CLOSURE REPORT

VACUUM TO JAL 14" MAINLINE #6
PLAINS REF: 2003-00135
COMPANY #231735

SW¼ of the SE¼ of Section 25, Township 23 South, Range 37 East ~12 Miles Northeast (15.4°) of Jal, Lea County, New Mexico Latitude: N32° 16' 06.76" Longitude: W103° 06' 49.57"

JUNE 2006

PREPARED BY:

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

PREPARED FOR:



RP#372 ALL AMERICA
Application p PACOLO3052632





July 10, 2006

Mr. Larry Johnson New Mexico Oil Conservation Division (NMOCD) 1625 French Drive Hobbs, New Mexico 88240

Re:

Plains All American – Closure Report Vacuum to Jal 14" Mainline #6 release site SW¼ of the SE¼ of Section 25, T23S, R37E Lea County, New Mexico

Dear Mr. Johnson:

Please find included herewith the closure report for the Plains Vacuum to Jal 14" Mainline #6 release site located in the SW¼ of the SE¼ of Section 25, T23S, R37E, Lea County, New Mexico, dated June 2006. The report details closure activities approved by the NMOCD.

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

Eblans

Sincerely,

Camille Reynolds

Remediation Coordinator Plains All American

Enclosure

19191416171 Rechibio Rechibio



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VACUUM TO JAL 14" MAINLINE #6 #2003-00135



STANDARD OF CARE

Closure Report
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #6
Ref. # 2003-00135
(Company #231735)

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 W. McCasland

Senior Environmental Consultant

July 6 2006 Date

This report was reviewed by:

lain A. Olness, P.G.

Technical Manager

10 July 200



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1.0 SUMMARY

The Vacuum to Jal 14" Mainline #6 release site is located in UL-O (SW1/4 of the SE1/4) of Section 25, Range 37 East (R37E), Township 23 South (T23S) at a latitude of 32° 16' 06.76"N and a longitude of 103° 06' 49.57"W. This site is located approximately 12 miles northeast of Jal, New Mexico on property owned by the State of New Mexico (reference Figures 1 and 2). The estimated 450 barrel (bbls) crude oil release occurred on May 23, 2004 from the 14-inch steel pipeline and was attributed to internal corrosion. Approximately 270 bbls of crude oil were recovered and reintroduced to the system. Approximately 39,800 square feet (ft²) of pasture land were impacted due to the release (reference Figure 3). Because the site is located on the eastern slope of the Monument Draw, a major drainage (non-throughgoing) feature within southern Lea County, the National Response Center was notified on May 24, 2003 and recorded by Nowak on report #645926. There are no surface water bodies observed to be located within a 1,000-foot radius of the site. During the preliminary investigation, groundwater was estimated to occur at approximately 33-feet below ground surface (bgs) and was based on United States Geological Survey (USGS), New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer groundwater level information (reference Table 1). The New Mexico Office of the State Engineer groundwater well database does not have record of any wells in Section 25 or the adjacent Sections in R37E/T23S (reference Appendix II). The NMOCD groundwater well database lists the nearest groundwater well as a livestock watering windmill well #3151 located approximately 0.8 miles west of the site at an elevation of approximately 3,239-feet amsl with a 1976 groundwater level of 65.5-feet bgs. There are no water wells listed or observed to be within a 1,000-foot radius of the site. This results in a site ranking of 40 points within the NMOCD ranking system, which applies the following remedial guidelines:

CONSTITUENTS/CONTAMINANTS OF CONCERN	REMEDIAL GOAL
Benzene	10 mg/Kg
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH)	100 mg/Kg

In May 2003, eleven soil borings were advanced and samples collected to determine the vertical extent of contamination due to the release (reference Figure 4). During delineation activities, site lithology was defined as fine sand to a depth of approximately 7 to 14 feet bgs. The sand is underlain by a one-foot thick layer of medium to coarse gravel, which in turn is underlain by red clay to a depth of at least 25-feet bgs in the vicinity of soil boring BH-5. Soil samples collected during the advancement of the soil borings were observed to be dry. Crude oil impact graded from the surface, near the leak origin, down to 20-feet bgs in the lower pooling areas with the longest residence times.

Remediation of the site began in May 2004. The remediation strategy consisted of excavating crude oil impacted soils and transferring to the soil landfarm established at the Plains Vacuum to Jal 14" Mainline #1 site, located approximately 0.5-mile north of the Vacuum to Jal 14" Mainline #6 site. During remediation of the visibly impacted surface area, additional impacted soil



associated with a network of rodent burrows was discovered and designated as the Rodent Burrow Flowpath (reference Appendix III and Figures 6 and 7). A total of approximately 15,850 cubic yards (yd³) of soil were excavated and spread in the land treatment area associated with the Plains Vacuum to Jal 14" Mainline #1 remediation site.

Compliance with NMOCD soil remediation standards for the site were verified by laboratory analysis of soil samples collected from the floor and sides of the excavated areas. To ensure samples were representative, sample points were selected at approximately 50-foot lateral intervals along the flowpaths. Sampling events occurred on May 14, 18, and 20; June 8, 10, and 16; July 12, 13 and 14; and August 3 and 10, 2004 and were followed by removal (where necessary) of soil identified as being in excess of the remedial goals. The final sampling event occurred on August 20, 2004 and focused on vertical delineation of the #17 sample location in the south bottom of the northwest flowpath. Impacted soil to a depth of 19-feet bgs was removed. Benzene and BTEX concentrations in the sample collected at the 20-feet bgs were below NMOCD remedial goals and deemed acceptable; however, the TPH concentration was 256 mg/Kg, in excess of the 100 mg/Kg remedial goal. The NMOCD agreed the residual TPH would not be capable of impacting area groundwater and does not present an environmental risk or affect revegetation of the surface. The NMOCD subsequently permitted Plains to leave the limited area of impacted soil in place. With NMOCD and landowner consensus, the excavated area was backfilled with local clean soil obtained from the unvegetated hummocks located east and west of the site. Additional soil was hauled in from the unvegetated above grade hummocks adjacent and west of the Plains Vacuum to Jal 14" Mainline #1 site approximately 0.5 miles to the north. The surface was contoured to the natural grade and reseeded.

The information contained in this report documents remediation of the Vacuum to Jal 14" Mainline #6 release site consistent with the NMOCD guidelines. Plains requests the NMOCD require no further action at this site and issue a "no further action required" letter to Plains.

2.0 Environmental Media Characterization

Chemical parameters of the soil and groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the NMOCD approved <u>General Work Plan for Remediation of E.O.T.T.</u>

<u>Pipeline Spills, Leaks and Releases in New Mexico</u>, (July 2000) and the NMOCD guidelines published in the following documents:

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

Acceptable thresholds for contaminants were determined based on the NMOCD Ranking Criteria as follows:

• Depth to groundwater, (i.e., distance from the lower most acceptable concentration to the groundwater);



- Wellhead Protection Area, (i.e., distance from fresh water supply wells); and
- Distance to Surface Water Bodies, (i.e., horizontal distance to all down gradient surface water bodies).

2.1 GEOLOGICAL DESCRIPTION

The USGS Ground-Water Report 6 (Nicholson and Clebsch)¹ describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments (i.e., fine to medium sand) with the mostly eroded Cenozoic Ogallala (CO) formation. Nicholson and Clebsch describe the Monument Draw as a major drainage feature within southern Lea County and is not a through-going drainage course. They also state, "The draw is partly filled, primarily by dune sand and alluvium; and it is densely overgrown in many places with vegetation.", which is the case at the Vacuum to Jal 14" Mainline #6 release site.

2.2 ECOLOGICAL DESCRIPTION

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit and Mule Deer. Reptiles, amphibians and birds are numerous and typical of area. A survey of listed, threatened and/or endangered species was not conducted.

2.3 AREA GROUNDWATER

During the preliminary investigation, groundwater was estimated to occur at approximately 33-feet below ground surface (bgs) and was based on United States Geological Survey (USGS), New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer groundwater level information (reference Table 1). However, during site delineation and excavation activities, site lithology was defined as fine sand to a depth of approximately 7 to 14 feet bgs. The sand is underlain by a one-foot thick layer of medium to coarse gravel, which in turn is underlain by red clay to a depth of at least 25-feet bgs in the vicinity of soil boring BH-5. Soil samples collected during the advancement of the soil borings were observed to be dry. The nearest water well to the site is the groundwater monitoring well at the Plains Vacuum to Jal 14" Mainline #1 release site, in the middle of the drainage feature. This well was installed in February 2003 and is approximately 0.5-mile north of the Vacuum to Jal 14" Mainline #6 release site. The lithology at the Vacuum to Jal 14" Mainline #1 release was defined as a fine sand from the surface down to a depth of 15-feet bgs with red clay from 15 to a depth of 37-feet bgs. No measurable amounts of groundwater have been detected in the groundwater monitoring well since installation. Given the presence of the confining clay interbed and the lack of overlying saturation, it

¹ Alexander Nicholson, Jr. and Alfred Clebsch, Jr., "Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico," United States Geological Survey, 1961, pp. 13 and 50.



is reasonable to conclude that a shallow unconfined groundwater aquifer is not present beneath the site.

2.4 AREA WATER WELLS

The New Mexico Office of the State Engineer groundwater well database does not have record of any wells in Section 25 or the adjacent Sections in R37E/T23S (reference Appendix II). The USGS groundwater well database lists the nearest groundwater well as a livestock watering windmill well #3151, located approximately 0.8 miles west of the site at an elevation of approximately 3,239-feet amsl. It is listed as having a groundwater level of 65.5-feet bgs in 1976. There are no water wells, listed or observed, within a 1,000-foot radius of the site.

2.5 AREA SURFACE WATER BODIES

The release site is located in the Monument Draw described by Nicholson and Clebsch as a major drainage feature within southern Lea County and is not a through-going drainage course. Even though there are no permanent or intermittent bodies of surface water present in the draw within a radius of 1,000-feet of the release site, the rules state such drainage features are to be considered as bodies of surface water.

3.0 NMOCD SITE RANKING

Based on the proximity of the site to protectable area water wells, surface water bodies, and the estimated depth to groundwater, the site has an NMOCD ranking score of 40 points with the soil remedial goals highlighted below in the Site Ranking Matrix.

1. Gr	oundwater	2. V	Wellhead Protection Area	3. Distance to Surface Water Body
points	GW <50 feet: 20 GW 50 to 99 ts	I	' from water source, or;<200' vate domestic water source: 20	<200 horizontal feet: 20 points 200-100 horizontal feet: 10 points
If Depth to points	GW >100 feet: 0		' from water source, or; >200' vate domestic water source: 0	>1000 horizontal feet: 0 points
Site Rank ((1+2+3) = 20 + 0	+20 =	40 points	
Total S	ite Ranking So	core and	d Acceptable Remedial G	oal Concentrations
Parameter	>19		10-19	0-9
Benzene ¹	10 ppm		10 ppm	10 ppm
BTEX1	50 ppm		50 ppm	50 ppm
TPH	100 ppm		1000 ррш	5000 ppm

4.0 Initial Site Delineation

In May 2003, eleven soil borings were advanced and samples collected to delineate the vertical extents of contamination due to the release (reference Figure 4). For sample control purposes, the site was initially divided into the Leak Origin, East Flowpath, Northwest Flowpath, South Flowpath North of Fence, South Flowpath South of Fence, and the Southeast Flowpath (reference Figure 3). The soil borings were advanced with a trailer mounted hollow-stem auger drill rig and discrete soil samples collected with a vinyl sleeved stainless steel soil probe through the



hollow-stem auger at 5-foot vertical intervals beginning at the surface. Each sample was logged, removed from the vinyl sleeve, immediately jarred, placed on ice and submitted to an independent laboratory for TPH and BTEX analysis. The remainder of the sample was placed in a Ziplock bag, allowed to equilibrate to 70 to 75°F and the headspace surveyed for organic vapors using a calibrated photoionization detector (PID) equipped with a 9.8 electron volt (eV) lamp. Sampling ceased in each soil boring after obtaining two consecutive PID readings of less than 50 parts per million (ppm).

4.1 SITE LITHOLOGY

However, during site delineation and excavation activities, site lithology was defined as fine sand to a depth of approximately 7 to 14 feet bgs. The sand is underlain by a one-foot thick layer of medium to coarse gravel, which in turn is underlain by red clay to a depth of at least 25-feet bgs in the vicinity of soil boring BH-5. Soil samples collected during the advancement of the soil borings were observed to be dry (reference Table 2).

4.2 RODENT BURROW DELINEATION

Soil boring BH9 was advanced inside the perimeter of a small isolated crude oil stain observed approximately 50-feet east of the main pooling area. The stain was not contiguous with the surface spill area nor did it appear to be associated with the disturbed surface from initial mitigation and recovery activities. Crude oil impact was delineated to at least 5-feet bgs but less than 10-feet bgs. During excavation of the visibly impacted soil, additional impacted soil associated with a network of rodent burrows was discovered and designated as the Rodent Burrow Flowpath (reference Figure 6, Figure 7 and Appendix III). Analytical results from soil samples collected on June 8 and 10, 2004 from four trenches at sample points located above and below the exposed burrow openings verified the impact as coming from the burrows, in that, contaminant concentrations decreased radially from the burrow (reference Table 3).

4.3 ANALYTICAL RESULTS

The analytical results from each soil boring indicate crude oil impacts graded from the surface, near the leak origin, to 20-feet bgs in the low-lying pooling areas with the longest residence times (reference Table 2).

5.0 SOIL REMEDIATION

Remediation of the site began in May 2004 and was based on the information collected during the May 2003 delineation. The strategy was to excavate the crude oil impacted soils above NMOCD guidelines and remediate at the landfarm established at the Plains Vacuum to Jal 14" Mainline #1 site located approximately 0.5-mile north of the Vacuum to Jal 14" Mainline #6 site. The process of excavating and testing continued through August 20, 2004, during which time approximately 15,850 yd³ of crude oil impacted soil were excavated from the Vacuum to Jal 14" Mainline #6 site and spread in the aforementioned land treatment area.



6.0 CLOSURE ACTIVITIES

Compliance with NMOCD soil remediation standards for the site were verified by laboratory analyses of soil samples collected from the floor and sidewalls of the excavated areas. All samples submitted to the laboratory for analyses were grab samples with the exception of the 5-point composite samples collected from the west sidewall, bottom and east sidewall of the "south flowpath south of the fence" on June 1, 2004. Each sample was immediately jarred, placed on ice and submitted to the laboratory for TPH and BTEX analysis. The remainder of the sample was placed in a Ziplock® bag, allowed to equilibrate to 70 to 75°F and the headspace surveyed for organic vapors using a calibrated PID equipped with a 9.8 eV lamp. To ensure representative samples, sample points were located at approximately 50-foot lateral intervals along the flowpaths (reference Figures 5, 6 and 7). The NMOCD was notified prior to each sampling event. After each iteration of excavating and testing, soils associated with the sample points identified as being in excess of the remedial goals were excavated and transported to the treatment area. To verify removal of soil impacted above NMOCD thresholds, samples were collected and submitted to the laboratory for analysis. To maintain sample location control, pin flags, labeled with the sample number (unique to the sample point) were placed at the initial sample points for reference and at all successive sample points. The sample number from successive soil samples collected from the same sample point remained the same except for the addition of a sequential letter (i.e., 2, 2A, 2B, 2C, etc.). The sample #5 number was inadvertently left out of the initial series of samples and is not associated with a sample. Sampling events occurred on May 14, 18, and 20; June 1 and 16; July 12, 13 and 14; and August 3 and 10, 2004 and were followed by removal of soil identified as being in excess of the remedial goals. The final sampling event occurred on August 20, 2004 and focused on vertical delineation of the #17 sample location in the bottom of the northwest flowpath (reference Figure 7 and Table 4).

6.1 May 14, 18 and 20, 2004 Sampling Events

TPH and BTEX results from analysis of soil samples collected during the May 14, 18 and 20, 2004 sampling events from sample points #1 through #27 indicated adequate soil removal at all sample points with the exception of #1, #6, #7, #8, #10, #11, #14, #17 and #20 (reference Figure 5). TPH and BTEX results from these sampling points were above TPH and BTEX remedial goals for the site. Additional soil was excavated from these locations.

6.2 June 1, 2004 Sampling Event

During the June 1, 2004 sampling event, composite samples were collected from the west sidewall, bottom and east sidewall of the "south flowpath south of the fence" and submitted to the laboratory for TPH and BTEX analyses. TPH and BTEX concentrations were below the remedial goals and deemed acceptable. The "south flowpath south of the fence" was subsequently backfilled with local clean soil and contoured to the natural grade.

6.3 June 16, 2004 Sampling Event

During the June 16, 2004 sampling event, soil samples were collected from sample points #1A, #6A, #7A, #8A, #10A, #11A, #14A, #17A and #20A. TPH and



BTEX concentrations in all samples were below remedial goals and deemed acceptable with the exception of samples collected from #1A, #6A, #11A and #17A. BTEX concentrations in sample #1A were not detectable at or above the 0.025 mg/Kg method detection limit and deemed acceptable. The TPH concentration in sample #1A was reported above the 100 mg/Kg remedial goal at 150 mg/Kg, but does not represent an environmental hazard and was deemed acceptable. TPH and BTEX concentrations in the #6A, #11A, and #17A samples exceeded the NMOCD remedial goals. Additional soil was excavated from these locations.

6.4 JULY 12 AND 13, 2004 SAMPLING EVENTS

Analytical results for soil samples collected on July 12 and 13 from sample points #28 through #60 were below NMOCD remedial goals with the exception of samples #28, #40, #41, #46, #55, #57, #58 and #59. Additional soil was excavated from these locations.

6.5 JULY 14, 2004 SAMPLING EVENT

During the July 14, 2004 sampling event, soil samples #6B, #11B and #17B were collected and submitted to an independent laboratory for TPH and BTEX analyses. BTEX concentrations were below NMOCD remedial goals; TPH concentrations remained above the 100 mg/Kg remedial goal. Additional soil was excavated from these locations.

6.6 AUGUST 3 AND 4, 2004 SAMPLING EVENTS

During the August 3 and 4, 2004 sampling events, soil samples #17C, #28B, 41B, #46B, #55B, #57B, #58B and #59B were collected and submitted to an independent laboratory for TPH and BTEX analyses. TPH and BTEX concentrations in samples #41B, #46B, #57B, #58B and #59B were below NMOCD remedial goals and deemed acceptable. BTEX concentrations were below the NMOCD remedial goals in samples#17C, #28B and #55B; however, TPH concentrations exceeded NMOCD remedial goals. Additional soil was excavated from these locations.

6.7 AUGUST 10, 2004 SAMPLING EVENT

During the August 10, 2004 sampling event, soil samples #6C, #11C, #17D, #28C and #55C were collected and submitted to an independent laboratory for TPH and BTEX analyses. BTEX concentrations were below the NMOCD remedial goals in all the samples; however, TPH concentrations in the #6C, #11C, and the #17D samples exceeded NMOCD remedial goals. Additional soil was excavated from these locations.

6.8 AUGUST 20, 2004 SAMPLING EVENT

During the August 20, 2004 sampling event, soil samples #6D and #11D were collected and submitted to the laboratory for TPH and BTEX analyses. TPH and BTEX concentrations in the #6D and #11D samples were reported to be below NMOCD remedial goals and deemed acceptable.

To determine the vertical extent of crude oil impact at the #17 sample point, located in the floor of the northwest flowpath, a series of 1-foot interval soil



samples were collected to 20-feet bgs, beginning at the excavation floor, approximately 12-feet bgs. Reported BTEX concentrations ranged from an excessive 167 mg/Kg in the 12-foot bgs sample to an acceptable concentration of 0.575 mg/Kg in the 20-foot bgs sample. The TPH concentrations ranged from 5,310 mg/Kg in the 12-foot bgs sample to 216 in the 18-foot bgs sample. The TPH concentration in the 20-foot bgs sample was 256 mg/Kg, in excess of the 100 mg/Kg remedial goal. The NMOCD agreed that TPH and BTEX concentrations at 20-feet bgs would not be capable of impacting area groundwater, does not present an environmental risk or affect revegetation of the surface and subsequently permitted Plains to leave the impacted soil below the 20-foot bgs interval in place providing Plains excavated the limited area of small diameter impacted soil column to 19-feet bgs. The impacted soil column associated with the #17 sample location to a depth of 19-feet bgs was removed.

7.0 BACKFILLING AND CONTOURING

With NMOCD and landowner consensus, the excavated area was first backfilled with local clean soil obtained from the unvegetated hummocks located east and west of the site. Additional soil was hauled in from the unvegetated hummocks adjacent and west of the Plains Vacuum to Jal 14" Mainline #1 site. The surface was contoured to the natural grade and reseeded.

8.0 FOLLOW-UP ACTIVITIES

Plains will ensure the surface disturbed during remediation activities is restored to pre-leak conditions as practicable and minimize further disturbance of vegetated areas and continue to monitor attenuation of the TPH and BTEX concentrations in the soils placed in the soil remediation area at the Plains Vacuum to Jal 14" Mainline #1 site located approximately 0.5-mile to the north.

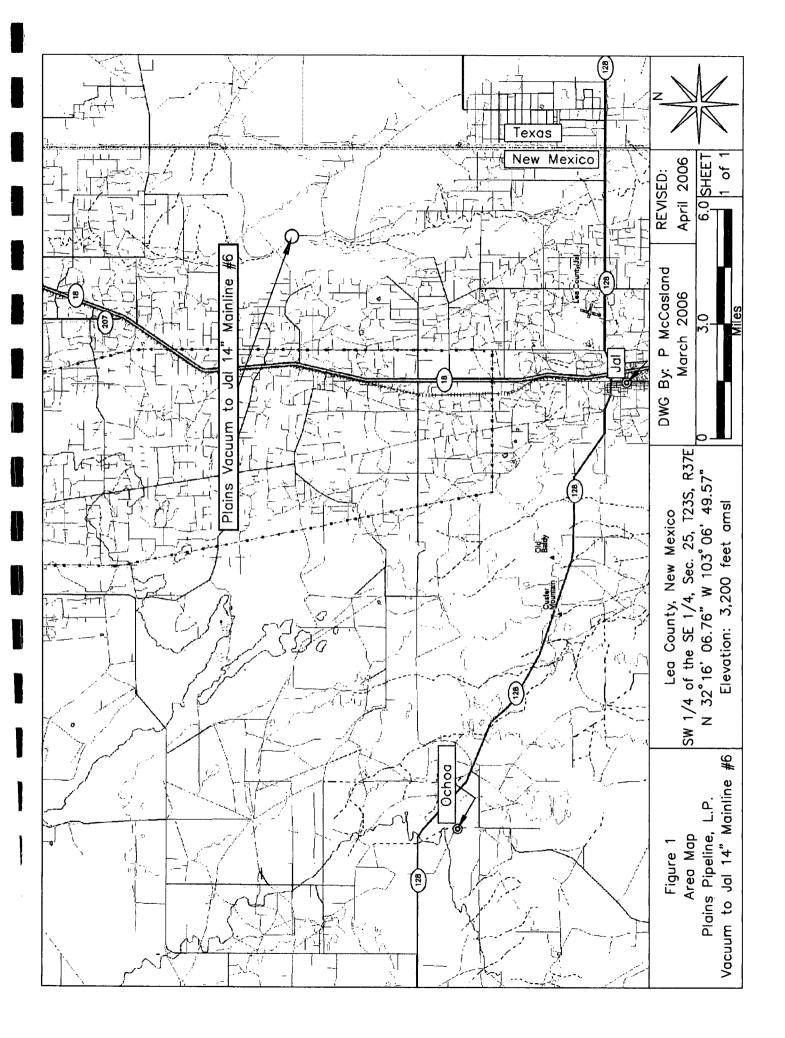
9.0 CONCLUSION

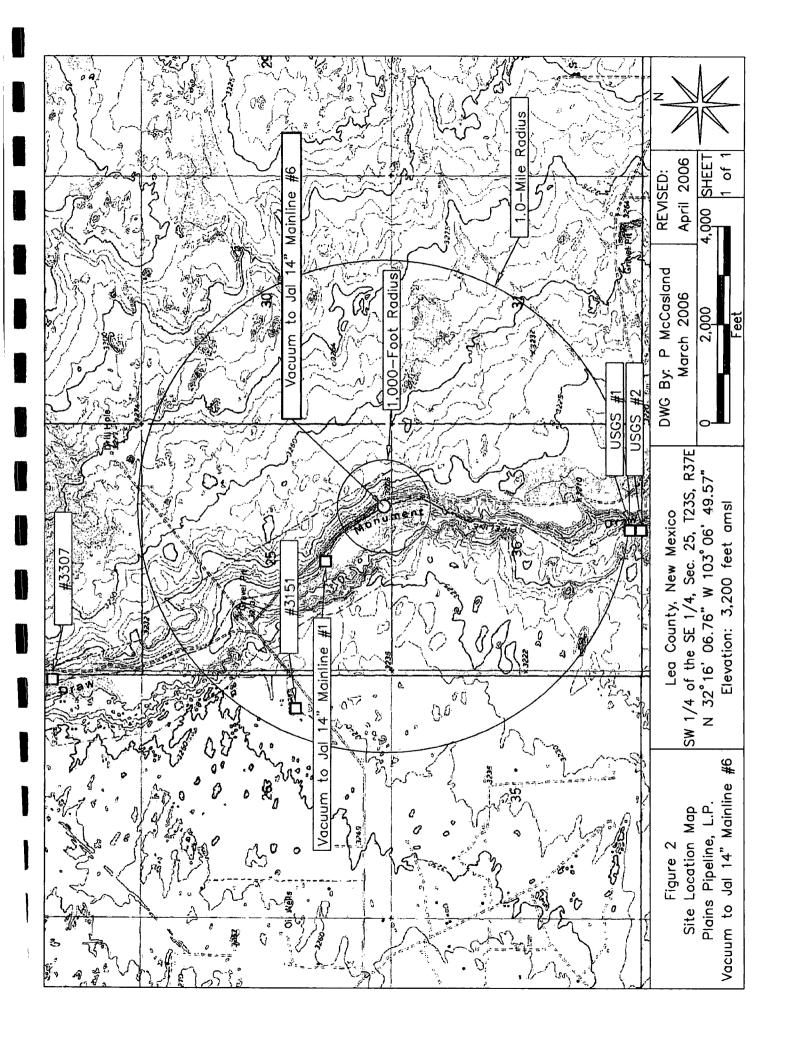
The information provide in this report documents remediation of the release consistent with the NMOCD guidelines, Plains therefore requests the NMOCD require no further action at the site and issue a "no further action required" letter to Plains.



FIGURES







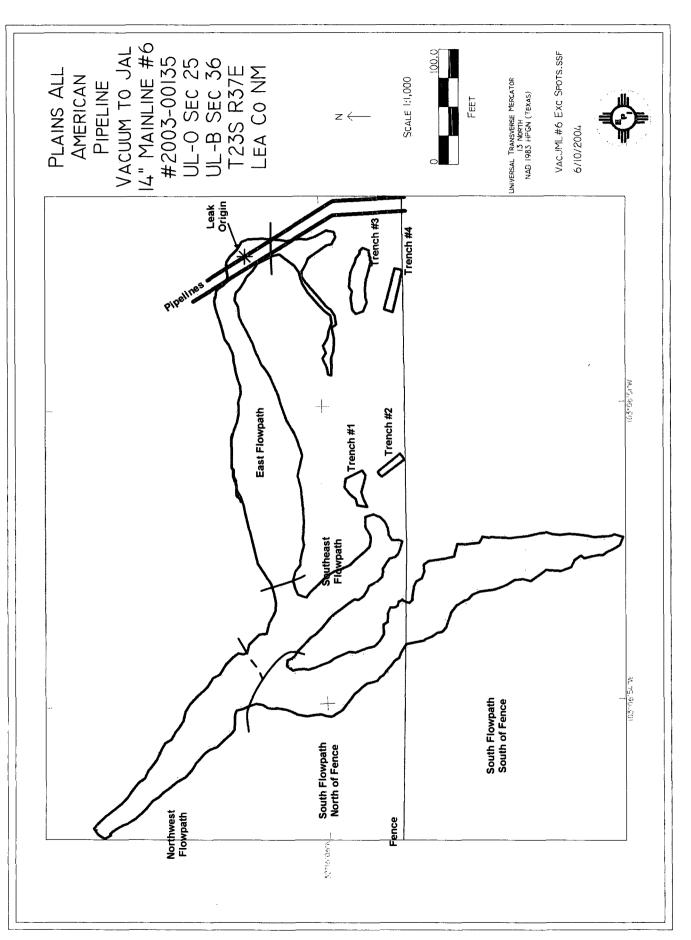


Figure 3: Site Map

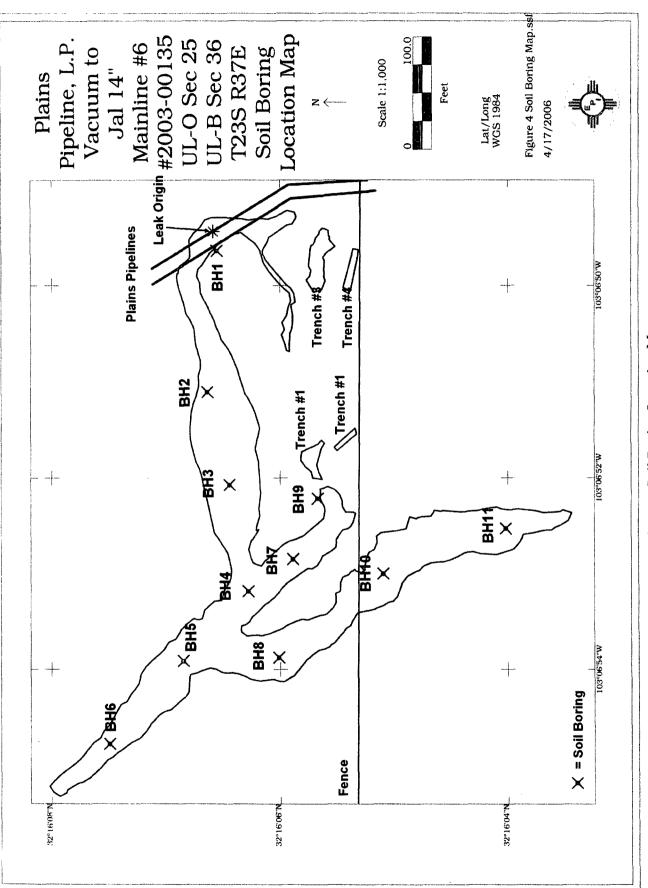


Figure 4: Soil Boring Location Map

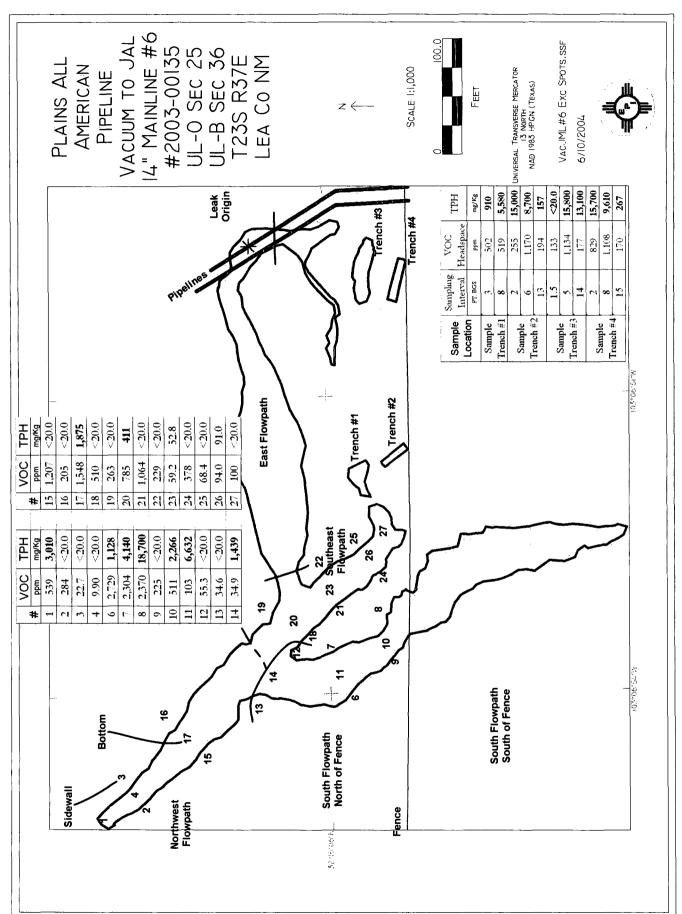
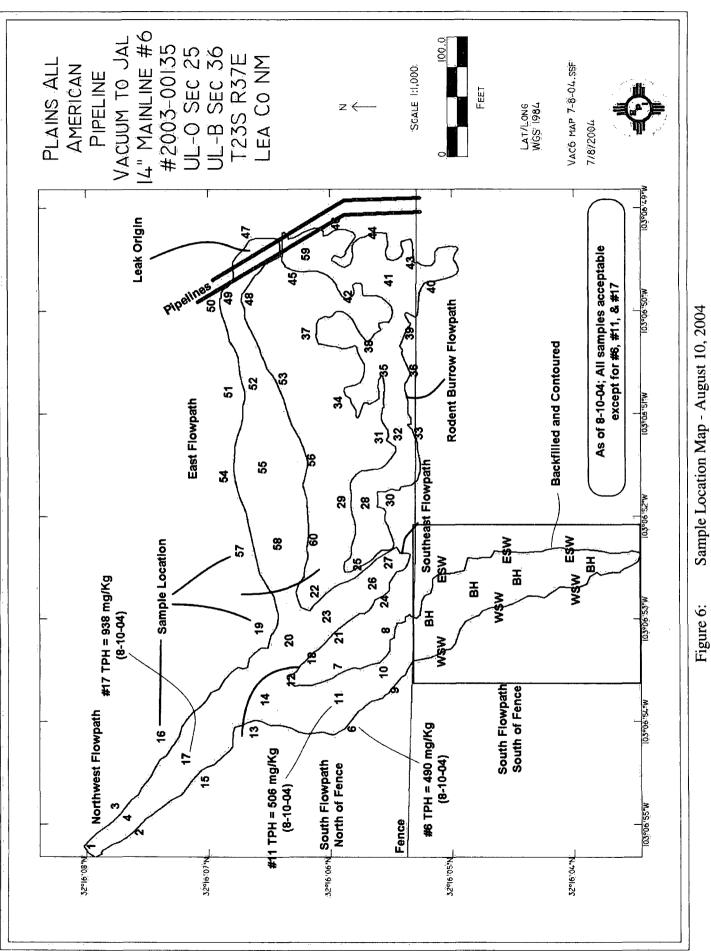


Figure 5: Sample Location Map - May 14 to June 10, 2004



Sample Location Map - August 10, 2004

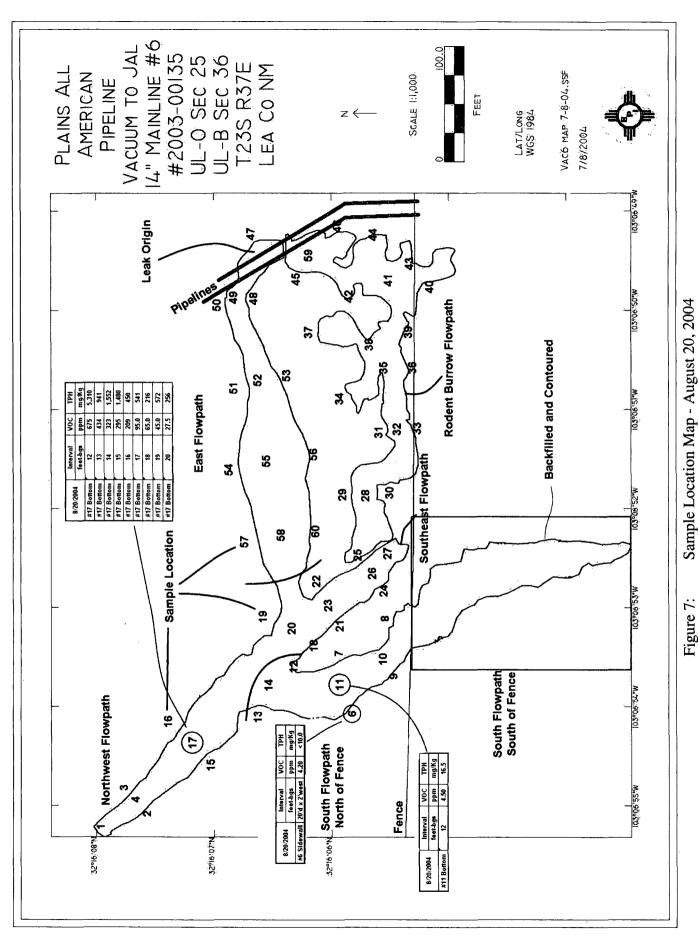


Figure 7:



TABLES

Summary of Area Groundwater Levels and Site Groundwater Level Estimate
Plains Pipeline, L.P.

