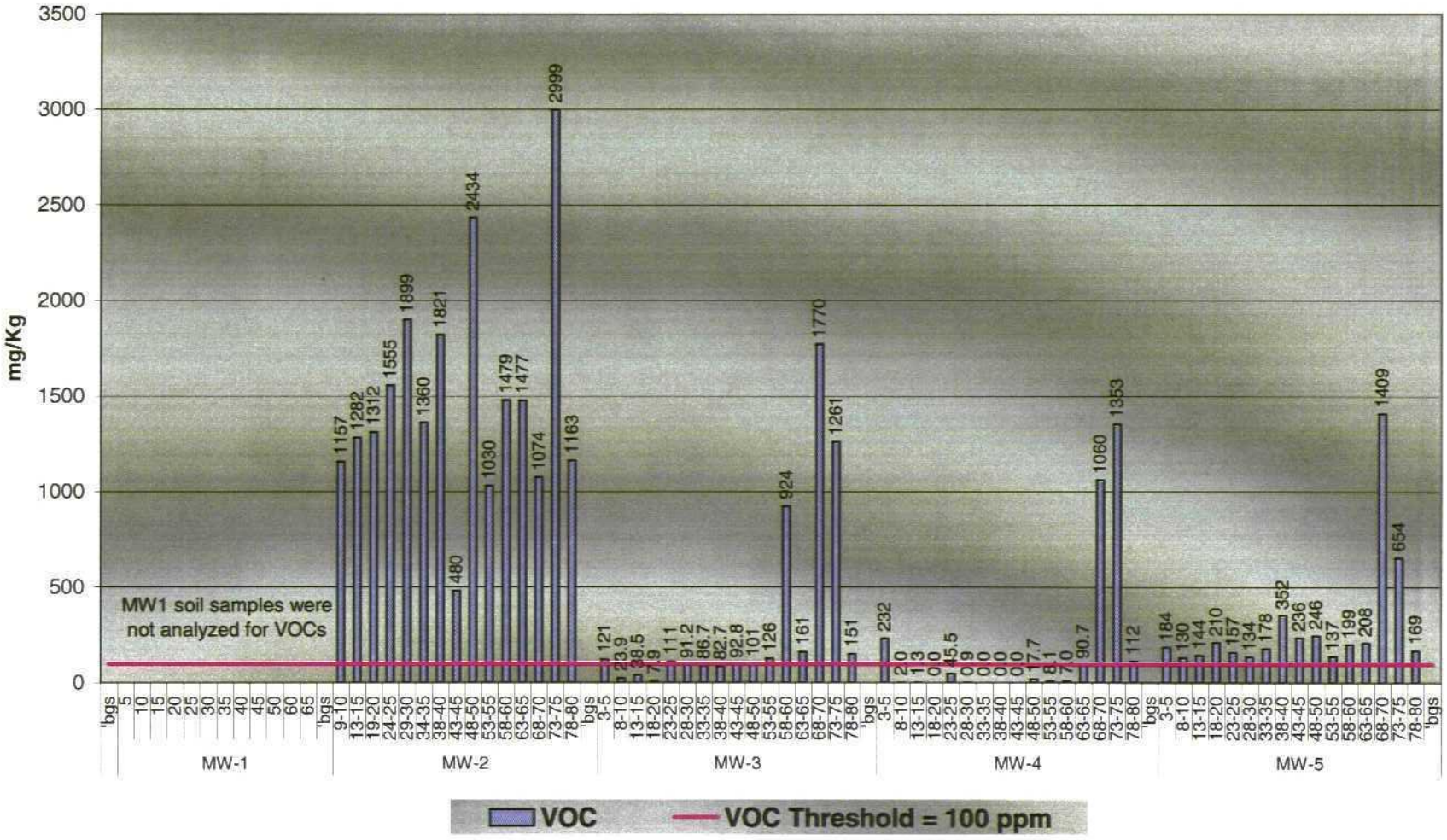

Figure 9: Monitoring Wells MW1-MW5 VOC Analytical Results

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

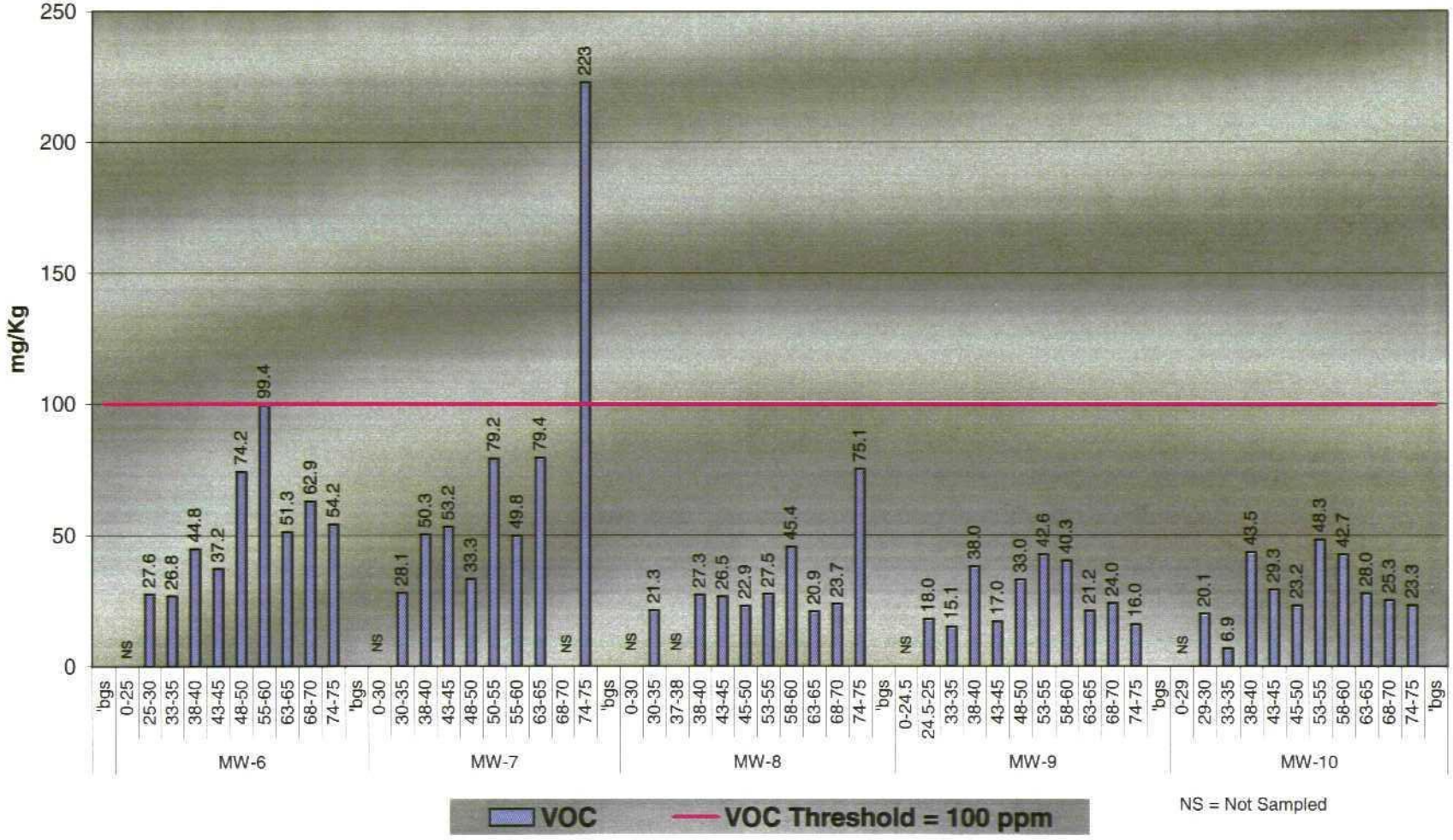

Figure 10: Monitoring Wells MW6-MW10 VOC Analytical Results

Plains Pipeline L.P.
C.S. Cayler #2002-10250
Monitoring Wells MW1 through MW5 Soil Analytical
Benzene

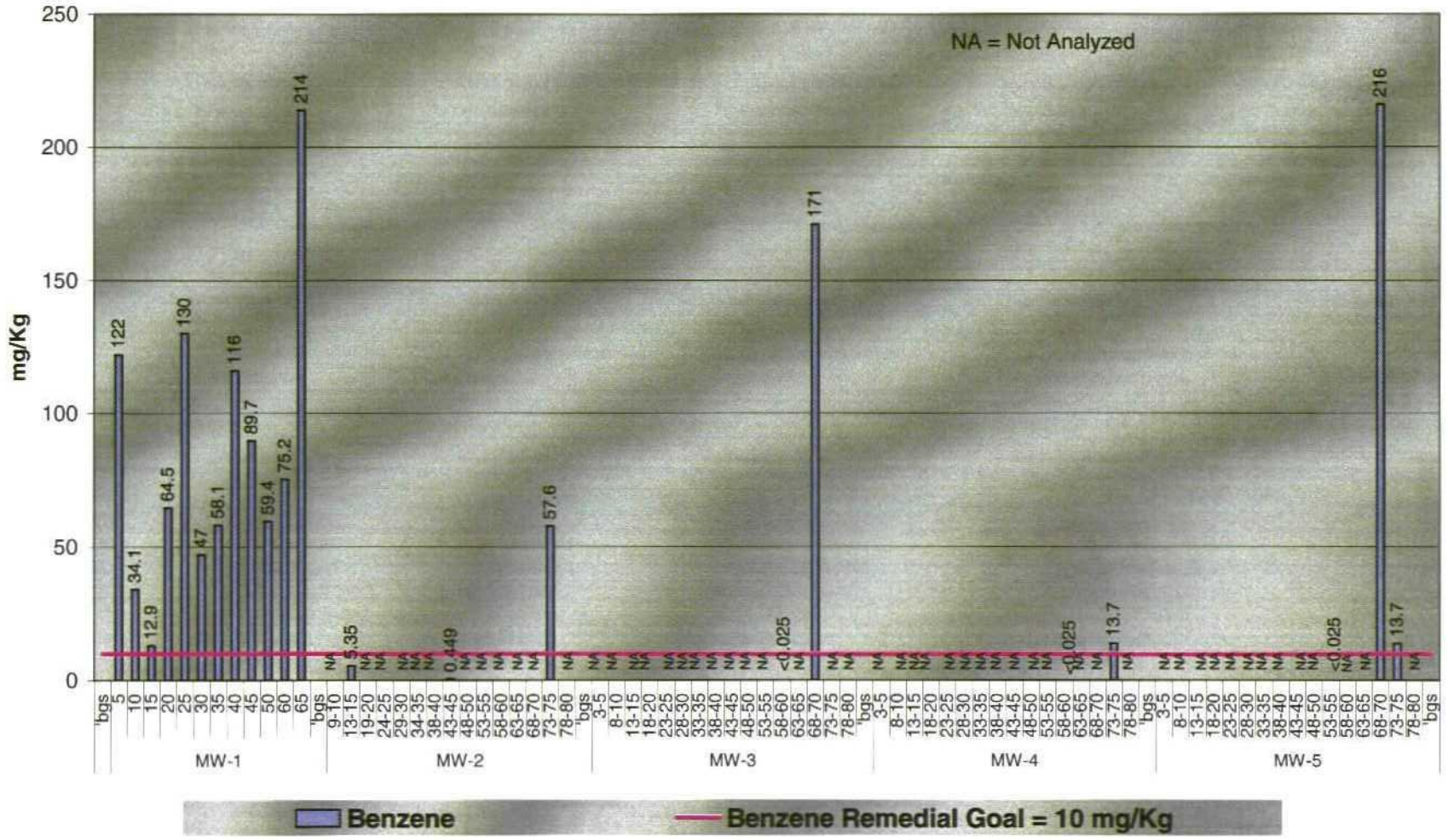

Figure 11: Monitoring Wells MW1-MW5 Benzene Analytical Results

Plains Pipeline L.P.
C.S. Cayler #2002-10250
Monitoring Wells MW6 through MW10 Soil Analytical
Benzene

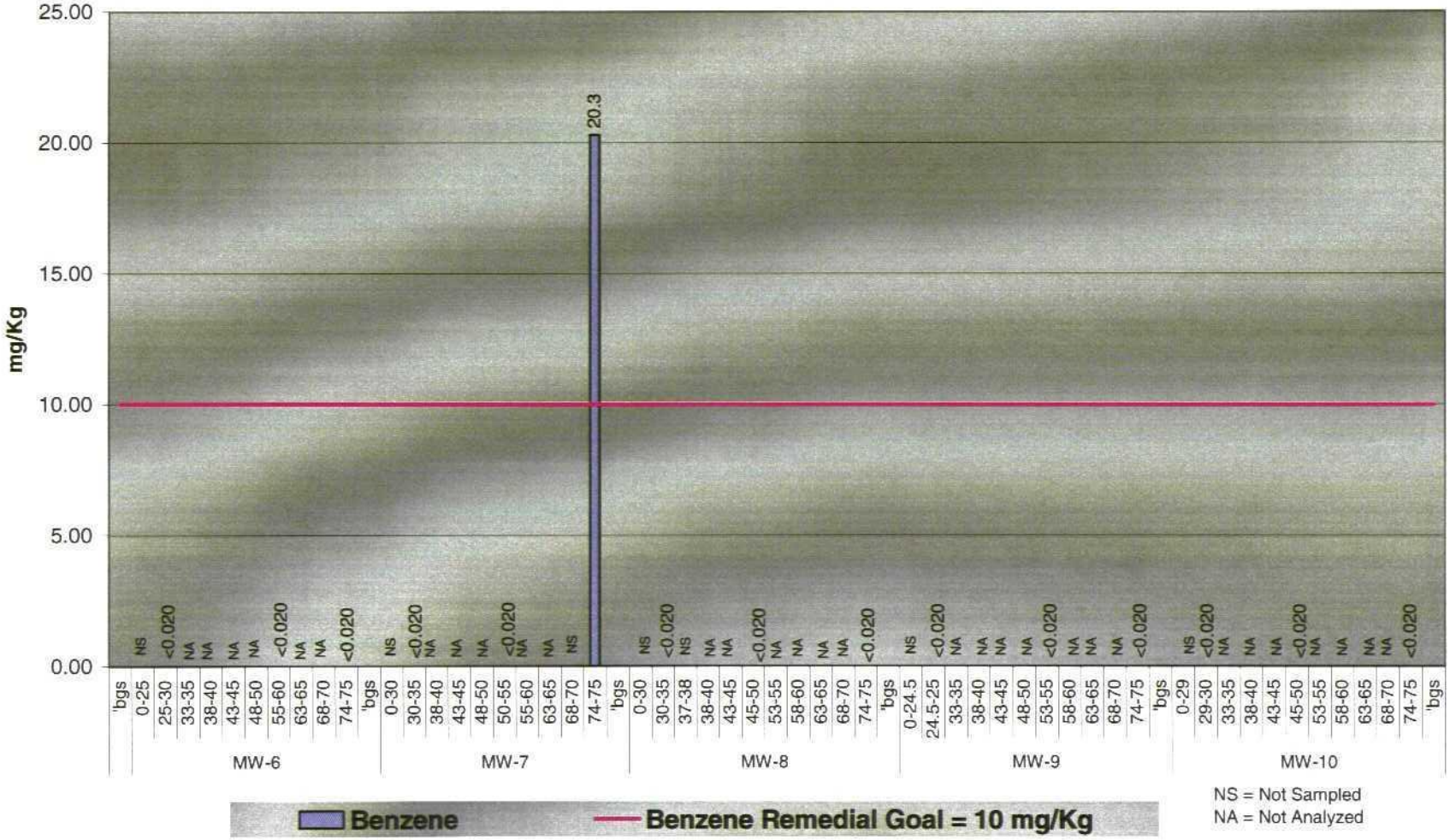

Figure 12: Monitoring Wells MW6-MW10 Benzene Analytical Results

Plains Pipeline L.P.
C.S. Cayler #2002-10250
Monitoring Wells MW1 through MW5 Soil Analytical
BTEX