Vacuum to Jal 14" Mainline #6 ref. #2003-00135

#QI	Latitude	Longitude	Township Range Section	Measurement Date	Groundwater Level	Surface Elevation	Calculated Groundwater Elevation	Distance and Direction from Site
Windmill Well	32° 14' 37.4"N	32° 14' 37.4"N 103° 06' 59.2"W	T24S, R37E, Sec 1	2004	16.66 ³	3,170	3,153.34	1.7 miles south
USGS #1	32° 15' 14.5"N	32° 15' 14.5"N 103° 06' 54.4"W	T23S, R37E, Sec 31	1966	20.99	3,185	3,164.01	1.1 miles south
USGS #2	32° 15' 13.3"N	32° 15' 13.3"N 103° 06' 54.3"W	T23S, R37E, Sec 31	1976	20.45	3,185	3,164.55	1.1 miles south
#3151	32° 16' 25.1"N	32° 16' 25.1"N 103° 07' 36.0"W	T23S, R37E, Sec 26	1976	65.5	3,239	3,173.50	0.8 miles west
Plains Vacuum to Jal 14" Mainline #1 Monitoring Well #1 ⁴	32° 16′ 18.4″N	32° 16′ 18.4"N 103° 07′ 05.2"W	T23S, R37E, Sec 23	2006	dry	3,195		0.25 miles northwest
#3307	32° 17' 16.7"N	32° 17' 16.7"N 103° 07' 29.2"W	T23S, R37E, Sec 23	1991	29.55	3,214	3,184.45	1.3 miles north

bgs - below ground surface

²amsl - above mean sea level

³The groundwater level was measured and recorded by Environmental Plus, Inc..

⁴The groundwater monitoring well was installed in 2003. Total Depth = 27'bgs; 10-feet of 2" PVC casing and 20-feet of 0.020-inch screen was installed with a 3-feet stickup; fine sand was encountered from the surface down to a depth of 15-feet bgs with red clay from 15 to a depth of 37-feet bgs.

Surface elevations were interpolated from the USGS Topographical map.

The estimated groundwater elevation at the site is calculated to be approximately 33-feet bgs and is based on a calculated groundwater gradient of 0.002 feet per foot.

Table 2

Vacuum to Jal 14" Mainline #6 ref.#2003-00135 Plains Pipeline, L.P.

Initial Delineation Data May 2003

					Initial	Delineation	nitial Delineation Data May 2003	, 2003						
Sample Location	Description	Sampling Interval	SAMPLE ID#	Date	Lithology	PID ²	GRO³	DRO⁴	TPH^5	BTEX	Benzene	Toluene	Ethylbenzene	Total Xylenes
		(FT: BGS ¹)				ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	Probe	2	SE14M652703BH1-2	5/27/03	Tan Sand	300	<10.0	11.9	11.9	0.039	<0.020	<0.020	<0.020	0.039
Borehole 1	Probe	5	SE14M652703BH1-5	5/27/03	Tan Sand	38.4	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
Notional	Probe	10	SE14M652703BH1-10	5/27/03	Tan Sand	1.40	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652703BH1-15	5/27/03	Tan Sand	0.30	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652703BH2-2	5/27/03	Tan Sand	338	<10.0	87.2	27.8	0.035	<0.020	<0.020	<0.020	0.035
Romeholo 2	Probe	\$	SE14M652703BH2-5	5/27/03	Tan Sand	19.7	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
7 210110101	Probe	10	SE14M652703BH2-10	5/27/03	Tan Sand	40.3	12.2	156	168	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652703BH2-15	5/27/03	Red Clay	0.20	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M65Z703BH3-2	5/27/03	Ten Sand	1,500	1,210	2,240	3,450	53.0	0.106	6.89	13.4	32.6
Borahola 3	Probe	5	SE14M652703BH3-5	5/27/03	Tan Sand	7.80	<10.0	<10.0	<10.0	<0.020	< 0.020	<0.020	<0.020	<0.020
Calonated	Probe	10	SE14M652703BH3-10	5/27/03	Tan Sand	3.40	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SB14M652703BH3-15	5/27/03	Red Clay	0.20	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652803BH4-2	5/28/03	Tan Sand	657	22,600	34,300	56,900	802	24.7	166	168	443
Dorahala A	Probe	5	SE14M652803BH4-5	5/28/03	Tan Sand	53.6	<10.0	6.51	6.51	<0.020	<0.020	<0.020	<0.020	<0.020
Faintaing	Probe	10	SE14M652803BH4-10	5/28/03	Red Clay	15.4	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652803BH4-15	5/28/03	Red Clay	10.4	<10.0	5.52	5.52	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652803BH5-2	5/28/03	Tan Sand	650	15,300	19,800	35,100	835	34.8	215	180	405
	Probe	Š	SE14M652803BH5-5	5/28/03	Tan Sand	750	16,800	19,600	36,400	1,120	72.5	346	236	465
9.1.1.0	Probe	10	SE14M652803BH5-10	5/28/03	Red Clay	700	7,100	6,740	13,800	375	17.8	100	80:0	177
Dorenoie 5	Probe	15	SE14M652803BH5-15	5/28/03	Red Clay	849	762	583	988	14.9	0.253	2.76	3.49	8.40
	Probe	8	SE14M652803BHS-20	5/28/03	Red Clay	24.1	<10.0	5.89	5.89	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	25	SE14M652803BH5-25	5/28/03	Red Clay	15.3	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652803BH6-2	5/28/03	Tan Sand	853	12,700	22,300	35,000	637	16.8	149	143	328
-	Probe	S	SE14M652803BH6-5	5/28/03	Tan Sand	18.0	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
Borehole 6	Probe	01	SE14M652803BH6-10	5/28/03	Tan Sand	10.2	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652803BH6-15	5/28/03	Red Clay	7.90	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652803BH7-2	5/28/03	Tan Sand	675	9.230	12.700	21.930	366	10.7	81.2	75.4	199
	Probe	5	SE14M652803BH7-5	5/28/03	Tan Sand	009	13,800	11,300	25,100	898	53.9	240	179	395
Borehole 7	Probe	01	SE14M652803BH7-10	5/28/03	Red Clay	750	12,800	12,600	25,400	721	31.1	188	155	347
	Probe	15	SE14M652803BH7-15	5/28/03	Red Clay	20.2	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	92	SE14M652803BH7-20	5/28/03	Red Clay	18.4	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	7	SE14M652903BH8-2	5/29/03	Tan Sand	1,060	19,800	32,300	52,100	206	28.2	193	176	399
0 1 1	Probe	5	SE14M652903BH8-5	5/29/03	Tan Sand	865	16,600	14,800	31,400	534	19.8	136	116	262
Borenole 8	Probe	10	SE14M652903BH8-10	5/29/03	Red Clay	40.1	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652903BH8-15	5/29/03	Red Clay	20.1	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	. 2	SE14M652903BH9-2	5/29/03	Tan Sand	740	17,200	11,100	28,300	1,167	64.6	391	226	485
Borshole 0	Probe	. 5	SE14M652903BH9-5	5/29/03	Tan Sand	420	12,900	10,800	23,700	784	43.0	217	163	361
Dollering	Probe	10	SE14M652903BH9-10	5/29/03	Tan Sand	6.01	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652903BH9-15	5/29/03	Red Clay	5.70	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652903BH10-2	5/29/03	Tan Sand	1,300	6,260	8,300	14,500	283	9.48	81.4	26:0	136
Borehole 10	Probe	5	SE14M652903BH10-5	5/29/03	Tan Sand	720	34.4	94:3	129	1.96	<0.020	0.227	0.484	1.25
DOI GIOTE 10	Probe	01	SE14M652903BH10-10	5/29/03	Red Clay	20.7	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652903BH10-15	5/29/03	Red Clay	7.0	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	2	SE14M652903BH11-2	5/29/03	Tan Sand	1,188	10,000	15,600	25,600	285	8.70	82.9	8.09	133
Dorahola 11	Probe	5	SE14M652903BH11-5	5/29/03	Tan Sand	10.4	<10:0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
TI SIGNATOR	Probe	10	SE14M652903BH11-10	5/29/03	Red Clay	8.00	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
	Probe	15	SE14M652903BH11-15	5/29/03	Red Clay	6.1	<10.0	<10.0	<10.0	<0.020	<0.020	<0.020	<0.020	<0.020
			New Mexico Oil Conservation Division Remedial Goals	ervation Division	Remedial Goals	100			100	50.0	10.0			
bgs - below ground surface	ace							BTEX - Mass su	BTEX - Mass sum of benzene, toluene, ethylb	uene, ethylbenzer	ne, and xylenes			
² PID - Photoionization I	etector for Vola	tile Organic C	Photoionization Detector for Volatile Organic Contaminants/Constituents				•	< - (i.e., less than	< (i.e., less than): indicates the method detection limit	ethod detection li	mit			
30000		ı												

³GRO-Gasoline Range Organics C₆-C₁₂
¹DRO-Diesel Range Organics C₁₃-C₂₈
²TPH-Total Petroleum Hydrocarbon = GRO+DRO.

Red Bold font indicates concentration is in excess of the remedial goal.

Table 3

Vacuum to Jal 14" Mainline #6 #2003-00135 Plains Pipeline, L.P.

Rodent Burrow Sample Trench Delineation Data

Sample Location	Description	Sampling Interval	SAMPLE ID#	Date	Lithology	PID ²	GRO³	DRO⁴	TPH ⁵	BTEX ⁶	Benzene	Toluene	Ethylbenzene	Total Xylenes
		(FT. BGS ¹)				mdd	mg/Kg	mg/Kg	тв/Кд	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Samolo Tranch #1	Above burrow opening	3	SI.14M060804H#1-3'	6/8/04	Sand	502	273	637	910	8.40	0.041	0.778	1.92	5.66
Sample Hellen #1	Below burrow opening	8	SL14M060804FI#1-8'	6/8/04	Sand	519	1,050	4,530	5,580	19.4	0.146	2.61	4.26	12.4
	Above burrow opening	2	SI.14M061004H#2-2'	6/10/04	Sand	255	3,620	11,400	15,000	18.0	0.082	1.79	5.33	10.8
Sample Trench #2	Below burrow opening	9	SL14M061004H#2-6'	6/10/04	Sand	1,170	3,050	5,640	8,690	53.9	0.222	8.44	12.0	33.2
	Below burrow opening	13	SL14M0601004H#2-13'	6/10/04	Sand	194	13.3	144	157	0.033	<0.025	<0.025	<0.025	0.033
	Above burrow opening	1.5	SL14M0601004H#3-1'6"	6/10/04	Sand	133	<10.0	<10.0	<10.0	0.143	<0.025	0.029	Jl0.0216] ⁷	0.114
Sample Trench #3	Below burrow opening	2	SL14M0601004H#3-5'	6/10/04	Sand	1,134	5,570	10,200	15,800	150.34	3.34	32.2	34.8	80:0
	Below burrow opening	14	SL14M0601004H#3-14'	6/10/04	Sand	177	2,410	10,700	13,100	67.2	1.45	13.3	15.2	37.3
	Above burrow opening	2	SL14M0601004F1#4-2'	6/10/04	Sand	829	4,130	11,600	15,700	55.9	0.687	9.41	11.5	34.3
Sample Trench #4	Below burrow opening	8	SL14M0601004H#4-8'	6/10/04	Sand	1,108	3,070	6,540	9,610	91.6	1.49	17.5	20.4	52.2
	Below burrow opening	15	SL14M0601004H#4-15'	6/10/04	Sand	170	18.7	248	267	0.175	<0.025	J[0.0229]	0.037	0.139
		Ne	New Mexico Oil Conservation D	on Division Remedial Goals	dial Goals	100			100	50.0	10.0			-

¹bgs – below ground surface

²PID - Photoionization Detector for Volatile Organic Contaminants/Constituents

 $^3GRO\text{-}Gasoline$ Range Organics $C_6\text{-}C_{12}$

⁴DRO-Diesel Range Organics C₁₃-C₂₈

 5 TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶BTEX - Mass sum of benzene, toluene, ethylbenzene, and sylenes

 $^{7}\mathrm{J}$ - parameter detected but not above the method detection limit. 8 < - (i.e., less than): indicates the method detection limit

 9 - - = not analyzed

Red Bold font indicates concentration is in excess of the remedial goal.

Table 4
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #6 #2003-00135
Excavation Delineation Data

		-	C 7 4 3	Mark S. P.			_	_	_	_	77	_	10"	_	12.60	-	_	_		_	_		٠٠	4	No.		-	7.	(-)		_	- 1		_	-			_	$\overline{}$		$\overline{}$	-	=
Total Xylenes	mg/Kg	0.912	5 7 0'0>	<0.025	. \$20:0>	<0.025	10.6	23.8	0:094	<0.025	€0:05	67.1	<0.025	50.3	<0.025	<0.025	0.335	<0.025	6.37	16.4	0.221	0.813	5Z0 0>	5Z0:0>	<0:052	296'0	<0.025	<0.025	<0.025	4.45	84.0	13.8	4.90	0.588	68.3	17.8	16.0	10.6	2.92	1.46	0.823	3.72	57. 70
Ethylbenzene	mg/Kg	0.158	< <0.025	_ <0.025; _	<0.025	<0.025	4.16	9:59	<0.025	<0.025	<0.025	26.8	< 0.025	20.8	<0.025	<. < 0.025	0.117	<0.025	2.24	5.82	0.073	0,238	€0.025	<0.025	< 0.025	0.358	<0.025	< 0.025	<0.025	1.61	36.4	4.89	1.22	0.191	36.4	6.38	00:9	3.51	0.774	0.379	0.214	1.15	0.120
Toluene	mg/Kg	<0.025	<0.025	<0.025	<0.025	<0.025	1.72	8.67	<0.025	<0.025	<0.025	19.2	<0.025	13.6	<0.025	<0.025	0.044	<0.025	1.06	4.26	0.035	0.179	<0.025	<0.025	<0.025	0.143	<0.025	<0.025	<0.025	0.816	48.3	3.16	1.16	0.110	45.4	89.8	7.94	3.48	0.851	0.231	0.206	0.861	11.000
Benzene	mg/Kg	<0.0258	<0.025	<0.025	<0.025	<0.025	0.177	1.12	<0.025	<0.025	<0.025	2.13	<0.02	1.36	<0.025	<0.025	<0.025	<0.025	0.192	0.396	<0.025	<0.025	<0.025	<0.025	<0.025	[0.0184]	< 0.025	<0.025	<0.025	0.204	10.4	0.277	0.122	<0.025	16.7	1.73	1.31	0.310	0.106	0.015	0.040	0.074	<0.075
BTEX ⁶	mg/Kg	1.07	<0.025	<0.025	<0.025	<0,025	16.6	43.2	0.094	<0.025	_<0.025	115:	<0.025 =	86.1	<0.025	<0.025	0.495	<0.025	9.86	26.9	0.328	1.23	<0.025	-<0.025	<0.025	1.47	<0.025	<0.025	<0.025	2.08	08	22.1	7.40	0.889	167	34.6	31.2	17.9	4.65	2.08	1.28	5.80	.0.575
TPH ⁵	mg/Kg	3,010	.150		<10.0	<10.0	1,100	7,090	518	490		4,140	-<10.0	18,700	√210,0	<10.0	2,300	59.2	0,000	18,400	745	908	16.5	<10.0	<10.0	1,400	<10.0	<10.0	<10.0	1,900	090'6	3,400	1,600	938	5,310	941	1,600	1,480	420	541	216	572	920
DRO ⁴	mg/Kg	2,570	051	<10.0	161.91	<10.0	790	5,530	467	428	0.01>	2,790	<10.0	15,100	<10.0	<10.0	2,130	59.2	5,820	16,300	695	442	16.5	(6.81)	[262]	1,310	0.01>	<10.0	<10.0	1,620	5,810	2,510	1.1 82.1	859	2,800	521	266	973	762	395	149	379	38
GRO ³	mg/Kg	94	<100	<10.0	<10.0	.000>	338	1,560	50.7	61.7	-0.00	1,350	1000	3,600	<10.0	<10.0	136	<10.0	812	2,080	50.0	63.8	<10.0	1001>	<10.01 ≥	129	- #	<10.0	<10.0	255	3,250	£53	£3	78.9	2,510	420	200	507	153	146	67.2	193	70.0
PID ²	ujdd	539	6	284	22	06.6	2,729	-	:	:	12.00	2,304	1.5	2,370		225	511	9.	103	;	;			55.3	34.6	34.9	14	1,207	2005	1,548	į			÷	675	434	323	295	500	95.0	65.0	-	526
Lithology		Sand	Sand	Sand	Sand	Red Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Purs	Sand	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Sand	Sand	Red Clay	Red Clay.	Sand	: Sand	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay	Red Clay
Date Soil Status Lithology		excavated	mus ur	in sin.	nais ur	in sin	excavated	excavated	excavated	excavated	insin	excavated	in-sim	excavated	in situ	in-situ	excavated	in-situ	excavated	excavated	excavated	excavated	in sin	rups-ur	ngıs-ui	excavated	in situ	in-situ	in-situ	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	excavated	VIII.
Date		5/14/04	6/16/04	5/14/04	5/14/04	5/14/04	5/14/04	6/16/04	7/14/04	8/10/04	8/20/04	5/18/04	6/16/04	5/18/04	6/16/04	5/18/04	5/18/04	6/16/04	5/18/04	6/16/04	7/14/04	8/10/04	8/20/04	5/18/04	5/18/04	5/18/04	6/16/04	5/20/04	5/20/04	5/20/04	6/16/04	1/14/04	8/3/04	8/10/04	8/20/04	8/20/04	8/20/04	8/20/04	8/20/04	8/20/04	8/20/04	8/20/04	40/0C/8
SAMPLE ID#		SLVJ6514041	Jal14Maun#6616041A	SLVJ6514042	SEVI6514043	SLVI6514044	SLVJ6518046	Jal14Main#6616046A	SPAAVJ671404#6B	SL14M810046D	PV682004#6E-2	SLVJ6518047	- Jali 4Main#6616047A		18A	SLVJ6518049	SLVJ65180410	Jal14Main#66160410A	SLVJ65180411		m.		PV682004#11E:12:	SLV/65180412	SEVJ65180413	SLVJ65180414	Jal14Wain#66160414A	SLVJ65200415	SLVJ65200416	SLVJ65200417	Jal14Main#66160417A	SPAAVJ6/14/J4#17B	08030417B	SL14M8100417D	PV682004#17E-12'	PV682004#17E-13'	PV682004#17E-14	PV682004#17E-15	PV682004#17E-16'	PV682004#17E-17	PV682004#17E-18'		TVK82004#17F-201
Sampling Interval	(FT. BGS ¹)	2	Z	5 to 8	. 8 ca 8	S 50.8	5 to 8	5 to 8	5 to 8	5 to 8	S to 8	_	5.00.8		Ŋ.	5 to 8	80	12	8	8	10	11	×12.	5 to 8	8 01 5	8	12	8.00.9	5.0.8	7	_∞	6	10	11	12	13	14	15	16	17	18	19	30
	#	1	1.4		6	4	9	¥9	eB	Q9	- EE	7	¥1.6	8	. 9∕9	. 6.	10	TOA	11	11A	11B	11D	TIE	12	13	14		# 45° 4	16	17	17A	178	22	Ū.	17E	17E	17E	17压	17E	17E	17E	17E	- 17H
Sample Point	Description	Northwest and	TAOTHINGS! CITE	Northsouth wall	Northnorth wall	North bottom			Midwest west wall			Midwest east wall	TATIO WOOL CASE WALL	Southeast wall	Coddicast wall	Southwest wall	Southwest hottom				Midbottom			Northeast wall	Northwest wall	North bottom	TACTED DOCTOR	Southsouth wall	Southwest wall							South Bottom						•	
Sample Location			Northweet	Flowmath										L		South Flowmath	north of feace								_	l:									Northwest	Flowpath							

Table 4
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #6 #2003-00135
Excavation Delineation Data

	T		,~t p			2 41		14.	۶ ۲,۰	7"	77.7	₹**.		-	-	3 - 37	14.2	AT In	~ 10	12.	-	-	- =	37.5	(- T	7 gg/				, 4		47	and the same			- ;	- 1	_
Total	Aylenes	mg/Kg	<0.025	<0.025	0.200	0.059	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.99	1.49	<0.025	. 1≪0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.069	<0.025	<0.025	0.045	0380	0.849	<0.025	0.187	95:8	<0.025
Ethylbenzene		mg/Kg	<0.025	<0.025	0.061	\$20.0%	\$20.0>	<0.025	<0.025	<0.025		<0.025	×0.025	0.301	0.386	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<.0.025	×.×0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.038	0.262	<0.025	[0:0182]	42.7	<0.025
Toluene	+	mg/Kg	<0.025	<0.025	0.066	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.171	0.074	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	. 0900	0.147	<0.025	[0,0213]	32.9	<0.025
Benzene		mg/Kg	<0.025	<0.025	0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	[0.0209]	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	[0.0201]	<0.025	<0.025.	<0.025	1.89	<0.025
BTEX		mg/Kg	<0.025	<0.025	0.361	0.059	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	2.46	1.95	<0.025	- *******	<0.025	< 0.025	₹0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	6900	<0.025	. <0.025·		0.487.	1.26	<0.025	781.0	173	<0.025
TPH³		mg/Kg	<10.0	<10.0	411	73.8	<10.0	<10.0	42.8	<10.0	<10.0	91.0	<10.0	1,700	348	<10.0	10.01S	<10.0	<10.0	<10.0	0,01> ∵	<10.0	<10.0	\$10°0	,<10.0	<10.0	<10.0	913	1,600	15.6	<10.0	<10.0	<10.0	1,300	<10.0	<10.0	8,300	<10.0
DRO⁴		mg/Kg	<10.0	<10.0		73.8	[8:29]	×10.0	42.8	. < 10.0	<10.0	0.16	<10.0	1,420	252	4 × 10.0	<10.0	_001×_	0.01>	€10.0	<10:0	10.0 °	<10.0	<100		ς¥.	٠.,	913		15.6	<10.0	[<100]	. 5.0		<10.0	<10.0		<10.0
2 GRO³	-	mg/Kg	×10.0	<10.0	Н	<10.0	0.01>-	<10.0	0.01	0.015	0'01>	<10.0	×10.0	Н	626	0.01≽	<10.0)	0.01>	<10:0	<10.0	<10.0	<10.0	. ×10.0	<10.0	_		<10.0	<10.0	\dashv	<10.0	1 <10.0	0'01>	<10.0	Н	<10.0 ≥	100	\neg	×10.0
PID ²	_	bbm	510			ân.	1,06	229	- 59.2	378	¥89.	4.4	100	0.89	'	1. Sept. 2.	7.30	51.8	6.70	28.5	6.04	0.62	T.08	692	1.08	ya. 74	7	400	0.11		08.6	056	- /-	08.6		0.89	7.30	
	Lithology		Sand		Red Clay	Red Clay	Sand	Sand	Red Clay	Sand	Sand	Red Clay	Sand	Red Clay	Red Clay	Red Clay	Sand	Sand	Sand	Red Clay	Sand	purs.	Red Clay	Sand	Sand	Red Clay	Sand	Sand	Red Clay	Red Clay	Safid	Sand	Sarid	Red Clay	Red Clay	Sand	Sand	Sand
PID ²	Soil Status		ngis-ui	in-situ	excavated	nis-u	my ur	idis-di	"The site.	ngis-ui	in-situ	ngis-uri	nis-ui	excavated	excavated	ngis-ui	ngıs,uı	agus-ur	nus-ui-	n)-situ	in situ	in-sitii	in-situ	rois ur	, misim	in-sita	in situ	excavated	excavated	in-situ	in-situ	nais-ui	in:sitii	excavated	nais-ui	nu situ	excavated	mistra
	Date		5/20/04	5/20/04	5/20/04	6/16/04	\$/20//04	5/20/04	5/20/04	5/20/04	5/20/04	2/20/04	5/20/04	7/12/04	8/4/04	#0/01/8	7/12/04	17/12/04	7/12/04	7/12/04	7/12/04	7//12//04	7/12/04	7/12/04	7/12/04	1/12//04	7/12/04	7//12/04	7/12/04	8/3/04	7//12//04	1/12/04	1/21/04	7/13/04	70/6/8	40/£1//	7/13/04	8/3/04
	SAMPLE 1D#		SLVJ65200418	SLVJ65200419	SLVJ65200420	Jal14Manh#66160417A	SLW]65200421	SLVJ65200422	SLVJ65200423	SL VJ65200424	SLVJ65200425	SLVJ65200426	SL VJ65200427	SPAAVJ671204#28	08030428B.	SEJ4M8100428C	SPAAVJ671204#29	-SPAAVJ671204#50;	SPAAVJ671204#31	SP.A.VJ671204#32	SPAAVJ671204#33	SPAAVJ671204#34	SPAAVJ671204#35	SPAAVJ6#1204#36	SP.A.A.VJ671204#37	SPAAVJ671204#38	SPAAVJ671204#39	SPAAVJ671204#40	SPAAVJ671204#41	08030441B)	SPAAVJ671204#42	SPAAVJ671204#43	SPAAVJ671204#44	SPAAVJ671204#59		SPAAVJ671204#45	SPAAVJ671204#46	
Sampling	Interval	(FT. BGS ¹)	5 to 8	5 to 8	8	Ø	8 01 9	5 to 8	8	5.6.8	5 to 8	Ø	5.02.8	8	12	14	5 to 8	5 to 8	5 to 8	8	5 to 8	5 to 8	8	3.4	1		. 5 to 8	5/to 8	8	. 12	5 to 8	. 5, to 8	. 5 to 8	8	7.7	5 to 8	5 to 8	, 5 to 8
		#	81	- 63	20	- 20A	.21	, 22 -	22	7 5	. 52	8		28	28B	- 28C	82	30	31.	. 32	· cc	146	38	. 36	37	38.	-39	. 40:	41	41B	42		**	59		45	46	46 B
Sample Point		Description	Northsouth wall	Northnorth wall	North hottom	וויסטוסט וחוסאו	Midsouth wall	Midnorth wall	Midbottom	Southsouth wall	Southnorth wall	Southbottom	Southsouth wall		West bottom		West north wall	West south wall	West north wall	West bottom	West south wall	West north wall	West bottom	West south wall	East north wall	East bottom	Hagt south wall	Last south wan	Hast hottom		East northwest wall	East south wall	East wall	West bottom	West Dottom	East north wall	Fast wall	
-	Sample Location				L		Courthouse	Southeast	Liowpari		I	L				-		L							Rodent Burrow	Flowmath			L,									

			Sampling					⊩-	┡	_ *	4	ļ	4			Total
Sample Location	Sample Point		Interval	SAMPLE ID#	Date	Soil Status	Lithology	PID" G	GRO" D	DRO	TPH	BIEX.	benzene	Ioluene	Ethylbenzene	Xylenes
	Description	#	(FT. BGS ¹).					ppin m	mg/Kg ≖	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	East east wall		803.5	SP.A.A.VJ671204#47	7/13/04	nus-ur	Red Clay	> 1.8	<10.01 ×	\$10.0	<10.0	<0.025	<0.025	\$70°0>	SZ0:0> -	₹0.025
	East east south wall	84	5.008	SPAAVJ671204#48	7//13/04	rais-ui	Red Clay	> 02.9	<10.01	< 10.0	<10.0	< 0.025	<0.025	<0.025	<0.025	<0.025
	East east bottom	49.	8	49 8: SBAAVJ671204#49.	7/13/04	rin-safu	Red Clay	28.5	< 10.01>	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	<0.025
	East east north wall	. 20	8 94.5	SPAAVJ671204#50	7/13/04	mis-m	Sariel	¥0.9	<10.0	74.0	74.0	<0.025	<0.025	<0.025	<0.025	×0.025
	East north wall	. 51	5108	. SPAAVJ671204#51	7//13/04	this di	Red Clay	> 0.62	×. 1000	-0:01>:	<10.0	<0.025	<0.025	<0.025	<0.025	<0.025
	East bottom	. 62	.8	SPAAVJ671204#52.	77/13/04	्राम्भाक्षाम्	Red Clay	. 80.1	<10.0	35.7	<100	<0.025	<0.025	<0.025	<0.025	<0.025
	East south wall	83		S-to-8 SPAAVJ671204#55	10/13/04	- niesin	Sand	> 15.9	<10.0	<10.01	<10.01	<0.025	<0.025	< 0.025	<0.025	<0.025
	Mid north wall	54	8.01.5	SPAAXJ671204#54	40/21//	nus-ur	Sand	80.1	<10.0.	<10.0	<10.01>	<0.025	<0.025	<0.025	\$Z0:0>	<0.025
East Flowpath		55	8	SPAAVJ671204#55	7/13/04	excavated	Red Clay	923 1	14.6	295	310	<0.025	<0.025	<0.025	<0.025	<0.025
	Mid bottom	22B	12	08030455B	8/3/04	excavated	Red Clay		359 1	1,330	1,700	12.1	0.070	1.48	2.61	7.96
		.*58C	391	SL/4W8100455G	8/10/04	, 'nis-ai	Red Clay	X	× 10.01 ×	0.01>	<10.0	<0.025	<0.025	5000	<0.025	~<0.025
	Mid south wall	. 26	8 00.5	SPAAVI671204#56	7/13//04	- naise ai	Sand	> 611	× 0.01>	<10.0 -	<10.0	<0.025	<0.025	<0.025	. szo.o>	<0.025
	West north wall	57	5 to 8	SPAAVJ671204#57	7/13/04	excavated	Sand	409	711 5	5,820	6,500	0.708	<0.025	[0.0189]	0.061	0.647
	West motini wan	57B		Sto 8 - . * . 08030457B[8/3/04	∯∓iuis⊪ui	Pues		<1001	<10.0	<10.0	<0.025	<0.025	<0.025		<0.025
	West hottom	28	8	SPAAVJ671204#58	7/13/04	excavated	Red Clay	11.0	16.4	243	259	0.000	<0.025	<0.025	[0.0161]	0.000
	TOTAL DOLLOW	58B.		12 08030458B/	8/3/04	ाग आधा	Red Clay	Z	213:	58.8	80,1	0:053	<0.025	<0.025	[c:0:01	.0.053
	West south bottom	. 00	8 09	SPAAVJ671204#60	7/13/04	nis-ui	"Red Clay	> 05.6	<10.01>	6.9	46.9.	< 0.025	<0.025	<0.025	<0.025	<0.025
South Flownoath	West sidewall	WSW	5 to 8	SL14M061004WSW	10/1/9	in-situ	Sand	> "	<10.0	<10.0	<10.0	<0.025	<0.025	< 0.025	<0.025	<0.025
South of fence	Bottom	BH.	8	SL14M061004BH	10/1/9	in-situ	Red Clay	يد حر	<10.0	13.6	13.6	<0.025	<0.025	<0.025	<0.025	<0.025
7	East sidewall	ESW.	5 to 8	SL14MO61004ESW	6/1/04	in-situ	Sind	×	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	< 0.025
			New Iv	New Mexico Oil Conservation Division (NMOCD) Remedial Goals	Division (NI	MOCD) Rema	edial Goals	100			100	50.0	10.0			

1bgs - below ground surface

²PID - Photoionization Detector for Volatile Organic Vapors

 3 GRO-Gasoline Range Organics C6-C10

⁴DRO-Diesel Range Organics C₁₀-C₂₅

⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶BTEX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

[0.0189] parameter detected but not above the method detection limit.

 8 < - (i.e., less than): indicates the method detection limit 9 - - = not analyzed

Red Bold four indicates concentration is in excess of the remedial goal.

"Gray Shading" indicates final sample location:



APPENDICES



Appendix I: Laboratory Analytical Reports



Client:

Attn:

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

Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH8-5' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143462

REPORT OF SURROGATE RECOVERY

1-Chlorooctane8015 mod.none/diluteddiluted @ 50XDp-Terphenyl8015 mod.none/diluteddiluted @ 50XD1,2-Dichloroethane-d48260bnone/diluteddiluted @ 250XDToluene-d88260bnone/diluteddiluted @ 250XD	Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
roethane-d4 8260b none/diluted 8260b none/diluted	1-Chlorooctane		none/diluted		D
roethane-d4 8260b none/diluted 8260b none/diluted	p-Terphenyl		none/diluted	diluted @ 50X	ם
8260b none/diluted	1,2-Dichloroethane-d4	8260b		diluted @ 250X	D
	Toluene-d8	8260b	none/diluted	diluted @ 250X	D

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



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

Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

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

Phone:

NM 88231

Sample Matrix: soil Sample Name: SE14M652903BH8-5' **Date Sampled:** 05/29/2003 **Date Received: 06/03/2003** Time: 07:45 Time: 10:30

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143462

Report Date: 06/13/03

REPORT OF ANALYSIS	1						QUALITY ASSURANCE DATA	ASSURA	ANCE DA	TA1	<u> </u>
Parameter	Result	Units	RQL 5	Blank	Date	Method ⁶	Data Qual 7	Prec.2	Prec.2 Recov.3 CCV4		LCS ⁴
TPH by GC (as diesel)	14800	mg/Kg	500	<500	06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	1		1	1	06/06/03	3540	-		1		1
TPH by GC (as gasoline)	16600	mg/Kg	500	\\$ 00	06/06/03	8015 mod.	1	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	1		-		06/07/03	8260b				. !	-
Benzene	19800	µg/Кg	5000	<5000	06/07/03	8260b		3.6	7.18	88.2	83.2
Ethylbenzene	116000	μg/Kg	5000	< 5000	06/07/03	8260b	!	4.1	95.1	97.3	97.9
m,p-Xylenes	199000	μg/Kg	5000	< 5000	06/07/03	8260b		0.7	104.9	107.2	106
o-Xylene	62800	μg/Kg	5000	< 5000	06/07/03	8260b		1.6	102.2	104.5	105.2
Toluene	136000	μg/Kg	5000	<5000	06/07/03	8260b		0.6	82.2	88.5	84.8

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Respectfully Submitted,

Richard Laster

Richard faster

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

Exceptions Report:

Report #/Lab ID#: 143461 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14" Main #6	
Sample Name: SE14M652903BH8-2'	
G 1- T	

Sample Temperature/Condition <=6°C

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). The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $<=6^{\circ}$ C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the

Sample Bottles & 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	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.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	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:		



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

Client: Attn: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH8-2' Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143461
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifi	Data Qualifiers
1-Chlorooctane	.pod 5108	none/diluted	diluted @ 50X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	ם
Toluene-d8	8260b	none/diluted	diluted @ 250X	ם

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



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

Client: Environmental Plus, Inc.

Address: 2100 Ave. O Attn: Pat McCasland

Eunice

Z

88231

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

Phone:

Report#/Lab ID#: 143461 **Report Date: 06/13/03**

Sample Name: SE14M652903BH8-2' **Project ID:** 2003-00136 14" Main #6

Sample Matrix: soil

Date Sampled: 05/29/2003 Date Received: 06/03/2003 Time: **Time:** 07:30 10:30

LCS⁴

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR/	NCE DA	TAI	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3	Prec.2	Recov.3	CCV ⁴	
TPH by GC (as diesel)	32300	mg/Kg	500	<500	06/06/03	8015 mod.		3.4	77.6	88.9	- 1
TPH by GC (as diesel-ext)	1	-			06/06/03	3540	}	!		1	
TPH by GC (as gasoline)	19800	mg/Kg	500	<500	06/06/03	8015 mod.	1	0.5	79.4	97	~
Volatile organics-8260b/BTEX			-		06/06/03	8260b		1	-	!	
Benzene	28200	µg/Кg	5000	<5000	20/90/90	8260b		3.6	81.7	88.2	\sim
Ethylbenzene	176000	μg/Kg	5000	<5000	06/06/03	8260b	;	4.1	95.1	97.3	2
m,p-Xylenes	299000	μg/Kg	5000	<5000	06/06/03	8260b		0.7	104.9	107.2	
o-Xylene	99700	μg/Kg	5000	<5000	06/06/03	8260b	1	1.6	102.2	104.5	_
Toluene	193000	μg/Kg	5000	<5000	06/06/03	8260b	i	0.6	82.2	88.5	00
											۱

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Respectfully Submitted,

Richard Laster

Richard Laster

associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte than advisory limit. M = Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits recovered from a spiked sample. 1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

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

Bill to (if differ)

Exceptions Report:

Sample Name: SE14M652803BH7-20 Report #/Lab ID#: 143460 Matrix: soil **Project ID:** 2003-00136 14 Main #6 Client: Environmental Plus, Inc. Attn: Pat McCasland

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

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

J flag Discussion:

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

TPH by GC (as diesel) See J-flag discussion above.

Page#: 3



Report#/Lab ID#: 143460 Sample Matrix: soil

Client: Attn: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652803BH7-20 Project ID: 2003-00136 14 Main #6

REPORT OF SURROGATE RECOVERY

ALTERNATION AND ADDRESS OF THE PARTY OF THE				
Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	75.5	50-150	
p-Terphenyl	8015 mod.	75.5	50-150	1
1,2-Dichloroethane-d4	8260b	83	65-115	
Toluene-d8	8260b	106	50-120	
		-		



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

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

NM 88231

Sample Matrix:

soil

Date Sampled: Date Received:

05/28/2003 06/03/2003

Time: 15:00 **Time:** 10:30 Sample Name: SE14M652803BH7-20

Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143460

Report Date: 06/11/03

QUALITY ASSURANCE DATA

o-Xylene m,p-Xylenes Ethylbenzene TPH by GC (as diesel-ext) TPH by GC (as diesel) Toluene Benzene Volatile organics-8260b/BTEX TPH by GC (as gasoline) REPORT OF ANALYSIS **Parameter** Result 8888 ۵ ሌ mg/Kg μg/Kg mg/Kg μg/Kg μg/Kg μg/Kg Units RQL 20 20 20 20 Blank 8 8 8 ۵ ᠘ 06/06/03 06/06/03 06/06/03 06/06/03 06/09/03 06/06/03 06/06/03 06/06/03 06/09/03 Date 8015 mod. 8015 mod Method 6 8260b 8260b 8260b 8260b 8260b 8260b 3540 Data Qual. Prec. 0.5 0.6 Recov. 3 103.1 107.7 77.6 79.4 1 82 CCV⁴ 110.8 105.9 88.9 109.7 82.3 97 LCS 4 111.9 113.8 102.5 81.1 84.4 72

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Richard faster

Richard Laster

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



Report#/Lab ID#: 143459
Sample Matrix: soil

Attn: Client: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652803BH7-15 Project ID: 2003-00136 14 Main #6

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	77.2	50-150	
p-Terphenyl	8015 mod.	75.7	50-150	1
1,2-Dichloroethane-d4	8260b	81.6	65-115	1
Toluene-d8	8260b	104	50-120	1



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

Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

Phone: (505) 394-3481

FAX: (505) 394-2601

NM 88231

Sample Matrix: soil Sample Name: SE14M652803BH7-15 **Project ID:** 2003-00136 14 Main #6

Report#/Lab ID#: 143459

Report Date: 06/11/03

Date Received: 06/03/2003 **Time:** 10:30

Date Sampled: 05/28/2003 Time:

14:20

REPORT OF ANALYSIS							QUALITY ASSURANCE DAT	SSURA	NCE DAT	1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. ⁷	Prec. 2	Prec. 2 Recov. 3 CCV ⁴		LCS ⁴
TPH by GC (as diesel)	S	mg/Kg	5	۵	06/09/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	1	!	;	}	06/06/03	3540	-	ŀ	1		1
TPH by GC (as gasoline)	۵	mg/Kg	5	۵	06/09/03	8015 mod.	1	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX					06/06/03	8260b	-			1	1
Benzene	<20	ду/Кд	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	\$0	μg/Kg	20	20	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	20	μg/Kg	20	<u>&</u>	06/06/03	8260b		0.4	107.7	110.8	113.8
o-Xylene	20	μg/Kg	20	^20	06/06/03	8260b	;	9.5	97	109.7	1111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

publication may be reproduced or transmitted in any form or by any means without the Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results express written consent of AnalySys, Inc. have been carefully reviewed and, to the best of my knowledge, the analytical results

Respectfully Submitted,

Richard Laster

Rushand

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

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

Exceptions Report:		
Report #Lab ID#: 143458 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652803BH7-10	: soil	Attn: Pat McCasland
Sample Temperature/Condition: <=6°C The typical sample temperature criteri laboratory within such a short time aff samples (see sample collection and sa temperature measurement without imp	-6°C riteria (riteria (ne after nd samp t impac	e 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 ☐ Sample received in appropriate ☐ Sample received in inappropria J flag Discussion: 	contair contair te conta	 ☑ 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. Discussion:
A J flag data qualifier indicates (as requilevels/blanks and other potential sources Because the reported result is below the presence and relative ratio of target ions	red und of sam quantitz (eg. th	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:	fiers ar	nd QC data:
Parameter	Qualif	Qualif Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane 1-Chlorooctane	D	Sample diluted to assure 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	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Notes:		

Client: Environmental Plus, Inc. | Projection | Pat McCasland | Samp

Project ID: 2003-00136 14 Main #6
Sample Name: SE14M652803BH7-10

Report#/Lab ID#: 143458
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 50X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4	8260b	none/diluted	none/diluted diluted @ 250X	D
Toluene-d8	8260Ь	none/diluted	diluted @ 250X	ם



Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

Z Z

88231

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

REPORT OF ANALYSIS

Project ID: 2003-00136 14 Main #6 **Report#/Lab ID#:** 143458 **Report Date:** 06/11/03

Sample Matrix: soil

Sample Name: SE14M652803BH7-10

Date Received: 06/03/2003 **Time:** 10:30

Date Sampled: 05/28/2003 Time: 13:45

QUALITY ASSURANCE DATA

LCS 4

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Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7 Prec. 2 Recov. 3 CCV4	Prec. ²	Recov. 3	CCV ⁴	
TPH by GC (as diesel)	12600	mg/Kg	500	<500	06/06/03	8015 mod.	******	3.4	77.6	88.9	
TPH by GC (as diesel-ext)	-	1		}	06/06/03	3540	1	ł	!		
TPH by GC (as gasoline)	12800	mg/Kg	500	<500	06/06/03	8015 mod.	-	0.5	79.4	97	
Volatile organics-8260b/BTEX	-				06/06/03	8260b	-				
Benzene	31100	µg/Kg	5000	<5000	06/06/03	8260b		3.6	81.7	88.2	
Ethylbenzene	155000	μg/Kg	5000	<5000	06/06/03	8260b	-	4.1	95.1	97.3	
m,p-Xylenes	262000	μg/Kg	5000	<5000	06/06/03	8260b		0.7	104.9	107.2	
o-Xylene	84800	μg/Kg	5000	<5000	06/06/03	8260b	;	1.6	102.2	104.5	
Toluene	188000	μg/Kg	5000	<5000	06/06/03	8260b		0.6	82.2	88.5	i
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	ySys, Inc. The e wledge, the anal	nclosed results ytical results		ity assurance da elative percent (ta is for the sa %) difference l	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of	ed this sample. ements. 3. Reco	2. Precision very (Reco	n (PREC) is 1	the absolute cent (%) of	O I
Conscient 2000 Analysis Inc. Assets TV All rights reserved. No part of this	te received. No	nart of this	eypress	ed as the nercen	t (%) recover	expressed as the negrent (%) recovery of analyte from a known standard or matrix. S Denoting One-visiting I complete from a known standard or matrix.	standard or mate	Da	and outling	(ECS) iCsu	, :
Copyright 2000, Analysys, Inc., Austin, I.A. All rights leser red. Inc part of this	is reserved. INO	barr or mrs	cypicss	en as me bercen	T (20) Tecover)	expressed as the percent (%) recovery or analyte from a known standard or matrix. 5. Reporting Quantitation Lim	I Standard of Inau	1X. J. Kej	porung Quan	titation Lin	=

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Respectfully Submitted,

Richard faster

Richard Laster

(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 recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) than advisory limit. M =Matrix interference. S) results are absolute value ion Limits (%) of analyte

Report Date: 06/11/03

Page#: 1

Exceptions Report:

Sample Name: SE14M652803BH7-5 Project ID: 2003-00136 14 Main #6 Client: Environmental Plus, Inc. Report #/Lab ID#: 143457 Matrix: soil Attn: Pat McCasland

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

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

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

J flag Discussion:

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.) 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

Comments pertaining to Data Qualifiers and QC data:

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



Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH7-5 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143457

REPORT OF SURROGATE RECOVERY

Client: Attn:

Surrogate Compound	Method	Recovery	Recovery Recovery Limitse Data Qualifiers	Data Qualifiers
1-Chlorooctane	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



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

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

Phone:

REPORT OF ANALYSIS

TPH by GC (as diesel)

Parameter

Result 11300

NM 88231

Sample Matrix:

soil

Date Sampled: Date Received:

05/28/2003

Time: 13:30 Time:

10:30

06/03/2003

Sample Name: SE14M652803BH7-5

Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143457

Report Date: 06/11/03

QUALITY ASSURANCE DATA

mg/Kg Units RQL 500 Blank **^500** 06/06/03 Date 8015 mod. Method 6 Data Qual. ' Prec. 2 Recov. 3 3.4 77.6 CCV4 88.9 LCS⁴ 72

TPH by GC (as diesel-ext)	:	!	ļ	l	06/06/03	3540	1	\	;	}	ł
TPH by GC (as gasoline)	13800	mg/Kg	500	<500	06/06/03	8015 mod.	ļ	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-				06/06/03	8260ь	1	-	+	1	1
Benzene	53900	μg/Kg	5000	<5000	06/06/03	8260Ь		3.6	81.7		83.2
Ethylbenzene	179000	μg/Kg	5000	<5000	06/06/03	8260b	-	4.1	95.1		97.9
m,p-Xylenes	301000	μg/Kg	5000	\ 5000	06/06/03	8260b	:	0.7	104.9		106
o-Xylene	94300	μg/Kg	5000	<5000	06/06/03	8260b		1.6	102.2	104.5	105.2
Toluene	240000	μg/Kg	5000	<5000	06/06/03	8260b	-	0.6	82.2		84.8

express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © have been carefully reviewed and, to the best of my knowledge, the analytical results This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this

Respectfully Submitted.

Richard Laster

Tuckeys

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

Exceptions Report:

,
Report #/Lab ID#: 143456 Matrix: soil
Client: Environmental Plus, Inc.
Project ID: 2003-00136 14 Main #6
Sample Name: SE14M652803BH7-2

Sample Temperature/Condition: <=6°C

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). 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

Sample Bottles & 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	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.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	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:		



Client: Attn: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH7-2 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143456

REPORT OF SURROGATE RECOVERY

1-Chlorooctane8015 mod.none/diluteddiluted @ 10XDp-Terphenyl8015 mod.none/diluteddiluted @ 10XD1,2-Dichloroethane-d48260bnone/diluteddiluted @ 250XDToluene-d88260bnone/diluteddiluted @ 250XD	Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
oethane-d4 8015 mod. none/diluted 8260b none/diluted 8260b none/diluted	1-Chlorooctane		none/diluted	diluted @ 10X	D
roethane-d4 8260b none/diluted 8260b none/diluted	p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
8260b none/diluted	1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
	Toluene-d8	8260b	none/diluted	diluted @ 250X	D



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O Eunice

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

Phone:

REPORT OF ANALYSIS

NM 88231

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: **Time:** 13:20 10:30

Sample Name: SE14M652803BH7-2

Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143456

Report Date: 06/11/03

Sample Matrix: soil

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7 Prec. 2 Recov. 3 CCV4 LCS 4	Prec. ²	Recov. 3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	12700	mg/Kg	100	<100	06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	;	;	i	-	06/06/03	3540	-	-		i	i
TPH by GC (as gasoline)	9230	mg/Kg	100	<100	06/06/03	8015 mod.	1	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-				06/06/03	8260ь			-		;
Benzene	10700	μg/Kg	5000	<5000	60/06/03	8260b		3.6	81.7	88.2	83.2
Ethylbenzene	75400	μg/Kg	5000	<5000	06/06/03	8260b		4.1	95.1	97.3	97.9
m,p-Xylenes	148000	μg/Kg	5000	\\$000	06/06/03	8260b	;	0.7	104.9	107.2	106
o-Xylene	50600	μg/Kg	5000	\ 5000	06/06/03	8260b	-	1.6	102.2	104.5	105.2
Toluene	81200	μg/Kg	5000	<5000	06/06/03	8260b		0.6	82.2	88.5	84.8
]								

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Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1 **Report Date:** 06/11/03



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH6-15 Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143455 Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

1-Chlorooctane 8015 mod. 77.2 50-150 p-Terphenyl 8015 mod. 78.6 50-150 1,2-Dichloroethane-d4 8260b 78.7 65-115 Toluene-d8 8260b 109 50-120	Surrogate Compound	Method	Recovery .	Recovery Limitse Data Qualif	Data Qualifiers
8015 mod. 78.6 50-150 ethane-d4 8260b 78.7 65-115 8260b 109 50-120	1-Chlorooctane	8015 mod.	77.2	50-150	
bethane-d4 8260b 78.7 65-115 8260b 109 50-120	p-Terphenyl	8015 mod.	78.6	50-150	1
8260b 109 50-120	1,2-Dichloroethane-d4	8260b	78.7	65-115	
	Toluene-d8	8260b	109	50-120	-

(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 re	using ASI's method of	will be conducted	ion, all analyses	cumentat	or attached d	n-of-custody and	therwise on this Cha	(1)Unless specifically requested of
	X	143476		×	_	203 2.30	411-15-5-2	SE14146529038HI1- 15"5-22:03 2:30
	×	143475		×		23 1:40	MIT-10 5-2	SE/4M652903BHIL-10 5-293 1:40
	X	143474		×		1.30	411-5 5-24	SE14M6 52903BH11-5 52903 1:00
	×	143473		×	-	.00/:00	SHI1- & 529	SE14M652903BHH- & 529.00 1:00
	X	143472		X		5/21/1803	H10-15 5-2	SF1414652903BH10-15 5-28-33 11:45
	×	143471		×		3 11:05	BH10-10 5-89	5814M652903BHD-1d5223 11:05
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Comments	Total of	Lab I.D. # (Lab only)	Water Waste	Soil	No. of Container	Date Time No. of Sampled Sampled Containers Soil Water Waste		Client Sample No. Decemple of Telephone Teleph
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						h lab mgr.):	confirmed wit	Rush Status (must be confirmed with lab mgr.):
Please attach explanatory information as r		799 Fax	Phone 9/5-638-3799 Fax	ne 9/5	,	394.060	8/2 Fax 505:	Phone 505. 34.3481 Fax 505.394.0601
_ Analyses Requested (1		emader_	ATTN: Frank Herwader	Y. X.	_ ATI		Casland	ATTN: Par M'Casland
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4221 Freidrich Lane, Suite 190, Austin, TX	4	Company Name Fort Freggy	Name Eoz	pany N	_ Com	1 Aus	1. ronlines/Ta	Company Name Edulion mental Aus

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[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.] Name ENUINAMENTO! Sample Relinquished By Affiliation 5-29.03 Date Time Wellow Henrymin Name Sample Received Affiliation Ву 6/3/03 Date 10.30 Tim

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 Polls

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

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ult to Priority Poll	dy, ASI will defau	his chain-of-custoo	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 Poll-ASI's option. Specific compound lists must be supplied for all GC procedures.	1-of-custo	ed on this chain	r lists are specifi	paramete	ific analytical	unless speci	extractables, ound lists mu	volatiles and	For GC/MS Sl's option S	limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.
to ASI's normal re	a will be reported	choice and all data	be conducted using ASI's method of choice and all data will be reported to ASI's normal re	rted usin	s will be condu	tion, all analyse	Jocumente	Vor attached	custody and	this Chain-of-	otherwise on t	lly requested of	(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will
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			×	×	143467		×)	5-29-03 9-30		11-10	52903B	58/4M652903BH9-10
			×	X	143466		X	7	9:00	509.3	SH8-2	539031	SE1414653903BH9-5
			×	X	143465		×		54:8	508.03	#19. Q	52903B	SE144652903BH9-2
			×	×	143464		×		8.26	5.24.03	18-15	52903B	SEKIM652903BH8-15
			×	×	143463		X	7	8.8	5-09-03	18-10	52903B	SE1412652903BH8-10
			X	X	143462		×	-	7:45	5.27.03	1 .	529035	SE1414652903BH8-5
			×	×	143461		×	-	7:30	5-24-5	18-B	58903B	SE14MG58903BH8-2
Comments			Jan		Lab I.D. # (Lab only)	Water Waste	Soll	Time No. of Sampled Containers	Time Sampled	Date Sampled	affor	Client Sample No.	Client Sample No. Description/Identification
\			100 P	1				Sampler Canada Se	Samı	03-00/54	14"MAIN#6	e/PO#:	Project Name/PO#:
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information as r	Please attach explanatory information as r	Please at			799Fax	7	ne 9/5		Ride	Ses, s	WFax _	399535	18
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90. Austin, TX	4221 Freidrich Lane, Suite 190, Austin, TX	4221 Freidrich		Marie	FOTT Every	 	Company Name	•	Me	اهتله مها	Winds	me S	Company Name Salving Land Mus
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[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

Seha Repor o:

Bill to (if differ



Client:

Attn:

Pat McCasland

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

Environmental Plus, Inc. Sample Name: SE14M652903BH11-15' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143476

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	85.2	50-150	
p-Terphenyl	8015 mod.	82.4	50-150	
1,2-Dichloroethane-d4	8260b	89.7	65-115	1
Toluene-d8	8260b	117	50-120	1



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

Client: Address: 2100 Ave. O Attn: Eunice Pat McCasland Environmental Plus, Inc. NM 88231

FAX: (505) 394-2601

REPORT OF ANALYSIS Phone: (505) 394-3481

Time: 02:30

Time: 10:30

Date Received: 06/03/2003 Date Sampled: 05/29/2003

Sample Matrix: soil

Sample Name: SE14M652903BH11-15'

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143476

Report Date: 06/13/03

QUALITY ASSURANCE DATA

LCS⁴

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76.6

olute o) of z result Limi	s the absince the control of the con	m (PREC) is ov.) is the pentrol Sample porting Quarhod. 6. Me	2. Precision (PRovery (Recov.) is oratory Control Soratory S. Reporting the control of the contr	led this sample. rements. 3. Recc n (CCV) and Labo 1 standard or matr (PQL) of the anal	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of a recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) result expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Lim (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method number	ata is for the s %) difference d sample. It (%) recover above the Pra	I. Quality assurance data is for the samp of the relative percent (%) difference bet recovered from a spiked sample. 4. Cexpressed as the percent (%) recovery of (RQL), typically at or above the Practic		enclosed results lytical results l Program. © part of this ans without the	lySys, Inc. The cowledge, the analec/Quality Control its reserved. No orm or by any me	This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the
<u> </u>	88.5	82.2	0.6		8260ъ	06/06/03	<20	20	μg/Kg	20	Toluene
	104.5	102.2	1.6	1	8260b	06/06/03	^20	20	μg/Kg	△ 20	o-Xylene
	107.2	104.9	0.7		8260b	06/06/03	<u></u> \$20	20	μg/Kg	20	m,p-Xylenes
	97.3	95.1	4.1		8260b	06/06/03	<u></u> 20	20	μg/Kg	<20	Ethylbenzene
	88.2	81.7	3.6		8260b	06/06/03	<20	20	µg/Кg	<20	Benzene
	-	-			8260b	06/06/03					Volatile organics-8260b/BTEX
	105.3	72	17.2		8015 mod.	06/12/03	۵	5	mg/Kg	٥	TPH by GC (as gasoline)
	ļ	ł	;	;	3540	06/11/03	1	i	-	-	TPH by GC (as diesel-ext)
Ś	105.6	72	14.5		8015 mod.	06/12/03	ሌ	5	mg/Kg	ሪ የ	TPH by GC (as diesel)
4 I	CCV	Recov.3	Prec.2	Data Qual 7 Prec. 2 Recov. 3 CCV4 1	Method ⁶	Date	Blank	RQL ⁵	Units	Result	Parameter

express written consent of AnalySys, Inc. Respectfully Submitted,

Richard faith Richard Laster

associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are I = analyte potentially present between the PQL and the MDL. B = Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference. ion Limits numbers S) results are (%) of analyte ibsolute value

84.8 105.2 97.9 83.2

106



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH11-10' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143475

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	78.2	50-150	
p-Terphenyl	8015 mod.	69.7	50-150	
1,2-Dichloroethane-d4	8260b	86.7	65-115	
Toluene-d8	8260b	103	50-120	1



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

Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

(505) 394-3481 FAX: (505) 394-260

Phone:

Sample Matrix: soil

Date Received: 06/03/2003

Date Sampled: 05/29/2003

Time: 01:40 Time: 10:30 Sample Name: SE14M652903BH11-10'

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143475

Report Date: 06/13/03

NM 88231

REPORT OF ANALYSIS

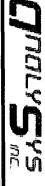
QUALITY ASSURANCE DATA

o-Xylene m,p-Xylenes Ethylbenzene Volatile organics-8260b/BTEX Benzene TPH by GC (as gasoline) TPH by GC (as diesel-ext) TPH by GC (as diesel) Parameter Toluene Result 20 20 20 8 ሌ ۵ mg/Kg mg/Kg μg/Kg µg/Kg μg/Kg μg/Kg µg/Kg Units RQL⁵ 20 Blank 80 20 8 ሌ ۵ 06/11/03 06/06/03 06/06/03 06/06/03 06/06/03 06/06/03 06/06/03 06/11/03 06/11/03 Date 8015 mod 8015 mod Method 6 8260b 8260b 8260b 8260b 8260Ь 8260b 3540 Data Qual 7 Prec.2 14.5 17.2 Recov.3 102.2 104.9 95.1 81.7 72 72 CCV⁴ 105.6 107.2 97.3 105.3 104.5 88.2 LCS⁴ 105.2 97.9 83.2 76.6 78.5 106

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Richard Laster

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



Client: Attn: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH11-5' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143474

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	84.5	50-150	;
p-Terphenyl	8015 mod.	80.7	50-150	
1,2-Dichloroethane-d4	8260b	76.9	65-115	
Toluene-d8	8260b	87.5	50-120	



Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

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

REPORT OF ANALYSIS

Parameter

NM 88231

Sample Matrix: soil

Date Received: 06/03/2003

Time: 10:30

Sample Name: SE14M652903BH11-5' Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143474

Report Date: 06/13/03

Date Sampled: 05/29/2003 Time: 01:20

QUALITY ASSURANCE DATA

Result S ۵ mg/Kg mg/Kg Units RQL⁵ Blank ۵ ል ! 06/11/03 06/11/03 06/11/03 Date 8015 mod 8015 mod Method 6 3540 Data Qual' Prec.4 14.5 17.2 Recov. 72 72 CCV⁴ 105.6 105.3 LCS4 78.5 76.6

2. Precision (PREC) is	2. Precisio	led this sample.	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is of the relative percent (Q) difference between duplicate measurements.	lata is for the si	1. Quality assurance data is for the sample of the relative percent (%) difference between		enclosed results	lySys, Inc. The	This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been confully reviewed and to the best of my knowledge the analytical results
85.9	3.4	1	8260b	06/06/03	<20	20	μg/Kg	۵۵	Toluene
97	9.5		8260b	06/06/03	<20	20	μg/Kg	\$0	o-Xylene
107.7	0.4	ţ	8260b	06/06/03	∠20	20	μg/Kg	^2 0	m,p-Xylenes
103.1	0.6	-	8260b	06/06/03	<20	20	μg/Kg	\$0	Ethylbenzene
82	2.2	-	8260b	06/06/03	^20	20	μg/Kg	20	Benzene

110.8 105.9

113.8

102.5

86.6 109.7

92.2 111.9 82

82.3

84.4

8260b

06/06/03 06/06/03 06/06/03 06/06/03

Volatile organics-8260b/BTEX

TPH by GC (as gasoline) TPH by GC (as diesel-ext) TPH by GC (as diesel)

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Respectfully Submitted,

Richard Laster

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

Exceptions Report:

Sample Name: SE14M652903BH11-2'
Project ID: 2003-00136 14" Main #6
Client: Environmental Plus, Inc. Attn: Pat McCasland
Report #/Lab ID#: 143473 Matrix: soil

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

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



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH11-2' Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143473
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 50X	D
Toluene-d8	8260b	none/diluted	diluted @ 50X	D



Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O Eunice

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

Phone:

NM 88231

Sample Matrix: soil **Date Sampled:** 05/29/2003 **Date Received:** 06/03/2003 Time: 01:00 **Time:** 10:30

Sample Name: SE14M652903BH11-2

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143473

Report Date: 06/13/03

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR!	NCE DA	TA^1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3 CCV4	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	15600	mg/Kg	100	<100	06/12/03	8015 mod.		14.5	72	105.6	78.5
TPH by GC (as diesel-ext)	-	-	-		06/11/03	3540		!	1	-	-
TPH by GC (as gasoline)	10000	mg/Kg	100	<100	06/12/03	8015 mod.	-	17.2	72	105.3	76.6
Volatile organics-8260b/BTEX					06/09/03	8260b		-	-	1	-
Benzene	8700	μg/Kg	1000	<1000	06/09/03	8260b		3.6	81.7	88.2	83.2
Ethylbenzene	60800	μg/Kg	1000	<1000	06/09/03	8260b	-	4.1	95.1	97.3	97.9
m,p-Xylenes	100000	μg/Kg	1000	<1000	06/09/03	8260b	-	0.7	104.9	107.2	106
o-Xylene	32800	μg/Kg	1000	<1000	06/09/03	8260b	1	1.6	102.2	104.5	105.2
Toluene	82900	μg/Kg	1000	<1000	06/09/03	8260b	1	0.6	82.2	88.5	84.8
]								

have been carefully reviewed and, to the best of my knowledge, the analytical results Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the

Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1 **Report Date: 06/13/03**



Client: Attn: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH10-15' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143472

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifi	Data Qualifiers
1-Chlorooctane	8015 mod.	74.5	50-150	
p-Terphenyl	8015 mod.	58.1	50-150	1
1,2-Dichloroethane-d4	40928	85.6	65-115	-
Toluene-d8	8260b	103	50-120	1



Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

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Phone:

NM 88231

Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143440 Report Date: 06/10/03

Sample Matrix: soil

Sample Name: SE14M652703BH3-10

Date Sampled: 05/27/2003 Date Received: 06/03/2003 **Time:** 13:30 **Time:** 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR!	NCE DA	TA^1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3 CCV4 LCS	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	ح5	mg/Kg	5		06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	-	1		1	06/05/03	3540			;		!
TPH by GC (as gasoline)	۵	mg/Kg	5	S	06/06/03	8015 mod.	-	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	-				06/05/03	8260b					i
Benzene	<20	μg/Kg	20	<20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	<20	μg/Kg	20	^2 0	06/05/03	8260b	÷ • • • • • • • • • • • • • • • • • • •	5.7	101.7	98.4	102.1
m,p-Xylenes	< 20	μg/Kg	20	^2 0	06/05/03	8260b		3.3	109.7	100.7	114.3
o-Xylene	< 20	μg/Kg	20	<20	06/05/03	8260b	-	4.1	107.1	98.4	111.1
Toluene	<20	μg/Kg	20	<20	06/05/03	8260b	-	4.7	90.1	110.3	91.2

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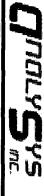
Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652703BH3-5 Project ID: 2003-00136 14 Main #6

Sample Matrix: soil Report#/Lab ID#: 143439

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data	Data Qualifiers
1-Chlorooctane	8015 mod.	71.6	50-150	
p-Terphenyl	8015 mod.	57.9	50-150	!
1,2-Dichloroethane-d4	8260Ь	87.7	65-115	-
Toluene-d8	8260b	105	50-120	1



Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

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

NM 88231

OF ALITY ASSIBLANCE DATA

Time: Time:

13:15 10:30

Date Sampled: 05/27/2003

Date Received: 06/03/2003

Sample Matrix: soil

Sample Name: SE14M652703BH3-5 Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143439

Report Date: 06/10/03

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSURA	NCE DA	TA^1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7	Prec.2	Prec. ² Recov. ³ CCV ⁴ LCS ⁴	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	ሪ የ	mg/Kg	5	አ	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	-			}	06/05/03	3540		-	;		
TPH by GC (as gasoline)	۵	mg/Kg	5	5	06/06/03	8015 mod.		0.5	80	94.9	80.2
Volatile organics-8260b/BTEX					06/05/03	8260b		;			
Benzene	<20	μg/Kg	20	<20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	<20	μg/Kg	20	< 20	06/05/03	8260b	3 [5.7	101.7	98.4	102.1
m,p-Xylenes	<20	μg/Kg	20	20	06/05/03	8260b		3.3	109.7	100.7	114.3
o-Xylene	< 20	μg/Kg	20	<20	06/05/03	8260b	-	4.1	107.1	98.4	<u>=</u>
Toluene	<u>^2</u> 0	μg/Kg	20	^ 20	06/05/03	8260b	:	4.7	90.1		91.2

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Respectfully Submitted,

Richard Laster

Richard faith

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

Page#: 1 **Report Date: 06/10/03**

Exceptions Report:

Sample Name: SE14M652703BH3-2 Project ID: 2003-00136 14 Main #6 Client: Environmental Plus, Inc. Report #/Lab ID#: 143438 Matrix: soil Attn: Pat McCasland

Sample Temperature/Condition <=6°C

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

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 mappropriate 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	Mann	Qualit Comment
1-Chlorooctane	Д	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	D	levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	Q	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.
Notes:		



Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652703BH3-2 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143438

REPORT OF SURROGATE RECOVERY

Attn:

Client:

Surrogate Compound	Method	Recovery	Recovery	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 2.5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2.5X	D
1,2-Dichloroethane-d4	40928	85.1	65-115	
Toluene-d8	8260b	90.4	50-120	-



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

Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

NM 88231

(505) 394-3481 FAX: (505) 394-260

Phone:

REPORT OF ANALYSIS

Parameter

Result

Units

RQL

Blank

Date

Method 6

Data Qual 7

Prec.