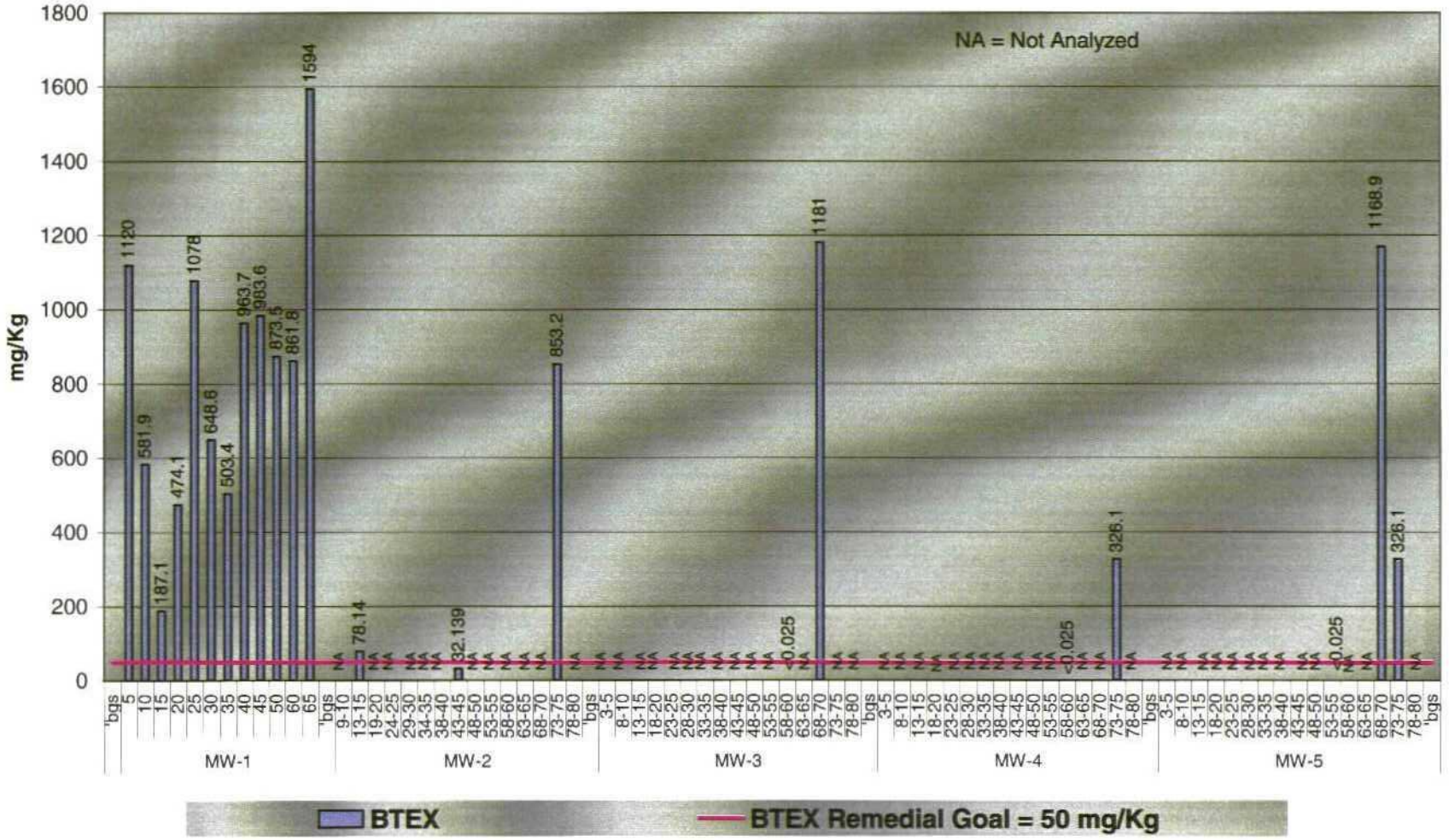

Figure 13: Monitoring Wells MW1 through MW5 BTEX Analytical Results

Plains Pipeline L.P.
C.S. Cayler #2002-10250
Monitoring Wells MW6 through MW10 Soil Analytical
BTEX

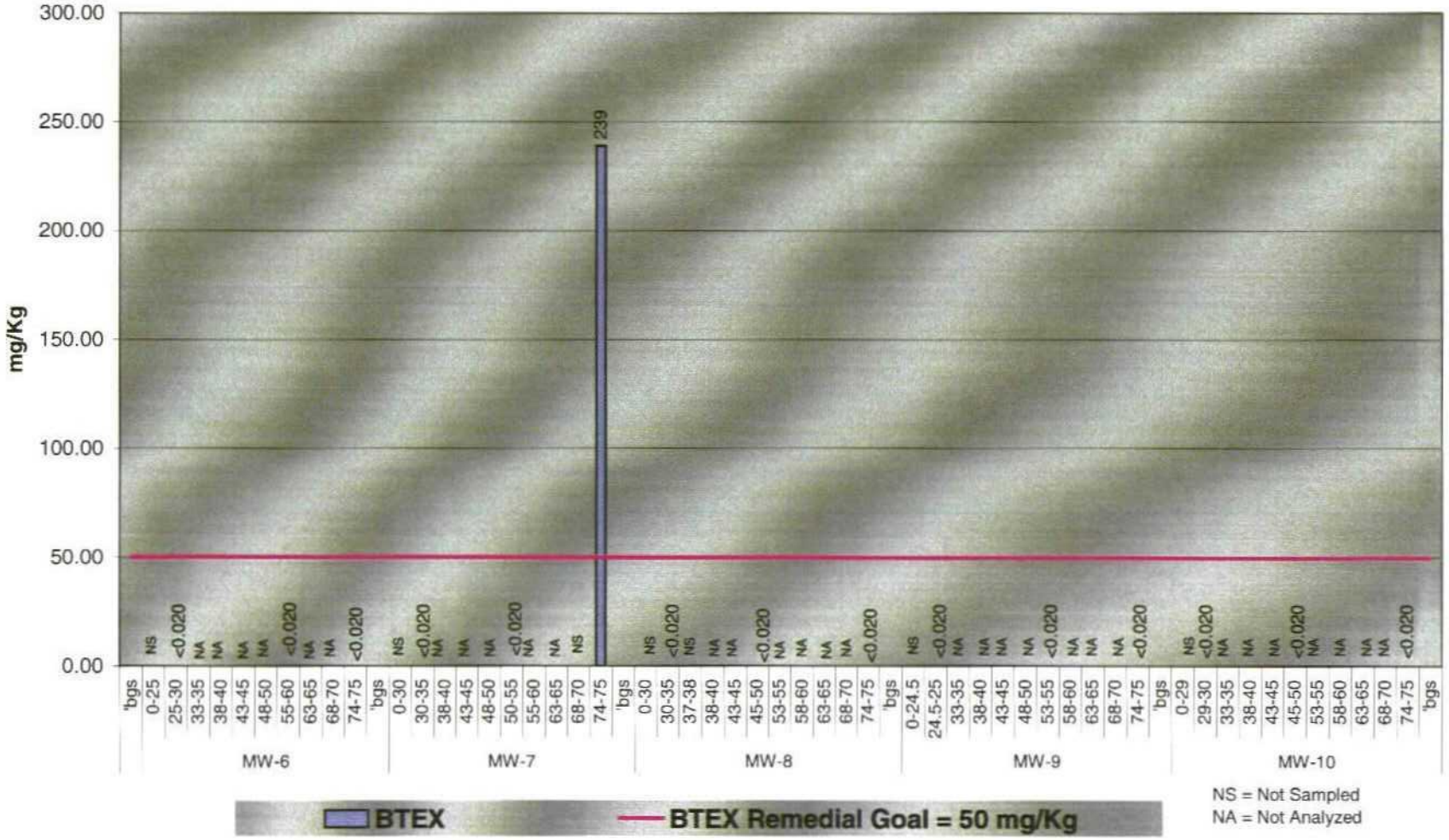

Figure 14: Monitoring Wells MW6 through MW10 BTEX Analytical Results

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

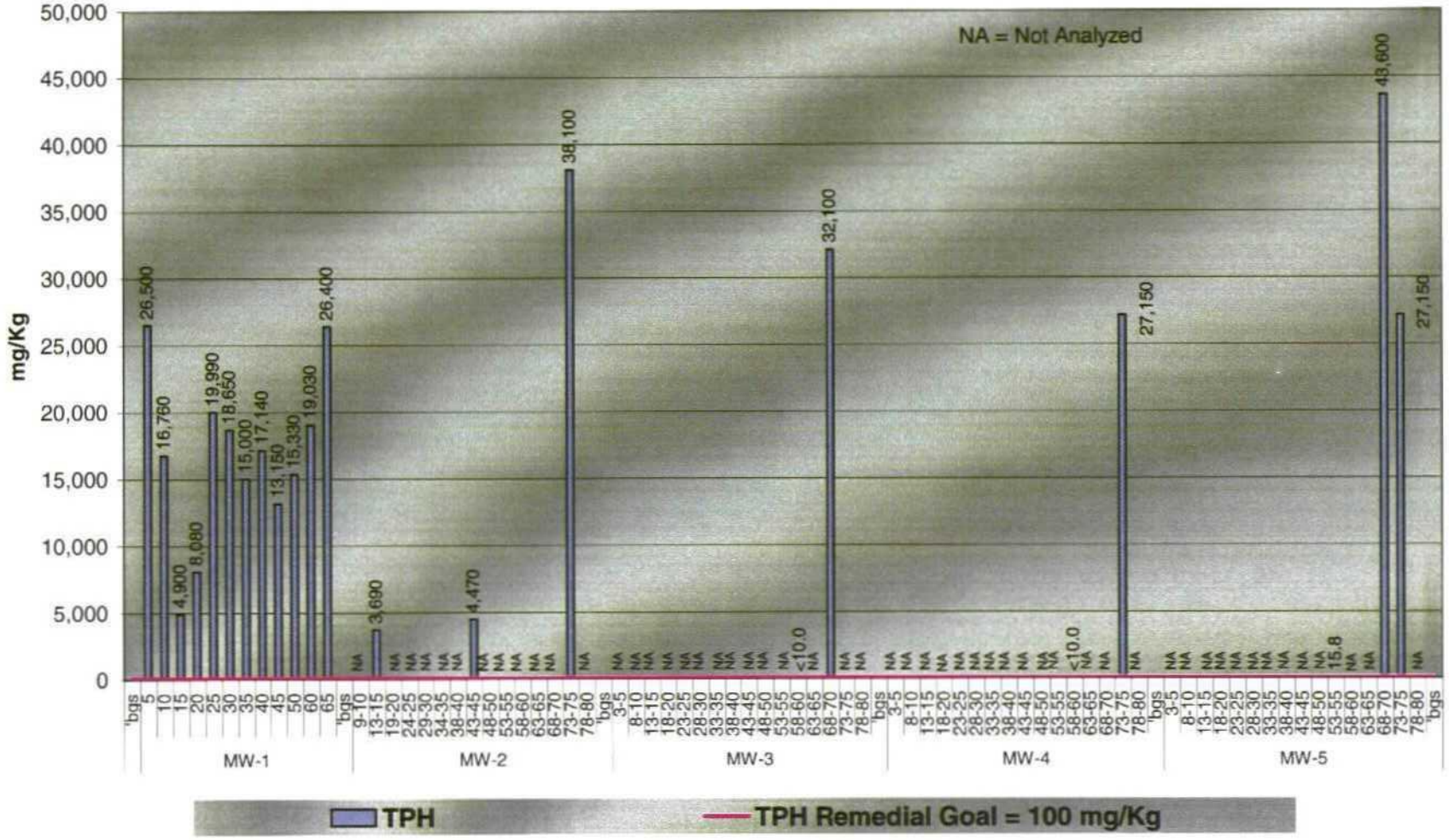

Figure 15: Monitoring Wells MW1 through MW5 TPH Analytical Results

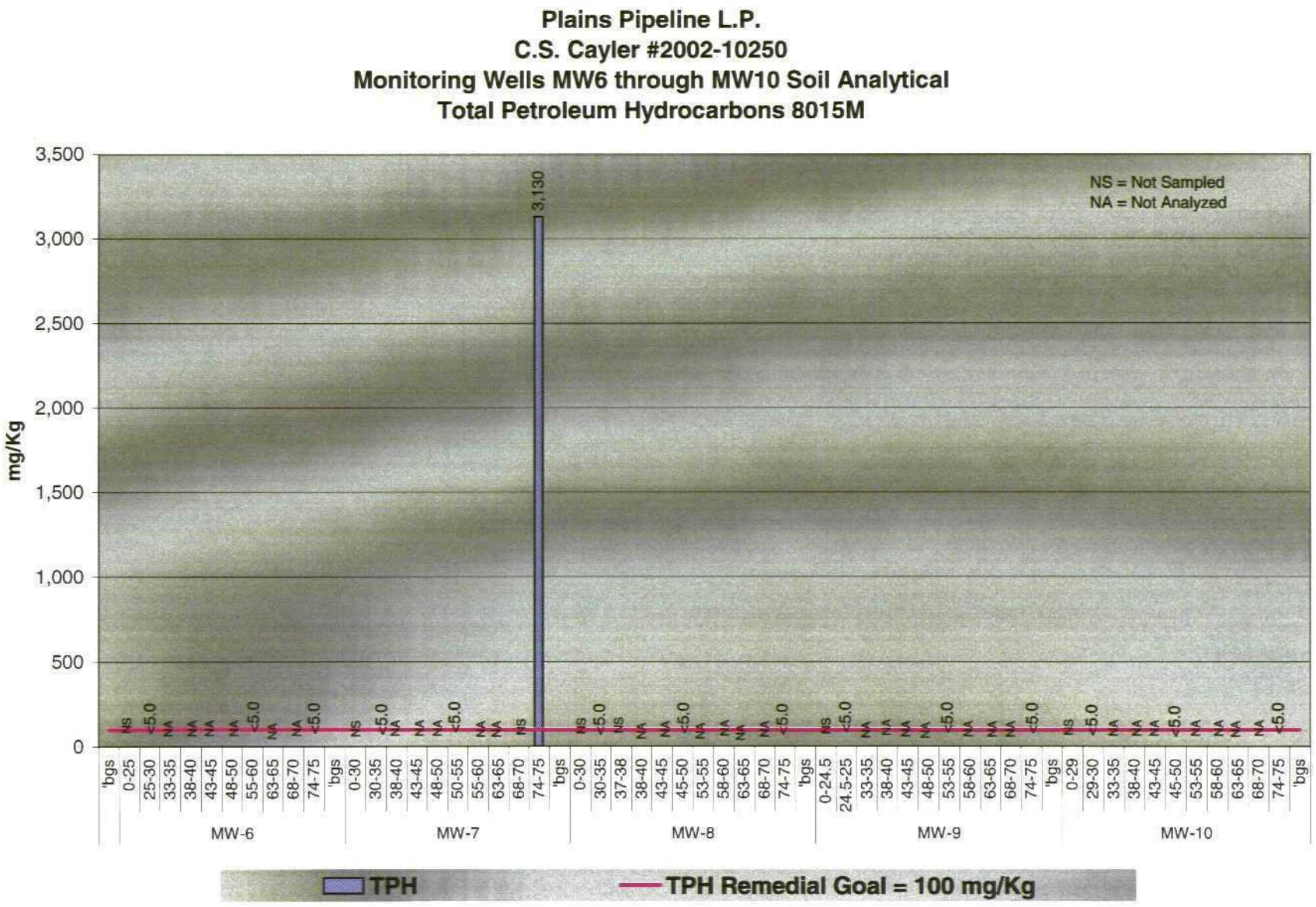

Figure 16: Monitoring Wells MW6 through MW10 TPH Analytical Results

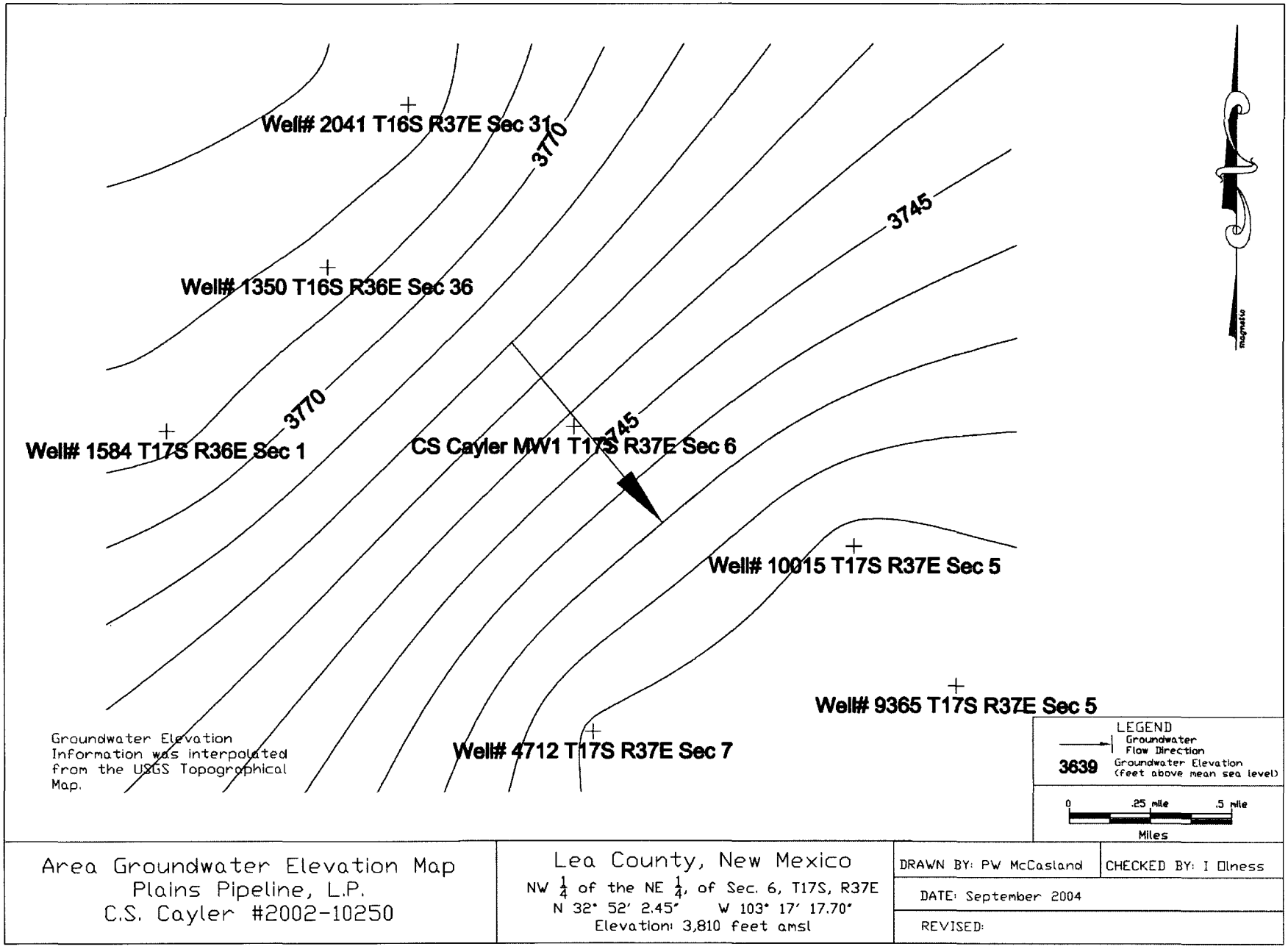

Figure 17: C.S. Cayler Area Groundwater Gradient Map

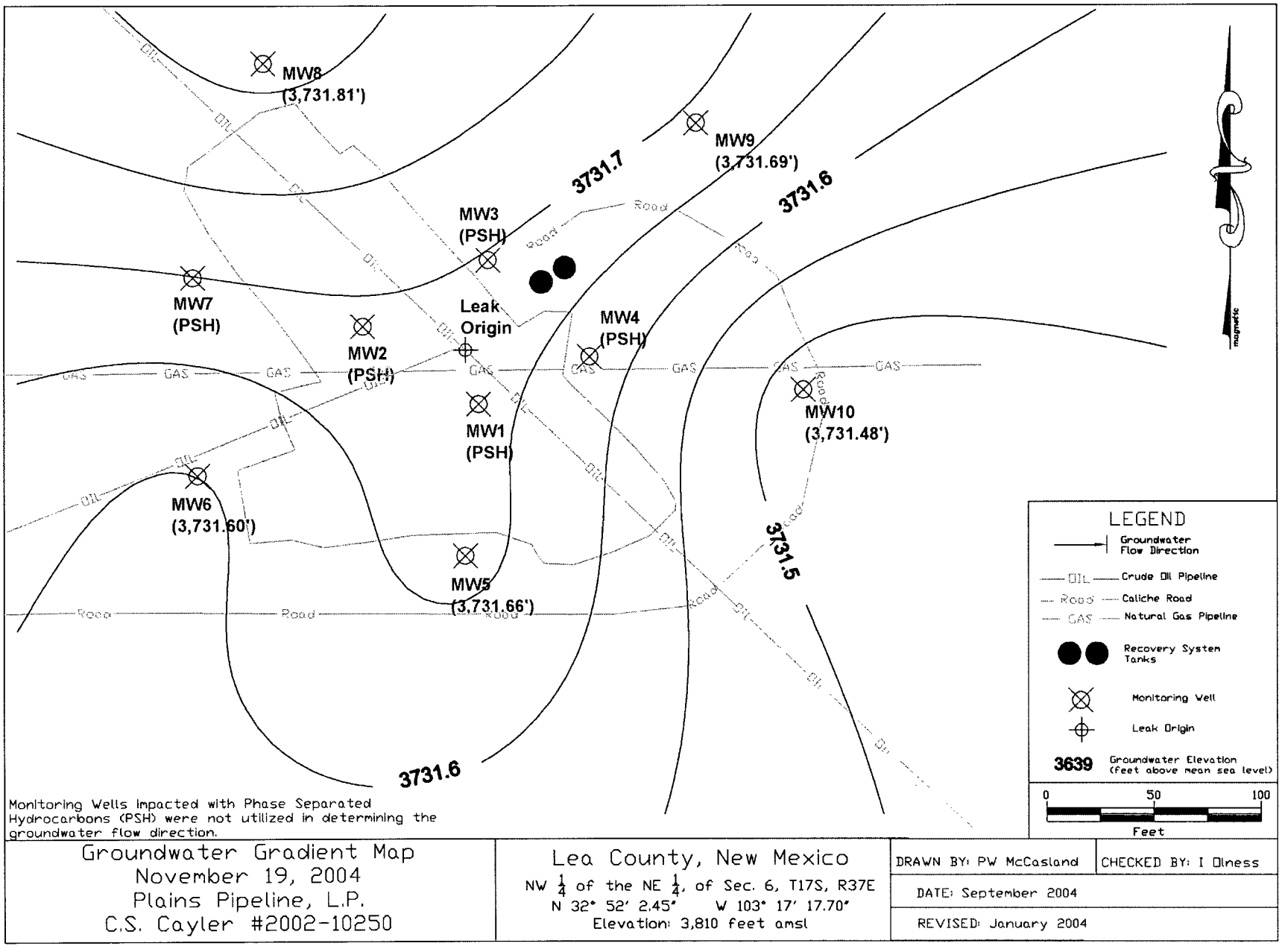

Figure 18: C.S. Cayler November 2004 Groundwater Gradient Map

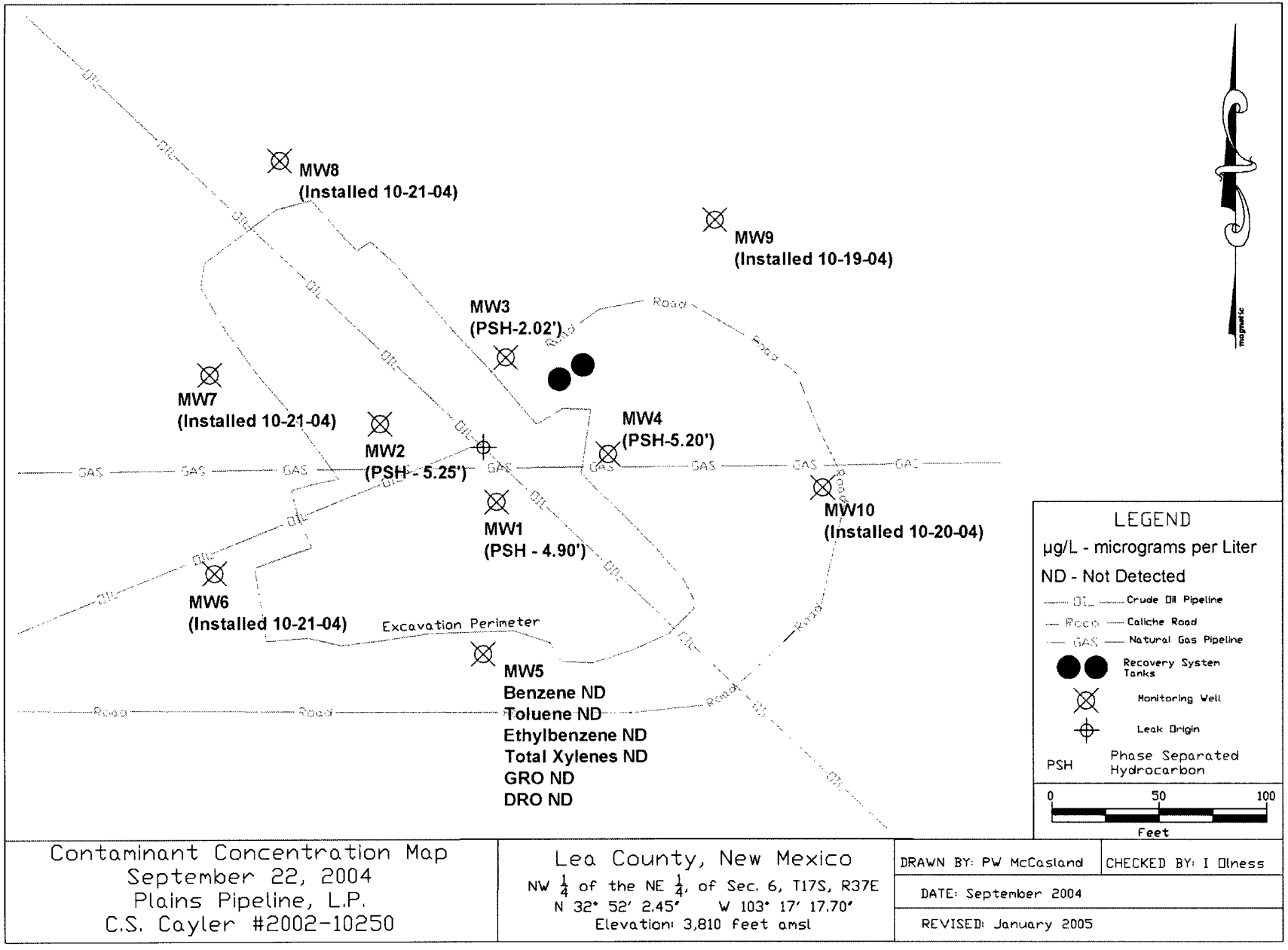

Figure 19: C.S. Cayler September 2004 Contaminant Concentration Map

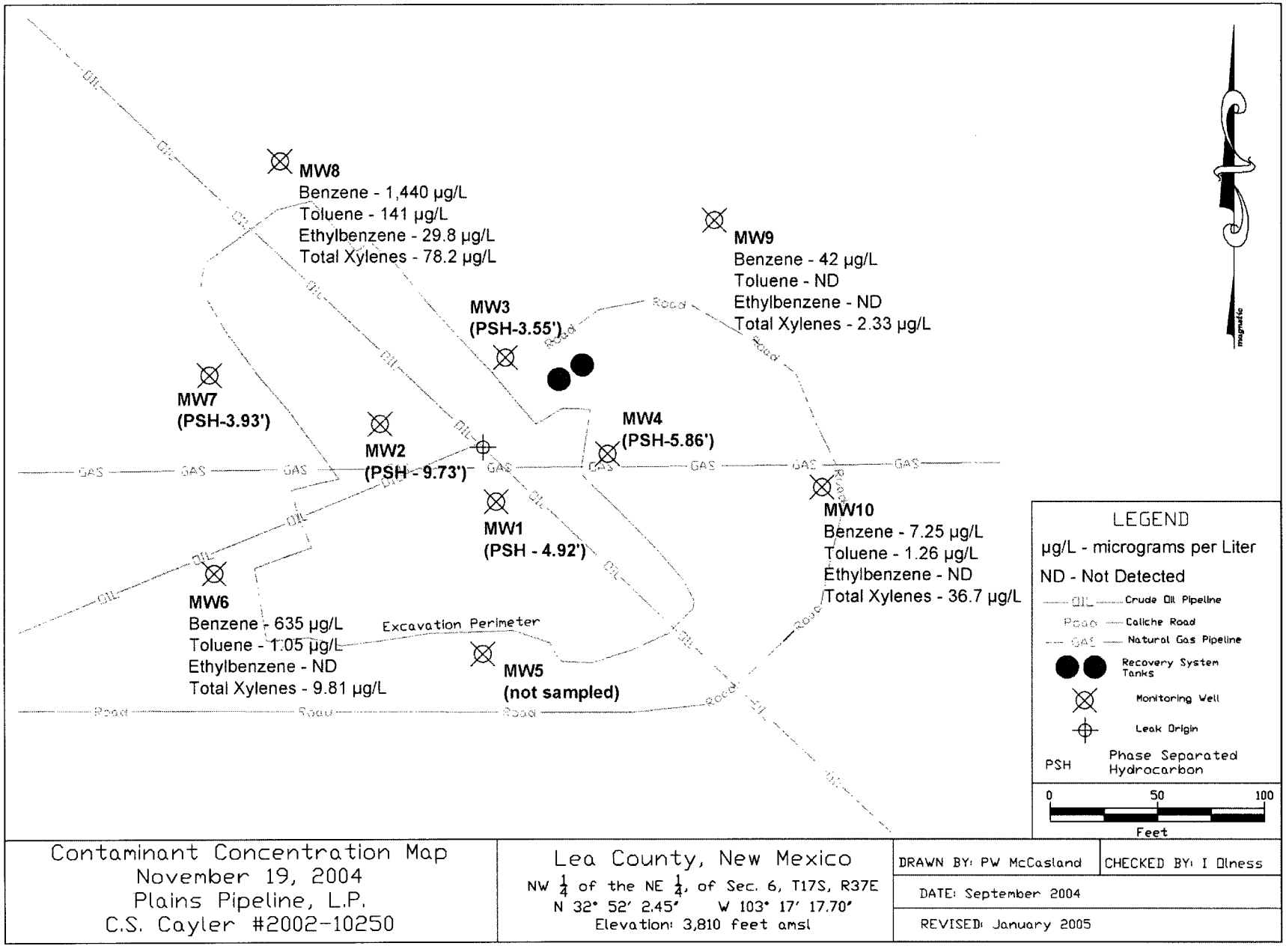

Figure 20: C.S. Cayler November 2004 Contaminant Concentration Map

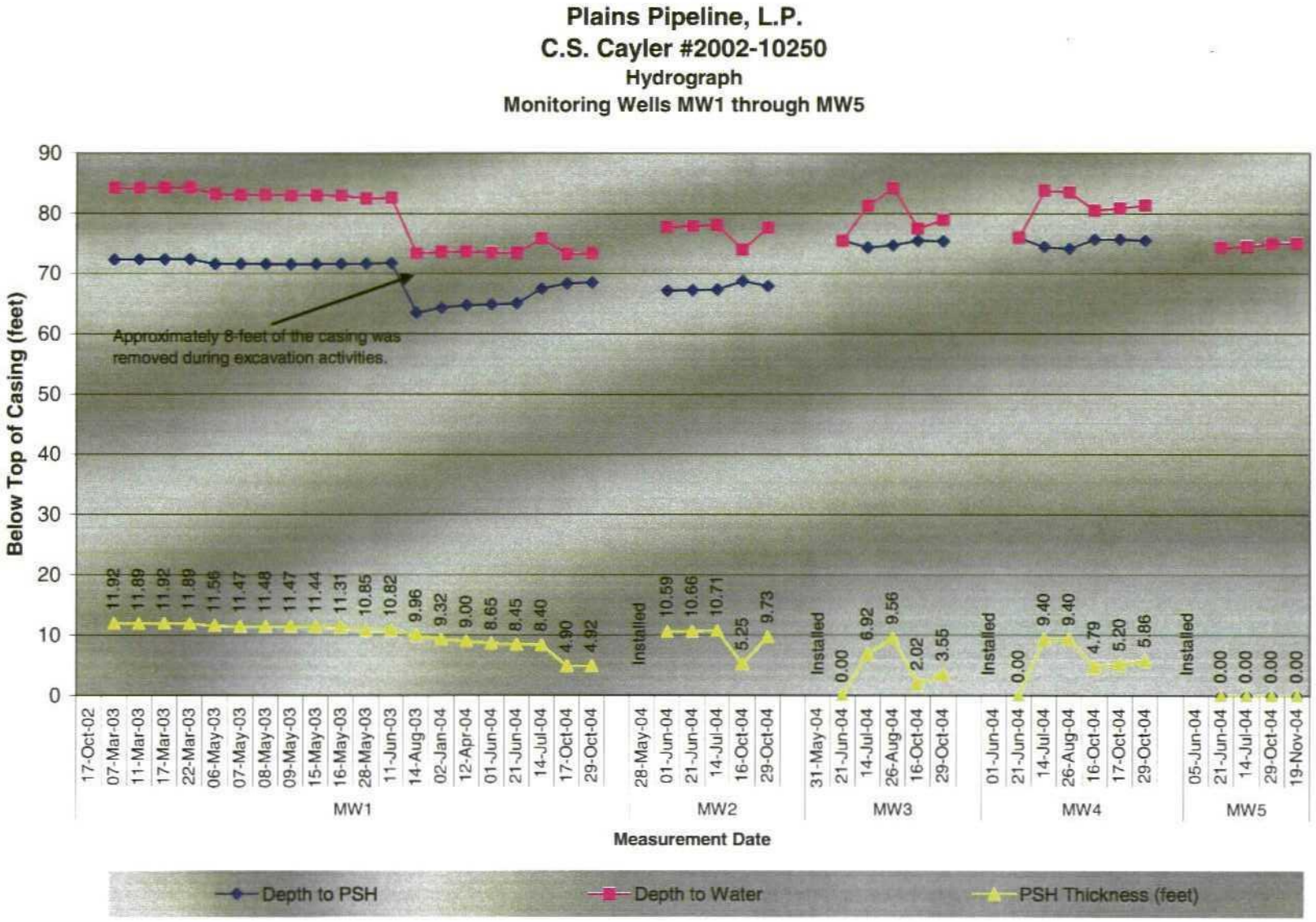

Figure 21: Monitor Wells MW1 through MW5 Water and PSH Levels and PSH Thickness

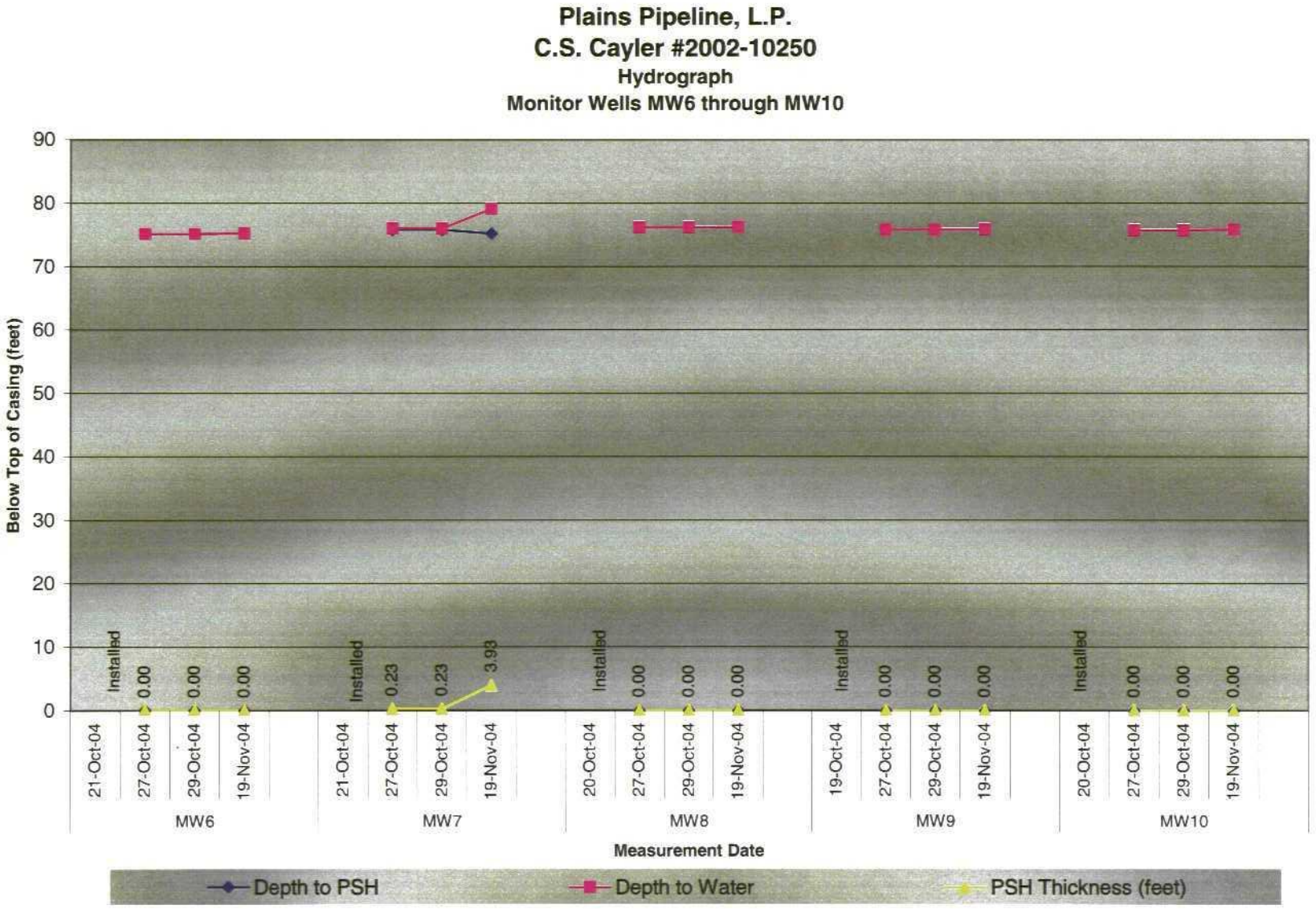

Figure 22: Monitor Wells MW6 through MW10 Water and PSH Levels and PSH Thickness

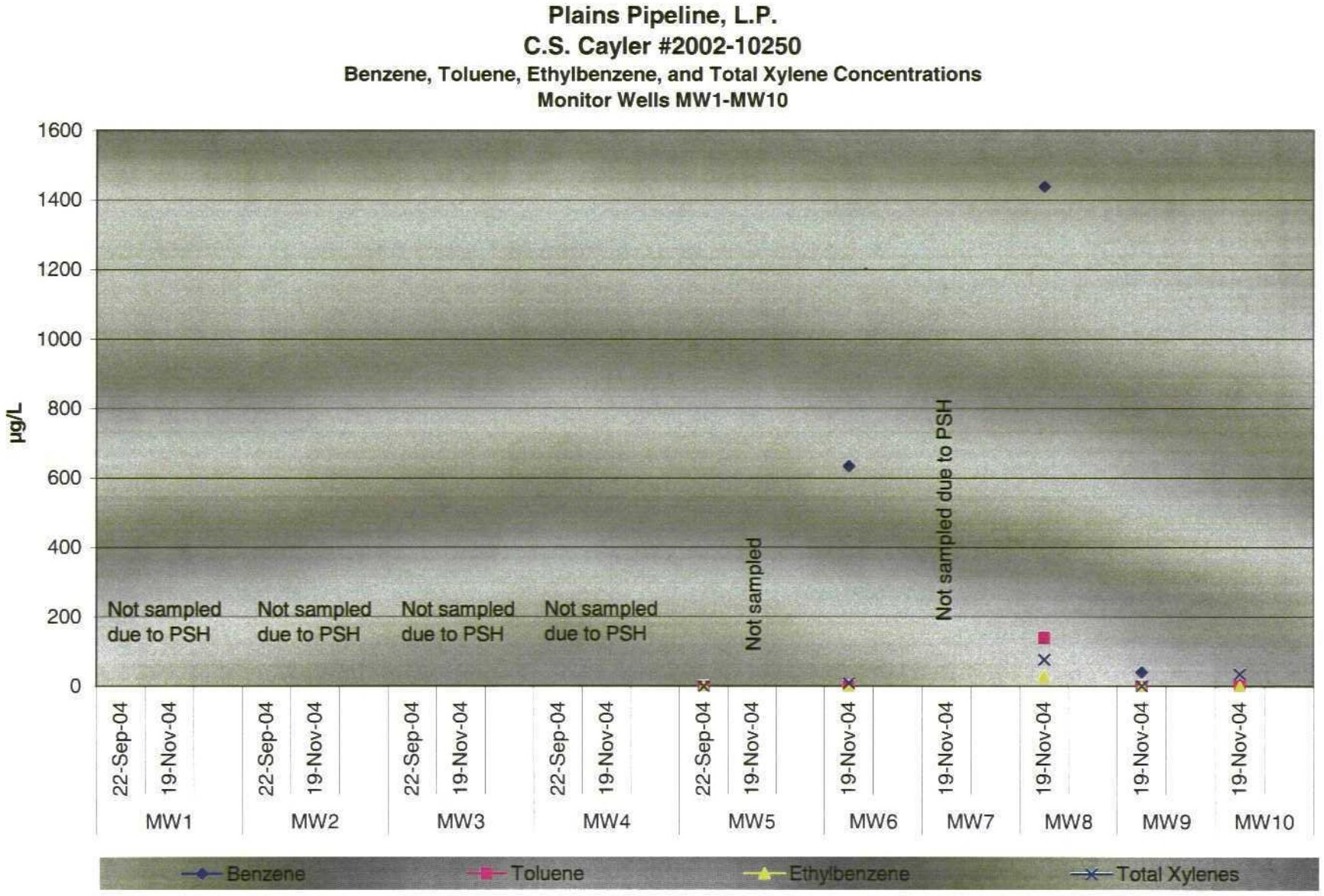

Figure 23: C.S. Cayler Groundwater BTEX Concentrations

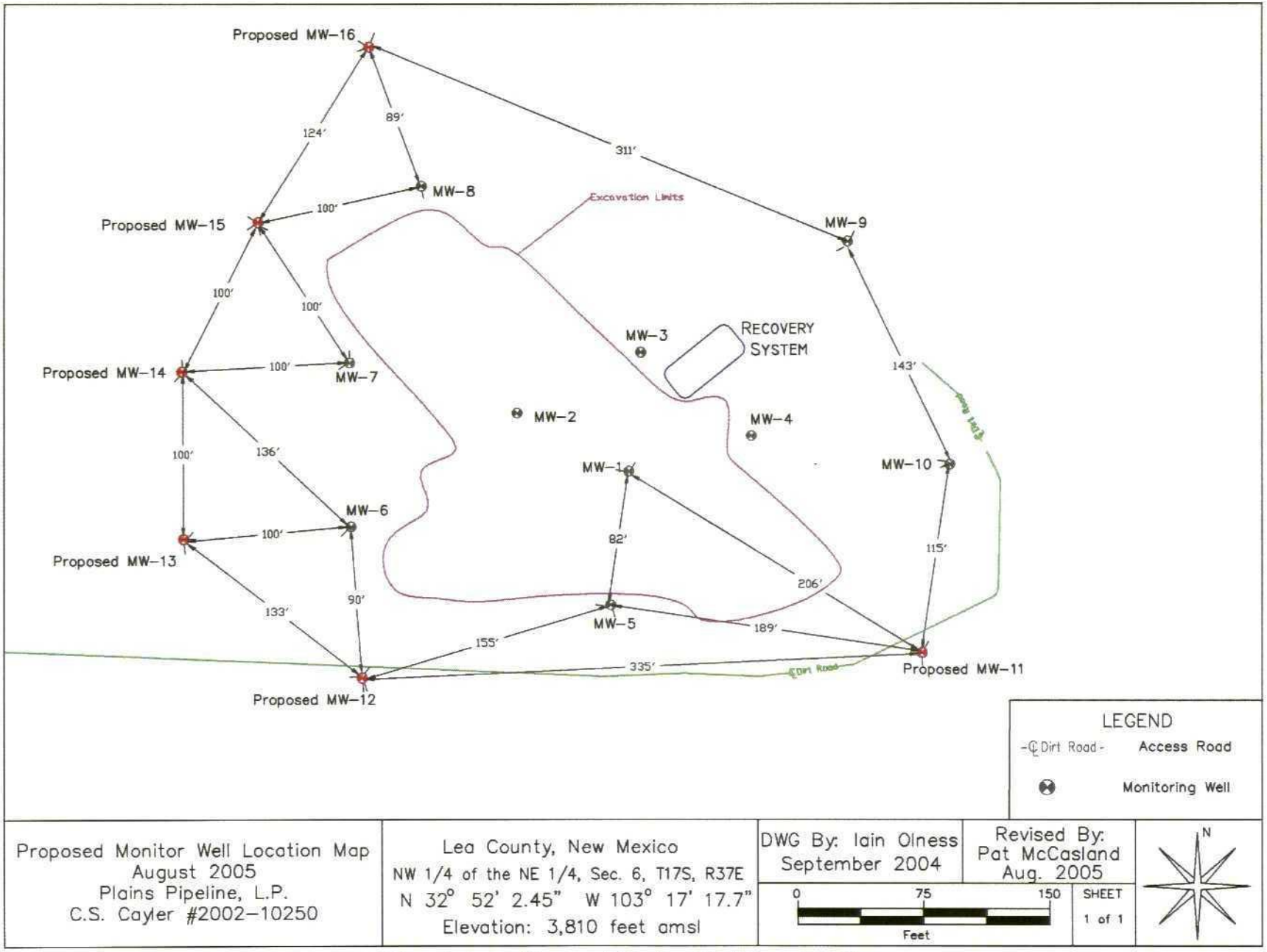

Figure 24: Proposed Monitor Well Location Map

TABLES

Table 1: C.S. Cayler Soil Boring Analytical Summary

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

Soil Boring (BH)	Sampling Interval ([4]bgs)	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	8,080
	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
	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
BH2	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	32,200
	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
BH4	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
	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
NMOCD Remedial Thresholds						**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 2: C.S. Cayler Monitoring Well Soil Analytical Summary

Plains Pipeline, 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-1 (MW-1was installed in the BH-1 soil boring)	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	89.1	204	82.7	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	8,080
	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
	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
MW-2	0-7	--	--	Bottom of Excavation	--	--	--	--	--	--	--	--	--	--
	9-10	MW-2 (9'-10')	5/27/2004	Caliche	1157	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-2 (13'-15')	5/27/2004	Caliche	1282	5.35	29.1	7.99	25.1	10.6	78.1	1,430	2,260	3,690
	19-20	MW-2 (19'-20')	5/27/2004	Caliche	1312	NA	NA	NA	NA	NA	NA	NA	NA	NA
	24-25	MW-2 (24'-25')	5/27/2004	Caliche	1555	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-30	MW-2 (29'-30')	5/27/2004	Sand	1899	NA	NA	NA	NA	NA	NA	NA	NA	NA
	34-35	MW-2 (34'-35')	5/27/2004	Sand	1360	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-2 (38'-40')	5/27/2004	Sand	1821	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-2 (43'-45')	5/27/2004	Sand	480	0.449	6.42	6.14	13.4	5.73	32.1	1,180	3,290	4,470
	48-50	MW-2 (48'-50')	5/27/2004	Sand	2434	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-2 (53'-55')	5/27/2004	Sand	1030	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-2 (58'-60')	5/27/2004	Sand	1479	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	MW-2 (63'-65')	5/27/2004	Sand	1477	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-2 (68'-70')	5/27/2004	Sand	1074	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	MW-2 (73'-75')	5/27/2004	Sand (moist)	2999	57.6	330	146	238	81.6	853	15,600	22,500	38,100
	78-80	MW-2 (78'-80')	5/27/2004	Sand (wet)	1163	NA	NA	NA	NA	NA	NA	NA	NA	NA

Plains Pipeline, 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[5]) (mg/Kg)	TPH (DRO[5]) (mg/Kg)	Total TPH (mg/Kg)