Recov.3

CCV⁴

LCS⁴

78.2 ļ

80.2

Report#/Lab ID#: 143438 Project ID: 2003-00136 14 Main #6 **Report Date: 06/10/03**

Sample Matrix: soil Sample Name: SE14M652703BH3-2

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/27/2003 Time: 12:45

QUALITY ASSURANCE DATA

cent (%) o	is the per	wery (Reco	rements. 3. Reco	of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of	%) difference	elative percent (of the n	lytical results	wledge, the anal	have been carefully reviewed and, to the best of my knowledge, the analytical results
the absolu	n (PREC) is	2. Precision	led this sample.	ample batch which included this sample. 2. Precision (PREC) is the absolu	ata is for the sa	1. Quality assurance data is for the sam	_	enclosed results	lySys, Inc. The	This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results
110.3	90.1	4.7	-	8260b	06/05/03	<1000	1000	μg/Kg	6890	Toluene
98.4	107.1	4.1	-	8260b	06/05/03	<1000	1000	μg/Kg	8260	o-Xylene
100.7	109.7	3.3	-	8260b	06/05/03	<1000	1000	μg/Kg	24300	m,p-Xylenes
98.4	101.7	5.7	:	8260b	06/05/03	<1000	1000	μg/Kg	13400	Ethylbenzene
6.98	83.2	2.4		8260b	06/09/03	<20	20	μg/Kg	106	Benzene
			-	8260b	06/09/03					Volatile organics-8260b/BTEX
94.9	80	0.5	-	8015 mod.	Q6/06/03	<25	25	mg/Kg	1210	TPH by GC (as gasoline)
	1	- -	;	3540	06/05/03	i	;	-	;	TPH by GC (as diesel-ext)
88.9	74.4	3.5		8015 mod.	06/06/03	<25	25	mg/Kg	2240	TPH by GC (as diesel)

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Richard Laster

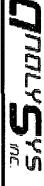
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recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers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

91.2

111.1 114.3

102.1 84.8



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652703BH2-15 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143437

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	76.2	50-150	
p-Terphenyl	8015 mod.	53.7	50-150	İ
1,2-Dichloroethane-d4	8260b	91.2	65-115	1 1 1
Toluene-d8	8260b	114	50-120	1 5 6
	. 1			



Attn: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

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

Phone:

REPORT OF ANALYSIS

NM 88231

Report#/Lab ID#: 143437 **Report Date:** 06/10/03 **Project ID:** 2003-00136 14 Main #6

Sample Matrix: soil

Sample Name: SE14M652703BH2-15

Date Received: 06/03/2003 Time:

10:30

Date Sampled: 05/27/2003 Time: 11:40

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3 CCV4 LCS 4	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<u></u>	mg/Kg	5	۵	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	1	;	-	i	06/05/03	3540	-	l	;		1
TPH by GC (as gasoline)	<mark></mark>	mg/Kg	5	Շ	06/06/03	8015 mod.	i	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX			-		06/05/03	8260b			1	!	ì
Benzene	<20	μg/Kg	20	<20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	2 0	μg/Kg	20	<u></u> 20	06/05/03	8260b	-	5.7	101.7	98.4	102.1
m,p-Xylenes	^20	μg/Kg	20	8	06/05/03	8260b	1	3.3	109.7	100.7	114.3
o-Xylene	20	μg/Kg	20	<u></u> 20	06/05/03	8260b	-	4.1	107.1	98.4	111.1
Toluene	<20	μg/Kg	20	∠ 20	06/05/03	8260b		4.7	90.1	110.3	91.2

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Respectfully Submitted

Respectfully Submitted,

Richard Laster

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

		Notes:
	See J-flag discussion above.	m,p-Xylenes J
	Qualif Comment	Parameter Qual
	's and QC data:	Comments pertaining to Data Qualifiers and QC data:
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.)	A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated anal levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Q Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organi presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing	A J flag data qualifier indicates (as required unlevels/blanks and other potential sources of sa Because the reported result is below the quant presence and relative ratio of target ions (eg.
		J flag Discussion
	 ☑ 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. 	 ☒ Sample received in appropriate cont ☐ Sample received in appropriate cont ☐ Sample received in inappropriate co
		Sample Bottles & Preservation
le 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).	le Temperature/Condition <=6°C The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) laboratory within such a short time after sampling that cooling measures used in the field and during transpor samples (see sample collection and sample receipt times) and samples where the temperature could not be me temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).	Sample Temperature/Condition <=6°C The typical sample temperature criteric laboratory within such a short time after samples (see sample collection and san temperature measurement without imp
	Attn: Pat McCasland	Client: Environmental Plus, Inc. Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652703BH2-10
		Report #/Lab ID#: 143436 Matrix: soil
		Exceptions Report:



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652703BH2-10 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143436

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data	Data Qualifiers
1-Chlorooctane	8015 mod.	70.2	50-150	
p-Terphenyl	8015 mod.	50.8	50-150	1
1,2-Dichloroethane-d4	8260b	94.7	65-115	
Toluene-d8	8260b	114	50-120	-



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

Client: Attn: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

Phone:

(505) 394-3481

FAX: (505) 394-2601

NM 88231

Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143436 **Report Date:** 06/10/03

Sample Name: SE14M652703BH2-10

Sample Matrix: soil

Date Received: 06/03/2003 **Time:** 10:30

Date Sampled: 05/27/2003 Time: 11:20

QUALITY ASSURANCE DATA

TPH by GC (as diesel) **Parameter** REPORT OF ANALYSIS o-Xylene m,p-Xylenes Ethylbenzene Benzene Volatile organics-8260b/BTEX TPH by GC (as gasoline) TPH by GC (as diesel-ext) Result <20 12.2 2020 156 μg/Kg mg/Kg μg/Kg μg/Kg μg/Kg mg/Kg μg/Kg Units RQL 5 20 20 20 20 20 Blank <20 20 20 <u>۵</u> ا Ω 06/05/03 06/05/03 06/05/03 06/05/03 06/05/03 06/05/03 06/06/03 06/05/03 06/06/03 Date 8015 mod 8015 mod Method 6 8260b 8260b 8260b 8260b 8260b 8260b 3540 Data Qual ' Prec.2 Recov.3 5.7 0.5 2.4 107.1 109.7 101.7 83.2 74.4 80 CCV⁴ 88.9 110.3 98.4 100.7 98.4 86.9 94.9 111.1 114.3 78.2 LCS⁴ 102.1 80.2 84.8

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Respectfully Submitted,

Richard faster

Richard Laster

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



Attn: Client: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652703BH2-5 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143435

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	70.2	50-150	
p-Terphenyl	8015 mod.	51.7	50-150	1
1,2-Dichloroethane-d4	8260b	87.4	65-115	
Toluene-d8	8260b	101	50-120	l



Client: Attn: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

NM 88231

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

REPORT OF ANALYSIS

Parameter

Result

Units

RQL⁵

Blank

Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143435 **Report Date: 06/10/03**

Sample Matrix: soil Sample Name: SE14M652703BH2-5

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/27/2003 Time: 11:10

QUALITY ASSURANCE DATA

Data Qual '

Prec.2

Recov.3

CCV⁴

LCS⁴

74.4

88.9

78.2

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m,p-Xylenes

Ethylbenzene Benzene

\$\frac{20}{20}\$

μg/Kg µg/Kg μg/Kg

20 20 20 20

6666

06/05/03

8260b 8260b 8260b 8260b 8260b

1 i

8260b

06/05/03 06/05/03 06/05/03 06/06/03 06/05/03 06/06/03 Date

-

5.7 3.3

109.7 101.7

83.2

90.1 107.1

110.3 98.4 100.7 98.4 86.9

> 111.1 114.3

102.1

84.8

06/05/03 06/05/03 **^20**

µg/Kg

20 !

20

 \Diamond -S

mg/Kg

5 S

ል | ۵

8015 mod

8015 mod. Method 6

3540

1

0.5 3.5

80 ł

94.9

80.2

mg/Kg

o-Xylene

Volatile organics-8260b/BTEX

TPH by GC (as gasoline) TPH by GC (as diesel-ext) TPH by GC (as diesel)

Respectfully Submitted,

Richard Jastin Richard Laster

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

Page#: 1 **Report Date: 06/10/03**

Exceptions Report:

#5 H2-2	Report #/Lab ID#: 143434 Matrix: soil	Attac Det MacContact
Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652703BH2-2	Client: Environmental Plus, Inc.	Attn: Pat McCasland
Sample Name: SE14M652703BH2-2	Project ID: 2003-00136 14 Main #6	
	Sample Name: SE14M652703BH2-2	

Sample Temperature/Condition <=6°C

temperature measurement without impacting sample integrity (ex. in a bottle with no cooler). 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 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

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

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Qualif Comment
TPH by GC (as gasoline)	ſ	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
o-Xylene	ſ	See J-flag discussion above.
Toluene	ſ	See J-flag discussion above.
Notes:		



Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652703BH2-2

Report#/Lab ID#: 143434 Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifiers	Data Qualifiers
I-Chlorooctane	8015 mod.	83.1	50-150	
p-Terphenyl	8015 mod.	63.8	50-150	1
1,2-Dichloroethane-d4	8260b	8.88	65-115	
Toluene-d8	8260Ь	106	50-120	1
	1			

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



Client: Environmental Plus, Inc

Attn: Pat McCasland

Address: 2100 Ave. O Eunice

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

Phone:

NM 88231

Sample Matrix: soil

Date Sampled: 05/27/2003 **Date Received:** 06/03/2003

Time: 10:30

Sample Name: SE14M652703BH2-2

Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143434

Report Date: 06/10/03

m,p-Xylenes Ethylbenzene REPORT OF ANALYSIS Volatile organics-8260b/BTEX TPH by GC (as gasoline) TPH by GC (as diesel-ext) TPH by GC (as diesel) **Parameter** Result 35.4 27.8 8 8 8 ۵ İ mg/Kg mg/Kg μg/Kg μg/Kg µg/Kg μg/Kg μg/Kg Units RQL 20 20 20 20 Blank 20 8 8 \$0 8 ٥ ٨ ļ 06/05/03 06/05/03 06/05/03 06/05/03 06/05/03 06/05/03 06/06/03 06/05/03 06/06/03 Date 8015 mod 8015 mod. Method 6 8260b 8260b 8260b 8260b 8260b 8260b 3540 Data Qual' QUALITY ASSURANCE DATA Prec.2 Recov.3 0.5 3.5 2.4 101.7 74.4 107. 109.7 83.2 80 CCV⁴ 88.9 110.3 98.4 100.7 98.4 94.9 86.9 LCS4 111.1 114.3 102.1 80.2 78.2 84.8

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o-Xylene

Toluene

Benzene

Respectfully Submitted, Richard Laster

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

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value



Report#/Lab ID#: 143433
Sample Matrix: soil

Client: Attn: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652703BH1-15 Project ID: 2003-00136 14 Main #6

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifi	Data Qualifiers
1-Chlorooctane	8015 mod.	77.8	50-150	
p-Terphenyl	8015 mod.	55.9	50-150	1
1,2-Dichloroethane-d4	8260b	90.3	65-115	
Toluene-d8	8260b	102	50-120	1



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

Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

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

REPORT OF ANALYSIS

NM 88231

QUALITY ASSURANCE DATA Time:

Time:

10:45 10:30 Sample Matrix: soil

Date Sampled: 05/27/2003 Date Received: 06/03/2003 Sample Name: SE14M652703BH1-15 Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143433

Report Date: 06/10/03

Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3 CCV4 LCS4	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	۵	mg/Kg	5	۵	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	!		-	!	06/05/03	3540	;	-	i	ŀ	1
TPH by GC (as gasoline)	۵	mg/Kg	5	ሌ	06/06/03	8015 mod.	1	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	-		-		06/05/03	8260Ь			i		1
Benzene	<20	μg/Kg	20	<20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	< 20	μg/Kg	20	^ 20	06/05/03	8260b	1	5.7	101.7	98.4	102.1
m,p-Xylenes	< 20	μg/Kg	20	\$	06/05/03	8260b	-	3.3	109.7	100.7	114.3
o-Xylene	20	μg/Kg	20	20	06/05/03	8260b	1	4.1	107.1	98.4	111.1
Toluene	<20	μg/Kg	20	<20	06/05/03	8260b	ł	4.7	90.1	110.3	91.2
THE	7						.				

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Respectfully Submitted,

Richard Laster

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



Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652703BH1-10

Sample Matrix: soil Report#/Lab ID#: 143432

REPORT OF SURROGATE RECOVERY

Attn:

Environmental Plus, Inc. Pat McCasland

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	82.9	50-150	
p-Terphenyl	8015 mod.	63.4	50-150	
1,2-Dichloroethane-d4	8260b	77.2	65-115	
Toluene-d8	8260b	96.1	50-120	1

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



Client: Environmental Plus, Inc

Attn: Address: 2100 Ave. O Pat McCasland

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

NM 88231

QUALITY ASSURANCE DATA

Date Sampled: 05/27/2003 Date Received: 06/03/2003

Time: 10:30 Time: 10:30 Sample Matrix: soil

Sample Name: SE14M652703BH1-10

Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143432

Report Date: 06/10/03

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

FAX (512) 385-7411

(512) 385-5886

m,p-Xylenes REPORT OF ANALYSIS o-Xylene Ethylbenzene TPH by GC (as gasoline) TPH by GC (as diesel-ext) Volatile organics-8260b/BTEX TPH by GC (as diesel) Parameter Result 20 20 <u>^1</u>0 <u>^</u>0 88 mg/Kg μg/Kg mg/Kg μg/Kg μg/Kg μg/Kg μg/Kg Units RQL 20 20 20 10 10 Blank 20 8 8 8 <u>~10</u> <u>^10</u> 20 ţ 06/05/03 06/05/03 06/05/03 06/05/03 06/05/03 06/06/03 06/05/03 06/05/03 06/06/03 Date 8015 mod 8015 mod Method 6 8260b 8260b 8260b 8260b 8260b 3540 8260b Data Qual' Prec.4 0.5 3.5 Recov.3 107. 109.7 101.7 90.1 83.2 74.4 80 CCV4 88.9 100.7 98.4 94.9 110.3 98.4 86.9 LCS⁴ 102.1 114.3 84.8 8. 80.2 78.2

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Toluene

Benzene

Trakers Richard Laster

recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) than advisory limit. M = Matrix interference. dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in

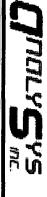
typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte 1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

recovered from a spiked sample.

Exceptions Report:

		Notes:
	See J-flag discussion above.	Benzene
	Qualif Comment	Parameter Quali
	and QC data:	Comments pertaining to Data Qualifiers and QC data:
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.)	A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analytical contamination), though less than the Reported Qualifier the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing m	A J flag data qualifier indicates (as required une levels/blanks and other potential sources of same Because the reported result is below the quantity presence and relative ratio of target ions (eg. the state of the state of target ions).
		J flag Discussion
	 ☑ 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. 	☑ Sample received in appropriate contail ☐ Sample received in appropriate contail ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate con ☐ Sample received in inappropriate contain ☐ Sample received in inappropriate ☐ Sample received in
		Sample Bottles & Preservation
le 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).	le Temperature/Condition <=6°C The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very faboratory within such a short time after sampling that cooling measures used in the field and c samples (see sample collection and sample receipt times) and samples where the temperature c temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).	Sample Temperature/Condition <=6°C The typical sample temperature criteria laboratory within such a short time after samples (see sample collection and sam temperature measurement without imparature measurement with measurement without imparature measurement without measurement with measurement wi
	Attn: Pat McCasland	Report #/Lab ID#: 143431 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2003-00136 14 Main #6 Sample Name: SE14M652703BH1-5
		TO A DE LA CARDE THE POST OF T



Attn: Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652703BH1-5 Project ID: 2003-00136 14 Main #6

Report#/Lab ID#: 143431
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qual	Data Qualifiers
1-Chlorooctane	8015 mod.	78.6	50-150	-
p-Terphenyl	8015 mod.	50.7	50-150	1
1,2-Dichloroethane-d4	8260b	88.3	65-115	
Toluene-d8	8260b	114	50-120	



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

Client: Attn: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

NM 88231

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

Phone:

Report#/Lab ID#: 143431 **Project ID: 2003-00136 14 Main #6** Report Date: 06/10/03

Sample Matrix: soil Sample Name: SE14M652703BH1-5

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/27/2003 Time: 10:15

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR!	ANCE DA	TA^1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7	Prec. ²	Prec. ² Recov. ³ CCV ⁴	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	<mark>አ</mark>	06/05/03	8015 mod.	1 2 4	3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	1	1	;	-	06/05/03	3540	-	1	!	}	-
TPH by GC (as gasoline)	۵	mg/Kg	5	<u>გ</u>	06/05/03	8015 mod.		0.5	80	94.9	80.2
Volatile organics-8260b/BTEX					06/06/03	8260b				1	-
Benzene	<20	µg/Kg	20	<20	06/06/03	8260b	J	2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	<20	06/06/03	8260b		0.4	107.7	110.8	113.8
o-Xylene	<20	μg/Kg	20	<20	06/06/03	8260b		9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

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Respectfully Submitted

Richard Laster

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

Page#: 1 Report Date: 06/10/03

Exceptions Report:

Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6
Sample Name: SE14M652703BH1-2

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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

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

J flag Discussion

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Qualif Comment
Ethylbenzene	ľ	See J-flag discussion above.
o-Xylene	ſ	See J-flag discussion above.
Toluene	J	See J-flag discussion above.
Notes:		



Sample Name: SE14M652703BH1-2 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143430

EPORT OF SURROGATE RECOVERY

ttn:

Pat McCasland

Environmental Plus, Inc.

11 ogate Compound	Method F	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
Chlorooctane 8015	8015 mod.	75.9	50-150	
Terphenyl 8015	8015 mod.	54	50-150	;
2-Dichloroethane-d4 82	8260b	89.6	65-115	
luene-d8 82	8260b	103	50-120	!

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

ge#: 2



Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

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

Phone:

NM 88231

Date Sampled: 05/27/2003 Date Received: 06/03/2003 Time: 10:00 **Time:** 10:30

Sample Matrix: soil

Sample Name: SE14M652703BH1-2 **Project ID:** 2003-00136 14 Main #6 **Report#/Lab ID#:** 143430

Report Date: 06/10/03

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

QUALITY ASSURANCE DATA

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSURA	NCE DA	TA ¹	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual 7 Prec. 2 Recov. 3 CCV4 LCS4	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	11.9	mg/Kg	5	ሌ	06/05/03	8015 mod.	****	3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	;	1	1	ŀ	06/05/03	3540	-	i	1		1
TPH by GC (as gasoline)	<mark></mark>	mg/Kg	5	ል	06/05/03	8015 mod.		0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	-				06/05/03	8260b		-	-	1	į
Benzene	<20	µg/Kg	20	<20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	<20	μg/Kg	20	20	06/05/03	8260b	J	5.7	101.7	98.4	102.1
m,p-Xylenes	39.3	μg/Kg	20	20	06/05/03	8260b	-	3.3	109.7	100.7	114.3
o-Xylene	20	μg/Kg	20	\$	06/05/03	8260b	Ţ	4.1	107.1	98.4	1111.1
Toluene	20	μg/Kg	20	8	06/05/03	8260b	-	4.7	90.1	110.3	91.2

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of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value

recovered from a spiked sample.

express written consent of AnalySys, Inc.

Chara Respectfully Submitted,

Richard Laster

recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are I = analyte potentially present between the PQL and the MDL. B = Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits



Attn: Client: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH10-10' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143471

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qual	Data Qualifiers
1-Chlorooctane	8015 mod.	75	50-150	
p-Terphenyl	8015 mod.	57.3	50-150	1
1,2-Dichloroethane-d4	8260b	86.4	65-115	
Toluene-d8	8260b	104	50-120	-



Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

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

Phone:

Sample Matrix: soil

Date Received: 06/03/2003

Time: 10:30

Sample Name: SE14M652903BH10-15'

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143472

Report Date: 06/13/03

NM 88231

Date Sampled: 05/29/2003 QUALITY ASSURANCE DATA¹ Time: 11:45

REPORT OF ANALYSIS	1						QUALITY ASSURANCE DATA	ASSUR.	ANCE DA	TAI	
Parameter	Result	Units	RQL 5	Blank	Date	Method ⁶	Data Qual 7	Prec.2	Prec. ² Recov. ³ CCV ⁴		LCS ⁴
TPH by GC (as diesel)	۵	mg/Kg	5	۵	06/11/03	8015 mod.	1	14.5	72	105.6	78.5
TPH by GC (as diesel-ext)	1	!		ļ	06/11/03	3540	1	!		i	1
TPH by GC (as gasoline)	ሌ	mg/Kg	S	ል	06/11/03	8015 mod.	ŀ	17.2	72	105.3	76.6
Volatile organics-8260b/BTEX			1		06/06/03	8260Ь					
Benzene	<20	μg/Kg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	20	μg/Kg	20	20	06/06/03	8260b	!	0.6	103.1	105.9	102.5
m,p-Xylenes	<u>\$</u>	μg/Kg	20	<u>\$</u>	06/06/03	8260b	-	0.4	107.7		113.8
o-Xylene	\$0	μg/Kg	20	<u>\$</u>	06/06/03	8260b	-	9.5	97		111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260ь		3.4	85.9	86.6	92.2

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Respectfully Submitted,

Richard Laster

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



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

Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

X

88231

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

Phone:

Project ID: 2003-00136 14" Main #6 Report#/Lab ID#: 143471 Report Date: 06/13/03

Sample Name: SE14M652903BH10-10

Sample Matrix: soil

Date Sampled: 05/29/2003 Date Received: 06/03/2003 **Time:** 11:05 Time: 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR/	NCE DA	TA^1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7 Prec. 2 Recov. 3	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	\$	mg/Kg	5	Ն	06/11/03	8015 mod.		14.5	72	105.6	78.5
TPH by GC (as diesel-ext)		-	!	1	06/11/03	3540	-		!		-
TPH by GC (as gasoline)	۵.	mg/Kg	5	<mark></mark>	06/11/03	8015 mod.	!	17.2	72	105.3	76.6
Volatile organics-8260b/BTEX			1		06/06/03	8260b		-	:	1	!
Benzene	<20	µg/Kg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b	1	0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	^2 0	06/06/03	8260b	-	0.4	107.7	110.8	113.8
o-Xylene	20	μg/Kg	20	^ 20	06/06/03	8260b	-	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

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Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1 Report Date: 06/13/03

Exceptions Report:

Sample Manie: SEI+MOSZ70SEIIU-S	Comple Nome: CELANGEDOODUID 5	Project ID: 2003-00136 14" Main #6	Client: Environmental Plus, Inc. Attn: F	Report #/Lab ID#: 143470 Matrix: soil	
			Attn: Pat McCasland		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualii	ulif Comment
Benzene	J	See J-flag discussion above.
Notes:		



Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH10-5' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143470

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	64.2	50-150	
p-Terphenyl	8015 mod.	61	50-150	-
1,2-Dichloroethane-d4	8260b	82.1	65-115	
Toluene-d8	8260b	92.9	50-120	1

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



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

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

NM 88231

Sample Matrix: soil

Date Sampled: 05/29/2003

Time: 10:35 Time: 10:30

Date Received: 06/03/2003

Sample Name: SE14M652903BH10-5

Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143470

Report Date: 06/13/03

QUALITY ASSURANCE DATA

Parameter REPORT OF ANALYSIS Toluene o-Xylene m,p-Xylenes Ethylbenzene Benzene Volatile organics-8260b/BTEX TPH by GC (as gasoline) TPH by GC (as diesel-ext) TPH by GC (as diesel) Result 34.4 94.3 346 903 484 20 mg/Kg mg/Kg μg/Kg μg/Kg µg/Kg μg/Kg µg/Kg Units RQL 5 20 20 20 20 Blank 8 20 S 06/09/03 06/09/03 06/09/03 06/09/03 06/09/03 06/09/03 06/11/03 06/11/03 06/11/03 Date 8015 mod 8015 mod Method 6 8260b 8260ь 8260b 8260b 8260ь 8260b 3540 Data Qual' Prec.2 14.5 17.2 0.7 ļ Recov.3 104.9 95.1 102.2 81.7 72 72 CCV⁴ 105.6 104.5 107.2 97.3 88.2 105.3LCS⁴ 105.2 97.9 83.2 76.6 78.5 106

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Respectfully Submitted,

Crebard Richard Laster なれた

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

Exceptions Report:

Report #/Lab ID#: 143469 Matrix: soil Client: Environmental Plus, Inc. Project ID: 2003-00136 14" Main #6 Sample Name: SE14M652903BH10-2'

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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



Client:

Attn:

Pat McCasland

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

Environmental Plus, Inc. Sample Name: SE14M652903BH10-2' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143469

REPORT OF SURROGATE RECOVERY

	Recovery	Recovery Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane 8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl 8015 mod.	none/diluted	diluted @ 10X	D
1,2-Dichloroethane-d4 8260b	none/diluted	diluted @ 50X	D
Toluene-d8 8260b	none/diluted	diluted @ 50X	D



(512) 385-5886 2209 N. Padre Island Dr., Corpus Christi, TX 78408 3512 Montopolis Drive, Austin, TX 78744 & 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#:** 143469 **Report Date: 06/13/03**

Sample Name: SE14M652903BH10-2 Project ID: 2003-00136 14" Main #6

Sample Matrix: soil

Date Sampled: 05/29/2003 Date Received: 06/03/2003 Time: Time: 10:20

QUALITY ASSURANCE DATA 1

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR/	NCE DA	TAI	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7	Prec. ²	Prec. ² Recov. ³ CCV ⁴ LCS'	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	8300	mg/Kg	100	<100	06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	1	!	-	-	06/06/03	3540	-	1	!		ŀ
TPH by GC (as gasoline)	6260	mg/Kg	100	<100	06/06/03	8015 mod.	1	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-			3	06/09/03	8260Ь			!	-	;
Benzene	9480	μg/Kg	1000	<1000	06/09/03	8260b		3.6	81.7	88.2	83.2
Ethylbenzene	56000	μg/Kg	1000	<1000	06/09/03	8260b	:	4.1	95.1	97.3	97.9
m,p-Xylenes	101000	μg/Kg	1000	<1000	06/09/03	8260b	1	0.7	104.9	107.2	106
o-Xylene	35400	μg/Kg	1000	<1000	06/09/03	8260b	-	1.6	102.2	104.5	105.2
Toluene	81400	μg/Kg	1000	<1000	06/09/03	8260b	t	0.6	82.2	88.5	84.8

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Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1 **Report Date: 06/13/03**

Client: Attn: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH9-15' Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143468 Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifiers	Data Qualifiers
1-Chlorooctane	8015 mod.	76.3	50-150	
p-Terphenyl	8015 mod.	74.2	50-150	
1,2-Dichloroethane-d4	8260b	91.3	65-115	
Toluene-d8	8260b	109	50-120	1



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Attn: Client: Pat McCasland Environmental Plus, Inc.

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Eunice

NM 88231

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

Phone:

Report#/Lab ID#: 143468 **Report Date:** 06/13/03

Project ID: 2003-00136 14" Main #6

Sample Name: SE14M652903BH9-15

Sample Matrix: soil

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/29/2003 Time: 09:45

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR,	ANCE DA	TA ¹	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual 7 Prec. 2 Recov. 3 CCV4 LCS 4	Prec. ²	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	\$	mg/Kg	5	<mark></mark>	06/09/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	\$ 1 5	-	1	;	06/06/03	3540			1	}	ŀ
TPH by GC (as gasoline)	۵	mg/Kg	5	<u></u>	06/09/03	8015 mod.	-	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-				06/06/03	8260Ь				}	-
Benzene	<20	µg/Kg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	^2 0	06/06/03	8260b	1 - 1	0.4	107.7	110.8	113.8
o-Xylene	<20	µg/Kg	20	^2 0	06/06/03	8260b	;	9.5	97	109.7	111.9
Toluene	< 20	ug/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6 92.2	93

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Respectfully Submitted,

Richard Laster

Richard fasts

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

Attn: Client: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH9-10' Project ID: 2003-00136 14" Main #6

Report#/Lab ID#: 143467
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifi	Data Qualifiers
1-Chlorooctane	8015 mod.	73.5	50-150	
p-Terphenyl	8015 mod.	71.6	50-150	1
1,2-Dichloroethane-d4	8260b	83.7	65-115	
Toluene-d8	8260b	109	50-120	-



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(505) 394-3481

Report#/Lab ID#: 143467 **Report Date: 06/13/03**

Sample Name: SE14M652903BH9-10' Project ID: 2003-00136 14" Main #6

Sample Matrix: soil

Date Sampled: 05/29/2003 Date Received: 06/03/2003 **Time:** 09:20 **Time:** 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSUR/	NCE DA	TA1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual 7	Prec. ²	Prec. ² Recov. ³ CCV ⁴	CCV ⁴	LCS ⁴
TPH by GC (as diesel)		mg/Kg	5	۵	06/09/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	;	;	-	ļ	06/06/03	3540	-	}	1	;	}
TPH by GC (as gasoline)	<u>ۍ</u>	mg/Kg	5	<u></u>	06/09/03	8015 mod.	•	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-				06/06/03	8260Ь	-			1	1
Benzene	<20	μg/Kg	20	\$20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	^2 0	06/06/03	8260b	-	0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	^2 0	06/06/03	8260b	;	0.4	107.7	8.011	113.8
o-Xylene	∠20	μg/Kg	20	20	06/06/03	8260b	:	9.5	97	109.7	9.111
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

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Respectfully Submitted,

Richard Laster

Richard faster

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

Exceptions Report:

Report #/Lab ID#: 143466 Matrix: soil
Client: Environmental Plus, Inc.
Project ID: 2003-00136 14" Main #6
Sample Name: SE14M652903BH9-5'

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

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Qualif Comment
1,2-Dichloroethane-d4	ם	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.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	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.
Votes:		



Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2003-00136 14" Main #6 Sample Name: SE14M652903BH9-5'

Report#/Lab ID#: 143466
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

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

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



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Client: Environmental Plus, Inc

Attn: Address: 2100 Ave. O Pat McCasland

NM 88231

Eunice

FAX: (505) 394-2601

REPORT OF ANALYSIS

Phone:

(505) 394-3481

Time: 09:00

Date Sampled: 05/29/2003 Date Received: 06/03/2003 Time: 10:30

Sample Matrix: soil

Sample Name: SE14M652903BH9-5 Project ID: 2003-00136 14" Main #6 Report#/Lab ID#: 143466

Report Date: 06/13/03

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual 7 Prec. 2 Recov. 3 CCV4	Prec.2	Recov.3	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	10800	mg/Kg	500	<500	06/06/03	8015 mod.	-	3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	;	-	1	1	06/06/03	3540	1	1	ŀ	!	;
TPH by GC (as gasoline)	12900	mg/Kg	500	<500	06/06/03	8015 mod.	!	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-		-		60/700/00	8260b			1		
Benzene	43000	μg/Kg	5000	<5000	06/07/03	8260b		3.6	81.7	88.2	83.2
Ethylbenzene	163000	μg/Kg	5000	<5000	06/07/03	8260b	1	4.1	95.1	97.3	97.9
m,p-Xylenes	275000	μg/Kg	5000	<5000	06/07/03	8260b	-	0.7	104.9	107.2	106
o-Xylene	86300	μg/Kg	5000	<5000	06/07/03	8260b	1	1.6	102.2	104.5	105.2
Toluene	217000	μg/Kg	5000	<5000	06/07/03	8260b		0.6	82.2	88.5	84.8

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Richard faster Respectfully Submitted, Richard Laster

recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in than advisory limit. M = Matrix interference.

expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte 1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

recovered from a spiked sample.

(RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers

Exceptions Report:

Report #/Lab ID#: 143465 Matrix: soil Client: Environmental Plus, Inc. Attn: Pat McCasland Project ID: 2003-00136 14" Main #6 Sample Name: SE14M652903BH9-2'		
, ų	Report #/Lab ID#: 143465 Matrix: soil	
,,	Client: Environmental Plus, Inc.	Attn: Pat McCasland
Sample Name: SE14M652903BH9-2'	Project ID: 2003-00136 14" Main #6	
	Sample Name: SE14M652903BH9-2'	

Sample Temperature/Condition <=6°C

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). 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

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.

J flag Discussion

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	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.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	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	Q	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:		



Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH9-2' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143465

REPORT OF SURROGATE RECOVERY

Attn:

Client:

1-Chlorooctane8015 mod.none/diluteddiluted @ 50XDp-Terphenyl8015 mod.none/diluteddiluted @ 50XD1,2-Dichloroethane-d48260bnone/diluteddiluted @ 250XDToluene-d88260bnone/diluteddiluted @ 250XD	Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifiers	Data Qualifiers
l 8015 mod. oethane-d4 8260b 8260b	1-Chlorooctane		none/diluted	diluted @ 50X	D
oethane-d4 8260b 8260b	p-Terphenyl	8015 mod.	none/diluted	diluted @ 50X	ט
8260b none/diluted	1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
	Toluene-d8		none/diluted	diluted @ 250X	D



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Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

Z Z

88231

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

Phone:

Report#/Lab ID#: 143465 Report Date: 06/13/03

Project ID: 2003-00136 14" Main #6

Sample Name: SE14M652903BH9-2

Sample Matrix: soil

Date Received: 06/03/2003 **Time:** 10:30

Date Sampled: 05/29/2003

Time: 08:45

QUALITY ASSURANCE DATA 1

88.9

72

LCS⁴

97

81.1

m,p-Xylenes Ethylbenzene REPORT OF ANALYSIS o-Xylene Volatile organics-8260b/BTEX TPH by GC (as gasoline) TPH by GC (as diesel-ext) Parameter Toluene Benzene TPH by GC (as diesel) 367000 118000 226000 Result 17200 6460011100 mg/Kg mg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg Units RQL⁵ 5000 5000 5000 5000 500 500 **\5000** <5000 <5000 <5000 <5000 <500 Blank **5**00 06/07/03 06/07/03 06/07/03 06/07/03 06/07/03 06/06/03 06/06/03 06/07/03 06/06/03 Date 8015 mod. 8015 mod Method 6 8260Ь 8260b 8260b 8260b 8260b 8260b 3540 Data Qual ' Prec.4 4.1 3.4 0.7 0.5 3.6 Recov.3 102.2 104.9 95.1 81.7 77.6 79.4 CCV⁴

107.2 97.3

106

97.9

88.2

83.2

104.5

105.2

84.8

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Respectfully Submitted,

Richard Laster

Ruchard faith

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

Client: Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652903BH8-15' Project ID: 2003-00136 14" Main #6

Sample Matrix: soil Report#/Lab ID#: 143464

REPORT OF SURROGATE RECOVERY

Attn:

Surrogate Compound	Method	Recovery	Recovery Recovery Limit Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	80.3	50-150	
p-Terphenyl	8015 mod.	81.7	50-150	1
1,2-Dichloroethane-d4	8260b	84	65-115	
Toluene-d8	8260Ь	101	50-120	1



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Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

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Phone:

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

NM 88231

Project ID: 2003-00136 14" Main #6 Report#/Lab ID#: 143464 **Report Date: 06/13/03**

Sample Name: SE14M652903BH8-15

Sample Matrix: soil Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/29/2003 Time: 08:20

QUALITY ASSURANCE DATA

m,p-Xylenes REPORT OF ANALYSIS o-Xylene Ethylbenzene Volatile organics-8260b/BTEX TPH by GC (as diesel-ext) TPH by GC (as diesel) Parameter Benzene TPH by GC (as gasoline) Result <u>م</u> ا mg/Kg mg/Kg μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg Units RQL⁵ 20 20 20 20 20 20 1 Blank 2020 20 **۵** ا Ω 06/06/03 06/06/03 06/06/03 06/06/03 06/06/03 06/06/03 06/09/03 06/06/03 06/09/03 Date 8015 mod 8015 mod Method 6 8260b 8260b 8260b 8260b 8260b 8260b Data Qual 7 Prec.2 Recov.3 CCV4 9.5 0.4 0.6 0.5 3.4 103.1 79.4 107.7 77.6 97 82 88.9 110.8 105.9 109.7 97 LCS⁴ 111.9 113.8

102.5

84.4

81.1

72

have been carefully reviewed and, to the best of my knowledge, the analytical results express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results

Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1 Report Date: 06/13/03



Client: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652903BH8-10' Project ID: 2003-00136 14" Main #6 Sample Matrix: soil Report#/Lab ID#: 143463

REPORT OF SURROGATE RECOVERY

Attn:

Surrogate Compound	Method	Recovery	Recovery Limit Data Qualifiers	Data Qualifiers
1-Chlorooctane	8015 mod.	72.1	50-150	1
p-Terphenyl	8015 mod.	50.6	50-150	!
1,2-Dichloroethane-d4	8260b	83.9	65-115	!
Toluene-d8	8260Ь	98.6	50-120	-



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

Client: Attn: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O Eunice

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

NM 88231

Date Sampled: 05/29/2003 Date Received: 06/03/2003 Sample Matrix: soil Sample Name: SE14M652903BH8-10 Project ID: 2003-00136 14" Main #6 Time: Time: 08:00 10:30

Report#/Lab ID#: 143463

Report Date: 06/13/03

REPORT OF ANALYSIS							QUALITY ASSURANCE DAT/	ASSUR/	NCE DA	TA ¹	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7	Prec.2	Prec. ² Recov. ³ CCV ⁴		LCS ⁴
TPH by GC (as diesel)	۵	mg/Kg	5		06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	-	;	!	-	06/06/03	3540			;	}	}
TPH by GC (as gasoline)	ሌ	mg/Kg	5	۵	06/06/03	8015 mod.	;	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	•••				06/06/03	8260b			;	;	1
Benzene	<20	µg/Kg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b	1,	0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	∆ 20	06/06/03	8260b	1	0.4	107.7	110.8	113.8
o-Xylene	<20	μg/Kg	20	^2 0	06/06/03	8260b	-	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

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Respectfully Submitted,

Richard faster

Richard Laster

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

Page#: 1 **Report Date: 06/13/03**

Exceptions Report:

Sample Name: SE14M652903BH8-5' Project ID: 2003-00136 14" Main #6 Client: Environmental Plus, Inc. Report #/Lab ID#: 143462 Matrix: soil Attn: Pat McCasland

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

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

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

J flag Discussion

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.) 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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	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.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	ם	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	ם	levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
Toluene-d8	ם	levels). Surrogate recoveries not accurately quantifiable.
Notes:		