MW-3	3-5	MW-3 (3'-5')	6/9/2004	tan medium to coarse sand w/ some pebbles	121	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-3 (8'-10')	6/9/2004	tan medium to coarse sand w/ some pebbles	23.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-3 (13'-15')	6/9/2004	tan fine to medium sand w/ some pebbles	38.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-3 (18'-20')	6/9/2004	tan fine to medium sand w/ some pebbles	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-3 (23'-25')	6/9/2004	tan fine to medium sand w/ some pebbles	111	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-3 (28'-30')	6/9/2004	red brown fine to coarse sand	91.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-3 (33'-35')	6/9/2004	tan fine to medium sand w/ caliche	86.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-3 (38'-40')	6/9/2004	red brown fine to medium sand	82.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-3 (43'-45')	6/9/2004	tan fine to medium sand	92.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-3 (48'-50')	6/9/2004	tan sand	101	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-3 (53'-55')	6/9/2004	tan sand	126	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-3 (58'-60')	6/9/2004	tan sand w/ caliche (odorous)	924	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
	63-65	MW-3 (63'-65')	6/9/2004	tan sand (odorous)	161	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-3 (68'-70')	6/9/2004	red brown fine to medium sand w/ some clay (odorous)	1770	171	450	162	291	107	1181	15,700	16,400	32,100
	73-75	MW-3 (73'-75')	6/9/2004	red brown fine to coarse sand w/ some clay (odorous)	1261	NA	NA	NA	NA	NA	NA	NA	NA	NA
	78-80	MW-3 (78'-80')	6/9/2004	red brown fine sand w/ some clay & pebbles (odorous)	151	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	3-5	MW-4 (3'-5')	6/15/2004	Caliche	232	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	MW-4 (8'-10')	6/15/2004	Caliche	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	MW-4 (13'-15')	6/15/2004	Caliche	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	MW-4 (18'-20')	6/15/2004	Caliche	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	MW-4 (23'-25')	6/15/2004	Caliche sand	45.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	MW-4 (28'-30')	6/15/2004	Sand	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	MW-4 (33'-35')	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	MW-4 (38'-40')	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	MW-4 (43'-45')	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	MW-4 (48'-50')	6/15/2004	Sand	17.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	MW-4 (53'-55')	6/15/2004	Sand	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	MW-4 (58'-60')	6/15/2004	Sand	7.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
	63-65	MW-4 (63'-65')	6/15/2004	Sand	90.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	MW-4 (68'-70')	6/15/2004	Sand (damp)	1060	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	MW-4 (73'-75')	6/15/2004	Sand (damp)	1353	13.7	96.0	63.6	107	45.8	326	6,950	20,200	27,150
	78-80	MW-4 (78'-80')	6/15/2004	Sand (wet)	112	NA	NA	NA	NA	NA	NA	NA	NA	NA

Plains Pipeline, 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[5]) (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
	78-80	MW-5 (78'-80')	6/14/2004	Sand (wet)	169	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	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 calcihe mix (caliche top 1')	27.6	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5
	33-35	MW-6 (33'-35')	10/21/2004	Reddish brown sand calcihe 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	<.020	<.020	<.020	<.040	<.020	<.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	<.020	<.020	<.020	<.040	<.020	<.020	<2.5	<5	<5

Plains Pipeline, 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[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
	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 (rig 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
MW-8	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
	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

Plains Pipeline, 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
MW-10	0-5	MW-10 (74'-75')	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	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 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 3: C.S. Cayler Soil Lift Analytical Summary