Sys, Inc.'s standard terms.]	t by buyer/sampler to Analys	onstitutes agreement	ytical testing co	Sys, Inc. for ana	Analysys, Inc. for analytical testing constitutes agreement by buyer/sampler to Analysys, Inc.'s standard terms.]	,
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6/3/03 1133C	shrun ASI	Welonie Han		5-27-03	my ENU contractal this	charley
Date	Affiliation	Name	Time	Date	2a / Amiliation	J.
ed By	Sample Received			ا ا	Name Assimpte Neiniquished	Z
	7-5,20			2	Sample Pelinguich	
data will be reported to ASI's normal reposted, ASI will default to Priority Pollui	ustody or attached to this chain-of-cus	pecified on this chain-of-c	parameter lists are sprocedures.	ss specific analytical properties of the supplied for all GC properties.	ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.	ASI's HS
	ising ASI's method of choice and an	alyses will be conducted u	ocumentation, all an	tody and/or attached d	(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of chains.	(i)Unicss
	×	143439	×	1.15	14M6527C3BH3-5 5-28-03	3
	X	143438	×	13.83	SE1411652703BH3-2 5-29-031	35
	×	143437	×	1 ah:11	5-27.03	25/3
	×	143436	×	11.30	5-27-03	52%
	×	143435	×	11:10	5-07-03	SE
	×	143434	×	11.00	5000	XXX
	×	143433	X	10:45	5-37-03	36/
	×	143432	×	10:30	5.22.03	125
	X	143431	×	10:15	5-27-03	3
	× ×	143430	×	0,00	SEIYMG52703BH1-2 5-27-03 10:00	3
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Analyses Kequested (1) Please attach explanatory information as rec		31	one 915-638	'	Phone 505: 394.3481 Fax 505: 394.2601	Phon
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		Sta	City Midland	8823) Cit	City Ling State Jin Zip	City
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ata will be reported to ASI's normal replody, ASI will default to Priority Pollus	(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 replimits (MDLPQL). 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 Pollurian (MDLPQL).	lyses will be conducted us cified on this chain-of-cus	ameter lists are spe-	or attached docu	his Chain-of-custody and extractables, unless specif	(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this	(1)Unless specifica
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	×	143440 ×	×		5-27-03 1:30	SE14M658723BHB-10	SEIYMG
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					1 with lab mgr.):	Rush Status (must be confirmed with lab mgr.):	Rush Status
Please attach explanatory information as rec	Please	799 Fax	Phone 915-637-3799 Fax	1	55. 3941.2601	Phone 505-394-3481 Fax 505-394-2601	Phone Ses
Analyses Requested (1)	 	Hernandez	Frank	ATTN:	,	ATTN: Br M'Casland	ATTN: 87
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[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]



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

Client: Environmental Plus, Inc

Attn: Address: 2100 Ave. O Pat McCasland

Eunice

Phone:

(505) 394-3481

FAX: (505) 394-2601 $\frac{1}{2}$ 88231

> **Report#/Lab ID#:** 143442 **Report Date:** 06/11/03

Sample Name: SE14M652803BH4-2 **Project ID:** 2003-00136 14 Main #6

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: **Time:** 08:00 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	[A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7	Prec. ²	Prec. 2 Recov. 3 CCV ⁴ LCS ⁴	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	34300	mg/Kg	500	<500	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	:	1	;	1	06/05/03	3540	;	1	1	-	1
TPH by GC (as gasoline)	22600	mg/Kg	500	<500	06/06/03	8015 mod.	į	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	;		-		06/05/03	8260b	-			1	1
Benzene	24700	μg/Kg	5000	<5000	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	168000	μg/Kg	5000	<5000	06/05/03	8260b	-	5.7	101.7	98.4	102.1
m,p-Xylenes	329000	μg/Kg	5000	<5000	06/05/03	8260b	-	3.3	109.7	100.7	114.3
o-Xylene	114000	μg/Kg	5000	<5000	06/05/03	8260b		4.1	107.1	98.4	111.1
Toluene	166000	μg/Kg	5000	<5000	06/05/03	8260b	-	4.7	90.1	110.3 91.2	91.2
]								

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Richard Laster

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

Client: Attn: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH4-2 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143442

REPORT OF SURROGATE RECOVERY

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

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

Page#: 2

Exceptions Report:

Report #/Lab ID#: 143442 Matrix: soil	:
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH4-2	

Sample Temperature/Condition: <=6°C

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). 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

Sample Bottles & Preservation:

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

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

Notes:

Page#: 3



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

Address: 2100 Ave. O Attn: Client: Pat McCasland Eunice Environmental Plus, Inc. NM 88231

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

Phone:

REPORT OF ANALYSIS

Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143443 **Report Date: 06/11/03**

Sample Matrix: soil Sample Name: SE14M652803BH4-5

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/28/2003 Time: 08:10

QUALITY ASSURANCE DATA 2 Danne

mits	ntitation Lii thod numb	porting Quar	rix. 5. Re	n standard or mat	expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (ROI) typically at or above the Practical Quantitation Limit (POI) of the analytical method 6. Method numbers	nt (%) recover	sed as the perce) part of this	its reserved. No	Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the
ılts are	(LCS) resu	ntrol Sample	oratory Co	m (CCV) and Lab	recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are	d sample.	red from a spike	recove)l Program. ©	*Quality Contro	are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. ©
f analyte	me absolu	ov.) is the per	overy (Rec	urements. 3. Rec	 Quanty assurance data is for the sample batch which included this sample. 2. Frecision (FKEC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte 	(%) difference	elative percent (enciosed results	tySys, inc. the ana	have been carefully reviewed and, to the best of my knowledge, the analytical results
	the cheel	(DEC)		J - J - AL :	1-1-1-1-1-1			_	1	, I	This analysical manages is manages in the state of the American
91.2	110.3	90.1	4.7		8260b	06/05/03	<20	20	μg/Kg	<20	Toluene
111.1	98.4	107.1	4.1	1	8260b	06/05/03	20	20	μg/Kg	<u> </u>	o-Xylene
114.3	100.7	109.7	3.3	1	8260b	06/05/03	20	20	μg/Kg	<u>\$</u> 0	m,p-Xylenes
102.1	98.4	101.7	5.7	1	8260b	06/05/03	<20	20	μg/Kg	\$20	Ethylbenzene
84.8	86.9	83.2	2.4	}	8260b	06/05/03	20	20	µg/Кg	<20	Benzene
			1		8260b	06/05/03				1	Volatile organics-8260b/BTEX
80.2	94.9	80	0.5	1	8015 mod.	06/06/03	۵	5	mg/Kg	۵	TPH by GC (as gasoline)
}		i	- ا	}	3540	06/05/03	!	 	;	}	TPH by GC (as diesel-ext)
78.2	88.9	74.4	3.5		8015 mod.	06/06/03	۵	5	mg/Kg	6.51	TPH by GC (as diesel)
LCS 4	CCV ⁴	Recov. 3	Prec. 2	Data Qual. 7 Prec. 2 Recov. 3 CCV4 LCS 4	Method 6	Date	Blank	RQL ⁵	Units	Result	Parameter

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dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required (RQL), typically at or above the Fractical Quantitation Limit (FQL) of the analytical method. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) than advisory limit. M =Matrix interference. Method numbers titation Limits (LCS) results are

Page#:

Report Date: 06/11/03



Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652803BH4-5 **Project ID:** 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143443

REPORT OF SURROGATE RECOVERY

Client: Attn:

Surrogate Compound	Method	Recovery	Recovery Limitse Data Quali	Data Qualifiers
1-Chlorooctane	8015 mod.	71.8	50-150	
p-Terphenyl	8015 mod.	55.4	50-150	1
1,2-Dichloroethane-d4	8260b	87.1	65-115	
Toluene-d8	8260b	101	50-120	***



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

Attn: Address: 2100 Ave. O Client: Pat McCasland Environmental Plus, Inc. Eunice

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

Phone:

REPORT OF ANALYSIS

NM 88231

Date Sampled: 05/28/2003

Time: 08:25 Time:

10:30

QUALITY ASSURANCE DATA

Sample Matrix: soil

Date Received:

06/03/2003

Sample Name: SE14M652803BH4-10 **Project ID:** 2003-00136 14 Main #6

Report#/Lab ID#: 143444

Report Date: 06/11/03

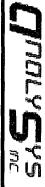
Parameter	Result	Units	RQL	Blank	Date	Method o	Data Qual. / Prec. 4 Recov. 5 CCV+ LCS+	Prec.	Recov. 3	CCV	LCS
TPH by GC (as diesel)	۵	mg/Kg	5	۵	06/06/03	8015 mod.	-	3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	1	-	}	}	06/05/03	3540	!	1	-	i	<u> </u>
TPH by GC (as gasoline)	ሌ	mg/Kg	5	۵	06/06/03	8015 mod.	;	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	1		-	1	06/05/03	8260b		-	1	-	
Benzene	20	μg/Kg	20	20	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	^2 0	μg/Kg	20	<20	06/05/03	8260b	!	5.7	101.7	98.4	102.1
m,p-Xylenes	< 20	μg/Kg	20	^ 20	06/05/03	8260b	1	3.3	109.7	100.7	114.3
o-Xylene	^2 0	μg/Kg	20	^2 0	06/05/03	8260b	!	4.1	107.1	98.4	111.1
Toluene	<20	μg/Kg	20	<20	06/05/03	8260b		4.7	90.1	110.3	91.2
				Ш			1 d		ייים הניי	- had	

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Richard Laster

of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits recovered from a spiked sample.

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are 1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) han advisory limit. M =Matrix interference.



Client: Attn:

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

Environmental Plus, Inc. Pat McCasland Sample Name: SE14M652803BH4-10 Project ID: 2003-00136 14 Main #6 Report#/Lab ID#: 143444 Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifi	Data Qualifiers
1-Chlorooctane	8015 mod.	71	50-150	
p-Terphenyl	8015 mod.	53.5	50-150	1
1,2-Dichloroethane-d4	8260b	67.8	65-115	
Toluene-d8	8260b	65.1	50-120	1



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

Report#/Lab ID#: 143445

Report Date: 06/11/03

Project ID: 2003-00136 14 Main #6

Attn: Address: 2100 Ave. 0 Client: Eunice Pat McCasland Environmental Plus, Inc

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

NM 88231

Sample Matrix: soil Sample Name: SE14M652803BH4-15 Date Sampled: **Date Received:** 06/03/2003 05/28/2003 Time: Time: 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	Α 1	
Parameter	Result	Units	RQL 5	Blank	Date	Method 6	Data Qual. 7	Prec. 2	Prec. 2 Recov. 3 CCV4		LCS ⁴
TPH by GC (as diesel)	5.52	mg/Kg	5	۵	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	!	-	1	1	06/05/03	3540	1		ł	 	}
TPH by GC (as gasoline)	۵.	mg/Kg	5	۵	06/06/03	8015 mod.	!	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX			-		06/05/03	8260b	-	;	-		i
Benzene	20	μg/Kg	20	<20	06/05/03	8260b	-	2.4	83.2	86.9	84.8
Ethylbenzene	20	μg/Kg	20	<u>&</u>	06/05/03	8260b	1	5.7	101.7	98.4	102.1
m,p-Xylenes	< 20	μg/Kg	20	<u>\$</u>	06/05/03	8260b	1	33	109.7	100.7	114.3
0-Xylene	20	μg/Kg	20	\$	06/05/03	8260Ь	1	4.1	107.1	98.4	111.1
I oluene	20	μg/Kg	20	<20	06/05/03	8260b	1	4.7	90.1	110.3	91.2
This analytical report is respectfully submitted by AnalySys Inc. The analysis and the submitted by AnalySys Inc.	Veve Inc The	nclosed results		Tr. common d	1 Ouglity common data is for the sounds 1	. 1					

express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © have been carefully reviewed and, to the best of my knowledge, the analytical results analytical report is respectfully submitted by Analysys, Inc. The enclosed results Respectfully Submitted,

Richard faith Richard Laster

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

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte than advisory limit. M =Matrix interference.



Client:

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

Sample Name: SE14M652803BH4-15 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143445

REPORT OF SURROGATE RECOVERY

Pat McCasland

Environmental Plus, Inc.

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualific	Data Qualifiers
1-Chlorooctane	8015 mod.	79.9	50-150	
p-Terphenyl	8015 mod.	66	50-150	!
1,2-Dichloroethane-d4	8260b	82.2	65-115	1
Toluene-d8	8260b	113	50-120	

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

Page#: 2 Report Date: 06/11/03



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

Attn: Client: Environmental Plus, Inc.

Pat McCasland

Address: 2100 Ave. O

Eunice

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

Phone:

Date Sampled: Date Received: 06/03/2003 05/28/2003 Time: Time: 10:30 09:10

Sample Matrix: soil

Sample Name: SE14M652803BH5-2 **Project ID:** 2003-00136 14 Main #6

Report#/Lab ID#: 143446

Report Date: 06/11/03

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	[A 1	
Parameter	Result	Units	RQL 5	Blank	Date	Method ⁶	Data Qual. 7	Prec. ²	Prec. 2 Recov. 3	CCV ⁴	LCS 4
TPH by GC (as diesel)	19800	mg/Kg	500	<500	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	1	<u> </u>	<u> </u>	}	06/05/03	3540	1	1	1	1	ì
TPH by GC (as gasoline)	15300	mg/Kg	500	<500	06/06/03	8015 mod.	1	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX			-	!	06/05/03	8260b					
Benzene	34800	μg/Kg	5000	<5000	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	180000	μg/Kg	5000	<5000	06/05/03	8260b	-	5.7	101.7	98.4	102.1
m,p-Xylenes	305000	μg/Kg	5000	<5000	06/05/03	8260b	· -	3.3	109.7	100.7	114.3
o-Xylene	99900	μg/Kg	5000	<5000	06/05/03	8260b		4.1	107.1	98.4	1111.1
Toluene	215000	μg/Kg	5000	<5000	06/05/03	8260b	E T	4.7	90.1	110.3	91.2

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Respectfully Submitted,

Richard Laster

recovered from a spiked sample.

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



Client:

Attn:

Pat McCasland

Environmental Plus, Inc.

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

Project ID: 2003-00136 14 Main #6 | Report#/Lab ID#: 143446

Sample Matrix: soil

Sample Name: SE14M652803BH5-2

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	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.

Page#: 2 **Report Date:** 06/11/03

Exceptions Report:

Report #/Lab ID#: 143446 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH5-2	

Sample Temperature/Condition: <=6°C

temperature measurement without impacting sample integrity (ex. in a bottle with no cooler). 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 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

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), GCMS 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	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.
1-Chlorooctane	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	D	levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	מ	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	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
Toluene-d8	ם	levels). Surrogate recoveries not accurately quantifiable.
Notes:		



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

NM 88231

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

> Report#/Lab ID#: 143447 **Project ID:** 2003-00136 14 Main #6 **Report Date:** 06/11/03

Sample Name: SE14M652803BH5-5

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: Time: 09:20 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	[A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual.7	Prec. 2	Prec. 2 Recov. 3 CCV ⁴ LCS	CCV^4	LCS 4
TPH by GC (as diesel)	19600	mg/Kg	500	<500	06/06/03	8015 mod.		3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	;	-	!	-	06/05/03	3540	-	:	;	}	-
TPH by GC (as gasoline)	16800	mg/Kg	500	<500	06/06/03	8015 mod.	1	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX			-		06/05/03	8260b	1			}	1
Benzene	72500	μg/Kg	5000	<5000	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	236000	μg/Kg	5000	<5000	06/05/03	8260b		5.7	101.7	98.4	102.1
m,p-Xylenes	353000	μg/Kg	5000	<5000	06/05/03	8260b	-	3.3	109.7	100.7	114.3
o-Xylene	112000	μg/Kg	5000	<5000	06/05/03	8260b	-	4.1	107.1	98.4	111.1
Toluene	346000	μg/Kg	5000	<5000	06/05/03	8260b		4.7	90.1	110.3	91.2
]								

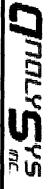
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the

Respectfully Submitted,

Richard faster

Richard Laster

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



Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH5-5 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143447

REPORT OF SURROGATE RECOVERY

Attn:

Client:

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

Exceptions Report:

Report #/Lab ID#: 143447 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH5-5	
	The state of the s

Sample Temperature/Condition: <=6°C

temperature measurement without impacting sample integrity (ex. in a bottle with no cooler). 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 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

Sample Bottles & Preservation:

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Sample receive	Sample receive
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n annronniate co	n appropriate co
intainer(s)	ontainer(s)
State C	and app
sample	ear to b
Sample received in appropriate container(s) State of sample preservation linknown	☑ Sample received in appropriate container(s) and appear to be appropriately preserved.

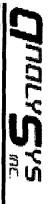
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

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



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

Report Date: 06/11/03

Address: 2100 Ave. O Attn: Client: Pat McCasland Environmental Plus, Inc.

Eunice

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

REPORT OF ANALYSIS

Z

Sample Name: SE14M652803BH5-10 **Project ID:** 2003-00136 14 Main #6 **Report#/Lab ID#:** 143448

Sample Matrix: soil

Date Received: 06/03/2003 Time: 10:30

Date Sampled: 05/28/2003 Time: 09:30

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL 5	Blank	Date	Method ⁶	Data Qual. 7 Prec. 2 Recov. 3 CCV4 LCS 4	Prec. ²	Recov. 3	CCV ⁴	LCS 4
TPH by GC (as diesel)	6740	mg/Kg	50	<u>ζ</u>	06/06/03	8015 mod.	***	3.5	74.4	88.9	78.2
TPH by GC (as diesel-ext)	!	1	;	}	06/05/03	3540	-	1	!	1	1
TPH by GC (as gasoline)	7100	mg/Kg	50	<50	06/06/03	8015 mod.	-	0.5	80	94.9	80.2
Volatile organics-8260b/BTEX	1		-		06/05/03	8260ь		-	-	:	;
Benzene	17800	μg/Kg	5000	<5000	06/05/03	8260b		2.4	83.2	86.9	84.8
Ethylbenzene	80000	μg/Kg	5000	<5000	06/05/03	8260b	!	5.7	101.7	98.4	102.1
m,p-Xylenes	135000	μg/Kg	5000	<5000	06/05/03	8260b	:	ယ ယ	109.7	100.7	114.3
o-Xylene	42000	μg/Kg	5000	<5000	06/05/03	8260b		4.1	107.1	98.4	111.1
Toluene	100000	μg/Kg	5000	<5000	06/05/03	8260b		4.7	90.1	110.3	91.2
This contains the second of th						I Late 1:1: 1: 1-1 date 1: 2 Project (PDEC) is the best color	3 44.5	3	(DDEC)	the about	in maluna

publication may be reproduced or transmitted in any form or by any means without the Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this have been carefully reviewed and, to the best of my knowledge, the analytical results express written consent of AnalySys, Inc. are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results

Respectfully Submitted,

Richard faith

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers recovered from a spiked sample.

4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte than advisory limit. M =Matrix interference. associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher



Client:

Environmental Plus, Inc. Pat McCasland

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

 Project ID:
 2003-00136 14 Main #6
 Report#/Lab ID#:
 143448

 Sample Name:
 SE14M652803BH5-10
 Sample Matrix:
 soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	none/diluted	diluted @ 5X	ם
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.

Page#: 2 Report Date: 06/11/03

Exceptions Report:

Report #/Lab ID#: 143448 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH5-10	
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.
- J flag Discussion: ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

Comments pertaining to Data Qualifiers and QC data:

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

Parameter	Qualif	Qualif Comment
1,2-Dichloroethane-d4	Q	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.
1-Chlorooctane	Q	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	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:		

INOTES:

Page#:



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

Client: Environmental Plus, Inc

Address: 2100 Ave. O Attn: Pat McCasland

Eunice

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

Z Z

88231

REPORT OF ANALYSIS

Report#/Lab ID#: 143449 **Report Date:** 06/11/03

Project ID: 2003-00136 14 Main #6

Sample Name: SE14M652803BH5-15

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: **Time:** 09:40 10:30

QUALITY ASSURANCE DATA

LCS 4

78.2

80.2

Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7 Prec. 2 Recov. 3 CCV4	Prec. 2	Recov. 3	CCV ⁴
TPH by GC (as diesel)	583	mg/Kg	5	ሌ	06/06/03	8015 mod.		3.5	74.4	88.9
TPH by GC (as diesel-ext)	-	-	;	-	06/05/03	3540	1	-	1	!
TPH by GC (as gasoline)	297	mg/Kg	5	ሪ _ነ	06/06/03	8015 mod.	;	0.5	80	94.9
Volatile organics-8260b/BTEX			-		06/05/03	8260b	• • •]
Benzene	253	μg/Kg	20	<20	06/09/03	8260b		2.4	83.2	86.9
Ethylbenzene	3490	μg/Kg	1000	<1000	06/05/03	8260b		5.7	101.7	98.4
m,p-Xylenes	6300	μg/Kg	1000	<1000	06/05/03	8260b		3.3	109.7	100.7
o-Xylene	2100	μg/Kg	1000	<1000	06/05/03	8260b	*	4.1	107.1	98.4
Toluene	2760	μg/Kg	1000	<1000	06/05/03	8260b	}	4.7	90.1	110.3
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results	lySys, Inc. The	nclosed results		ity assurance da	ata is for the sa	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absol	ed this sample.	2. Precisio	n (PREC) is	the absolu

114.3

102.1 84.8

111.1 91.2

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Richard Laster

Richard

Page#: 1

Report Date: 06/11/03

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

Client:

Attn:

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

Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH5-15 **Project ID:** 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143449

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	62.5	50-150	
p-Terphenyl	8015 mod.	57.9	50-150	1
1,2-Dichloroethane-d4	8260b	77.8	65-115	
Toluene-d8	8260b	78.2	50-120	



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Client: Environmental Plus, Inc

Address: 2100 Ave. O Attn: Pat McCasland

Eunice

X

88231

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

Phone:

Report#/Lab ID#: 143450 **Report Date:** 06/11/03

Sample Name: SE14M652803BH5-20 **Project ID:** 2003-00136 14 Main #6

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: **Time:** 10:20 10:30

REPORT OF ANALYSIS		:					QUALITY A	ASSURA	ASSURANCE DAT	<u>A</u> 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7	Prec. 2	Prec. 2 Recov. 3 CCV ⁴	CCV ⁴	LCS 4
TPH by GC (as diesel)	5.89	mg/Kg	5	ሌ	06/09/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	-	1	:		06/06/03	3540		}	-	1	;
TPH by GC (as gasoline)	۵	mg/Kg	5	۵	06/09/03	8015 mod.	-	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-				06/06/03	8260b				1	
Benzene	<20	μg/Kg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	<20	06/06/03	8260b		0.4	107.7	110.8	113.8
o-Xylene	<20	µg/Kg	20	^2 0	06/06/03	8260b	1	9.5	97	109.7	1111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

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Respectfully Submitted,

Richard Laster

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

Page#: 1

Client: Attn: Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH5-20 Project ID: 2003-00136 14 Main #6

Sample Matrix: soil Report#/Lab ID#: 143450

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	73.1	50-150	
p-Terphenyl	8015 mod.	72.9	50-150	
1,2-Dichloroethane-d4	8260b	79.9	65-115	
Toluene-d8	8260b	95	50-120	-



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

Client: Environmental Plus, Inc

Attn: Address: 2100 Ave. O Pat McCasland

Eunice

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

X 88231

> **Project ID:** 2003-00136 14 Main #6 **Report#/Lab ID#:** 143451 **Report Date:** 06/11/03

Sample Name: SE14M652803BH5-25

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: Time: 11:00 10:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	<u>A</u> 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. ⁷	Prec. 2	Prec. 2 Recov. 3 CCV ⁴		LCS ⁴
TPH by GC (as diesel)	ሪ ያ	mg/Kg	5	۵	06/06/03	8015 mod.	J	3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	1		1	!	06/06/03	3540	1	!	1	!	
TPH by GC (as gasoline)	ሌ -	mg/Kg	5	۵	06/06/03	8015 mod.	1	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX	-		-		06/06/03	8260b	-				-
Benzene	<20	μg/Kg	20	<20	06/06/03	8260b	-	2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	^2 0	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	< 20	μg/Kg	20	<20	06/06/03	8260b	1	0.4	107.7	110.8	113.8
o-Xylene	<20	μg/Kg	20	∆ 20	06/06/03	8260b	1	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2
]								

publication may be reproduced or transmitted in any form or by any means without the are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © have been carefully reviewed and, to the best of my knowledge, the analytical results This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results express written consent of AnalySys, Inc. Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this

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Richard Laster

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

Page#: 1 **Report Date:** 06/11/03

Attn: Client: REPORT OF SURROGATE RECOVERY Pat McCasland Environmental Plus, Inc. Sample Name: SE14M652803BH5-25 Project ID: 2003-00136 14 Main #6 Sample Matrix: soil Report#/Lab ID#: 143451

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	69.5	50-150	-
p-Terphenyl	8015 mod.	59.1	50-150	l
1,2-Dichloroethane-d4	8260b	84.5	65-115	1
Toluene-d8	8260b	101	50-120	1

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

Page#: 2

Exceptions Report:

Report #/Lab ID#: 143451 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH5-25	

Sample Temperature/Condition: <=6°C

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). 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 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

Sample Bottles & Preservation:

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

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



Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O

Eunice NM 88231

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

Parameter

Result

RQL

Blank

Date

22300

mg/Kg

500

: 600

Method 6 8015 mod.

3540

REPORT OF ANALYSIS

Volatile organics-8260b/BTEX

TPH by GC (as diesel)
TPH by GC (as diesel-ext
TPH by GC (as gasoline)

12700

mg/Kg

500

****500

06/06/03

8015 mod

0.5

79.4

97

81.1

95.1 104.9 102.2 82.2

104.5

105.2

84.8

107.2

106

97.3

97.9

88.2

83.2

06/09/03

8260b

06/06/03

Report#/Lab ID#: 143452 **Report Date:** 06/11/03 **Project ID:** 2003-00136 14 Main #6

Sample Name: SE14M652803BH6-2
Sample Matrix: soil

 Date Received:
 06/03/2003
 Time:
 10:30

 Date Sampled:
 05/28/2003
 Time:
 11:20

QUALITY ASSURANCE DATA

Data Qual.

Prec.

Recov. 3

CCV4

LCS 4

3.4

77.6

88.9

72

o-Xylene m,p-Xylenes Ethylbenzene express written consent of AnalySys, Inc. publication may be reproduced or transmitted in any form or by any means without the Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this 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. © This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results Coluene Respectfully Submitted, 143000 149000 82700 245000 16800 μg/Kg μg/Kg μg/Kg μg/Kg μg/Kg 5000 5000 5000 5000 recovered from a spiked sample. <5000 <5000 **\$000** <5000 06/09/03 06/09/03 06/09/03 06/09/03 06/09/03 8260b 8260b 8260b 8260b

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 associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in (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 expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits than advisory limit. M =Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are

Richard Laster

Report Date: 06/11/03

Page#: |



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

Attn: Environmental Plus, Inc. Pat McCasland

Client:

Sample Name: SE14M652803BH6-2 **Project ID:** 2003-00136 14 Main #6

Sample Matrix: soil Report#/Lab ID#: 143452

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifie	Data Qualifiers
1-Chlorooctane	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.

Page#: 2 **Report Date:** 06/11/03

Exceptions Report:

Report #/Lab ID#: 143452 Matrix: soil	
Client: Environmental Plus, Inc.	Attn: Pat McCasland
Project ID: 2003-00136 14 Main #6	
Sample Name: SE14M652803BH6-2	
Sample Temperature/Condition: /-6°C	

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

Sample Bottles & Preservation:

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State of car	and appear
State of camp	and appear to
State of cample	and appear to b
State of cample	and appear to be
State of cample ar	and appear to be ap
State of cample pres	and appear to be app
State of cample present	and appear to be appro
State of cample preserv	and appear to be appropr
State of cample precervat	and appear to be appropria
State of cample preservation	and appear to be appropriate
State of cample preservation	and appear to be appropriately
State of cample preservation or	and appear to be appropriately I
State of cample preservation unit	and appear to be appropriately pro
State of cample preservation unline	and appear to be appropriately pres
State of cample preservation unbrown	and appear to be appropriately preser
State of cample preservation unbrown	and appear to be appropriately preserve
Sample received in appropriate container(s) State of sample preservation imbrown	and appear to be appropriately preserved
State of cample preservation unknown	A Sample received in appropriate container(s) and appear to be appropriately preserved.

J flag Discussion: Sample received in inappropriate container(s), state of sample preservation unknown.

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 p
ertaining
g to Data (
Qualifiers and
QC data:

Parameter	Qualii	Qualif Comment
1,2-Dichloroethane-d4	α	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	ם	levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane	ם	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic
1-Chlorooctane	ם	levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	ם	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	ם	levels). Surrogate recoveries not accurately quantifiable.
Notes:		



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

(505) 394-3481

Phone:

X 88231

FAX: (505) 394-2601

Date Received: Sample Matrix: soil 06/03/2003 Time: 10:30

Sample Name: SE14M652803BH6-5 **Project ID:** 2003-00136 14 Main #6 **Report#/Lab ID#:** 143453

Report Date: 06/11/03

Date Sampled:

05/28/2003

Time: 11:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSURA	NCE DAT	A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. 7	Prec. 2	Prec. 2 Recov. 3 CCV ⁴ LCS ⁴	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	<5	mg/Kg	5	۵	06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	!			!	06/06/03	3540	!	!	1	i	-
TPH by GC (as gasoline)	ሌ	mg/Kg	5	ζ.	06/06/03	8015 mod.	-	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX			-		06/06/03	8260Ь			}		ł
Benzene	<20	μg/Kg	20	< 20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	<20	06/06/03	8260b	1 1	0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	<20	06/06/03	8260b	-	0.4	107.7	8.011	113.8
o-Xylene	<20	μg/Kg	20	^2 0	06/06/03	8260b	1	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b	-	3.4	85.9	86.6	92.2
	*						ļ				

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Respectfully Submitted,

Richard faith Richard Laster

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

Page#: 1 **Report Date:** 06/11/03

Sample Name: SE14M652803BH6-5 Project ID: 2003-00136 14 Main #6 3512 Montopolis Drive, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 385-5886 • FAX (512) 385-7411 Sample Matrix: soil Report#/Lab ID#: 143453

REPORT OF SURROGATE RECOVERY

Client: Attn:

Pat McCasland

Environmental Plus, Inc.

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifiers	Data Qualifiers
1-Chlorooctane	8015 mod.	8.66	50-150	
p-Terphenyl	8015 mod.	53.3	50-150	-
1,2-Dichloroethane-d4	8260b	85.2	65-115	-
Toluene-d8	8260b	102	50-120	1

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



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

Attn: Client: Pat McCasland Environmental Plus, Inc

Address: 2100 Ave. O

Eunice

Z

88231

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

Phone:

Report#/Lab ID#: 143454 **Report Date:** 06/11/03

Sample Name: SE14M652803BH6-10 **Project ID:** 2003-00136 14 Main #6

Sample Matrix: soil

Date Sampled: Date Received: 05/28/2003 06/03/2003 Time: Time: 11:45 10:30

REPORT OF ANALYSIS	! !						QUALITY ASSURANCE DATA	SSURA	NCE DAT	[A 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	<mark></mark>	06/06/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	1	-	}	1	06/06/03	3540	-	1	i	1	1
TPH by GC (as gasoline)	۵	mg/Kg	5	۵	06/06/03	8015 mod.	-	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX			-		06/06/03	8260b		1		-	-
Benzene	<20	рв/Кв	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	^20	06/06/03	8260b		0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	<20	06/06/03	8260b	1	0.4	107.7	110.8	113.8
o-Xylene	<20	μg/Kg	20	<20	06/06/03	8260b	;	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b		3.4	85.9	86.6	92.2

publication may be reproduced or transmitted in any form or by any means without the Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © have been carefully reviewed and, to the best of my knowledge, the analytical results This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard faster

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

Page#: 1

Client:

Attn:

Environmental Plus, Inc. Pat McCasland

Sample Name: SE14M652803BH6-10

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

| Report#/Lab ID#: 143454

Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse Data Qualifier	Data Qualifiers
1-Chlorooctane	8015 mod.	67.6	50-150	
p-Terphenyl	8015 mod.	51.7	50-150	İ
1,2-Dichloroethane-d4	8260b	84.8	65-115	-
Toluene-d8	8260b	101	50-120	1
Data Duniliforn. D. Summanton dilutad and V. Summanton autida additional dilutad	- 1- 1			

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

Page#: 2



Sample Analysis Case Narrative & Exceptions Report

Client: ENVIRONMENTAL / LUS Project ID: 2003-00136 14 MAIN # 6
Attn: PAT MC/AGLAND
for Sample #'s 143455 thru
Final Review Date: 6/12/03 By: (R.J. Laster)
FOR TPH by GC: SAMPLE REQUIRED DILUTION
DUE TO MATRIC INTERFERENCE, DEIGINAL
SAMPLE VOLUME RESORBED ORIGINAL SOLVENT
ALIQUOT, ADDITIONAL SOLVENT NECESSARY.



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

Attn: Client: Pat McCasland Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice

Phone:

(505) 394-3481

FAX: (505) 394-2601

NM 88231

Date Sampled: 05/28/2003 Time: Date Received: Sample Matrix:

06/03/2003

Time:

10:30

Sample Name: SE14M652803BH6-15 **Project ID:** 2003-00136 14 Main #6

soil

Report#/Lab ID#: 143455

Report Date: 06/11/03

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	ASSURA	NCE DAT	' <u>A</u> 1	
Parameter	Result	Units	RQL5	Blank	Date	Method 6	Data Qual. 7	Prec. 2	Prec. 2 Recov. 3 CCV	-	LCS ⁴
TPH by GC (as diesel)	<10	mg/Kg	10	^10	06/09/03	8015 mod.		3.4	77.6	88.9	72
TPH by GC (as diesel-ext)	-	}	i	}	06/06/03	3540	;			ł	!
TPH by GC (as gasoline)	<10	mg/Kg	10	<10	06/09/03	8015 mod.	ļ	0.5	79.4	97	81.1
Volatile organics-8260b/BTEX			1		06/06/03	8260b		-			
Benzene	<20	µg/Кg	20	<20	06/06/03	8260b		2.2	82	82.3	84.4
Ethylbenzene	<20	μg/Kg	20	\$0	06/06/03	8260b	-	0.6	103.1	105.9	102.5
m,p-Xylenes	<20	μg/Kg	20	8	06/06/03	8260b		0.4	107.7	110.8	113.8
o-Xylene	<20	μg/Kg	20	8	06/06/03	8260b	:	9.5	97	109.7	111.9
Toluene	<20	μg/Kg	20	<20	06/06/03	8260b	1	3.4	85.9	86.6	92.2

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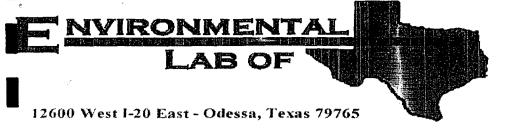
Respectfully Submitted,

Richard Laster

Richard faith

of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte 1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value recovered from a spiked sample.