Plains Pipeline, 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
				(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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: C.S. Cayler Groundwater and PSH Levels and PSH Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Relative Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW1	17-Oct-02	WELL INSTALLED 17-Oct-02				
	07-Mar-03	3,801.64	72.28	84.20	3,728.17	11.92
	11-Mar-03		72.30	84.19	3,728.15	11.89
	17-Mar-03		72.33	84.25	3,728.12	11.92
	22-Mar-03		72.35	84.24	3,728.10	11.89
	06-May-03		71.55	83.11	3,728.93	11.56
	07-May-03		71.58	83.05	3,728.91	11.47
	08-May-03		71.55	83.03	3,728.94	11.48
	09-May-03		71.53	83.00	3,728.96	11.47
	15-May-03		71.57	83.01	3,728.93	11.44
	16-May-03		71.59	82.90	3,728.92	11.31
	28-May-03		71.65	82.50	3,728.91	10.85
	11-Jun-03		71.75	82.57	3,728.81	10.82
	14-Aug-03		63.45	73.41	3,737.19	9.96
	02-Jan-04		64.31	73.63	3,736.40	9.32
	12-Apr-04		64.74	73.74	3,736.00	9.00
	01-Jun-04		64.87	73.52	3,735.91	8.65
	21-Jun-04		65.04	73.49	3,735.76	8.45
	14-Jul-04		67.52	75.92	3,733.28	8.40
	17-Oct-04		68.38	73.28	3,732.77	4.90
	29-Oct-04		68.53	73.45	3,732.62	4.92
MW2	28-May-04	WELL INSTALLED 28-May-04				
	01-Jun-04	3,801.59	67.17	77.76	3,733.36	10.59
	21-Jun-04		67.27	77.93	3,733.25	10.66
	14-Jul-04		67.38	78.09	3,733.14	10.71
	16-Oct-04		68.79	74.04	3,732.28	5.25
	29-Oct-04		67.97	77.70	3,732.65	9.73
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
MW4	01-Jun-04	WELL INSTALLED 01-Jun-04				
	21-Jun-04	3,808.42	76.04	76.04	3,732.38	ND
	14-Jul-04		74.51	83.91	3,732.97	9.40
	26-Aug-04		74.21	83.61	3,733.27	9.40
	16-Oct-04		75.77	80.56	3,732.17	4.79
	17-Oct-04		75.76	80.96	3,732.14	5.20
	29-Oct-04		75.56	81.42	3,732.27	5.86
MW5	05-Jun-04	WELL INSTALLED 05-Jun-04				
	21-Jun-04	3,806.76	--	74.42	3,732.34	ND
	14-Jul-04		--	74.53	3,732.23	ND
	29-Oct-04		--	75.00	3,731.76	ND
	19-Nov-04		--	75.10	3,731.66	ND

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation	Depth to PSH	Depth to Water	Corrected Relative Groundwater Elevation	PSH Thickness
		(feet)	BTOC (feet)*	BTOC (feet)*	(feet)*	(feet)
MW6	21-Oct-04	WELL INSTALLED 21-Oct-04				
	27-Oct-04	3,806.83	- -	75.13	3,731.70	ND
	29-Oct-04		- -	75.13	3,731.70	ND
	19-Nov-04		- -	75.23	3,731.60	ND
MW7	21-Oct-04	WELL INSTALLED 21-Oct-04				
	27-Oct-04	3,807.70	75.82	76.05	3,731.86	0.23
	29-Oct-04		75.82	76.05	3,731.86	0.23
	19-Nov-04		75.21	79.14	3,732.10	3.93
MW8	20-Oct-04	WELL INSTALLED 20-Oct-04				
	27-Oct-04	3,808.07	- -	76.20	3,731.87	ND
	29-Oct-04		- -	76.20	3,731.87	ND
	19-Nov-04		- -	76.26	3,731.81	ND
MW9	19-Oct-04	WELL INSTALLED 19-Oct-04				
	27-Oct-04	3,807.60	- -	75.85	3,731.75	ND
	29-Oct-04		- -	75.85	3,731.75	ND
	19-Nov-04		- -	75.91	3,731.69	ND
MW10	20-Oct-04	WELL INSTALLED 20-Oct-04				
	27-Oct-04	3,807.32	- -	75.76	3,731.56	ND
	29-Oct-04		- -	75.76	3,731.56	ND
	19-Nov-04		- -	75.84	3,731.48	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

Table 5: C.S. Cayler Summary of Groundwater Analytical Results

Plains Pipeline, 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	
								GRO	DRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(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							
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							
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							
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							
MW5	22-Sep-04	<1	<1	<1	<2	<1	<2	<0.5	<0.5
	19-Nov-04	Not Sampled							
MW6	19-Nov-04	635	1.05	<1	9.81	<1	9.81		
MW7	19-Nov-04	Not Sampled Due to the Presence of Phase Separated Hydrocabons							
MW8	19-Nov-04	1,440	141	29.8	62.6	15.6	78.2		
MW9	19-Nov-04	42	<1	<1	2.33	<1	2.33		
MW10	19-Nov-04	7.25	1.26	<1	36.7	<1	36.7		
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: C.S. Cayler Summary of Groundwater Analytical Results - PAH

Plains Pipeline, L.P.
C. S. Cayler - Ref. #2002-10250
CONCENTRATIONS OF SEMI-VOLATILES IN GROUNDWATER

MONITORING WELL	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[j,k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indenol[1,2,3-cd]pyrene	1-Methylnapthlene	2-Methylnapthlene	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	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	NA	NA	<0.05	<0.05	<0.05

NA - Not Analyzed
µg/L - micrograms per Liter
mg/L - milligrams per Liter

Table 7: C.S. Cayler PSH Declination Table

Plains Pipeline, 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
MW2	Jun-04	10.59	
	Oct-04	9.73	-0.86
MW3	Jul-04	6.92	
	Oct-04	3.55	-3.37
MW4	Jul-04	9.4	
	Oct-04	5.86	-3.54
MW5	2004	no PSH	--
MW6	2004	no PSH	--
MW7	Oct-04	0.23	
	Nov-04	3.93	3.70
MW8	2004	no PSH	--
MW9	2004	no PSH	--
MW10	2004	no PSH	--

Table 8: C.S. Cayler 2005 Recommendations

Plains Pipeline, 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

AnalySys Inc.

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#: 159903 **Report Date:** 10/05/04
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 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.

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.

ANALYSYS INC.

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-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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**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.

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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	Brett Clay

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: Camille Reynolds
PO Box 1660,
Midland, TX 79701

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH
159903 1	MW-5	G	6	X						X	X		22-Sep	11:00	X	X						X
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Sampler Relinquished: Iain Olness	Date 9/23/04 Time 1630	Received By:	E-mail results to: iolness@hotmail.com and enviplus1@aol.com
Relinquished by:	Date 9/24/04 Time 1325	Received By: (lab staff)	REMARKS:
Delivered by:	Sample Cool & Intact Yes No	Checked By:	T:5.9 C

AnalySys, Inc.
[redacted] 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#: 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

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	---		---		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.

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.

CHEMSYS INC.
5512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

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

AnalySys Inc.
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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#: 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]
Volatile 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

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.

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.

INC.
2309 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161943
Attn: Iain Olness	**Sample Name:** CSC111904MW8	**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.

ANALYSYS INC.

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#: 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]
Volatile 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

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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.

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

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

AnalySys Inc.
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#: 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]
Volatile 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

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.

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.

INC.
[redacted], Austin, TX [redacted] &
[redacted] 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:** 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.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston TX 77210-4648

ANALYSIS REQUEST

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
161942	1	CSC111904MW6	G	3	X						X	X		19-Nov	12:50	X										
161943	2	CSC111904MW8	G	3	X						X	X		19-Nov	9:36	X										
161944	3	CSC111904MW9	G	3	X						X	X		19-Nov	11:12	X										
161945	4	CSC111904MW10	G	3	X						X	X		19-Nov	10:18	X										
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									

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

T: 5.9°C

Appendix II: Laboratory Analytical Reports - Soil

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 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	Project: C.S. Cayler Gathering	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10250	**Reported:**
Midland TX, 79706-4476	Project Manager: Jimmy Bryant	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

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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

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Quality Assurance Review

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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1170 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*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	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*35.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*67.6 %*	*70-130*		"	"	"	"	*S-06*

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Quality Assurance Review

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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Quality Assurance Review

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Organics by GC - Quality Control

Environmental Lab of Texas

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

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Quality Assurance Review

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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*			
LCS (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*			

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Quality Assurance Review

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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Quality Assurance Review

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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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Quality Assurance Review

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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	Project: C.S. Cayler	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10250	**Reported:**
Midland TX, 79706-4476	Project Manager: Jimmy Bryant	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

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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*

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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	

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)										
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*			

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Organics by GC - Quality Control
Environmental Lab of Texas

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

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Organics by GC - Quality Control
Environmental Lab of Texas

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

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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		%							
Duplicate (EF41301-DUP1)		**Source: 4F11001-01**		Prepared & Analyzed: 06/11/04						
% Solids	86.0		%		86.0			0.00	20	
Duplicate (EF41301-DUP2)		**Source: 4F12001-17**		Prepared & Analyzed: 06/11/04						
% Solids	86.0		%		87.0			1.16	20	

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: Raland K. Tuttle 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.

Environmental Lab of Texas, Inc.

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

Project Manager: Jimmy Bryant
Company Name: Plains All American
Company Address: 5805 E. HIGHWAY 80
City/State/Zip: MIDLAND, TX 79701
Telephone No: (505) 631-3095
Sampler Signature: Maria Burkett EPI - Environmental Consultant

Project Name: C.S. Cayler
Project #: 2002-10250
Project Loc: UL-B Section 6 T17S R37E
PO#:

4oz glass

LAB ID	SAMPLE IDENTIFICATION	Date Sampled	Time Sampled	No. of Containers	Preservative: ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Type: Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/Cl/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals *	Volatiles *	Semivolatiles *	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiability	Chlorides	Sulfates		RUSH TAT	Standard TAT
																TCLP / TOTAL							X								
4F11010																															
-01	MW-3 (58'-60')	9-Jun	9:34	1	X									X					X				X								X
-02	MW-3 (68'-70')	9-Jun	9:52	1	X									X					X				X								X

Special Instructions

FAX RESULTS TO Iain Olness [505-394-2601]

Sample Containers Intact? (Y) N
Temperature Upon Request
Laboratory Comments:
0.5°C

Relinquished:	Date	Time	Received by:	Date	Time
Maria Burkett	6-9-4	1600		6/10/04	8:30
Relinquished:	Date	Time	Received by:	Date	Time
	6-11-04	10:30	Sandra Bejarano	6/11/04	10:30

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	0.5 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:

_____

_____

_____

_____

_____

_____

_____

_____

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-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

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	"	"	"	"	"	"	

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*

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	

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)										
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*			

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Organics by GC - Quality Control
Environmental Lab of Texas

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

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*			

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Organics by GC - Quality Control
Environmental Lab of Texas

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

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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		%							
Duplicate (EF41806-DUP1)		**Source: 4F17003-01**		Prepared & Analyzed: 06/17/04						
% Solids	93.0		%		93.0			0.00	20	

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Notes and Definitions

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

Report Approved By: 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.

Environmental Lab of Texas, Inc.

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

Project Manager: Jimmy Bryant
Company Name: Plains All American
Company Address: 5805 E. HIGHWAY 80
City/State/Zip: MIDLAND, TX 79701
Telephone No: (505) 631-3095
Sampler Signature: Iain Olness EPI - Environmental Consultant

Project Name: C.S. Cayler
Project #: 2002-10250
Project Loc: UL-B Section 6 T17S R37E
PO#:

4oz glass

LAB ID 4F17005	SAMPLE IDENTIFICATION	Date Sampled	Time Sampled	No. of Containers	Preservative: ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Type: Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/Cl/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals *	Volatiles *	Semivolatiles *	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitiability	Chlorides	Sulfates		RUSH TAT	Standard TAT
-01	MW-5 (53'-55')	14-Jun	9:09	1	X									X					X				X								X
-02	MW-5 (68'-70')	14-Jun	9:45	1	X									X					X				X								X
-03	MW-4 (58'-60')	15-Jun	9:30	1	X									X					X				X								X
-04	MW-4 (73'-75')	15-Jun	9:45	1	X									X					X				X								X

Special Instructions
FAX RESULTS TO Iain Olness [505-394-2601]

Sample Containers Intact? Y N
Temperature Upon Request
Laboratory Comments:
Rec 4°C.

Relinquished:	Date	Time	Received by:	Date	Time
Iain Olness	6/16/04	7:00	C Mata		
Relinquished:	Date	Time	Received by:	Date	Time
C Mata			Lab - dk	6-17-04	1240

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:

_____

_____

_____

_____

_____

_____

_____

_____

ANALYSYS INC.
[redacted] N. P[redacted]sland[redacted], Corpus Christi, TX 78[redacted]
(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#: 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

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.

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.

ANALYSYS INC.
5512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 160998
Attn: Iain Olness	**Sample Name:** MW-6 (25-30)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	91.1	30-125	---
p-Terphenyl	8015 mod.	103	30-160	---
1,2-Dichloroethane-d4	8260b	101	56-120	---
Toluene-d8	8260b	94.9	71-116	---

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

AnalySys, Inc.
3516 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#: 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
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.

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.

ENVIROSYS INC.
5512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 160999
Attn: Iain Olness	**Sample Name:** MW-6 (55-60)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	90.2	30-125	---
p-Terphenyl	8015 mod.	98.9	30-160	---
1,2-Dichloroethane-d4	8260b	92.2	56-120	---
Toluene-d8	8260b	97.4	71-116	---

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

AnalySys, Inc.
(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#: 161000 **Report Date:** 11/01/04
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 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

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.

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.

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

Client: Environmental Plus, Inc.	***Project ID:*** *2002-10250*	**Report#/Lab ID#:** 161000
Attn: Iain Olness	**Sample Name:** MW-6 (74-75)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	91	30-125	---
p-Terphenyl	8015 mod.	102	30-160	---
1,2-Dichloroethane-d4	8260b	86.7	56-120	---
Toluene-d8	8260b	90.1	71-116	---

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

AnalySys, Inc.
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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#:	161001 **Report Date:** 11/01/04
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
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

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.

Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161001
Attn: Iain Olness	**Sample Name:** MW-7 (30-35)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	85.4	30-125	---
p-Terphenyl	8015 mod.	95.9	30-160	---
1,2-Dichloroethane-d4	8260b	89.3	56-120	---
Toluene-d8	8260b	99.7	71-116	---

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

AnalySys, Inc.
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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#: 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

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.

Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161002
Attn: Iain Olness	**Sample Name:** MW-7 (50-55)	**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.	95.7	30-160	---
1,2-Dichloroethane-d4	8260b	99.8	56-120	---
Toluene-d8	8260b	111	71-116	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
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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)	**1560**	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)	**1570**	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	**20300**	µg/Kg	1000	<1000	10/29/04	8260b	---	3.5	88.3	105.4	102.5
Ethylbenzene	**36500**	µg/Kg	1000	<1000	10/29/04	8260b	---	4.4	103.9	105.9	119.6
m,p-Xylenes	**66800**	µg/Kg	2000	<2000	10/29/04	8260b	---	4.1	103.4	106	121
o-Xylene	**23200**	µg/Kg	1000	<1000	10/29/04	8260b	---	4.4	109.2	113.1	125.7
Toluene	**92000**	µg/Kg	1000	<1000	10/29/04	8260b	---	2.4	105.9	117	114.5

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Respectfully Submitted,

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

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

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
1,2-Dichloroethane-d4	D	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
Toluene-d8	D	levels). Surrogate recoveries not accurately quantifiable.

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#: 161004 **Report Date:** 11/01/04
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 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.

Respectfully Submitted,

Dale Wagner

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161004
Attn: Iain Olness	**Sample Name:** MW-8 (30-35)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	88.8	30-125	---
p-Terphenyl	8015 mod.	102	30-160	---
1,2-Dichloroethane-d4	8260b	101	56-120	---
Toluene-d8	8260b	103	71-116	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
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

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.

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Dale Wagner

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161005
Attn: Iain Olness	**Sample Name:** MW-8 (45-50)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	85.1	30-125	---
p-Terphenyl	8015 mod.	96.2	30-160	---
1,2-Dichloroethane-d4	8260b	75.7	56-120	---
Toluene-d8	8260b	90.7	71-116	---

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

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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#: 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

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.

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.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161006
Attn: Iain Olness	**Sample Name:** MW-8 (74-75)	**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.

AnalySys Inc.
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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#: 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

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.

Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161007
Attn: Iain Olness	**Sample Name:** MW-9 (24.5-25)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	89.4	30-125	---
p-Terphenyl	8015 mod.	100	30-160	---
1,2-Dichloroethane-d4	8260b	95.4	56-120	---
Toluene-d8	8260b	104	71-116	---

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

AnalySys, Inc.
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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#: 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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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161008
Attn: Iain Olness	**Sample Name:** MW-9 (53-55)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

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

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

ANALYSYS INC.
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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#: 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
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.