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



Analytical Report

Prepared for:

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

Project: Vacuum To Jal 14 inch Mainline #6
Project Number: 2003-00135
Location: None Given

Lab Order Number: 4E21005

Report Date: 05/27/04

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

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:
05/27/04 09:49

ANALYTICAL REPORT FOR SAMPLES

SLVJ6514042 4E21005-02 Soil 05/14/04 11:36 05/21/05 SLVJ6514043 4E21005-03 Soil 05/14/04 11:37 05/21/05 SLVJ6514044 4E21005-04 Soil 05/14/04 11:38 05/21/05 SLVJ6518046 4E21005-05 Soil 05/18/04 10:55 05/21/05 SLVJ6518047 4E21005-06 Soil 05/18/04 10:59 05/21/05 SLVJ6518048 4E21005-07 Soil 05/18/04 11:02 05/21/05 SLVJ6518049 4E21005-08 Soil 05/18/04 11:05 05/21/05 SLVJ65180410 4E21005-09 Soil 05/18/04 11:07 05/21/05 SLVJ65180412 4E21005-10 Soil 05/18/04 01:14 05/21/05 SLVJ65180413 4E21005-11 Soil 05/18/04 01:19 05/21/05 SLVJ65180414 4E21005-13 Soil 05/18/04 01:19 05/21/05 SLVJ65200415 4E21005-14 Soil 05/18/04 01:20 05/21/05 SLVJ65200416 4E21005-15 Soil 05/20/04 01:45 05/21/05	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
\$\text{SLV}\$ 4\text{1005} \text{-0.00}\$ \text{Soil} \text{0.05} \text{1.07} \text{0.05} \text{1.13} \text{0.05} \text{0.05} \text{2.00} \text{0.05} \	SLVJ6514041	4E21005-01	Soil	05/14/04 11:35	05/21/04 09:25
SLVJ6514044 4E21005-04 Soil 05/14/04 11:38 05/21/0 SLVJ6518046 4E21005-05 Soil 05/18/04 10:55 05/21/0 SLVJ6518047 4E21005-06 Soil 05/18/04 10:59 05/21/0 SLVJ6518048 4E21005-07 Soil 05/18/04 11:02 05/21/0 SLVJ6518049 4E21005-08 Soil 05/18/04 11:05 05/21/0 SLVJ65180410 4E21005-09 Soil 05/18/04 11:07 05/21/0 SLVJ65180411 4E21005-10 Soil 05/18/04 01:14 05/21/0 SLVJ65180412 4E21005-11 Soil 05/18/04 01:16 05/21/0 SLVJ65180413 4E21005-12 Soil 05/18/04 01:19 05/21/0 SLVJ65180414 4E21005-13 Soil 05/18/04 01:19 05/21/0 SLVJ65180415 4E21005-14 Soil 05/18/04 01:19 05/21/0 SLVJ65200415 4E21005-13 Soil 05/18/04 01:22 05/21/0 SLVJ65200416 4E21005-14 Soil 05/20/04 01:45 05/21/0	SLVJ6514042	4E21005-02	Soil	05/14/04 11:36	05/21/04 09:25
\$\text{SLVJ6518046}\$ \$\text{4E21005-05}\$ \$\text{Soil}\$ \$05/18/04 10:55\$ \$05/21/05 \$\text{SLVJ6518047}\$ \$\text{4E21005-06}\$ \$\text{Soil}\$ \$05/18/04 10:59\$ \$05/21/05 \$\text{SLVJ6518048}\$ \$4E21005-07 \$\text{Soil}\$ \$05/18/04 11:02 \$05/21/05 \$\text{SLVJ6518049}\$ \$4E21005-08 \$\text{Soil}\$ \$05/18/04 11:05 \$05/21/05 \$\text{SLVJ65180410}\$ \$1\text{SLVJ65180410}\$ \$4E21005-09 \$\text{Soil}\$ \$05/18/04 01:07 \$05/21/05 \$\text{SLVJ65180411}\$ \$1\text{SLVJ65180412}\$ \$1\text{SLVJ65180412}\$ \$2\text{SLVJ65180412}\$ \$2\text{SLVJ65180413}\$ \$4\text{S21005-10}\$ \$2\text{Soil}\$ \$05/18/04 01:14 \$05/21/05 \$2\text{SLVJ65180414}\$ \$4\text{S21005-12}\$ \$2\text{Soil}\$ \$05/18/04 01:19 \$05/21/05 \$2\text{SLVJ65180414}\$ \$4\text{S21005-12}\$ \$2\text{Soil}\$ \$05/18/04 01:19 \$05/21/05 \$2\text{SLVJ65180414}\$ \$4\text{S21005-12}\$ \$2\text{Soil}\$ \$05/18/04 01:19 \$05/21/05 \$2\text{SLVJ65200415}\$ \$2\text{SLVJ65200416}\$ \$3\text{S1}\$ \$4\text{S21005-14}\$ \$3\text{Soil}\$ \$05/20/04 01:45 \$05/21/05 \$2\text{SLVJ65200417}\$ \$3\text{SLVJ65200418}\$ \$4\text{S21005-16}\$ \$3\text{Soil}\$ \$05/20/04 02:10 \$05/21/05 \$2\text{SLVJ65200420}\$ \$4\text{S21005-18}\$ \$3\text{Soil}\$ \$05/20/04 02:17 \$05/21/05 \$2\text{SLVJ65200420}\$ \$3\text{SLVJ65200420}\$ \$4\text{S21005-20}\$ \$3\text{Soil}\$ \$05/20/04 02:17 \$05/21/05 \$2\text{SLVJ65200422}\$ \$3\text{S1005-20}\$ \$3S10	SLVJ6514043	4E21005-03	Soil	05/14/04 11:37	05/21/04 09:25
\$\text{SLV}16518047\$ \text{4E2}1005-06 \text{Soil} \text{05/18/04} \text{10:59} \text{05/21/0} \\ \text{SLV}16518048 \text{4E2}1005-07 \text{Soil} \text{05/18/04} \text{11:02} \text{05/21/0} \\ \text{SLV}165180449 \text{4E2}1005-08 \text{Soil} \text{05/18/04} \text{11:05} \text{05/21/0} \\ \text{SLV}165180410 \	SLVJ6514044	4E21005-04	Soil	05/14/04 11:38	05/21/04 09:25
\$\text{SLV}16518048\$ \qquad \qquad \qquad \qquad \qquad \qquad \qqqqq \qqqqq \qqqq \qqqqq	SLVJ6518046	4E21005-05	Soil	05/18/04 10:55	05/21/04 09:25
\$\text{SLVI6518049}\$ \$\text{4E21005-08}\$ \$\text{Soil}\$ \$05/18/04 11:05 \$05/21/0 \$\text{SLVJ65180410}\$ \$\text{4E21005-10}\$ \$\text{Soil}\$ \$05/18/04 01:14 \$05/21/0 \$\text{SLVJ65180412}\$ \$\text{4E21005-11}\$ \$\text{Soil}\$ \$05/18/04 01:14 \$05/21/0 \$\text{SLVJ65180412}\$ \$\text{4E21005-12}\$ \$\text{Soil}\$ \$05/18/04 01:16 \$05/21/0 \$\text{SLVJ65180413}\$ \$\text{4E21005-12}\$ \$\text{Soil}\$ \$05/18/04 01:19 \$05/21/0 \$\text{SLVJ65180414}\$ \$\text{4E21005-13}\$ \$\text{Soil}\$ \$05/18/04 01:22 \$05/21/0 \$\text{SLVJ65200415}\$ \$\text{3E1005-14}\$ \$\text{Soil}\$ \$05/20/04 11:26 \$05/21/0 \$\text{SLVJ65200416}\$ \$\text{4E21005-15}\$ \$\text{Soil}\$ \$05/20/04 01:45 \$05/21/0 \$\text{SLVJ65200417}\$ \$\text{4E21005-16}\$ \$\text{Soil}\$ \$05/20/04 02:10 \$05/21/0 \$\text{SLVJ65200418}\$ \$\text{4E21005-17}\$ \$\text{Soil}\$ \$05/20/04 02:14 \$05/21/0 \$\text{SLVJ65200420}\$ \$\text{4E21005-19}\$ \$\text{Soil}\$ \$05/20/04 02:17 \$\text{05/21/0}\$ \$\text{SLVJ65200420}\$ \$\text{4E21005-20}\$ \$\text{Soil}\$ \$05/20/04 02:00 \$\text{05/21/0}\$ \$\text{SLVJ65200421}\$ \$\text{SLVJ65200422}\$ \$\text{4E21005-21}\$ \$\text{Soil}\$ \$05/20/04 02:00 \$05/21/0 \$\text{SLVJ65200423}\$ \$\text{4E21005-22}\$ \$\text{Soil}\$ \$05/20/04 03:00 \$05/21/0 \$\text{SLVJ65200426}\$ \$\text{3LVJ65200426}\$ \$\text{4E21005-24}\$ \$\text{Soil}\$ \$05/20/04 03:20 \$05/21/0 \$\text{SLVJ65200426}\$ \$\text{SLVJ65200426}\$ \$\text{5LVJ65200426}\$ \$\text{5SlVJ65200426}\$ \$5SlVJ65200	SLVJ6518047	4E21005-06	Soil	05/18/04 10:59	05/21/04 09:25
\$\text{SLVJ65180410}\$ \$\text{SLVJ65180411}\$ \$\text{4E21005-10}\$ \$\text{Soil}\$ \$05/18/04 01:14 05/21/0 \$\text{SLVJ65180412}\$ \$\text{4E21005-11}\$ \$\text{Soil}\$ \$05/18/04 01:16 05/21/0 \$\text{SLVJ65180413}\$ \$\text{4E21005-12}\$ \$\text{Soil}\$ \$05/18/04 01:19 05/21/0 \$\text{SLVJ65180414}\$ \$\text{4E21005-12}\$ \$\text{Soil}\$ \$05/18/04 01:19 05/21/0 \$\text{SLVJ65200415}\$ \$\text{3EVJ65200415}\$ \$\text{4E21005-13}\$ \$\text{Soil}\$ \$05/20/04 01:22 05/21/0 \$\text{SLVJ65200416}\$ \$\text{SLVJ65200416}\$ \$\text{3EVJ65200416}\$ \$\text{3EVJ65200417}\$ \$\text{3EVJ65200418}\$ \$\text{4E21005-15}\$ \$\text{Soil}\$ \$05/20/04 02:10 05/21/0 \$\text{SLVJ65200419}\$ \$\text{3EVJ65200419}\$ \$\text{4E21005-17}\$ \$\text{Soil}\$ \$05/20/04 02:14 05/21/0 \$\text{SLVJ65200420}\$ \$\text{3EVJ65200420}\$ \$\text{3EVJ65200421}\$ \$\text{3EVJ65200421}\$ \$\text{3EVJ65200422}\$ \$\text{4E21005-19}\$ \$\text{Soil}\$ \$05/20/04 02:20 05/21/0 \$\text{3EVJ65200422}\$ \$\text{3EVJ65200422}\$ \$\text{4E21005-21}\$ \$\text{Soil}\$ \$05/20/04 02:50 05/21/0 \$\text{3EVJ65200423}\$ \$\text{3EVJ65200424}\$ \$\text{4E21005-22}\$ \$\text{Soil}\$ \$05/20/04 03:00 05/21/0 \$\text{3EVJ65200425}\$ \$\text{3EVJ65200426}\$	SLVJ6518048	4E21005-07	Soil	05/18/04 11:02	05/21/04 09:25
\$\text{SLV}\$\text{15180411}\$ \qquad \text{4E21005-10} \qquad \text{Soil} \qquad \text{05/18/04 01:14} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165180412}\$ \qquad \text{4E21005-11} \qquad \text{Soil} \qquad \text{05/18/04 01:16} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165180413}\$ \qquad \text{4E21005-12} \qquad \text{Soil} \qquad \text{05/18/04 01:19} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165180414}\$ \qquad \text{4E21005-13} \qquad \text{Soil} \qquad \text{05/18/04 01:22} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165200415}\$ \qquad \text{4E21005-14} \qquad \text{Soil} \qquad \text{05/20/04 01:45} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165200416}\$ \qquad \text{4E21005-15} \qquad \text{Soil} \qquad \text{05/20/04 02:10} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165200417}\$ \qquad \text{4E21005-16} \qquad \text{Soil} \qquad \text{05/20/04 02:10} \qquad \text{05/21/0} \\ \text{SLV}\$\text{165200419}\$ \qquad \qquad \text{4E21005-17} \qquad \text{Soil} \qquad \qquad \text{05/20/04 02:17} \qquad \qquad \text{05/21/0} \\ \text{SLV}\$\text{165200420}\$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqqq\qqq\qqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqqq	SLVJ6518049	4E21005-08	Soil	05/18/04 11:05	05/21/04 09:25
\$\text{SLV}165180412 4E21005-11 \text{Soil} \text{05/18/04} \text{01:16} \text{05/21/0} \\ \text{SLV}165180413 \text{4E21005-12} \text{Soil} \text{05/18/04} \text{01:19} \text{05/21/0} \\ \text{SLV}165180414 \text{4E21005-13} \text{Soil} \text{05/20/04} \text{01:22} \text{05/21/0} \\ \text{SLV}165200415 \text{4E21005-14} \text{Soil} \text{05/20/04} \qu	SLVJ65180410	4E21005-09	Soil	05/18/04 11:07	05/21/04 09:25
\$\text{SLV}165180413\$ \qquad \text{4E2}1005-12 \qquad \text{Soil} \qquad \text{05}/18/04 \text{01:19} \qquad \text{05}/21/0 \qquad \text{SLV}165180414 \qquad \text{4E2}1005-13 \qquad \text{Soil} \qquad \text{05}/18/04 \qquad \text{01:22} \qquad \text{05}/21/0 \qquad \text{SLV}165200415 \qquad \text{4E2}1005-14 \qquad \text{Soil} \qquad \text{05}/20/04 \qquad \text{01:45} \qquad \text{05}/21/0 \qquad \text{SLV}165200416 \qquad \text{4E2}1005-15 \qquad \text{Soil} \qquad \text{05}/20/04 \qquad \text{02:10} \qquad \text{05}/21/0 \qquad \text{SLV}165200417 \qquad \text{SLV}165200418 \qquad \text{4E2}1005-17 \qquad \text{Soil} \qquad \text{05}/20/04 \qquad \text{02:14} \qquad \text{05}/21/0 \qquad \text{SLV}165200419 \qqquad \qquad \text{4E2}1005-18 \qqqqq \qquad \qquad \qquad \text{05}/21/0 \qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq	SLVJ65180411	4E21005-10	Soil	05/18/04 01:14	05/21/04 09:25
SLVJ65180414 4E21005-13 Soil 05/18/04 01:22 05/21/0 SLVJ65200415 4E21005-14 Soil 05/20/04 11:26 05/21/0 SLVJ65200416 4E21005-15 Soil 05/20/04 01:45 05/21/0 SLVJ65200417 4E21005-16 Soil 05/20/04 02:10 05/21/0 SLVJ65200418 4E21005-17 Soil 05/20/04 02:14 05/21/0 SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65180412	4E21005-11	Soil	05/18/04 01:16	05/21/04 09:25
SLVJ65200415 4E21005-14 Soil 05/20/04 11:26 05/21/0 SLVJ65200416 4E21005-15 Soil 05/20/04 01:45 05/21/0 SLVJ65200417 4E21005-16 Soil 05/20/04 02:10 05/21/0 SLVJ65200418 4E21005-17 Soil 05/20/04 02:14 05/21/0 SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65180413	4E21005-12	Soil	05/18/04 01:19	05/21/04 09:25
SLVJ65200416 4E21005-15 Soil 05/20/04 01:45 05/21/0 SLVJ65200417 4E21005-16 Soil 05/20/04 02:10 05/21/0 SLVJ65200418 4E21005-17 Soil 05/20/04 02:14 05/21/0 SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65180414	4E21005-13	Soil	05/18/04 01:22	05/21/04 09:25
SLVJ65200417 4E21005-16 Soil 05/20/04 02:10 05/21/0 SLVJ65200418 4E21005-17 Soil 05/20/04 02:14 05/21/0 SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200415	4E21005-14	Soil	05/20/04 11:26	05/21/04 09:25
SLVJ65200418 4E21005-17 Soil 05/20/04 02:14 05/21/0 SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200416	4E21005-15	Soil	05/20/04 01:45	05/21/04 09:25
SLVJ65200419 4E21005-18 Soil 05/20/04 02:17 05/21/0 SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200417	4E21005-16	Soil	05/20/04 02:10	05/21/04 09:25
SLVJ65200420 4E21005-19 Soil 05/20/04 02:20 05/21/0 SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200418	4E21005-17	Soil	05/20/04 02:14	05/21/04 09:25
SLVJ65200421 4E21005-20 Soil 05/20/04 02:40 05/21/0 SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200419	4E21005-18	Soil	05/20/04 02:17	05/21/04 09:25
SLVJ65200422 4E21005-21 Soil 05/20/04 02:50 05/21/0 SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200420	4E21005-19	Soil	05/20/04 02:20	05/21/04 09:25
SLVJ65200423 4E21005-22 Soil 05/20/04 03:00 05/21/0 SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200421	4E21005-20	Soil	05/20/04 02:40	05/21/04 09:25
SLVJ65200424 4E21005-23 Soil 05/20/04 03:10 05/21/0 SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200422	4E21005-21	Soil	05/20/04 02:50	05/21/04 09:25
SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200423	4E21005-22	Soil	05/20/04 03:00	05/21/04 09:25
SLVJ65200425 4E21005-24 Soil 05/20/04 03:20 05/21/0 SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200424	4E21005-23	- Soil	05/20/04 03:10	05/21/04 09:25
SLVJ65200426 4E21005-25 Soil 05/20/04 03:30 05/21/0	SLVJ65200425	4E21005-24	Soil	05/20/04 03:20	05/21/04 09:25
SLV165200427 AF21005.26 Soil 05/20/04.03:40 05/21/0	SLVJ65200426	4E21005-25		05/20/04 03:30	05/21/04 09:25
SE V 103200427 4E21003-20 Son 03/20/04 03:40 03/21/0	SLVJ65200427	4E21005-26	Soil	05/20/04 03:40	05/21/04 09:25

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
SLVJ6514041 (4E21005-01) Soil						•			
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Coluene	ND	0.0250	n	11	•	н	n	**	
Ethylbenzene	0.158	0.0250	n	n	п	н	tr	n	
¥ylene (p/m)	0.608	0.0250	и	Ħ	**	n	u	n	
ylene (o)	0.304	0.0250	#	n	н	"	n	IJ	
Surrogate: a,a,a-Trifluorotoluene		81.0 %	80-1	20	,,	"	"	n	
urrogate: 4-Bromofluorobenzene		80.4 %	80-1	20	"	n	"	"	
asoline Range Organics C6-C12	440	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	2570	10.0	ti	n	н	11	n	**	
tal Hydrocarbon C6-C35	3010	10.0	н		H	n	"	H	
rrogate: 1-Chlorooctane		107 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-1	30	"	"	"	"	
.VJ6514042 (4E21005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/21/04	EPA 8021B	
luene	ND	0.0250	n	n	n	n	n	н	
nylbenzene	ND	0.0250	11	n	n	н	H	Ħ	
Xylene (p/m)	ND	0.0250	**	**	H	"	11	rs .	
lene (o)	ND	0.0250	"	H	n .	11	"	N	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	80-1	20	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	80-1	20	"	"	"	"	
soline Range Organics C6-C12	ND	10.0	mg/kg dry	1 ~	EE42102	05/21/04	05/23/04	EPA 8015M	
Sel Range Organics >C12-C35	ND	10.0	Ħ	н	11	11	**	u	
Total Hydrocarbon C6-C35	ND	10.0	10	"		**	. "	n	•
rogate: 1-Chlorooctane		93.8 %	70-1	30	и	11	11	11	
Surrogate: 1-Chlorooctadecane		98.2 %	70-1	30	"	"	"	"	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

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		Reporting	 -						
Analyte	Result	Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
SLVJ6514043 (4E21005-03) Soil	 	····		····-					91 E 11 , 1
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/21/04	EPA 8021B	
Toluene	ND	0.0250	n	tt	a,	*	**	#	
Ethylbenzene	ND	0.0250	11	n	n,	11	n	n	
Xylene (p/m)	ND	0.0250	n	**	n,	n :	н	11	•
Xylene (o)	ND	0.0250	b	"	, w	и ".	IF	n	٠.
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-12	20	n 3	n	"	n '-	* 1
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1 .	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.19]	10.0	n		11	**	н	· n	J
Total Hydrocarbon C6-C35	ND	10.0	n		,•	W	#	Ħ,	
Surrogate: 1-Chlorooctane		90.2 %	70-13	30		"	"	<i>"</i>	
Surrogate: 1-Chlorooctadecane		94.6 %	70-13	80	# `	"	"	"	
SLVJ6514044 (4E21005-04) Soil									*****
Benzene	·ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/21/04	EPA 8021B	
Toluene	ND	0.0250	n	**	и , '		n	и	
Ethylbenzene	ND	0.0250	n ·	н	u ,	ti .	v	. "	•
Xylene (p/m)	ND	0.0250	lt.	o '	и.	"		11	
Xylene (o)	ND	0.0250	0	•	H .	n (,	#	H	
Surrogate: a,a,a-Trifluorotoluene		84.1 %	80-12	0	n ·	,,	"	· "	
Surrogate: 4-Bromofluorobenzene		80.4 %	80-12	0	"	"	"	<i>n</i> .	141
Gasoline Range Organics C6-C12	. ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	• • •
Diesel Range Organics >C12-C35	ND	10.0	**	n	ii	H		: n ^	
Total Hydrocarbon C6-C35	ND	10.0	H	n			. "	**	
Surrogate: 1-Chlorooctane		86.2 %	70-13	0 .:	, n,	"	"	<i>n</i> :.	
Surrogate: 1-Chlorooctadecane		91.4 %	70-13	0	, n , ,	n	"	n 12	•

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

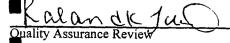
Reported: 05/27/04 09:49

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SLVJ6518046 (4E21005-05) Soil			- ,						
Benzene	0.177	0.0250	mg/kg dry	25	EE42501	05/21/04	05/21/04	EPA 8021B	
Foluene	1.72	0.0250		11	H	#	"	**	
Ethylbenzene	4.16	0.0250	**	Ir	н	91	u	н	
Xylene (p/m)	7.90	0.0250	n	**		#	"	н	
Kylene (0)	2.68	0.0250	**	H.	11	Ħ	10	i r	
Surrogate: a,a,a-Trifluorotoluene		208 %	80-1	20	n	n	"	"	S-04
Surrogate: 4-Bromofluorobenzene		85.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	338	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	790	10.0	It	**	n	H	Ħ	H	
Total Hydrocarbon C6-C35	1130	10.0	n	н	н	11	11	#	
urrogate: 1-Chlorooctane		109 %	70-1	30	"	,,	"	<i>n</i>	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	"	"	"	"	
LVJ6518047 (4E21005-06) Soil									
Benzene	2.13	0.100	mg/kg dry	100	EE42501	05/21/04	05/21/04	EPA 8021B	
oluene	19.2	0.100	n	"	•	"	н	n	
thylbenzene	26.8	0.100	**	n	0	н	n	Ħ	
Xylene (p/m)	48.1	0.100	11	#	#	"	n	**	
ylene (o)	19.0	0.100	"	Ħ	11	tt	**	**	
urrogate: a,a,a-Trifluorotoluene		364 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		92.8 %	80-1	20	**	**	**	"	
asoline Range Organics C6-C12	1350	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
esel Range Organics >C12-C35	2790	10.0	n	и	n	н	п	n	
Total Hydrocarbon C6-C35	4140	10.0	"	*		и	, n	**	
rrogate: 1-Chlorooctane	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	126 %	70-1	30	"	n	"	"	
Sarrogate: 1-Chlorooctadecane		128 %	70-1	30	п	**	**	"	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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	•			Reporting	-		2.1.5		*.4	• . •	
Analyte		Result	d t	Limit	Units	Dilutio	on Batch	Prepared	Analyzed	Method	Notes
SLVJ6518048 (4E21005-	07) Soil								- 1. 2		_ `` _ ``
Benzene		1.36		0.100	mg/kg dry	100	EE42501	05/21/04	05/21/04	EPA 8021B	
Toluene		13.6		0.100	"	n	, u . i :	н .	, 11	u	
Ethylbenzene		20.8		0.100	"	#	и	11	ıı	н	
Xylene (p/m)		36.9		0.100	"	11	ń.		11	Ħ	
Xylene (o)		13.4		0.100	*	w	11	u		"	7
Surrogate: a,a,a-Trifluoro	toluene		,	292 %	80-	120	n 📜	"	"	"	S-04
Surrogate: 4-Bromofluoro				88.7 %	80-	120	s #	"	"	, " " ", " ,	1 1 ×
Gasoline Range Organics	s C6-C12	3600		50.0	mg/kg dry	5 ×	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >	C12-C35	15100		50.0	Ħ	**	'n	и	n	% - # ∫ /	
Total Hydrocarbon C6-C	35	18700		50.0	Ħ	81,	#	11	H	.44	13.00
Surrogate: 1-Chlorooctan	e ·		;	30.6 %	70-1	30	<i>"</i>	"	"	"	S-06
Surrogate: 1-Chlorooctade				58.8 %	70-1	30	#* **	"	"	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	S-06
SLVJ6518049 (4E21005-	08) Soil									9 - 1 - 63	* ,*
Benzene		ND		0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Toluene		ND		0.0250	Ħ	**	: 10	Ħ	**	**	
Ethylbenzene		ND		0.0250	н	11	n,	n		**	
Xylene (p/m)		ND		0.0250		17	Ħ	**			3.5
Xylene (o)		ND		0.0250	н,	**	n				
Surrogate: a,a,a-Trifluoro	toluene			85.4 %	80-1	20	, ~	"	,,	, in	
Surrogate: 4-Bromofluoro	benzene			80.5 %	80-1	20	."	"	"	, (#	or the second
Gasoline Range Organics (C6-C12	ND	,;; t	10.0	mg/kg dry	- 1	EE42102	05/21/04	05/23/04	EPA.8015M	
Diesel Range Organics >C		ND		10.0	H	**	, n	*	. "	. "	
Total Hydrocarbon C6-C3:	5	ND		10.0	**	n	H.			и ,	
Surrogate: I-Chlorooctane	 ?		- .	87.0 %	70-1	30	"("	"	<i>#</i> :	V-1
Surrogate: 1-Chlorooctade				91.2 %	70-1	30	" , s	,,	n	, 17	7.

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05/27/04 09:49

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LVJ65180410 (4E21005-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Coluene	0.0435	0.0250		11	n	H	н	н	
Ethylbenzene	0.117	0.0250	n	u	**	w	19	п	
Xylene (p/m)	0.242	0.0250	11	н	"	H		"	
(ylene (o)	0.0925	0.0250	#	#	ır	n	11	**	
surrogate: a,a,a-Trifluorotoluene		85.4 %	80-1	20	,,	,,	"	"	
Surrogate: 4-Bromofluorobenzene		81.6 %	80-1	20	"	"	<i>n</i> ·	n .	
asoline Range Organics C6-C12	136	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	2130	10.0	ņ	**	#	n	n	11	
Total Hydrocarbon C6-C35	2270	10.0	u	"	ii .	11	"	**	
urrogate: 1-Chlorooctane		97.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-1	30	"	"	"	"	
LVJ65180411 (4E21005-10) Soil									
Benzene	0.192	0.100	mg/kg dry	100	EE42501	05/21/04	05/21/04	EPA 8021B	
T oluene	1.06	0.100	n	•	11	п	"	**	
thylbenzene	2.24	0.100	"	11	11	n	N	**	
Xylene (p/m)	4.68	0.100	н	n	n	n	n	n	
Yylene (o)	1.69	0.100	н	и	н	н	11	u .	
rrogate: a,a,a-Trifluorotoluene		119 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		89.8 %	80-1	20	"	"	"	"	
asoline Range Organics C6-C12	812	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
esel Range Organics >C12-C35	5820	10.0	H		н	tt	*	n	
Total Hydrocarbon C6-C35	6630	10.0	n		"	19	. 11	n	
rrogate: 1-Chlorooctane		114 %	70-1	30	"	"	"	"	
rrogate: 1-Chlorooctadecane		154 %	70-1	20	,,	"	,,	"	S-04

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC Environmental Lab of Texas

Analyte	Result	, 1	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
SLVJ65180412 (4E21005-11) Soi									11. j. 5. j. 1	7.7
Benzene a sage a	Notice ND to	1.77.3	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Toluene	ND		0.0250	₩.	•	, · · · · .		,	#	
Ethylbenzene	ND	.1	0.0250	*	**	. m	π	#		* V4
Xylene (p/m)	ND		0.0250	n	Ħ		Ħ	. н	•	``.
Xylene (o)	ND		0.0250	n	Ħ	, .	**	1 1 1 m	H	* · · ·
Surrogate: a,a,a-Trifluorotoluene			84.5 %	80-12	20 :	·n	"	"	" ",	<u> </u>
Surrogate: 4-Bromofluorobenzene			86.0 %	80-12	20	^# ,	"	"	1 . n . 1 . 2 . 1	William !
Gasoline Range Organics C6-C12	ND ND	- 1:VM	10,0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	J [6.81]		10.0		4	911	п	F	18 J. W. S. 185.	
Total Hydrocarbon C6-C35	ND		10.0	H	**	• ;			H	2.5
Surrogate: 1-Chlorooctane			89.2 %	70-13	30	".	n	"	n	
Surrogate: 1-Chlorooctadecane	4		90.8 %	70-13	30 .	. "	"	"	n ,	* • • • • •
SLVJ65180413 (4E21005-12) Soil									13 7 . A 1 (1)	As a second
Benzene	ND ND	2 - C.E.	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Toluene	ND		0.0250	**	Ħ	· H	**		*	
Ethylbenzene	ND	,	0.0250	**	₩ -	, n		. "	**	,
Xylene (p/m)	ND		0.0250		tr	. *		. "		
Xylene (o)	ND		0.0250	n	*	, и .	Ħ	. H	*	
Surrogate: a,a,a-Trifluorotoluene			84.7 %	80-12	20	n ; e	"	"	, n ,	
Surrogate: 4-Bromofluorobenzene	•		84.5 %	80-12	?O ·	, "	"	"	"	gete g
Gasoline Range Organics C6-C12	in a ND :		10.0	mg/kg dry	1	EE42102	05/21/04	. 05/23/04	EPA 8015M	23 to 1
Diesel Range Organics >C12-C35	J [7.93]		10.0	**	*	, н ,		11	Market Comment	$(p_{ij}, p_{ij}) = \mathbf{J}_{ij}$
Total Hydrocarbon C6-C35	ND		10.0	H .,	•		n		# ₁	
Surrogate: 1-Chlorooctane	1	- ,	82.4 %	70-13	80	.11	"	n	n ,	
Surrogate: 1-Chlorooctadecane			83.4 %	70-13	80	# 2	"	"	: " - 35	$Q \in \mathcal{M}_{p} \subset Q$

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LVJ65180414 (4E21005-13) Soil									
Benzene	J [0.0184]	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
oluene	0.143	0.0250	H	н	"	n	11	H	
Lthylbenzene	0.358	0.0250		**	"	и	19	"	
Xylene (p/m)	0.733	0.0250	"	н		. #	11	n	
ylene (o)	0.234	0.0250	"	н	н	n	W	u	
Surrogate: a,a,a-Trifluorotoluene		86.7 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.3 %	80-1	20	"	"	"	"	
asoline Range Organics C6-C12	129	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	1310	10.0	11	"	n	н	"	n	
Total Hydrocarbon C6-C35	1440	10.0	н	n	11		*	N	
urrogate: 1-Chlorooctane		100 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-1	30	"	n	"	, "	
LVJ65200415 (4E21005-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/23/04	EPA 8021B	
Toluene	ND	0.0250	n	"	n	n	**	Ħ	
hylbenzene	ND	0.0250	**	IT	H	п		Ħ	
Xylene (p/m)	ND	0.0250	Ħ	n	11	n		n	
Yylene (o)	ND	0.0250	H	74	•	"	"	"	
urrogate: a,a,a-Trifluorotoluene		84.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-1.	20	"	"	"	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
iesel Range Organics >C12-C35	ND	10.0	n	17	и	n	н	19	
Total Hydrocarbon C6-C35	ND	10.0	•	# -	. 11	U	, n	19	
urrogate: 1-Chlorooctane		82.0 %	70-1	30	,,	"	"	,,	
urrogate: 1-Chlorooctadecane		84.6 %	70-1	30	"	"	"	"	

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Quality Assurance Review

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	n Batch	Prepared	Analyzed	Method	Notes
SLVJ65200416 (4E21005-15) Soil	Name of the State								
Benzene	ND-	0.0250	mg/kg dry	- 25	EE42501	05/21/04		EPA 8021B	
Toluene	EDVISOR ND CONTRACT	0.0250	. "	н	n	n	·	W	34.
Ethylbenzene	ND	0.0250	H		n	10		u	
Xylene (p/m)	ND	0.0250	n	"	п	n		n	
Xylene (o)	ND	0.0250		#	T _m 6	n	н	н	
Surrogate: a,a,a-Trifluorotoluene		82.6 %	80-12	0	"	,"	, ,,	<i>"</i> .	
Surrogate: 4-Bromofluorobenzene		82.9 %	80-12	0	"	"	, .	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	egis on Soliton
Diesel Range Organics >C12-C35	ND	10.0		. H 2	11) n	•	ıı	al peri <mark>e</mark> r or o	the said of
Total Hydrocarbon C6-C35	ND	10.0	n .	H	н	н	e		
Surrogate: 1-Chlorooctane		91.6%	70-13)	"	. "		,,	
Surrogate: 1-Chlorooctadecane		93.6 %	70-13)	"	"	,,	, "	
SLVJ65200417 (4E21005-16) Soil			ţ.;	·					
Benzene	0.204	0.100	mg/kg dry	100	EE42501	05/21/04	05/23/04	EPA 8021B	
Toluene	0.816	0.100	н *	11		•		Ħ	
Ethylbenzene	1.61	0.100	II .	H	H	Ħ	; #	Ħ	
Xylene (p/m)	3.23	0.100		н		H	H	н	
Xylene (o)	1.22	0.100			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	If	H	u	
Surrogate: a,a,a-Trifluorotoluene		115%	80-120)		" .		"	
Surrogate: 4-Bromofluorobenzene	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	89.6 %	80-120)	" .	"	"		
Gasoline Range Organics C6-C12	255	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	Service Size
Diesel Range Organics >C12-C35	1620	10.0					н	н	
Total Hydrocarbon C6-C35	1880	10.0	w ,'		#	H	. "	n	tabo i Sado da. G
Surrogate: 1-Chlorooctane		118 %	70-130)	"	" .	. "	, , , , ,	
Surrogate: 1-Chlorooctadecane	•	126 %	70-130) ` .	,,	"	"	n 11 - 1	and the state