Respectfully Submitted,

D Wagner

Dale Wagner

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161009
Attn: Iain Olness	**Sample Name:** MW-9 (74-75)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

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

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, 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.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161010
Attn: Iain Olness	**Sample Name:** MW-10 (29-30)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	90.9	30-125	---
p-Terphenyl	8015 mod.	100	30-160	---
1,2-Dichloroethane-d4	8260b	92.6	56-120	---
Toluene-d8	8260b	99.4	71-116	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
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

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161011
Attn: Iain Olness	**Sample Name:** MW-10 (45-50)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	89.7	30-125	---
p-Terphenyl	8015 mod.	103	30-160	---
1,2-Dichloroethane-d4	8260b	92.7	56-120	---
Toluene-d8	8260b	96.4	71-116	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
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
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.

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.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 161012
Attn: Iain Olness	**Sample Name:** MW-10 (74-75)	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	93.5	30-125	---
p-Terphenyl	8015 mod.	104	30-160	---
1,2-Dichloroethane-d4	8260b	72.2	56-120	---
Toluene-d8	8260b	92.5	71-116	---

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

1081

AnalySys Inc.

Chain of Custody Form

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

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
1	160998	MW-6 (25-30)	C	1			X					X		21-Oct	15:01	X	X										
2	160999	MW-6 (55-60)	C	1			X					X		21-Oct	16:00	X	X										
3	161000	MW-6 (74-75)	C	1			X					X		21-Oct	16:25	X	X										
4	161001	MW-7 (30-35)	C	1			X					X		21-Oct	9:04	X	X										
5	161002	MW-7 (50-55)	C	1			X					X		21-Oct	9:28	X	X										
6	161003	MW-7 (74-75)	C	1			X					X		21-Oct	12:17	X	X										
7	161004	MW-8 (30-35)	C	1			X					X		20-Oct	14:35	X	X										
8	161005	MW-8 (45-50)	C	1			X					X		20-Oct	15:10	X	X										
9	161006	MW-8 (74-75)	C	1			X					X		20-Oct	15:53	X	X										
10	161007	MW-9 (24.5 - 25)	G	1			X					X		19-Oct	12:28	X	X										

Sampler Relinquished: Iain Olness	Date 10/25/04 Time 1630	Received By:
Relinquished by:	Date 10/26/04 Time 0940	Received By: (lab staff) D. Flynn / ASI
Delivered by:	Sample Cool & Intact Yes No	Checked By:

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

REMARKS:

T: 4.3 C

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
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

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
1	161008	MW-9 (53-55)	C	1			X					X		19-Oct	13:07	X	X									
2	161009	MW-9 (74-75)	C	1			X					X		19-Oct	13:37	X	X									
3	161010	MW-10 (29-30)	C	1			X					X		20-Oct	9:17	X	X									
4	161011	MW-10 (45-50)	C	1			X					X		20-Oct	9:46	X	X									
5	161012	MW-10 (74-75)	C	1			X					X		20-Oct	10:30	X	X									
6																										
7																										
8																										
9																										
10																										

Sampler Relinquished: Iain Olness	Date 10/25/04 Time 16 30	Received By:	E-mail results to: iolness@hotmail.com and enviplus1@aol.com
Relinquished by:	Date 10/26/04 Time 0940	Received By: (lab staff)	REMARKS:
Delivered by:	Sample Cool & Intact Yes No	Checked By:	

T 43 C

ANALYSYS INC.

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

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)	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

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.

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.

ANALYSYS INC.

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

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10250 CS Cavler **Sample Name:** CSC101702BH1-5	**Report#/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 Cavler
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
1,2-Dichloroethane-d4	D	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
Nitrobenzene-d5	D	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
p-Terphenyl	D	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
Toluene-d8	D	levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

AnalySys Inc.

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 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)	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

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.

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.

ANALYSYS INC.

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

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. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavler
Sample Name: CSC101702BH1-10

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1,2-Dichloroethane-d4	D	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
Nitrobenzene-d5	D	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
p-Terphenyl	D	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
Toluene-d8	D	levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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#: 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

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)	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

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.

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.

ANALYSYS INC.

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

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

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.
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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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

AnalySys Inc.

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#: 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

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)	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

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.

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.

ANALYSYS INC.

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

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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
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
1,2-Dichloroethane-d4	D	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
Nitrobenzene-d5	D	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
p-Terphenyl	D	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
Toluene-d8	D	levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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

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)	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

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.

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.

ANALYSYS INC.

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

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

☒ 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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

AnalySys Inc.

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#: 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 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)	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.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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

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

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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J flag Discussion

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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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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#: 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

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)	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

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.

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.

ANALYSYS INC.

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

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10250 CS Cavler **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	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#: 135489 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavler
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

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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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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

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)	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.

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.

ANALYSYS INC.

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

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	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#: 135490 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavler
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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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#: 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 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)	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.

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.

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

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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

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#: 135492 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
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 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)	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.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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78408

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

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
1,2-Dichloroethane-d4	D	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
Nitrobenzene-d5	D	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
p-Terphenyl	D	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
Toluene-d8	D	levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

AnalySys Inc.

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 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)	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.

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.

ANALYSYS INC.

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

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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavler
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

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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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

AnalySys Inc.

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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#: 135494 **Report Date:** 10/31/02
Project ID: 2002-10250 CS Cavler
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 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)	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
Volatile 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

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.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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

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	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#: 135494 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 CS Cavler
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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

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 cmmg142@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. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B							Comments
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	Time	Name	Affiliation	Date	Time
✓ Cody Miller	Environmental Plus	10-17-02		Melanie Humphrey	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.]

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 cmmg142@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

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Analyses Requested (1) TPH 8015M	BTEX 8021B	Comments
CSC101702BH1-60	10-17-02	1330	1	X			135493	✓	✓	
CSC101702BH1-65	10-17-02	1400	1	X			135494	✓	✓	

(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		Melanie Humphrey	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.]

ANALYSYS INC.

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#: 135850 **Report Date:** 11/07/02
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 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)	<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

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.

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.

ANALYSYS INC.

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

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	8015 mod.	56.2	50-150	---
p-Terphenyl	8015 mod.	79.1	50-150	---
1,2-Dichloroethane-d4	8260b	84.7	65-115	---
Toluene-d8	8260b	95.2	50-120	---

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

ANALYSYS INC.

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#: 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

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)	<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

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.

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.

ANALYSIS INC.

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

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.

ANALYSYS INC.

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#: 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

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)	<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

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.

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.

ANALYSYS INC.

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

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	8015 mod.	51.4	50-150	---
p-Terphenyl	8015 mod.	61.2	50-150	---
1,2-Dichloroethane-d4	8260b	94.2	65-115	---
Toluene-d8	8260b	105	50-120	---

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

ınd Reports

ompany Name Environmental Plus
ddress
ity ______ State ____ Zip ______
TTN: Pat McCasland
hone ______ Fax ______

Bill to (if different):
Company Name Z.O.T.I. Energy
Address
City ______ State ____ Zip ______
ATTN: Frank Hernandez
Phone ______ Fax ______

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

ush Status (must be confirmed with lab mgr.):
roject Name/PO#: 2002-10250 CS Carter   Sampler: Cody Miller

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B							Comments
~~CSC102202BH1-5~~	10/22/02	845	1	✓			135847	X	X							
~~CSC102202BH1-10~~	10/22/02	930	1	✓			135848	X	X							
~~CSC102202BH1-15~~	10/22/02	1000	1	✓			135849	X	X							
CSC102202BH2-5	10/22/02	1300	1	✓			135850	X	X							
CSC102202BH2-10	10/22/02	1330	1	✓			135851	X	X							
CSC102202BH2-15	10/22/02	1400	1	✓			135852	X	X							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				X	X							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	X							

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

Temp 3.3 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
C Mills	EPI	10/30/02		Melanie Humphrey	ASI	10/31/02	10:10

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

ANALYSYS INC.

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#: 134459 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH4-5
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/23/2002 **Time:** 08:15

REPORT OF ANALYSIS

QUALITY ASSURANCE 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)	<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.

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.

ANALYSYS INC.

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:** SECSC92302BH4-5	**Report#/Lab ID#:** 134459 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	88.5	50-150	---
p-Terphenyl	8015 mod.	129	50-150	---
1,2-Dichloroethane-d4	8260b	77.8	65-115	---
Toluene-d8	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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH4-5

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes: _____

ANALYSYS INC.

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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#: 134460 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH4-10
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/23/2002 **Time:** 09:00

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)	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
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.

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.

ANALYSYS inc.

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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	**Project ID:** 2002-10250 C. S. Cayler **Sample Name:** SECSC92302BH4-10	**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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
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).

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: _____

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Eunice 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: SECSC92302BH4-15
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
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	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

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.

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.

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250 C. S. Cayler	**Report#/Lab ID#:** 134461
Attn: Pat McCasland	**Sample Name:** SECSC92302BH4-15	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	149	50-150	---
1,2-Dichloroethane-d4	8260b	85.4	65-115	---
Toluene-d8	8260b	95.1	50-120	---

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

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Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice 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: SECSC92302BH3-5
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **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]
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

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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: SECSC92302BH3-5

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
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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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: SECSC92302BH3-10
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE 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)	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
Volatile 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

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:** SECSC92302BH3-10	**Report#/Lab ID#:** 134463 **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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-10

Sample Temperature/Condition <=6°C

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Sample Bottles & Preservation

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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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

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)	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

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.

Respectfully Submitted,

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10250 C. S. Cayler **Sample Name:** SECSC92302BH3-15	**Report#/Lab ID#:** 134464 **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 @ 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#: 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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

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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#: 134465 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-20
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **Time:** 09:40

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)	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

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.

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.

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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:** SECSC92302BH3-20	**Report#/Lab ID#:** 134465 **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#: 134465 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-20

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.
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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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

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#: 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

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)	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
Volatile 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

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.

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.

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10250 C. S. Cayler	**Report#/Lab ID#:** 134466
Attn: Pat McCasland	**Sample Name:** SECSC92302BH3-25	**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
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
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

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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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#: 134467 **Report Date:** 10/16/02
Project ID: 2002-10250 C. S. Cayler
Sample Name: SECSC92302BH3-30
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **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]
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

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.

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.

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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:** SECSC92302BH3-30	**Report#/Lab ID#:** 134467 **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: SECSC92302BH3-30

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
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J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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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: SECSC92302BH3-35
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **Time:** 11:50

REPORT OF ANALYSIS

QUALITY ASSURANCE 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)	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
Volatile 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.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10250 C. S. Cayler **Sample Name:** SECSC92302BH3-35	**Report#/Lab ID#:** 134468 **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#: 134468 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

AnalySys Inc.

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: SECSC92302BH3-40
Sample Matrix: soil
Date Received: 10/02/2002 **Time:** 10:15
Date Sampled: 09/24/2002 **Time:** 13:15

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)	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.

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.

ANALYSYS INC.

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:** SECSC92302BH3-40	**Report#/Lab ID#:** 134469 **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#: 134469 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** 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 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

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 cmmg142@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

C.S. Cayler

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B							Comments
SECSC92302BH4-5	9-23-02	0815	1	X			134459	✓	✓							
SECSC92302BH4-10	9-23-02	0900	1	X			134460	✓	✓							
SECSC92302BH4-15	9-23-02	0930	1	X			134461	✓	✓							
SECSC92302BH3-5	9-24-02	0800	1	X			134462	✓	✓							
SECSC92302BH3-10	9-24-02	0830	1	X			134463	✓	✓							
SECSC92302BH3-15	9-24-02	0915	1	X			134464	✓	✓							
SECSC92302BH3-20	9-24-02	0940	1	X			134465	✓	✓							
SECSC92302BH3-25	9-24-02	1025	1	X			134466	✓	✓							
SECSC92302BH3-30	9-24-02	1100	1	X			134467	✓	✓							
SECSC92302BH3-35	9-24-02	1150	1	X			134468	✓	✓							

(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: 4.1 °C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
✓ Cody Miller	Environmental Plus Inc.	9-24-02	—	Melanie Humphrey	ASI	10/02/02	10:15

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

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 cmmg142@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
C.S. Cayler

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Analyses Requested (1) Please attach explanatory information as required: ~~TCLP~~ TPH 8015M; BTEX 8021B	Comments
SECSC92302BH3-40	9-24-02	1315	1	X			134469	✓ ✓	

(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: 4.1 °C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
✓ Cody Miller	Environmental Plus Inc.	9-24-02	—	Melonie Humphrey	ASI	10/02/02	10:15

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

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

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

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)	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.

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.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 162913
Attn: Pat McCasland	**Sample Name:** NW	**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#: 162913 **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).

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J flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	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 p-Terphenyl	X X	Surrogate recovery outside advisory/acceptance limits. Typically, for samples with TPH/1005 hits, high recoveries are due to co-elution of hydrocarbons from the sample at the same retention time as the surrogate

Notes:

ANALYSYS INC.
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: 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

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)	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

Respectfully Submitted,

Dale Wagner

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 162914
Attn: Pat McCasland	**Sample Name:** NE	**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.

Exceptions Report:

Report #/Lab ID#: 162914 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10250
Sample Name: NE

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion:

A J flag data qualifier indicates (as required under 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: _____

_____

_____

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

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#: 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

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)	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

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.

Respectfully Submitted,

D Wagner

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 162915
Attn: Pat McCasland	**Sample Name:** SE	**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:

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

J flag Discussion:

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	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: 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.

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.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10250	**Report#/Lab ID#:** 162916
Attn: Pat McCasland	**Sample Name:** SW	**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.

Exceptions Report:

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:

11355

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Pat McCasland
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	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.
Attn: Jimmy Bryant
PO Box 1660,
Midland, TX 79701

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl⁻)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH
162913	1	NW	C	1			X					X		16-Dec	10:57		X						
162914	2	NE	C	1			X					X		16-Dec	11:12		X						
162915	3	SE	C	1			X					X		16-Dec	11:23		X						
162916	4	SW	C	1			X					X		16-Dec	11:31		X						
	5																						
	6																						
	7																						
	8																						
	9																						
	10																						

Sampler Relinquished: Manuel Gonzales	Date 12-20 Time 230	Received By: [illegible]	Fax results to Pat McCasland at 505-394-2601
Relinquished by: [illegible]	Date 12-20 Time 1200	Received By: (lab staff) A Flynn/ASI 12/22/04 @1020	REMARKS:
Delivered by:	Sample Cool & Intact Yes No	Checked By:	

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

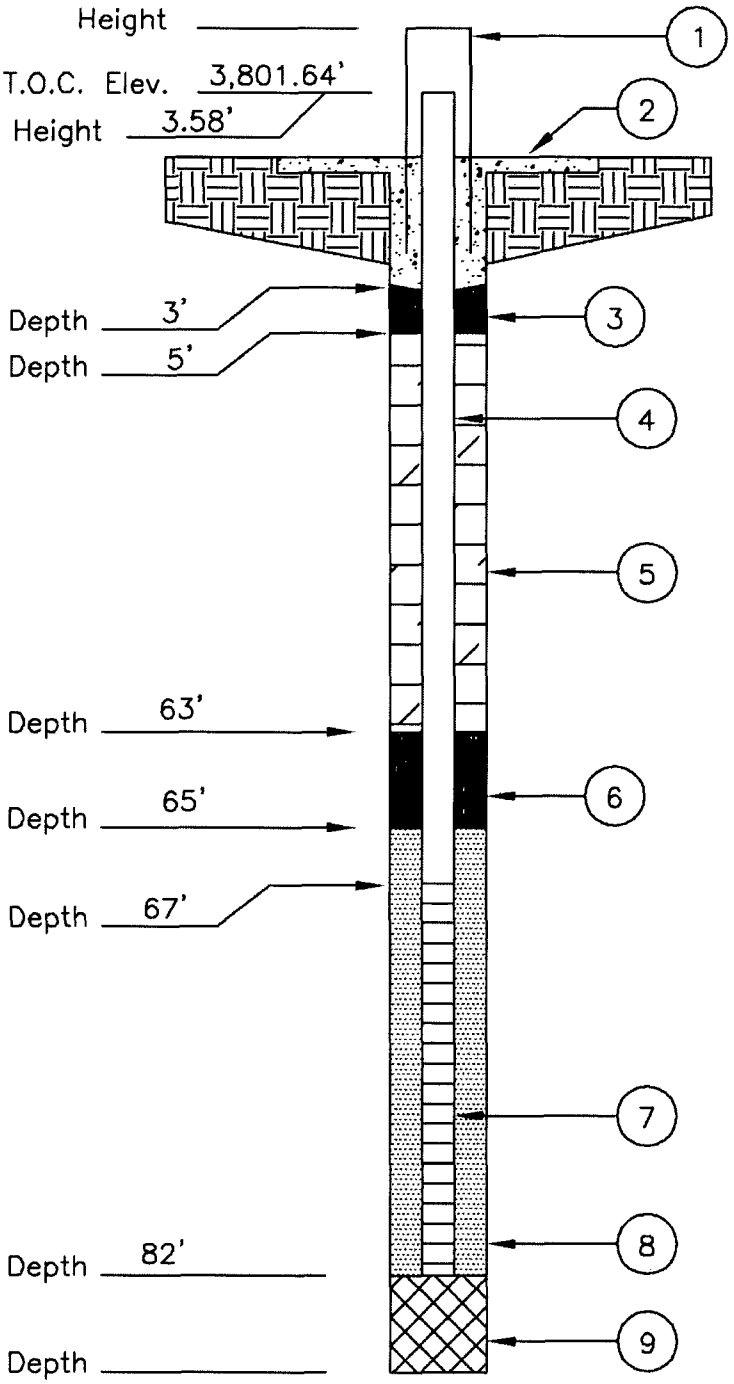
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

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"

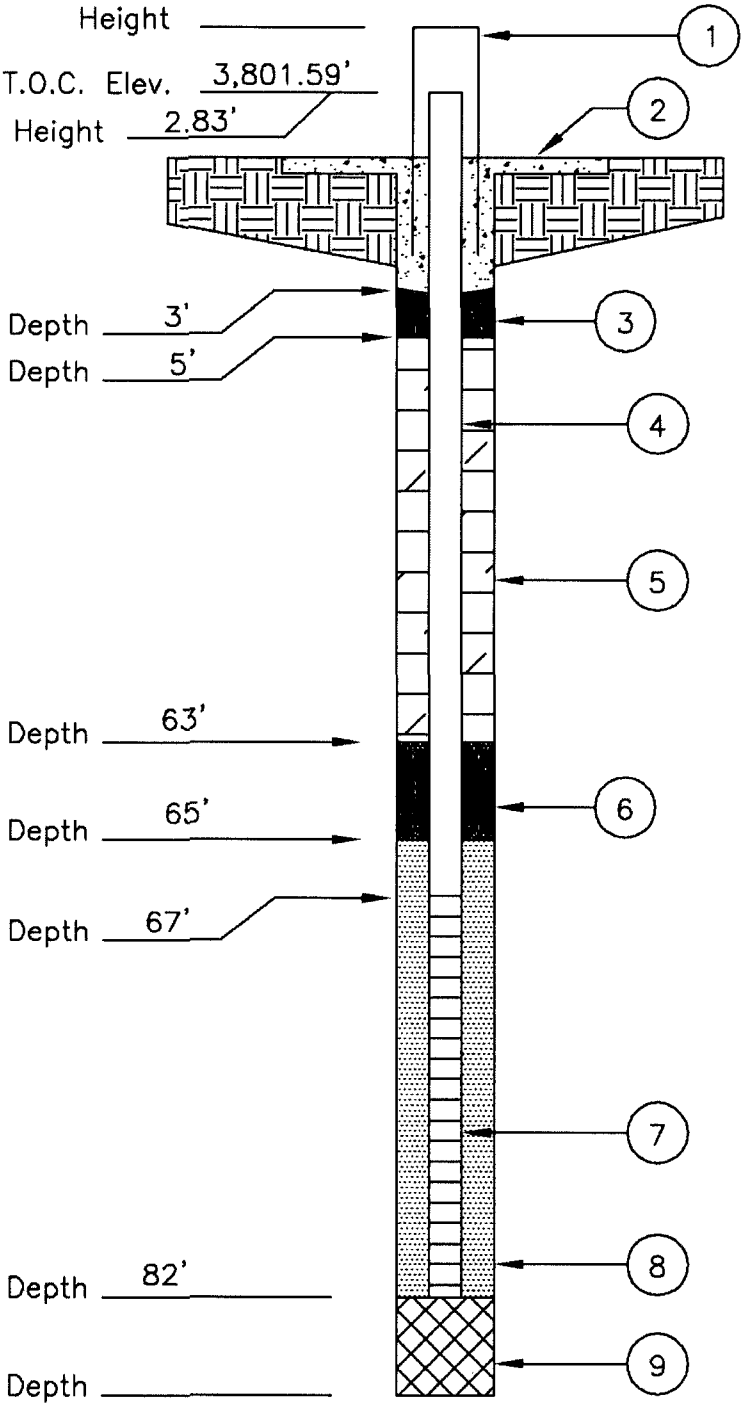
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

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"

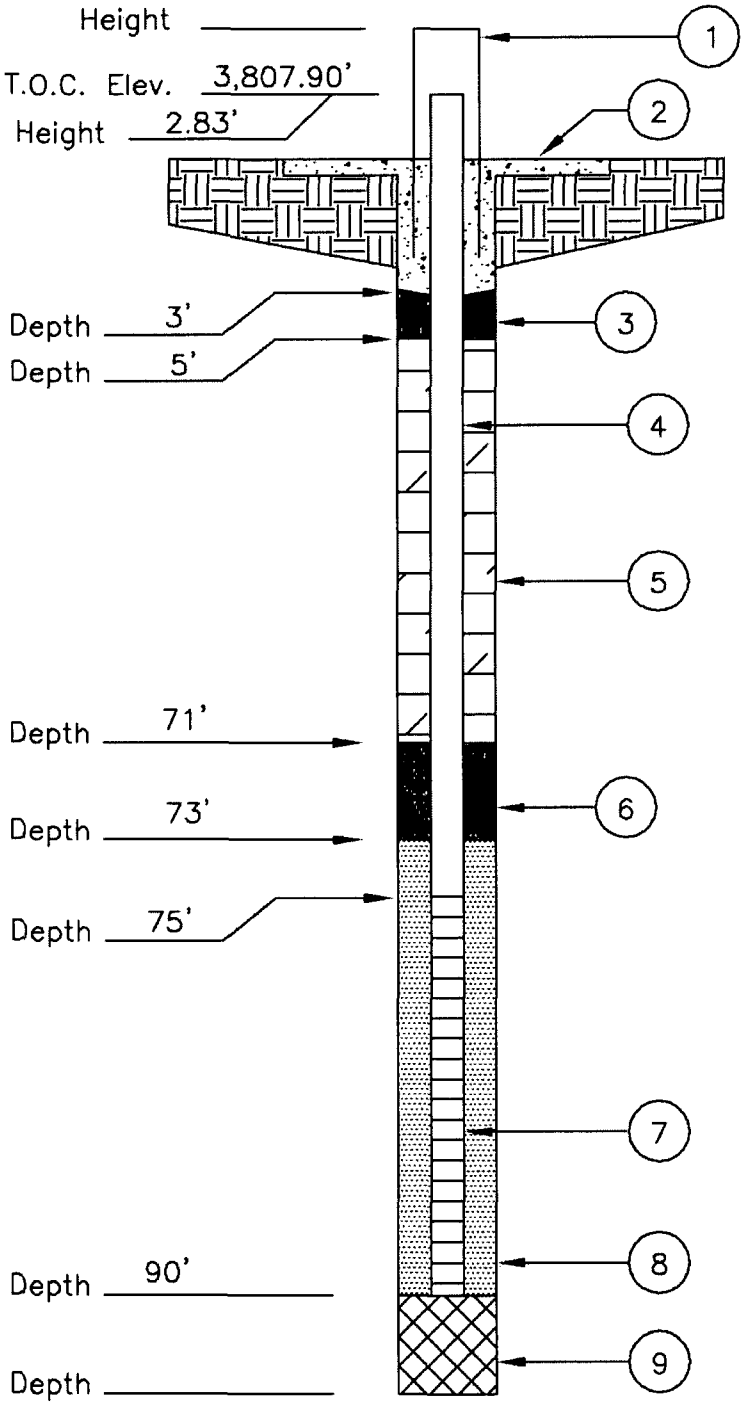
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

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"

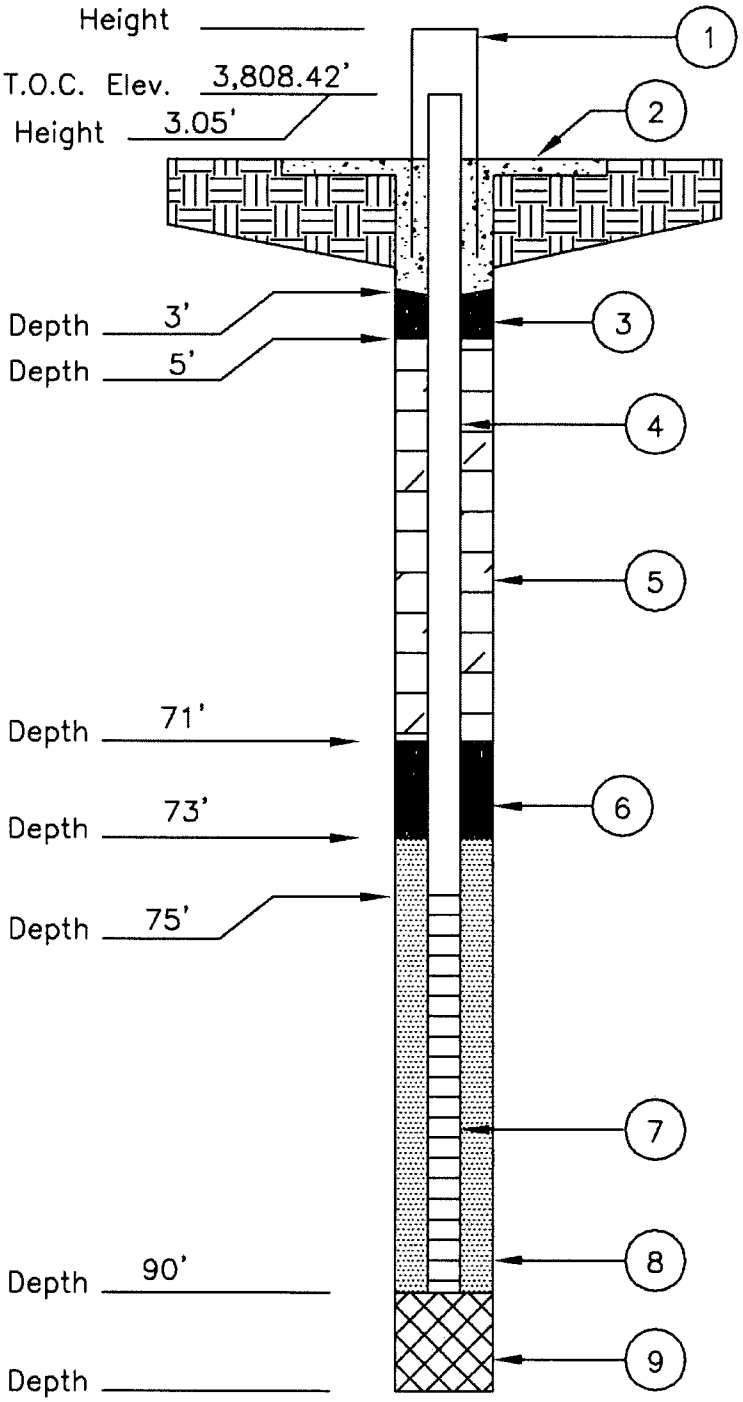
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

Date: 6-15-04 Field Representative: E. Harper Boring/Monitoring Well No. MW-4



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 78.05 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"

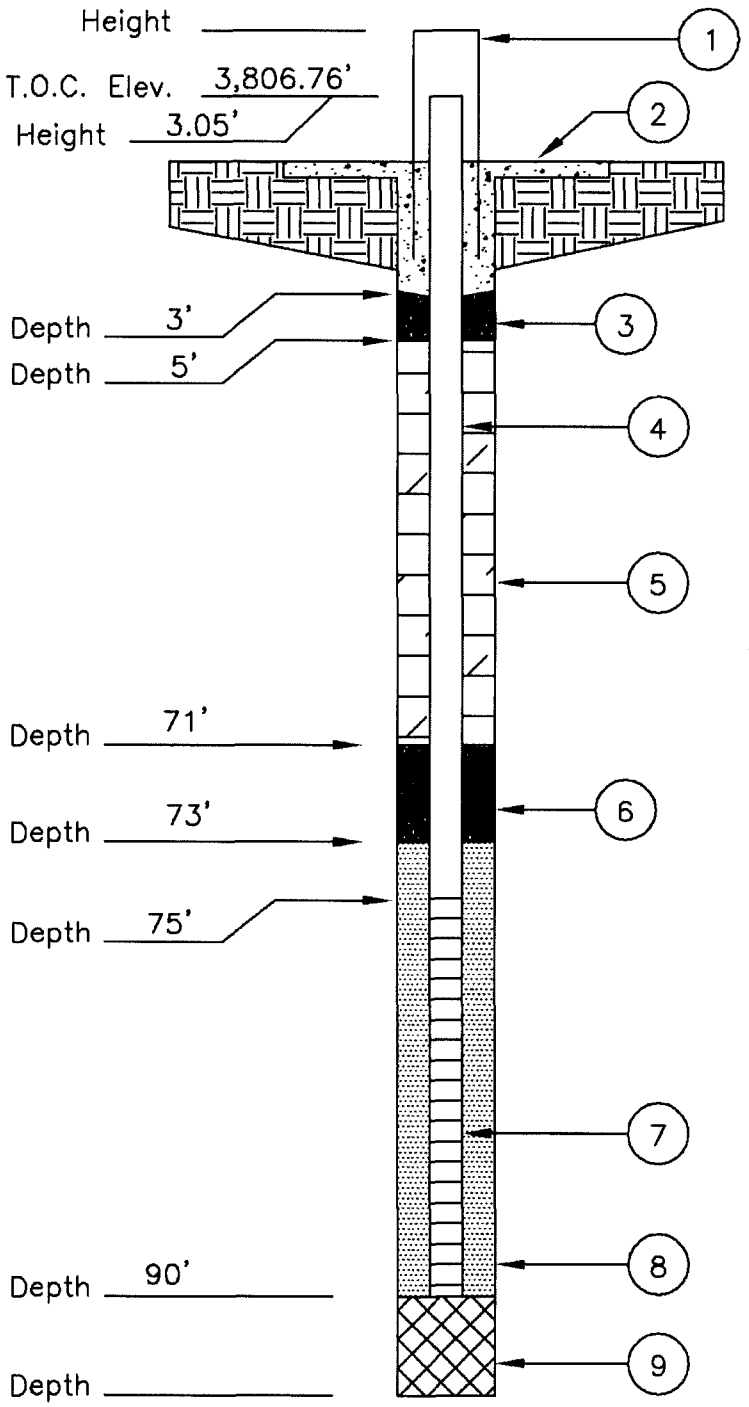
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 **Job Name:** C.S. Cayler

Date: 6-15-04 **Field Representative:** E. Harper **Boring/Monitoring Well No.** MW-5



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 78.05 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"

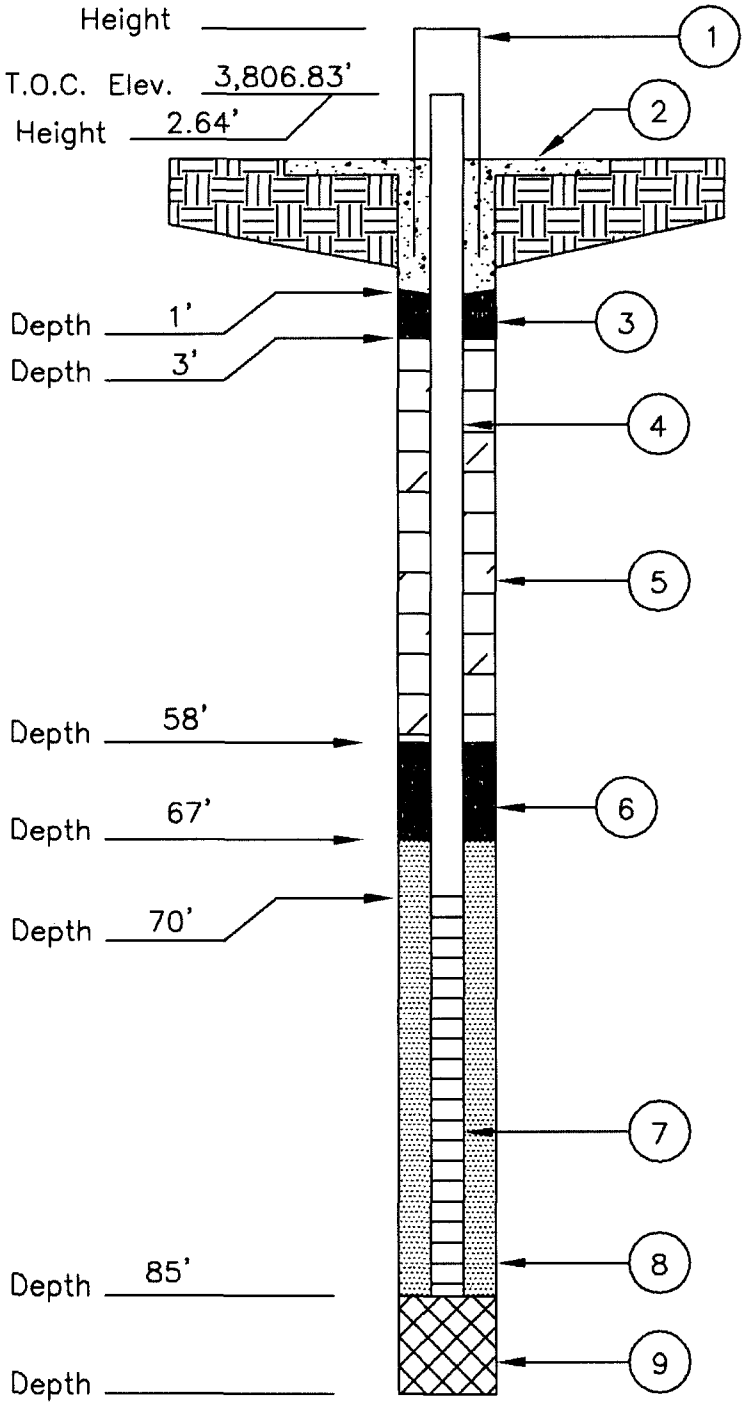
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

Date: 10-21-04 Field Representative: J. Robinson Boring/Monitoring Well No. MW-6



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 72.64 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 Hollow Stem Auger

11) Additives Used if any Fresh Water

12) Borehole Diameter 8 1/4 in.