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Quality Assurance Review

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:
05/27/04 09:49

Organics by GC Environmental Lab of Texas

		Reporting			·		w.u		· · - · · · · · · · · · · · · · · ·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SLVJ65200418 (4E21005-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/24/04	EPA 8021B	
Foluene	ND	0.0250	Ħ	N	и	"	**	п	
Ethylbenzene	ND	0.0250	11	11	n	и.	ıı	и	
Xylene (p/m)	ND	0.0250	n	R.	н	Ħ	11	17	
Kylene (o)	ND	0.0250	n		'n	#	ù	10	
Surrogate: a,a,a-Trifluorotoluene		81.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	.80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	и	11	n	11	n	n	
Total Hydrocarbon C6-C35	ND	10.0	n	11	Ħ	н	II .	н	
urrogate: 1-Chlorooctane		97.6 %	70-1	30	"	"	"	tt.	
Surrogate: 1-Chlorooctadecane		104 %	70-1	30	"	"	"	n	
-									
LVJ65200419 (4E21005-18) Soil								<u></u>	
Benzene	ND	0.0250	mg/kg dry	25	EE42501	05/21/04	05/24/04	EPA 8021B	
Toluene	ND	0.0250	н	"	10	н			
thylbenzene	ND	0.0250	n	"	H	17	"	10	
Xylene (p/m)	ND	0.0250	**	"	n	H	11	н	
Yylene (o)	ND	0.0250	n	"	11	и	11	n	
urrogate: a,a,a-Trifluorotoluene		81.3 %	80-1	20	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-1	20	н	ŧt.	**	**	
Casoline Range Organics C6-C12	ND	10.0	mg/kg dry	1 -	EE42102	05/21/04	05/23/04	EPA 8015M	
iesel Range Organics >C12-C35	ND	10.0	н	Ħ	11	•	**	и	,
Total Hydrocarbon C6-C35	ND	10.0	19	#		11	3 11	н	
urrogate: 1-Chlorooctane		81.4 %	70-1	30	"	"		**	
ırrogate: 1-Chlorooctadecane		86.6 %	70-1	30	"	"	"	n	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Note
SLVJ65200420 (4E21005-19) Soil		,		-	••.				
Benzene	0.0341	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	
Toluene	0.0658	0.0250	."		, « .	n ,	•	11	
Ethylbenzene	0.0609	0.0250	u		, n	11	**	**	V
Xylene (p/m)	0.167	0.0250		"	и, -	"		и	
Xylene (o)	0.0331	0.0250		n	€ *	" .	,,	"	
Surrogate: a,a,a-Trifluorotoluene		88.3 %	80-120		,in	"	"	"	7
Surrogate: 4-Bromofluorobenzene		81.4 %	80-120		. " ,	"	"	. "	way a second
Gasoline Range Organics C6-C12	18.6	10.0	mg/kg dry	11	EE42102	05/21/04	05/23/04	EPA 8015M	1,718
Diesel Range Organics >C12-C35	392	10.0						, "	
Total Hydrocarbon C6-C35	411	10.0	a	**	, n	11		#	
Surrogate: 1-Chlorooctane		90.6 %	70-130		"	, ,	"	"	
Surrogate: 1-Chlorooctadecane		98.0 %	70-130			"	"	а " ,	er en ger
SLVJ65200421 (4E21005-20) Soil									
Benzene	· · · · · · · · · · · · · · · · · · ·	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	farti
Toluene	ND	0.0250	mg/kg ury	. 25 🔠	,EE42304 "	03/24/04	U3/24/U4 "	EPA 8021B	
Ethylbenzene	ND . ND	0.0250	II .	н	-	*		u	
Xylene (p/m)	ND ND	0.0250	n				H		2.00
Xylene (o)	ND ND	0.0250			(C) 1 1	1 ,	Ħ	"	* y.
	ND	81.9.%	80-120			· "			
Surrogate: a,a,a-Trifluorotoluene				. ,					
Surrogate: 4-Bromofluorobenzene		85.7 %	80-120		PE40100	05/21/04	05/23/04	EPA 8015M	
Gasoline Range Organics C6-C12	ND		mg/kg dry	,1,	EE42102	03/21/04	U3/23/U4	ELW ON DIM	
Diesel Range Organics >C12-C35	J [5.59]	10.0	w	# . #	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	П , 1 -	"		ig to the second
Total Hydrocarbon C6-C35	ND	10.0	50 .c.		<u> 53 </u>		; • "		*.
Surrogate: 1-Chlorooctane		102 %	70-130			"	,,		,
Surrogate: I-Chlorooctadecane		96.8 %	70-130		" .	"	n	"	18.7

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:
05/27/04 09:49

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LVJ65200422 (4E21005-21) Soil		·					· · · · · · · · · · · · · · · · · · ·		
Benzene	ND	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	
Toluene	ND	0.0250	**	н	11	"		н	
thylbenzene	ND	0.0250	"	н	н	11	u	11	
Xylene (p/m)	ND	0.0250	H	11	н	IF.	10	11	
(ylene (o)	ND	0.0250	"	**	11		11	Ħ	
Surrogate: a,a,a-Trifluorotoluene		82.4 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-1	20	"	"	"	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
iesel Range Organics >C12-C35	ND	10.0	H	n ·	н	н	11	11	
Total Hydrocarbon C6-C35	ND	10.0		**	**	n		11	
urrogate: 1-Chlorooctane		88.8 %	70-1	30	"	n.	"	"	
Surrogate: 1-Chlorooctadecane		96.2 %	70-1	30	" .	"	"	"	
LVJ65200423 (4E21005-22) Soil	ND	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	
Toluene	ND	0.0250	"	H	11	U3124104	11	n	
thylbenzene	ND	0.0250	31	u	11	11	n	*	
Xylene (p/m)	ND	0.0250	H	**	H	и	11	**	
Xylene (o)	ND	0.0250	11	**	u	"	11	"	
urrogate: a,a,a-Trifluorotoluene		82.7 %	80-1.	20	"	"		"	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-1.	20	"	n	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
iesel Range Organics >C12-C35	42.8	10.0	11	н	н	н	н	•	
Total Hydrocarbon C6-C35	42.8	10.0	11	" -	н		. "	n	
turrogate: 1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	104 %	70-1.	30	"	"	"	,,	
rrogate: 1-Chlorooctadecane		105 %	70-1.	30	**	"	"	"	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC **Environmental Lab of Texas**

<u> </u>		<u> </u>			_ :				
Analyte	Result	Reporting Limit		Dilution	n Batch	Prepared	Analyzed	Method	Note
SLVJ65200424 (4E21005-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	pr - 1 M A
Toluene	ND	0.0250			i i		**	•	
Ethylbenzene	ND	0.0250		. 11		H .	,,	"	
Xylene (p/m)	ND	0.0250	II .		` #		0	н	•
Xylene (o)	ND	0.0250	u .	•	H	"	H	H	
Surrogate: a,a,a-Trifluorotoluene		81.4%	80-12	20	, n	. п	"	,,	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-12	20.	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42102	05/21/04	05/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND IA	10.0	; #	н		H .			
Total Hydrocarbon C6-C35	ND	10.0	11	н	H	n .	n	n	
Surrogate: 1-Chlorooctane		95.6%	70-13	0	"	н .	"	n	
Surrogate: 1-Chlorooctadecane		100 %	70-13	0	,,	"	"	# ***	
SLVJ65200425 (4E21005-24) Soil								n er ser	
Benzene	· - ND · · · · · · · · ·	0.0250	mg/kg dry	25	EE42504	05/24/04	05/25/04	EPA 8021B	
Toluene	ND	0.0250	TP .	11	#	H 2.11	*	n	
Ethylbenzene	ND	0.0250	н .		, ,		n ,	10	
Xylene (p/m)	ND	0.0250	*	Ħ		н	n		•
Xylene (o)	ND	0.0250	н	н .	ů '		H	н	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-12	0	. "	n	. "	"	
Surrogate: 4-Bromofluorobenzene	•	96.0 %	80-12	0	,	,,	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42103	05/24/04	05/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0				н	*		
Total Hydrocarbon C6-C35	ND	10.0		н "			. "		
Surrogate: 1-Chlorooctane		83.2 %	70-13	0	. "	" ,	. #	. "	
Surrogate: 1-Chlorooctadecane	•	93.4 %	70-13	ō`		"	#	,,	

Environmental Lab of Texas

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC Environmental Lab of Texas

		Reporting			<u> </u>		*:	:	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LVJ65200426 (4E21005-25) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	
oluene	ND	0.0250	Ħ	**		.,	н	H	
Ethylbenzene	ND	0.0250	**	10	Ħ	tt.	"	H	
Xylene (p/m)	ND	0.0250	11	n,	"	n	11	U	
ylene (o)	ND	0.0250	11	•	n	11	n	11	
Surrogate: a,a,a-Trifluorotoluene		81.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.9 %	80-1	20	"	"	"	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42103	05/24/04	05/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	91.0	10.0	11	u	н	н	11	"	
Cotal Hydrocarbon C6-C35	91.0	10.0	n	**	11	11	11	и	
ırrogate: 1-Chlorooctane		89.4 %	70-1.	30	"	"	"	,,	
Surrogate: 1-Chlorooctadecane		97.8 %	70-1.	30	"	"	"	"	
LVJ65200427 (4E21005-26) Soil					•				
Benzene	ND	0.0250	mg/kg dry	25	EE42504	05/24/04	05/24/04	EPA 8021B	
Epluene	ND	0.0250	ti	**	11	u	**	н	
hylbenzene	ND	0.0250	11	н	n	#1	n	и	
Xylene (p/m)	ND	0.0250	n	11	P	0	11	н	
vlene (o)	ND	0.0250	n	,,	0	n	11	п	
rrogate: a,a,a-Trifluorotoluene		81.1 %	80-12	20	,,	"	"	n	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-12	20	"	"	"	rr .	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42103	05/24/04	05/24/04	EPA 8015M	
esel Range Organics >C12-C35	ND	10.0	**	#	п	**	n	11	
Total Hydrocarbon C6-C35	ND	10.0	*	"		"	э н	N	
rrogate: 1-Chlorooctane	-	89.6 %	70-1.	30	,,	"	"	"	
rrogate: 1-Chlorooctadecane		101 %	70-1.	30	11	**	· n	н	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 05/27/04 09:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SLVJ6514041 (4E21005-01) Soil					······································				
% Solids	94.0		%	. 1	EE42402	05/21/04	05/21/04	% calculation	,
SLVJ6514042 (4E21005-02) Soil	6			4	* :				
% Solids	94.0	:	%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ6514043 (4E21005-03) Soil					<i>e</i>		• •		
% Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ6514044 (4E21005-04) Soil	W	Contract to		ŧ	•	,		*	
% Solids	91.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ6518046 (4E21005-05) Soil									era e de la companya de la companya de la companya de la companya de la companya de la companya de la companya
% Solids	89.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ6518047 (4E21005-06) Soil	a a								
% Solids	89.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ6518048 (4E21005-07) Soil					• •		Ý		. ,
% Solids	95.0	,	%	1 ·	EE42402	. 05/21/04	05/21/04	% calculation	
SLVJ6518049 (4E21005-08) Soil				r	•				5
% Solids	98.0	the second	%	, 1	EE42402	05/21/04	05/21/04	% calculation	2 D T 1
SLVJ65180410 (4E21005-09) Soil				-		1			
% Solids	97.0	. ,	%	· , , , 1;	EE42402	05/21/04	05/21/04	% calculation	3 m - 11

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:

05/27/04 09:49

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

		Reporting					<i>F :</i>	:	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
LVJ65180411 (4E21005-10) Soil									
% Solids	96.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
LVJ65180412 (4E21005-11) Soil									
% Solids	88.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65180413 (4E21005-12) Soil									
% Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	· · · · · · · · · · · · · · · · · · ·
SLVJ65180414 (4E21005-13) Soil							,		
5 Solids	91.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65200415 (4E21005-14) Soil									
Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65200416 (4E21005-15) Soil									
Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65200417 (4E21005-16) Soil									
Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65200418 (4E21005-17) Soil				_					
Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
SLVJ65200419 (4E21005-18) Soil									•
Solids	94.0		%	1	EE42402	05/21/04	05/21/04	% calculation	

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Quality Assurance Review

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann 15 Fax: (432) 687-4914

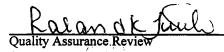
Reported: 05/27/04 09:49

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

		Ŀ	Environn	nental .	Lab of 1	ı exas			
Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared		Method Notes
SLVJ65200420	(4E21005-19) Soi								The second secon
% Solids		89.0		%	1	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200421 ((4E21005-20) Soil	I							in the Mills of the Control of the C
% Solids		50 - 1, 97.0 1970 (1	%	1	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200422 ((4E21005-21) Soil								
% Solids		98.0		%	1	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200423 (4E21005-22) Soil								
% Solids	Control of the Control	91.0	·	%	1.	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200424 (4E21005-23) Soil								
% Solids	44	94.0		%	1	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200425 (4E21005-24) Soil								
% Solids	e de la companya de l	88.0		%	1	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200426 (4E21005-25) Soil								The second of the second
% Solids	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92.0	ti. Taki ti	%	1 '	EE42402	05/21/04	05/21/04	% calculation
SLVJ65200427 (4E21005-26) Soil				-				
% Solids	114.6	98.0		: %	1 .	EE42402	05/21/04	05/21/04	% calculation

Environmental Lab of Texas

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

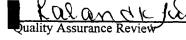
Reported: 05/27/04 09:49

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42102 - Solvent Extraction	(GC)									
Blank (EE42102-BLK1)				Prepared:	05/21/04	Analyzed	: 05/22/04	ļ .		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	H							
Surrogate: 1-Chlorooctane	38.6	···	mg/kg	50.0		77.2	70-130		·· ··	
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
Blank (EE42102-BLK2)				Prepared:	05/21/04	Analyzed	: 05/23/04	•		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	H							
Surrogate: 1-Chlorooctane	36.1		mg/kg	50.0		72.2	70-130			
urrogate: 1-Chlorooctadecane	36.7		"	50.0		73.4	70-130			
LCS (EE42102-BS1)				Prepared:	05/21/04	Analyzed	: 05/22/04			
Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125			
iesel Range Organics >C12-C35	452	10.0	11	500		90.4	75-125			
Total Hydrocarbon C6-C35	876	10.0	**	1000		87.6	75-125			
Surrogate: 1-Chlorooctane	49.0	·	mg/kg	50.0		98.0	70-130			·······
urrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
LCS (EE42102-BS2)				Prepared:	05/21/04	Analyzed:	05/23/04			
Gasoline Range Organics C6-C12	419	10.0	mg/kg wet	500		83.8	75-125			,
iesel Range Organics >C12-C35	476	10.0	н	500		95.2	75-125			
otal Hydrocarbon C6-C35	895	10.0		1000		89.5	75-125			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	70-130			
irrogate: 1-Chlorooctadecane	37.5		"	50.0		75.0	70-130			
Calibration Check (EE42102-CCV1)	-			Prepared:	05/21/04	Analyzed:	: 05/22/04			
Gasoline Range Organics C6-C12	404		mg/kg	500		80.8	80-120			
iesel Range Organics >C12-C35	504		n	500		101	80-120			
btal Hydrocarbon C6-C35	908			1000		90.8	80-120			
Surrogate: 1-Chlorooctane	53.8			50.0		108	70-130			
rrogate: 1-Chlorooctadecane	43.2		"	50.0		86.4	70-130			

Environmental Lab of Texas

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Resúlt	Reporting Limit Units	Spike Level	Source Result		%REC Limits	RPD	RPD Limit Notes
Batch EE42102 - Solvent Extracti	on (GC)				<u> </u>			4
Calibration Check (EE42102-CCV2)			Prepared	: 05/21/04	Analyzed	1: 05/23/04		
Gasoline Range Organics C6-C12	427	mg/kg	500		85.4	80-120		
Diesel Range Organics >C12-C35	474	. 11	500	J .	94.8	80-120		1. 16.
Total Hydrocarbon C6-C35	901	* ii	1000		90.1	80-120		the second of the second of the
Surrogate: 1-Chlorooctane	52.7	. #	50.0		105	70-130		
Surrogate: 1-Chlorooctadecane	41.4	in the stage stops of the	50.0		82.8	70-130		J. J. J. 18 1 2 3
Matrix Spike (EE42102-MS1)	Sou	rce: 4E21004-01	Prepared:	05/21/04	Analyzed	: 05/23/04		n ph
Gasoline Range Organics C6-C12	473	10.0 mg/kg dry	562	ND	84.2	75-125		
Diesel Range Organics >C12-C35	537	10.0	562	7.32	94.2	75-125		6 1 2 6 2 6 2 6 2
Total Hydrocarbon C6-C35	1010	10.0	1120	ND	90.2	75-125		180 1 1
Surrogate: I-Chlorooctane	58.7	mg/kg	50.0		117	70-130	•	
Surrogate: 1-Chlorooctadecane	45.8	, 5°, 5° (12.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	50.0		91.6	70-130		(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Matrix Spike (EE42102-MS2)	•	rce: 4E21005-04	Prepared:	05/21/04	Analyzed	05/23/04		Andrew Carl
Gasoline Range Organics C6-C12	479	10.0 mg/kg dry	549	ND	87.2	75-125		- 18 C -
Diesel Range Organics >C12-C35	584	10.0 ":	549	· ND	106	75-125		\$1 × 5 × 5
Total Hydrocarbon C6-C35	1060 g	10.0 "	1100	ND	96.4	75-125		The state of the s
Surrogate: 1-Chlorooctane	49.1	mg/kg	50.0		98.2	70-130	u	
Surrogate: 1-Chlorooctadecane	46.2	e Sign de la compa	50.0		92.4	70-130		2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Matrix Spike Dup (EE42102-MSD1)		rce: 4E21004-01	Prepared:	05/21/04	Analyzed:	05/23/04		
Gasoline Range Organics C6-C12	474	10.0 mg/kg dry	562	ND	84.3	75-125	0.211	20
Diesel Range Organics >C12-C35	544	10.0	562	7.32	95.5	75-125	1.30	20
Total Hydrocarbon C6-C35	1020	10.0	1120	ND	91.1	75-125	0.985	20
Surrogate: I-Chlorooctane	60.7	mg/kg	50.0		<i>121</i> -	70-130		
Surrogate: 1-Chlorooctadecane	46.0	Ħ	50.0		92.0	70-130		8-3 BB - 18-8-8-8
Matrix Spike Dup (EE42102-MSD2)		rce: 4E21005-04	Prepared:	05/21/04	Analyzed:	05/23/04		
Gasoline Range Organics C6-C12	495	10.0 mg/kg dry	549	ND	90.2	75-125	3.29	20
Diesel Range Organics >C12-C35	564	10.0 of 1	549	ND	103	75-125	3.48	20 💯
Total Hydrocarbon C6-C35	1060	10.0	- 1100	ND	96.4	75-125	0.00	20
Surrogate: 1-Chlorooctane	61.8	mg/kg	50.0		124	70-130		No. 2 No. 15 Let 1
Surrogate: 1-Chlorooctadecane	46.4	•	50.0		92.8	70-130		

Environmental Lab of Texas

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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 EE42103 - Solvent Extract	ion (GC)									
Blank (EE42103-BLK1)				Prepared	& Analyze	d: 05/24/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	н							
Total Hydrocarbon C6-C35	ND	10.0	n							
urrogate: 1-Chlorooctane	37.0		mg/kg	50.0	·	74.0	70-130			
urrogate: 1-Chlorooctadecane	35.4		"	50.0		70.8	70-130			
Blank (EE42103-BLK2)				Prepared a	& Analyze	d: 05/24/0)4			
asoline Range Organics C6-C12	ND	10.0	mg/kg wet						·····	
iesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: 1-Chlorooctane	36.8		mg/kg	50.0		73.6	70-130			
urrogate: 1-Chlorooctadecane	35.8	•	"	50.0		71.6	70-130			
LCS (EE42103-BS1)				Prepared &	& Analyze	d: 05/24/0)4			
asoline Range Organics C6-C12	426	10.0	mg/kg wet	500		85.2	75-125			
iesel Range Organics >C12-C35	493	10.0	**	500		98.6	75-125			
rotal Hydrocarbon C6-C35	919	10.0	"	1000		91.9	75-125			
Surrogate: I-Chlorooctane	45.3		mg/kg	50.0		90.6	70-130			
urrogate: 1-Chlorooctadecane	40.5		"	50.0		81.0	70-130			
LCS (EE42103-BS2)				Prepared &	& Analyze	d: 05/24/0	4			
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125			
iesel Range Organics >C12-C35	515	10.0	D .	500		103	75-125			
rotal Hydrocarbon C6-C35	923	10.0	H	1000		92.3	75-125			
Surrogate: I-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
rrogate: I-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
LCS Dup (EE42103-BSD2)				Prepared &	& Analyze	1: 05/24/0	4 -			
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125	1.46	20	
esel Range Organics >C12-C35	483	10.0	**	500		96.6	75-125	6.41	20	
rotal Hydrocarbon C6-C35	897	10.0	"	1000		89.7	75-125	2.86	20	
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	70-130			_,,_
rrogate: 1-Chlorooctadecane	35.8		"	50.0		71.6	70-130			

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit Units	Spike Source Level Result	%REC Limits	14.5
Batch EE42103 - Solvent Extrac	tion (GC)				
Calibration Check (EE42103-CCV1) Tey Subst	Same and the same of the same	Prepared & Analyze	ed: 05/23/04	
Gasoline Range Organics C6-C12	421	mg/kg	500	84.2 80-120	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Diesel Range Organics >C12-C35	498	n	500	99.6 80-120	Section 1985 Annual Section 1985
Total Hydrocarbon C6-C35	919	n	1000	91.9 80-120	1 de 1
Surrogate: 1-Chlorooctane	53.8		·· 50.0	108 70-130	and the second second
Surrogate: 1-Chlorooctadecane	42.9	, n	50.0	85.8. 70-130	And the second of the second
Calibration Check (EE42103-CCV2) () () () () () () () () () (61.30	Prepared & Analyze	ed: 05/24/04	
Gasoline Range Organics C6-C12	421	mg/kg	500	84.2″ 80-120	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics >C12-C35	513	H	500	103< 80-120	Commence of the second
Total Hydrocarbon C6-C35	934	**	1000 s.a.	93.4 80-120	A 4 1
Surrogate: 1-Chlorooctane			50.0	107 70-130	5-3 3.3. Frie
Surrogate: 1-Chlorooctadecane	46.3	1.5	50.0	92.6 70-130	of the second second
Matrix Spike (EE42103-MS1)	,, ··· _₹ Sou	rce: 4E21005-24	Prepared & Analyze	d: 05/24/04	$\mathcal{L}(\mathcal{M}_{\mathcal{A}}, \mathcal{A}_{\mathcal{A}}) = \mathcal{M}_{\mathcal{A}}$
Gasoline Range Organics C6-C12	586	10.0 mg/kg dry	568 ND	103 75-125	112 Dr. 1 . 15 . 16
Diesel Range Organics >C12-C35	660	10.0	568 ND	116 75-125	Committee of the second
Total Hydrocarbon C6-C35	1250	10.0	1140 ND	110 75-125	20 1 W R / P
Surrogate: 1-Chlorooctane		mg/kg	50.0	103 . 70-130	
Surrogate: 1-Chlorooctadecane	V.E. 45.9	.	50.0	91.8 70-130	e de la companya de l
Matrix Spike Dup (EE42103-MSD1)	Sour	rce: 4E21005-24	Prepared & Analyze	d: 05/24/04	
Gasoline Range Organics C6-C12	508	10.0 mg/kg dry	568 ND	89.4 75-125	14.3 20
Diesel Range Organics >C12-C35	686	. 10.0 ⊖∜;	568 ND	121 😥 75-125	3.86 20 (a) (b) (4) (b)
Total Hydrocarbon C6-C35	, 11 90	10.0	1140 (J. ND	104 75-125	4.92 20
Surrogate: I-Chlorooctane	50.4	mg/kg	50.0	101 70-130	25 C 18 18 2 E
Surrogate: 1-Chlorooctadecane	51.9	#	50.0	104 - 70-130	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 24

Environmental Lab of Texas

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

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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 EE42501 - EPA 5030C (GC)										
Blank (EE42501-BLK1)				Prepared &	& Analyze	ed: 05/21/	04			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	H							
Ethylbenzene	ND	0.0250	H .							
(ylene (p/m)	ND	0.0250	"							
(ylene (o)	ND	0.0250	n							
Surrogate: a,a,a-Trifluorotoluene	83.4		ug/kg	100		83.4	80-120			
urrogate: 4-Bromofluorobenzene	83.8		"	100		83.8	80-120			
LCS (EE42501-BS1)				Prepared &	& Analyze	d: 05/21/0)4			
Benzene	93.4		ug/kg	100		93.4	80-120			
oluene	91.1		**	100		91.1	80-120			
thylbenzene	89.1		11	100		89.1	80-120			
Xylene (p/m)	174		"	200		87.0	80-120			
ylene (o)	84.1		п	100		84.1	80-120			
urrogate: a,a,a-Trifluorotoluene	93.1		"	100		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	80.8		"	100		80.8	80-120			
alibration Check (EE42501-CCV1)				Prepared:	05/21/04	Analyzed	: 05/24/04			
enzene	84.2		ug/kg	100		84.2	80-120			
Toluene	84.1		11	100		84.1	80-120			
Ethylbenzene	83.4		**	100		83.4	80-120			
ylene (p/m)	163		*	200		81.5	80-120			
Xylene (o)	82.9		н	100		82.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	83.2			100		83.2	80-120			
rrogate: 4-Bromofluorobenzene	81.0		"	100		81.0	80-120			
Matrix Spike (EE42501-MS1)	So	urce: 4E210	05-15	Prepared:	05/21/04	Analyzed	: 05/23/04			
Benzene	88.0		ug/kg	100	ND	88.0	80-120			
luene	85.2		н	100	ND	85.2	80-120			
Ethylbenzene	87.1		11	100	ND	87.1	80-120			
Xylene (p/m)	172		Ħ	200	ND	86.0	80-120			
/lene (o)	88.0		H	100	ND	88.0	80-120			
rrogate: a,a,a-Trifluorotoluene	82.2		· · · · · · · · · · · · · · · · · · ·	100		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	96.1		"	100		96.1	80-120			

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

Organics by GC - Quality Control Environmental Lab of Texas

Analyte		Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42501 - EPA 5030C (GC)			** ** *				, -			k, ·	
Matrix Spike Dup (EE42501-MSD1)		Sou	rce: 4E210	05-15	Prepared	: 05/21/04	Analyzed	1: 05/23/04			
Benzene		91.8		ug/kg	100	ND	91.8	80-120	4.23	20	
Toluene		89.0		**	100	ND	89.0	80-120	4.36	20	
Ethylbenzene		89.9		n	100	ND	89.9	80-120	3.16	20	is .
Xylene (p/m)		177			200	ND	88.5	80-120	2.87	20	
Xylene (o)		88.5		n	100	ND	88.5	80-120	0.567	20	
Surrogate: a,a,a-Trifluorotoluene		85.8		- n	100		85.8	80-120		.:	
Surrogate: 4-Bromofluorobenzene	•	91.1		,	100		91.1	80-120			* *
Batch EE42504 - EPA 5030C (GC)		v (1 - °)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. *.		<u> </u>		, -	·	-	•:
Blank (EE42504-BLK1)		1.19	·			& Analyze	d: 05/24/0)4			
Benzene	<i>i</i>	ND.	0.0250	mg/kg wet							•
Toluene	. :	ND	0.0250				٧٠,				
Ethylbenzene		ND	0.0250	7.							t ·
Xylene (p/m)	٠.,	ND	0.0250	.11			. 1,8			1 1	100 mg - 100
Xylene (o)	· 1).	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene		84.5		ug/kg	100		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	1,3	<i>83.3</i>		- 1 · · · · · ·	100		83.3	80-120	100		
LCS (EE42504-BS1)		•. •		a Kajanj	Prepared	& Analyze	d: 05/24/0	14			
Benzene		89.1		ug/kg	100		89.1	80-120			.,
Toluene	, , 8	86.1		n	100		86.1	80-120			
Ethylbenzene	· 115	86.3		n	100		86.3	80-120			. 3
Xylene (p/m)		169		н	200		84.5	80-120			
Xylene (o)		86.2		ñ	100		86.2	80-120		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT THE E
Surrogate: a,a,a-Trifluorotoluene		82.1			700		82.1	80-120			
Surrogate: 4-Bromofluorobenzene		89.3		., "	100		89.3	80-120	/ î		

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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
atch EE42504 - EPA 5030C (GC)										
Calibration Check (EE42504-CCV1)				Prepared:	05/24/04	Analyzed	1: 05/25/04			
enzene	92.3		ug/kg	100		92.3	80-120			
Poluene	91.5		**	100		91.5	80-120			
Ethylbenzene	90.5		41	100		90.5	80-120			
ylene (p/m)	179		n	200		89.5	80-120			
ylene (o)	90.2		н	100		90.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		7/	100		109	80-120			
urrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			
latrix Spike (EE42504-MS1)	So	urce: 4E2100	5-24	Prepared:	05/24/04	Analyzed	: 05/25/04			
Berizene	90.7		ug/kg	100	ND	90.7	80-120			
pluene	88.4		11	100	ND	88.4	80-120			
hylbenzene	87.4		н	100	ND	87.4	80-120			
 Kylene (p/m)	172		n	200	ND	86.0	80-120			
vlene (o)	85.9		n	100	ND	85.9	80-120			
rrogate: a,a,a-Trifluorotoluene	102		77	100		102	80-120			
urrogate: 4-Bromofluorobenzene	108		"	100		108	80-120			
atrix Spike Dup (EE42504-MSD1)	Sou	urce: 4E2100:	5-24	Prepared:	05/24/04	Analyzed	: 05/25/04			
enzene	85.6		ug/kg	100	ND	85.6	80-120	5.79	20	
- Coluene	85.0		19	100	ND	85.0	80-120	3.92	20	
thylbenzene	84.6		**	100	ND	84.6	80-120	3.26	. 20	
/lene (p/m)	167		**	200	ND	83.5	80-120	2.95	20	
cylene (o)	82.2			100	ND	82.2	80-120	4.40	20	
urrogate: a,a,a-Trifluorotoluene	107			100		107	80-120			
rrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

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Kaland K Jan

Duplicate (EE42402-DUP1)

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 05/27/04 09:49

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 EE42402 - General Preparation	on (Prep)					- "				
Blank (EE42402-BLK1)	No. of the second		COMPLEX Or F	Prepared &	& Analyze	ed: 05/21/0	4	17.7	14	3327 5 5 6

Blank (EE42402-BLK1)
% Solids

Source: 4E21001-01

Prepared & Analyzed: 05/21/04

% Solids 86.0

%

86.0

0.00

20

Environmental Lab of Texas

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Quality Assurance Review

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 05/27/04 09:49

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.

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

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

ry Sample results reported on a dry weight basis

RPD Relative Percent Difference

nvironmental Lab of Texas

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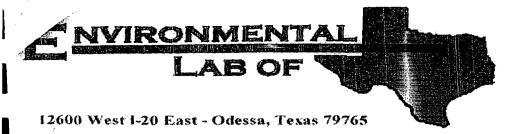
Quality Assurance Review

Page 26 of 26

	<u> </u>	<u> </u>				. 3.		TAT H2		1							1					I		1	z		:
Vacuum To Jal 14" Mainline #6	55	•				Analyze For		Volatilea mivolatilea X 8021B/503 trivity vityity inbilty rides	Sea Bread Corro Jenit	× >	*	X	X	V X	X	X		X	××	X	X	X X	X	X	Sample Containers Ir Y	Laboratory Comments:	
Vacuum T	2003-00135					TCI,P	TOTAL	PH 418.1 TX 1005/1000 Metala	H-dT H-dT	X X	¢×	Х	×>	«×	×	XX	×	××	₹×	X	× ×	×	××	××	eti je c _a	Date Time	1 -
Project Name:	Project #:	Project Loc.	PO#:					Water Soil Soil Soil	Э Ч ЭО ;	××	×	X	X	××	X	××	X	X	X	×	↓×	X	××	X		-7	
								HSO None Topecify)	ОГР																		
								HOI ICE HOO		XX	+	1 X	1 ×		\vdash	××		1 X X		××	X	X	××	×	D ASAP	حقا	JAKK
								e Sampled	 -	╫	Н	Н	+	╄┩		-	H		╀┸		ㅗ.		+		McCASLAN	Re	Received By
915-563-1800 915-563-1713	rketing						-	pəldm s g ə	Date 5	05/14/2004	05/14/2004	05/14/2004	05/18/2004	05/18/2004	05/18/2004	05/18/2004	05/18/2004	05/18/2004	05/20/2004	05/20/2004	05/20/20	05/20/2004	400Z/0Z/e0		FAX RESULTS TO PAT McCASLAND	Date Time	3
Phone: Fax:	Company Name: Link Energy / Plains Marketing				priet.	•																			FAX RESU	Date	De
500 West 1-20 East essa Texas 79763 Project Manager: Jeff Dann	Vame: Link Ene	dress:	te/Zip:	ne No:	ature: 545.	- 50 - V 1 			110111	SLVJ6514041	SSIVJ6514043	SLVJ6514044	SLVJ6518046	SLVJ6518048	SLVJ6518049	SLVJ65180410 SLVJ65180411	SLVJ65180412	SLVJ65180413	SLVJ655200415	SLVJ655200416	SLVJ655200418	SLVJ655200419	LVJ655ZU04ZU		ections	2.4	7
12600 West I-20 East Odessa Texas 79763 Project Manager:	Company 1	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:	٠.					18 50	IS ho-	18 So	IS LG	18 80					18 3		18.8			Special Instructions	Relinquished:	Reimquished:

TAT brabnat2 TAT HEUR Temperature Upon Request Vacuum To Jal 14" Mainline #6 Sample Containers Ir Y Laboratory Comments: Chlorides **Ignitiabilty** Corrosivity Reactivity Analyze For BLEX 8021B/503d Semivolatiles Volatiles 2003-00135 2550 Time Metals TPH8015MGRODRO TCLP TOTAL 3001/3001 XT H9T Date 1.814 H9T Project Name: Project #: PO#: Project Loc: IDS/CI/SAR/EC Other (Specify) [ioS Sludge Water Other (Specify) None OSH NaOH HCI ONH FAX RESULTS TO PAT McCASLAND ASAP ICE + NO Sample Per ROBY 5-21-04 A No. of Containers Received by: 300 250 320 340 340 belgme Sampled 05/20/2004 05/20/2004 05/20/2004 05/20/2004 05/20/2004 05/20/2004 05/20/2004 3:06 Time Time Date Sampled 19:25 Company Name: Link Energy / Plains Marketing 915-563-1800 915-563-1713 2009 5.21-4 Date Date E.f. ex Phone: q Project Manager: <u>Jeff Dann</u> SLVJ655200422 SLVJ655200423 SLVJ655200424 SLVJ655200425 SLVJ655200426 SLVJ655200421 SLVJ655200427 Sampler Signature: 2600 West 1-20 East Telephone No: Odessa Texas 79763 Company Address: City/State/Zip: nvigenm Special Instructions Rennamished

Environmental Lab of Texas Variance / Corrective Action Report - Sample Log-In Date/Time: 5/21 Order #: Initials: Sample Receipt Checklist Temperature of container/cooler? Yes Shipping container/cooler in good condition? res No Custody Seals intact on shipping container/cooler? No: Not present Custody Seals intact on sample bottles? Yes Not present No Chain of custody present? Yes Sample Instructions complete on Chain of Custody? **(G3** No Chain of Custody signed when relinquished and received? No Chain of custody agrees with sample label(s) No. Container labels legible and intact? No Sample Matrix and properties same as on chain of custody? **Yes** No Samples in proper container/bottle? (Yes) No Samples properly preserved? No Sample bottles intact? No Preservations documented on Chain of Custody? No Containers documented on Chain of Custody? No-Sufficient sample amount for indicated test? No All samples received within sufficient hold time? No VOC samples have zero headspace? Not Applicable No Other observations: Variance Documentation: Contacted by: Pallors 7.7 Contact Person: - Lai Date/Time: 5/21/04 10:30 Regarding: COC erros Corrective Action Taken: SLIV J 855200 420 P 5/20/2019 2:30 Was



Analytical Report

Prepared for:

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

Project: Jal 14 in. Mainline #6
Project Number: 2003-00135
Location: None Given

Lab Order Number: 4F11009

Report Date: 06/16/04

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914 Reported:

06/16/04 17:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
SL14M060804H#1-3'		4F11009-01	Soil	06/08/04 07:39	06/11/04 10:50
SL14M060804H#1-8'		4F11009-02	Soil	06/08/04 07:42	06/11/04 10:50
SL14M061004H#2-2'		4F11009-03	Soil	06/08/04 07:48	06/11/04 10:50
SL14M061004H#2-6'		4F11009-04	Soil	06/08/04 07:50	06/11/04 10:50
SL14M061004H#2-13'		4F11009-05	Soil	06/08/04 07:54	06/11/04 10:50
SL14M061004H#3-1'6 in		4F11009-06	Soil	06/08/04 08:00	06/11/04 10:50
SL14M061004H#3-5'	•	4F11009-07	Soil	06/08/04 08:02	06/11/04 10:50
SL14M061004H#3-14'		4F11009-08	Soil	06/08/04 08:06	06/11/04 10:50
SL14M061004H#4-2'		4F11009-09	Soil	06/08/04 08:10	06/11/04 10:50
SL14M061004H#4-8'		4F11009-10	Soil	06/08/04 08:16	06/11/04 10:50
SL14M061004H#4-15'		4F11009-11	Soil	06/08/04 08:23	06/11/04 10:50

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April 19 Commence of the Commence

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:

06/16/04 17:03

Organics by GC

	Organics by GC
×	Environmental Lab of Texas
	

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	No
SL14M060804H#1-3' (4F11009-01) 5	Soil								
Benzene	0.0414	0.00100	mg/kg dry	1	EF41303	06/12/04	06/12/04	EPA 8021B	
Toluene	0.778	0.0250	**	25	n	tr	11	Ħ	
Ethylbenzene	1.92	0.0250	ti.	11	. 11	n	11	Ħ	
Xylene (p/m)	4.03	0.0250	n		**	11	"	H	
Xylene (o)	1.63	0.0250	n	**	#	H	"	ø	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-1	20	11	11	"	1)	S-
Surrogate: 4-Bromofluorobenzene		96.9 %	80-1	20	,,	"	"	,,	
Gasoline Range Organics C6-C12	273	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	637	10.0	**	19	n	n	n	R	
Total Hydrocarbon C6-C35	910	10.0		n	"	er	Ħ	"	
Surrogate: I-Chlorooctane		103 %	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		78.8 %	70-1	30	"	"	*	**	
SL14M060804H#1-8' (4F11009-02) S	oil								
Benzene	0.146	0.100	mg/kg dry	100	EF41303	06/12/04	06/12/04	EPA 8021B	
Foluene	2.61	0.100	н	"		И	н	"	
Ethylbenzene	4.26	0.100	н	•	•	11	Ħ	"	
Xylene (p/m)	9.04	0.100	Ħ	n	n	yı	. "	u .	
Xylene (o)	3.35	0.100	н	•	H	II	10	n	
Surrogate: a,a,a-Trifluorotoluene		122 %	80-1.	20	"	"	"	"	S-(
Surrogate: 4-Bromofluorobenzene		88.6 %	80-1	20	#	"	•	#	
Gasoline Range Organics C6-C12	1050	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	4530	10.0	tt	#	H	н		ty .	
Total Hydrocarbon C6-C35	5590	10.0	n	ч	**	11	n	#	٠
Surrogate: 1-Chlorooctane		107 %	70-1.	30	"	"	"	"	
urrogate: 1-Chlorooctadecane		116 %	70-1.	30	**	**	"	"	
SL14M061004H#2-2' (4F11009-03) S	oil								
enzene	0.0819	0.0250	mg/kg dry	25	EF41303	06/12/04	06/12/04	EPA 8021B	
Toluene	1.79	0.0250	te .	n	Ħ	· u	н	ч	
thylbenzene	5.33	0.0250	**	и	#	11	11	"	
(ylene (p/m)	6.02	0.0250	Ħ	н	#	Ħ	n	**	
Xylene (0)	4.76	0.0250	Ħ	**	n	n	n	u	
urrogate: a,a,a-Trifluorotoluene		222 %	80-1.	20	"	"	"	"	S-0
urrogate: 4-Bromofluorobenzene		82.2 %	80-1.	20	"	"	"	n	
Gasoline Range Organics C6-C12	3620	50.0	mg/kg dry	5	EF41120	06/11/04	06/11/04	EPA 8015M	
iesel Range Organics >C12-C35	11400	50.0	tt .	"	н		n	ff.	
otal Hydrocarbon C6-C35	15000	50.0	H	0	11			n .	