Sampling Spoon Diameter 4-1/4" ID

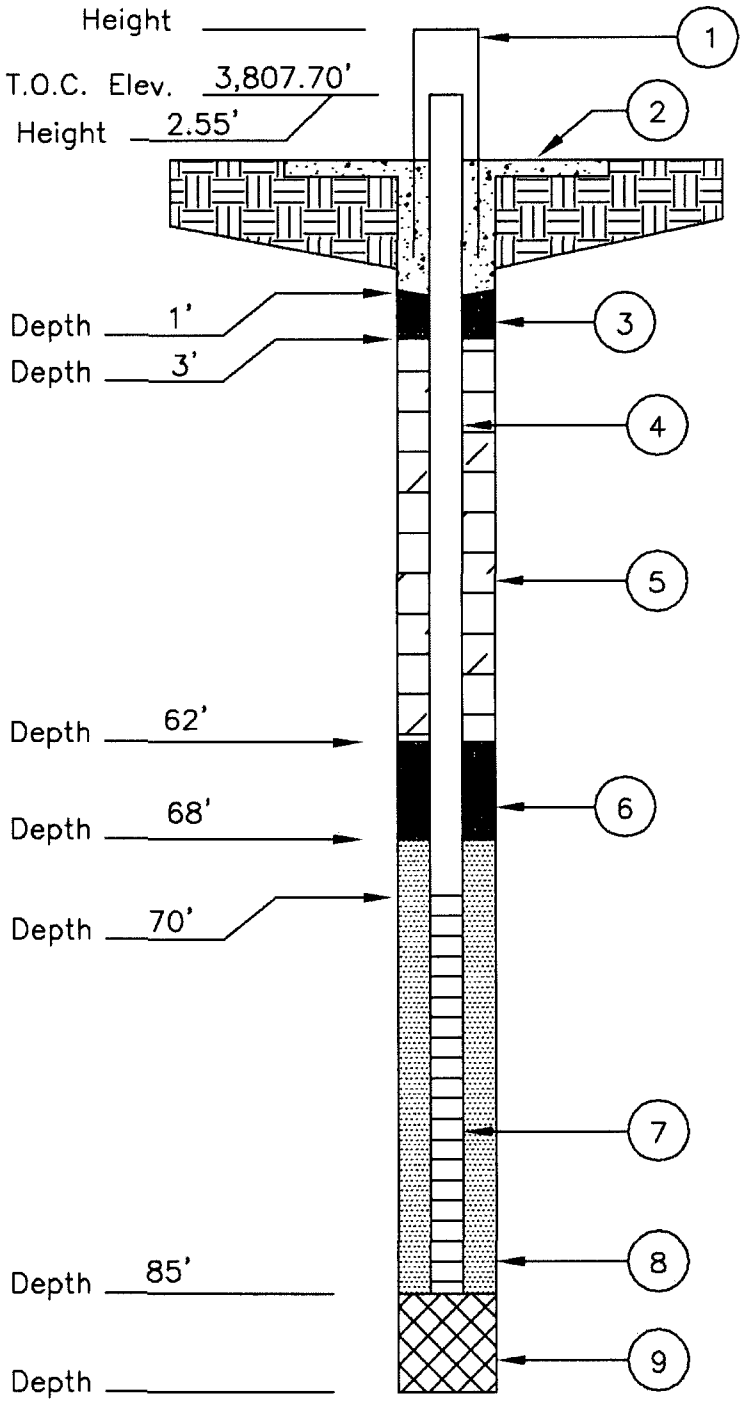
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

Date: 10-21-04 Field Representative: J. Robinson Boring/Monitoring Well No. MW-7



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 72.64 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 Hollow Stem Auger

11) Additives Used if any Fresh Water

12) Borehole Diameter 8 1/4 in.

Sampling Spoon Diameter 4-1/4" ID

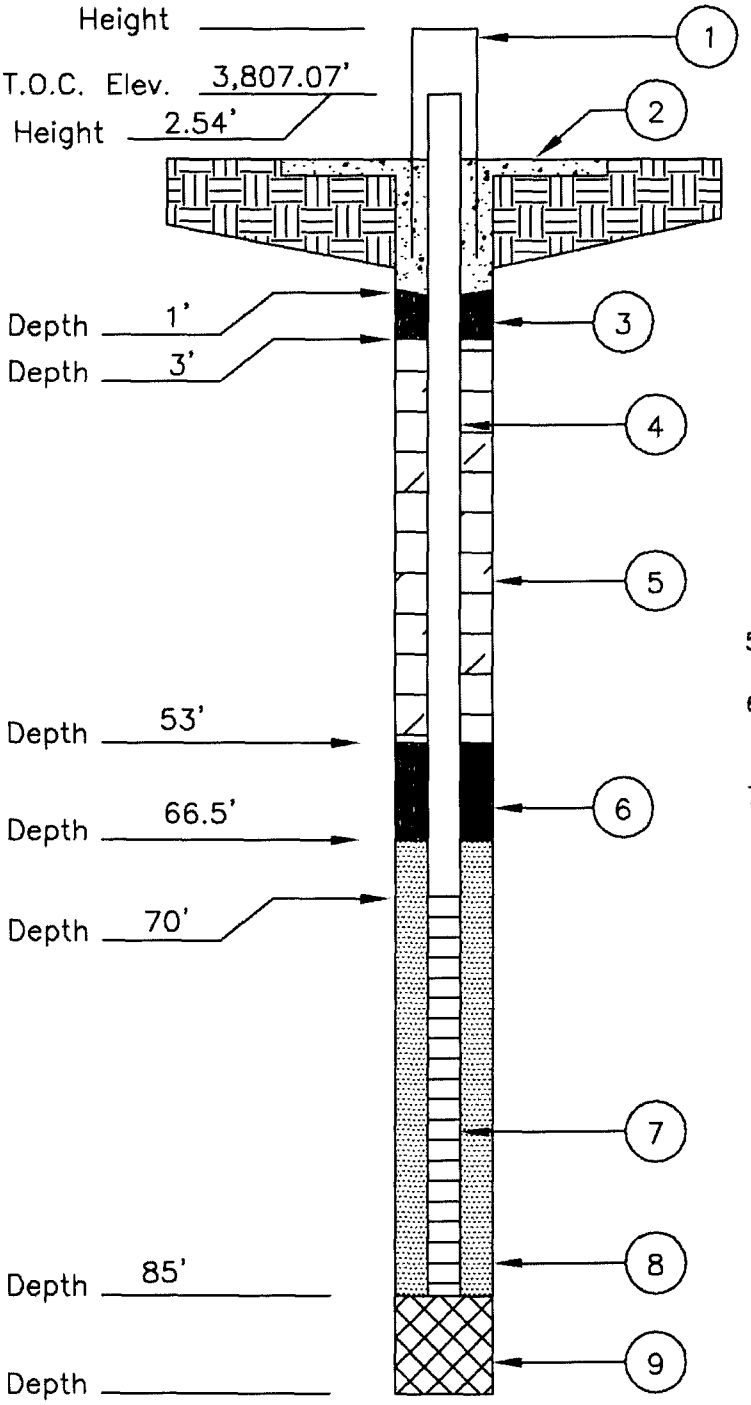
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 **Job Name:** C.S. Cayler

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 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

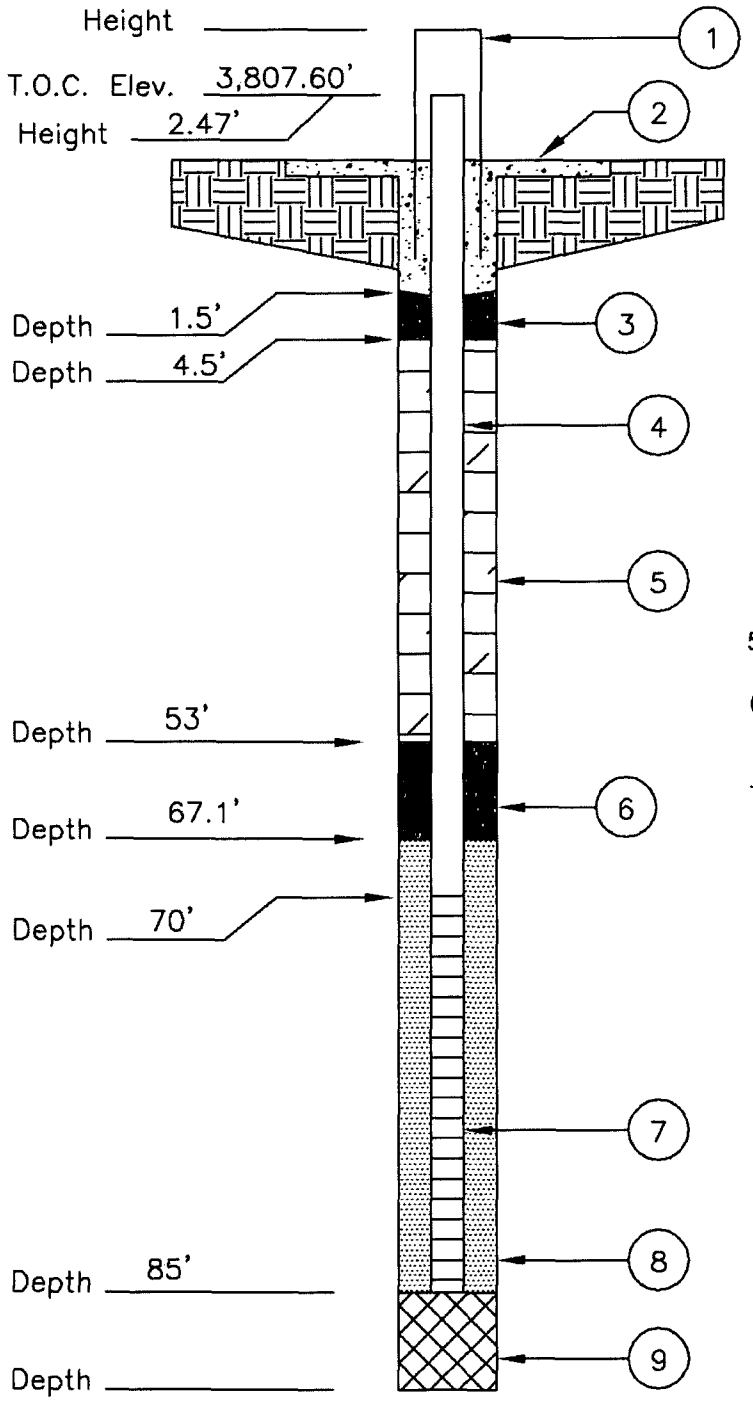
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

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 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

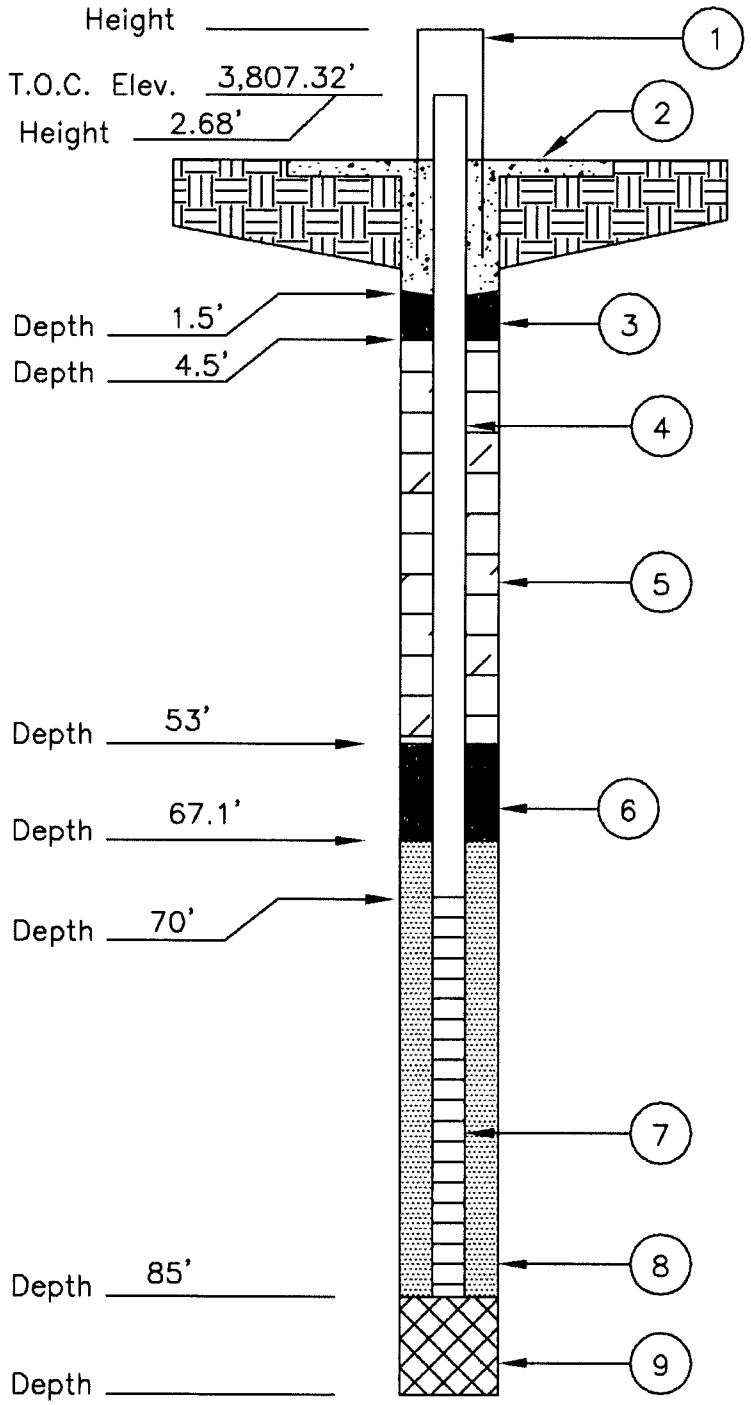
ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Monitoring Well Construction Information

Standard Well

Job No.: Plains Pipeline, L.P. ref. #2002-10250 Job Name: C.S. Cayler

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 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: Site Information and Metrics Form and NMOCD C-141

PLAINS ALL AMERICAN Site Information and Metrics	Incident Date: 9-19-02 @ 8:00 AM	NMOCD Notified: 9-19-02 @ 3:15 PM Paul Sheeley by Pat McCasland, EPI
SITE: **C.S. Cayler**		Assigned Site Reference #: **2002-10250**
Company: Plains Pipeline, L.P.		
Street Address: PO Box 3119		Notified Date/Time:
Mailing Address: 3705 East Highway 158		Notified by: Pat McCasland, EPI
City, State, Zip: Midland, Texas 79702		Person Notified:
Representative: Camille Reynolds		NRC Report# :
Representative Telephone: 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. Cayler		
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 sqft		
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: 3,810'amsl		
Feet from South Section Line		
Feet from West Section Line		
Location- Unit or ¼¼: 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		
Domestic water wells within 1000' radius of site: none		
Agricultural water wells within 1000' radius of site: none		
Public water supply wells within 1000' radius of site: none		
Depth from land surface to ground water (DG) ~78 'bgs		
Depth of contamination (DC) – 78'bgs		
Depth to ground water (DG – DC = DtGW) - 0		

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

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	10 ppm	10 ppm	10 ppm
BTEX[1]	50 ppm	50 ppm	50 ppm
TPH	100 ppm	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, 2004

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 All American Pipeline**	Contact: **Camille Reynolds**
Address: **PO Box 3119, Midland, Texas 79702**	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	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
B	**6**	**T17S**	**R37E**					Lea

Latitude: **32° 52' 2.45"N** **Longitude:** **103° 17' 17.73"W**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **70 bbls barrels**	Volume Recovered **0 bbls 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.*
Groundwater impacted and is being delineated and monitored. Product being recovered.

Describe Cause of Problem and Remedial Action Taken.* ***8" Steel Pipeline:*** **The cause was either internal or external corrosion. Contaminated soil placed on a plastic barrier.**

Describe Area Affected and Cleanup Action Taken.*
2,199 sqft 70' x 30': Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be disposed of.
Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	**OIL CONSERVATION DIVISION**	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@PAALP.com	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: Phone: 505.396.3341		

Attach Additional Sheets If Necessary