Environmental Lab of Texas

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Page 2 of 16

Project: Jal 14 in. Mainline #6
Project Number: 2003-00135

Fax: (432) 687-4914

Reported:

Reported: 06/16/04 17:03

Organics by GC

Project Manager: Jeff Dann

		Environ	mental La	ıb of	Texas				· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting	-	Dilutio	n Batch	Prepared	Analyzed	Method	Notes
SL14M061004H#2-2' (4F11009-03) Soil					atrial of	· · · · · · · · · · · · · · · · · · ·	The second second		· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctane	a tije ka	55. 11.4 %	70-13	0	EF41120	06/11/04	06/11/04	EPA 8015M	S-06
Surrogate: 1-Chlorooctadecane		30.2 %	70-13	0	(*; * - / * /	436	"	"	S-06
SL14M061004H#2-6' (4F11009-04) Soil		•			ige i de la companya di salah di salah di salah di salah di salah di salah di salah di salah di salah di salah Salah di salah di sa	V.			100
Benzene	0.222	0.0250	mg/kg dry	25	EF41501	06/14/04	06/14/04	EPA 8021B	
Toluene	8.44	0.0250	# 27 - 47 >	**	· **	tų .	*	product of the state of the sta	
Ethylbenzene	12.0	0.0250	HR. G	**	- in	•	n 12	ty the contract	an New York Salah Tanan
Xylene (p/m)	24.7	0.0250		C HIME		•	n '		Contraction (Contraction)
Xylene (o)	8.49	0.0250	H		52 m	" 1: 1"	n · ·	~ п	Marin and a
Surrogate: a,a,a-Trifluorotoluene		357 %	80-120)	- 1 11	"	. "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S-04
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120)	"	"	"	"	Maria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de
Gasoline Range Organics C6-C12	3050	10.0	mg/kg dry	1	EF41120	06/11/04	06/11/04	EPA 8015M	a de la State de la Companya de la C
Diesel Range Organics >C12-C35	5640	10.0	"	n	11		Ħ	e e	ي پي
Total Hydrocarbon C6-C35	8690	10.0			H	н .	Ħ	19	
Surrogate: 1-Chlorooctane	· .	90.6 %	а.: 70-130) <u>e 14 jili</u>	, + 11	п 🤼	"	**	× :
Surrogate: 1-Chlorooctadecane		116%	70-130		√	,	"	*	<i>ډ.</i>
6.	4				11, 11	• .			* .1
SL14M061004H#2-13' (4F11009-05) Soil	, a			**	$\frac{3}{2}$ $\frac{1}{2}$:			¥41 41
Benzene	ND	0.0250	mg/kg dry	25	EF41601	06/14/04	06/14/04	EPA 8021B	
Toluene	ND	0.0250	4 25 Acres	Ħ	. "и"			and Amphile del	-1. 3,5 1334
Ethylbenzene	ND	0.0250	W 3 7 5 5		. "#"t.	n		State of the state	
Xylene (p/m)	.0333 part 1	0.0250	•	# 17	7 10		н		e e e e e e e e e e e e e e e e e e e
Xylene (o)	ND	0.0250	.00	**	,5 1 jr	n • .	. 4 (at de modern de la company	justin gr
Surrogate: a,a,a-Trifluorotoluene		88.4 %	80-120			n	"		
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120	`	i. ""	"	"	" .	
Gasoline Range Organics C6-C12	13.3	10.0	mg/kg dry	1	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	144	10.0	n	#	19	u	# 1556 **	# -	vija, iša
Total Hydrocarbon C6-C35	157	10.0		*	н .	. "	ana ta Trans Marana ana na manana	ger de registration de la company de la company de la company de la company de la company de la company de la La company de la company d	
Surrogate: 1-Chlorooctane		80.6 %	70-130	~ ";;;;	. 00 n . 6	n ()	. n	"	

Environmental Lab of Texas

Surrogate: 1-Chlorooctadecane

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

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70-130

83.2 %

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-4914 Reported:

06/16/04 17:03

Organics by GC **Environmental Lab of Texas**

									
Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Not
SL14M061004H#3-1'6 in (4F11009	-06) Soil								
Benzene	ND	0.0250	mg/kg dry	25	EF41601	06/14/04	06/14/04	EPA 8021B	
Toluene	0.0290	0.0250	11	п	**	10	tt t	u .	
Ethylbenzene	J [0.0216]	0.0250	ır	**	n	**	Ħ	11	
Xylene (p/m)	0.0718	0.0250	11	"	H	**	н	H	
Xylene (o)	0.0426	0.0250	н	H	n	•	н	Ħ	
Surrogate: a,a,a-Trifluorotoluene		86.4 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.4 %	80-1	20	"	"	"	"	
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	u		Ħ	**	"	**	
Total Hydrocarbon C6-C35	ND	10.0	**		n	N	н	н	
Surrogate: 1-Chlorooctane		77.2 %	70-1.	30	"	"		,,	
Surrogate: 1-Chlorooctadecane		75.0 %	70-1.		"	"	"	"	
SL14M061004H#3-5' (4F11009-07)	Soil								
Benzene	3.34	0.100	mg/kg dry	100	EF41601	06/14/04	06/14/04	EPA 8021B	
Foluene	32.2	0.100	u .	it		n	•	10	
Ethylbenzene	34.8	0.100	H	#	**		**	41	
Kylene (p/m)	56.9	0.100	ti		"	H		H	
Kylene (o)	23.1	0.100	**		**	**	ıı	n	
Surrogate: a,a,a-Trifluorotoluene		514 %	80-1.	20	"	"	"	n	S-04
Surrogate: 4-Bromofluorobenzene		84.5 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	5570	50.0	mg/kg dry	5	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	10200	50.0	11	11	tt	"	H	11	
Total Hydrocarbon C6-C35	15800	50.0	н	1)	n	n	n	u	
Surrogate: 1-Chlorooctane		10.9 %	70-1.	30	,,	,,	"	"	S-06
urrogate: 1-Chlorooctadecane		37.4 %	70-1.	30	"	n	n	n	S-06
L14M061004H#3-14' (4F11009-08) Soil	-							
enzene	1.45	0.100	mg/kg dry	100	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene	13.3	0.100	Ħ	n	11	**	n	ч	
thylbenzene	15.2	0.100	tf	n	**	și.	n	н	
(p/m)	28.1	0.100	11	tt.	u	ęt.	u	н	
Kylene (o)	9.16	0.100	11	*	**	n	"	•	
urrogate: a,a,a-Trifluorotoluene		245 %	80-1.	20	<i>n</i>	"	"	"	S-0-
urrogate: 4-Bromofluorobenzene		94.5 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	2410	50.0	mg/kg dry	5	EF41120	06/11/04	06/12/04	EPA 8015M	
iesel Range Organics >C12-C35	10700	50.0	**	10	H	н	11	**	
otal Hydrocarbon C6-C35	13100	50.0	**	n	н	11	u	H .	

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

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914 Reported:

06/16/04 17:03

Organics by GC Environmental Lab of Texas

Analyte	Result	Reportin Limi	g t Units	Dilutio	on Batch	Prepared	Analyzed	Method	Note
SL14M061004H#3-14' (4F11009-08) S	oil						ه دو دو د	· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctane	1.1	23.2 %	6 70-13	30,°	EF41120	06/11/04	06/12/04	EPA 8015M	S-0
Surrogate: 1-Chlorooctadecane		42.8 %	<i>70-13</i>	30		n 1.	"	n	S-00
SL14M061004H#4-2' (4F11009-09) So	il				*		: **		
Benzene	0.687	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	EPA 8021B	,
Foluene	9.41	0.0250		**	- N	11	H	2 - 1 m3 - 1 - 1	· · · · · ·
Ethylbenzene	11.5	0.0250	m's sign		·. · • •	*	n	e e e e e e e e e e e e e e e e e e e	, , ,
Kylene (p/m)	25.4	0.0250	у н	•::			10	`.	
Kylene (o)	8.94	0:0250		н		#		**************************************	
Surrogate: a,a,a-Trifluorotoluene	***	400 %	80-12	0	· "	# Je	"	"	S-04
Surrogate: 4-Bromofluorobenzene		80.3 %	80-12	0	Ţ n	"	,	i n , 5 − 5	
Gasoline Range Organics C6-C12	4130	50.0	mg/kg dry 🕟	· 5	EF41120	06/11/04	06/12/04	EPA 8015M	• • • • • • • • • • • • • • • • • • • •
Diesel Range Organics >C12-C35	11600	50.0	'n	11	•	#	*	H .	
Total Hydrocarbon C6-C35	15700	50.0	•	*		н	N '		3° '., '
Surrogate: 1-Chlorooctane	- 4	11.2 %	70-13	0	, "	" .;	"	"	S-06
Surrogate: 1-Chlorooctadecane	·	34.2 %	70-13	0			"	"	S-06
SL14M061004H#4-8' (4F11009-10) Soi]				Per la companya di salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah s	. ·.			, , , , , , , , , , , , , , , , , , ,
- Benzene	1.49	0.100	mg/kg dry	100	EF41602	06/15/04	06/16/04	EPA 8021B	
Coluene	17.5	0.100	* # (* ·	, 14	* * * n	n	n		
Ethylbenzene	20.4	0:100	H	2 0				, , , , , , , , , , , , , , , , , , ,	,
(ylene (p/m)	39.1	, 0.100	. n .	·	(: m	n '		of the transfer of the	* *
(ylene (o)	13.1	0.100	n	'n		m Car		To dit# to the	
urrogate: a,a,a-Trifluorotoluene		256 %	80-12	0	. #	"	. "	"	S-04
Surrogate: 4-Bromofluorobenzene		84.8 %	80-12	0	"	n	"	W:	
Gasoline Range Organics C6-C12	3070	50.0	mg/kg dry	5	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	6540	50.0	11	*	11	11	. #		- 50
Total Hydrocarbon C6-C35	9610	50.0	*			•	ir.	na sa <mark>m</mark> in Mila. Na sama	
urrogate: 1-Chlorooctane		31,8 %	70-13	0	. ".	" .34	"	"	S-06
Surrogate: 1-Chlorooctadecane		26.6 %	70-13	^					S-06

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SL14M061004H#4-15' (4F11009-11) Soil			· · · · · · · · · · · · · · · · · · ·					
Benzene	ND	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene	J [0.0229]	0.0250	es	n	n	10	n	r.	J
Ethylbenzene	0.0368	0.0250	11	17	11	u.	n	n	
Xylene (p/m)	0.105	0.0250	ĮI.	10	**	"	**	¥f.	
Xylene (o)	0.0336	0.0250	u	n	n	Tr .	n	n	
Surrogate: a,a,a-Trifluorotoluene		91.4 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	80-12	20	"	"	"	"	
Gasoline Range Organics C6-C12	18.7	10.0	mg/kg dry	1	EF41120	06/11/04	06/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	248	10.0	**	н	11	11	**	H	
Total Hydrocarbon C6-C35	267	10.0	**		11	11	11	H	
Surrogate: 1-Chlorooctane		87.4 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		81.4 %	70-13	30	"	"	"	"	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:

Reported: 06/16/04 17:03

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

Analyte	Result	Reporting Limit	Units	Dilutio	n Batch	Prepared	Analyzed	Method	Notes
SL14M060804H#1-3' (4F11009-01) Soil						<u> </u>	4	The second of th	
% Solids	80.0	. : '	%	- 1	EF41301	06/11/04	06/11/04	% calculation	
SL14M060804H#1-8' (4F11009-02) Soil	ť			,	say seed	** ***********************************	•		1 4 Aug 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
% Solids	94.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#2-2' (4F11009-03) Soil			**************************************		Andrew Special	ię.	*	STATE OF CALL	
% Solids	92.0		%	· 1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#2-6' (4F11009-04) Soil	- Maria 127	* *	. *					•	
% Solids	91.0	ti.	%	1.	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#2-13' (4F11009-05) Soi	1				, v .,			State of the state	
% Solids	96.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#3-1'6 in (4F11009-06) S	Soil								
% Solids	94.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#3-5' (4F11009-07) Soil									
% Solids	94.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#3-14' (4F11009-08) Soi	i '								
% Solids	95.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#4-2' (4F11009-09) Soil									
% Solids	96.0		%	1	EF41301	06/11/04	06/11/04	% calculation	<u> </u>
SL14M061004H#4-8' (4F11009-10) Soil									
% Solids	81.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004H#4-15' (4F11009-11) Soi	1								
% Solids	91.0		%	1	EF41301	06/11/04	06/11/04	% calculation	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

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	& Analyze	d: 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	H							
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 a	& Analyze	d: 06/11/0	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	11	1000		96.4	75-125			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		703	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			
LCS (EF41120-BS2)				Prepared &	& Analyze	d: 06/11/0)4			
Gasoline Range Organics C6-C12	411	10.0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	457	10.0	15	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		n	50.0		80.2	70-130			
LCS Dup (EF41120-BSD1)				Prepared &	& Analyze	d: 06/11/0)4			
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	11	500		99.0	75-125	5.69	20	
Total Hydrocarbon C6-C35	948	10.0	n	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 &	& Analyze	d: 06/11/0)4			
Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
Diesel Range Organics >C12-C35	493		н	500		98.6	80-120			
Total Hydrocarbon C6-C35	918		11	1000		91.8	80-120			
Surrogate: 1-Chlorooctane	51.0			50.0		102	70-130			
urrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			
g e										

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Organics by GC - Quality Control Environmental Lab of Texas

Analyte		Result	Reporting Limi		Spike Level	Source Result	'%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF41120 - Solvent Extr	action (G	C)									in taget
Matrix Spike (EF41120-MS2)	1	1 1 (\$	Source: 4F11	010-01	Prepared:	06/11/04	Analyze	1: 06/12/04	ļ	3	in, _v a.
Gasoline Range Organics C6-C12		481	10.0	mg/kg dry	538	ND	89.4	75-125	. 8 - 27 -	1 7 TVW	
Diesel Range Organics >C12-C35		555	10.0	"	538	ND	103	75-125	٠,٠	11.444	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Hydrocarbon C6-C35		1040	10.0		1080	ND	96.3	75-125			or or o
Surrogate: 1-Chlorooctane	. , .	. 58.1		mg/kg	50.0		116	70-130	-		
Surrogate: 1-Chlorooctadecane	1, 25	38.9		<u>,</u> "	50.0		77.8	70-1 3 0		, err V	A The spin
Matrix Spike Dup (EF41120-MSI	02)	.	Source: 4F110	10-01	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	77 3 6
Total Hydrocarbon C6-C35		1030	10.0		1080	ND	95.4	75-125	0.966	20	" B
Surrogate: 1-Chlorooctane	****	58.0		mg/kg	50.0		116	70-130	-		
Surrogate: 1-Chlorooctadecane		40.4			50.0		80.8	70-130			
Batch EF41303 - EPA 5030C (Blank (EF41303-BLK1)	GC)	*, * f •	1. 6 W W	r*	Prepared &	Analyza	; d: 06/11/0		<u></u>		
Benzene	<u> </u>	ND	0.0250	mg/kg wet	_	Analyze	u. 00/11/0	/+		14 () () () () () () () () () (<u>i di Faliani a</u>
Toluene	-, -	ND	0.0250	" "	."	•				**	
Ethylbenzene	•	ND	0.0250	1,	, ,	•	17.7	•		120	
Xylene (p/m)	9	ND	0.0250	9	1					mul mi	
Xylene (o)		ND.	0.0250	, м						e	
Surrogate: a,a,a-Trifluorotoluene		92.9		ug/kg	100		92.9	80-120	· · · · ·		
Surrogate: 4-Bromofluorobenzene	247	89.5		""	100		89.5	80-120		1 1193	
LCS (EF41303-BS1)	1.12			. 💸	Prepared &	Analyze	1: 06/11/0	4			ti ing di Na
Benzene		0.0881	0.00100	mg/kg wet	0.100		88.1	80-120		*1	<u> </u>
Foluene	12.5	0.0910	0.00100	" " "	0.100		91.0	80-120			
Ethylbenzene		0.0877	0.00100	, н	0.100		87.7	80-120		, , H	A . 7 .
Xylene (p/m)		0.177	0.00100	n Light	0.200		88.5	80-120			. Taylor Arg
Kylene (o)		0.0897	0.00100	n .	0.100		89.7	80-120	<u> </u>		,
Surrogate: a,a,a-Trifluorotoluene	***	96.5	· · · · · · · · · · · · · · · · · · ·	ug/kg	100		96.5	80-120			
Surrogate: 4-Bromofluorobenzene		97.0		1.31	100		97.0	80-120			A Commence

A Section

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits .	RPD	Limit	Notes
Batch EF41303 - EPA 5030C (GC)				·						
Calibration Check (EF41303-CCV1)				Prepared	& Analyze	ed: 06/11/	 04			
Benzene	87.8		ug/kg	100	~ 7 11101 / 20	87.8	80-120			·····
Toluene	90.5		"B" "B	100		90.5	80-120			
Ethylbenzene	86.8			100		86.8	80-120			
Xylene (p/m)	173		11	200		86.5	80-120			
Xylene (o)	88.6		n	100		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.0			100		97.0	80-120		· · · · · · · · · · · · · · · · · · ·	
Surrogate: 4-Bromofluorobenzene	92.7		"	100		92.7	80-120			
Matrix Spike (EF41303-MS1)	So	urce: 4F1200)1-17	Prepared:	06/11/04	Analyzed	: 06/13/04			
Benzene	2.40	0.0250	mg/kg dry	2.87	ND	83.6	80-120			
Foluene	2.42	0.0250	Ħ	2.87	ND	84.3	80-120			
Ethylbenzene	2.34	0.0250	n	2.87	ND	81.5	80-120			
Kylene (p/m)	4.68	0.0250	**	5.75	ND	81.4	80-120			
Xylene (o)	2.33	0.0250	**	2.87	ND	81.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	92.2		ug/kg	100		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	87.4		"	100		87.4	80-120			
Matrix Spike Dup (EF41303-MSD1)	Soi	ırce: 4F1200	1-17	Prepared:	06/11/04	Analyzed	: 06/13/04			
Benzene	2.36	0.0250	mg/kg dry	2.87	ND	82.2	80-120	1.69	20	
l'oluene ·	2.51	0.0250	H	2.87	ND	87.5	80-120	3.73	20	
Ethylbenzene	2.42	0.0250	er e	2.87	ND	84.3	80-120	3.38	20	
Kylene (p/m)	4.85	0.0250	17	5.75	ND	84.3	80-120	3.50	20	
Kylene (o)	2.40	0.0250	н	2.87	ND	83.6	80-120	2.91	20	
Surrogate: a,a,a-Trifluorotoluene	95.6		ug/kg	100		95.6	80-120			
Surrogate: 4-Bromofluorobenzene	89.8		"	100		89.8	80-120			
Batch EF41501 - EPA 5030C (GC)										
Blank (EF41501-BLK1)				Prepared &	& Analyze	d: 06/14/0)4			
Benzene	ND	0.0250	mg/kg wet					·		
Toluene Toluene	ND	0.0250	н							
Ethylbenzene	ND	0.0250	"							
(ylene (p/m)	ND	0.0250	h							
kylene (o)	ND	0.0250	n							
Surrogate: a,a,a-Trifluorotoluene	93.7		ug/kg	100		93.7	80-120			
urrogate: 4-Bromofluorobenzene	80.5		"	100		80.5	80-120			
i										

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Amalysta			Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits		RPD Limit	Motes
Analyte			Result	Limit	Units	Levei	Resun	70KEC	Limits	KPD	Limit	Notes
Batch EF41501 -	EPA 5030	C (GC)			v.e.							
LCS (EF41501-BS1	l)		į · · ·		1	Prepared	& Analyz	zed: 06/14/	04			
Benzene		,,	80.1		ug/kg	100		80.1	80-120			· · · · · · · · · · · · · · · · · · ·
Foluene			85.1		, * H	100		85.1	80-120			
Ethylbenzene		1 - 20	82.5			100		82.5	80-120			
Xylene (p/m)		¥ 1. 1 1. 1	165		5 m	200		82.5	80-120			** •
Xylene (o)		1. 2. 1.	83.2		**	100		83.2	80-120		,	,
Surrogate: a,a,a-Triflu	orotoluene	7.4	92.1		<i>e. p</i>	100		92.1	80-120		•	
Surrogate: 4-Bromoflu	orobenzene	1	88.1		. "	100		88.1	80-120		* * * *	
Calibration Check ((EF41501-	CCV1)			^ ;	Prepared of	& Analyz	ed: 06/14/	04		,	
Benzene		- 4	87.7	*3	ug/kg	100		87.7	80-120			
Toluene			95.0	4.	, н	100		95.0	80-120			
Ethylbenzene			91.3	5 1 -	, п	100		91.3	80-120			
Xylene (p/m)		1	182	•••		200	•	91.0	80-120			George .
Xylene (o)		1. 4	88.0	- "		100		88.0	80-120			
Surrogate: a,a,a-Triflu	orotoluene	1	104		· //	100		104	80-120			
Surrogate: 4-Bromoflu	orobenzene	•	83.9		7. 5 H	100		83.9	80-120		. City of	, , ,
Matrix Spike (EF41	501-MS1)	· · · · · · · · · · · · · · · · · · ·	S	ource: 4F1400	1-16	Prepared &	& Analyz	ed: 06/14/0)4	r 1277 .	". J.,	A. Con
Benzene		4-1,	2050		ug/kg	2500	ND	82.0	80-120			
Foluene	11	$(\gamma_{ij},\gamma_{ij})_{ij} = (\gamma_{ij},\gamma_{ij})_{ij}$	2100	. *	\ •	2500	ND	84.0	80-120			
Ethylbenzene	1 7		2080	. **	Sec. 2	2500	ND	83.2	80-120			
Xylene (p/m)	1,,		4170	1.1	7 H	5000	40.3	82.6	80-120			, , , , , , , , , , , , , , , , , , ,
Xylene (o)	1.1	*.	2120	•	#I -	2500	ND	84.8	80-120			(2)
Surrogate: a,a,a-Trifluo	orotoluene	4	91.9		. #	100		91.9	80-120	·		· <u> </u>
Surrogate: 4-Bromoflu	orobenzene	,	91.5		"	100		91.5	80-120	•		
Matrix Spike Dup (I	EF41501-N	ASD1)	S	ource: 4F1400	1-16	Prepared &	& Analyze	ed: 06/14/0	14	· ·		
Benzene		+ Y + 115	2070		ug/kg	2500	ND	82.8	80-120	0.971	20	15 - 1
Toluene			2100			2500	ND	84.0	80-120	0.00	20	**
Ethylbenzene			2060		н	2500	ND	82.4	80-120	0.966	20	
Kylene (p/m)			4120			5000	40.3	81.6	80-120	1.22	20	
Kylene (o)			2090		"	2500	ND	83.6	80-120	1.43	20	ž t e
Surrogate: a,a,a-Trifluo	orotoluene		88.9		r	100	<u> </u>	88.9	80-120			
Surrogate: 4-Bromofluo	orobenzene		89.2		"	100	•	89.2	80-120			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits RPD	RPD Limit	Notes
Batch EF41601 - EPA 5030C (GC)									
Blank (EF41601-BLK1)				Prepared	& Analyze	d: 06/14/	04		
Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	"						
Ethylbenzene	ND	0.0250	"			•			
Xylene (p/m)	ND	0.0250	H						
Xylene (o)	ND	0.0250	**						
Surrogate: a,a,a-Trifluorotoluene	86.5		ug/kg	100		86.5	80-120		
Surrogate: 4-Bromofluorobenzene	81.6		"	100		81.6	80-120		
LCS (EF41601-BS1)				Prepared &	& Analyze	d: 06/14/()4		
Benzene	80.1		ug/kg	100		80.1	80-120		
Toluene	85.1		n	100		85.1	80-120		
Ethylbenzene	82.5		11	100		82.5	80-120		
Xylene (p/m)	165		u	200		82.5	80-120		
Xylene (o)	83.2		11	100		83.2	80-120		
Surrogate: a,a,a-Trifluorotoluene	92.1			700		92.1	80-120		
Surrogate: 4-Bromofluorobenzene	88.1		"	100		88.1	80-120		
Calibration Check (EF41601-CCV1)				Prepared:	06/14/04	Analyzed	: 06/15/04		
Benzene	87.5		ug/kg	100		87.5	80-120		
Toluene	90.5		**	100		90.5	80-120		
Ethylbenzene	88.3		н	100		88.3	80-120		
Kylene (p/m)	178		"	200		89.0	80-120		
Kylene (o)	92.8		et .	100		92.8	80-120		
Surrogate: a,a,a-Trifluorotoluene	93.4		7/	100		93.4	80-120		
urrogate: 4-Bromofluorobenzene	91.4		"	100		91.4	80-120		
Matrix Spike (EF41601-MS1)	Sou	ırce: 4F150(3-07	Prepared &	k Analyze	d: 06/1 5 /0	4		
Benzene	90.6		ug/kg	100	ND	90.6	80-120		
foluene	93.9		•	100	ND	93.9	80-120		
thylbenzene	94.8		11	100	ND	94.8	80-120		
Xylene (p/m)	192		Ħ	200	ND	96.0	80-120		
Kylene (o)	101		n .	100	ND	101	80-120		
urrogate: a,a,a-Trifluorotoluene	93.7			100		93.7	80-120		
Surrogate: 4-Bromofluorobenzene	106		n	100		106	80-120		

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF41601 - EPA 50300	C (GC)	نه ندب							7 (.		
Matrix Spike Dup (EF41601-M	SD1)	So	urce: 4F15003	-07	Prepared	& Analyze	d: 06/15/	04		. * .	
Benzene		92.5		ug/kg	100	ND	92.5	80-120	2.08	20	:
Toluene		95.6		11	100	ND	95.6	80-120	1.79	20	
Ethylbenzene		94.8		11	100	ND	94.8	80-120	0.00	20	
Xylene (p/m)		191		*	200	ND	95.5	80-120	0.522	20	•
Xylene (o)		99.2		H	100	ND	99.2	80-120	1.80	20	
Surrogate: a,a,a-Trifluorotoluene		100	<u> </u>	"	100		100	80-120		 	
Surrogate: 4-Bromofluorobenzene		104		#	100		104	80-120		* 3 1	
Batch EF41602 - EPA 5030C	(GC)	1600	7) × .	•							, ,
Blank (EF41602-BLK1)	- •	6.5	٤.	• 1	Prepared a	& Analyze	d: 06/15/0)4			
Benzene	1.1	ND	0.0250 mg	g/kg wet							
Toluene	المعنى الم	ND	0.0250	**							
Ethylbenzene		ND	0.0250	, , , d	•						;
Xylene (p/m)		ND,	0.0250				**			•	The Alberta
Xylene (o)	V 200	ND	0.0250				. 6		e,		Springer State
Surrogate: a,a,a-Trifluorotoluene		97.9		ug/kg	100		97.9	80-120			 .
Surrogate: 4-Bromofluorobenzene	* * * * * * * * * * * * * * * * * * *	92.0	0	· (## ^{- C}	100		92.0	80-120			
I CC (FE41603 BC1)	to suffer			•	Dunnanad (Pr. A	. 0 <i>6 (1 5 (</i> 0				
LCS (EF41602-BS1) Benzene	. 4,	90.7			100	& Analyze	90.7	80-120			
	Sec. 2019			ug/kg				80-120 80-120			
Toluene		93.2			100		93.2				
Ethylbenzene Various (n/m)	et a e	90.2			100		90.2	80-120 80-120		-	
Xylene (p/m)	The State of Section	182	•	` "	200		91.0			* 1	,
Xylene (o)	2.7	96.0		. "	100		96.0	80-120		1.1 - 135	
Surrogate: a,a,a-Trifluorotoluene		96.8			100		96.8	80-120			- De 100
Surrogate: 4-Bromofluorobenzene	,,	98.9	·.	# 1	100		98.9	80-120			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

Analyte	Result	Reporting Limit U	Jnits	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	l: 06/16/04	ļ		
Benzene	96.4	u	g/kg	100		96.4	80-120			
Toluene	93.5		п	100		93.5	80-120			
Ethylbenzene	88.0		н	100		88.0	80-120			
Xylene (p/m)	176		**	200		0.88	80-120			
Xylene (o)	91.4		11	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)	So	urce: 4F11010-0	1	Prepared:	06/15/04	Analyzed	: 06/16/04			
Benzene	101	ug	g/kg	100	ND	101	80-120		·	
Toluene	98.6		*	100	ND	98.6	80-120			
Ethylbenzene	96.3		н	100	ND	96.3	80-120			
Xylene (p/m)	194		H	200	ND	97.0	80-120			
Xylene (o)	101		**	100	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.5	· · · · · · · · · · · · · · · · · · ·	77	100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			
Matrix Spike Dup (EF41602-MSD1)	So	urce: 4F11010-0	1	Prepared: (06/15/04	Analyzed	: 06/16/04			
Benzene	103	ug	g/kg	100	ND	103	80-120	1.96	20	
Toluene	99.4		н	100	ND	99.4	80-120	0.808	20	
Ethylbenzene	96.6		ıt	100	ND	96.6	80-120	0.311	20	
Kylene (p/m)	196		**	200	ND	98.0	80-120	1.03	20	
Kylene (o)	102		11	100	ND	102	80-120	0.985	20	
Surrogate: a,a,a-Trifluorotoluene	85.4		70	100		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80~120			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:

06/16/04 17:03

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

Analyte	95 Mil 25 A	Reșult a.e.	eporting Limit Units	Spike Level	Source Result	%REC	%REC Limits RPD	RPD Limit	Notes
Batch EF41301 - General Pi	eparation (P	rep)						: ,	
Blank (EF41301-BLK1)				Prepared &	Analyze	d: 06/11/04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		state to €.
% Solids	Trans.	100	%	.111					
Duplicate (EF41301-DUP1)	er e	Source	: 4F11001-01	Prepared &	Analyze	d: 06/11/04	1		1.14
% Solids	7.1	86.0	%		86.0	1 '	0.00	20	
Duplicate (EF41301-DUP2)	L	Source	: 4F12001-17	Prepared &	Analyze	d: 06/11/04			,
% Solids	(e.e.,)	86.0	%		87.0	E + 45	1.16	20	100

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:03

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.

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:

Kalaner Juli

Date: 6-16-04

Raland K. Tuttle, QA Officer

Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sara Molina, Chemist

Sandra Biezugbe, Lab Tech.

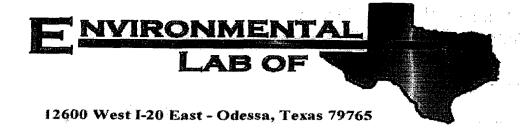
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If you have received this material in error, please notify us immediately at 432-563-1800.

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Jal 14" Mainline #6 2003-00135				Analyze For		BLEX 8051B/203			X	×	¶×	×	X	× ×		_	igoplus	44	-		d	abor	6.5	1
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18 Marketing			ley	\		Date Sampled	06/08/2004	06/08/2004	06/08/2004	06/08/2004	06/08/2004	06/08/2004	06/08/2004	06/08/2004			2			7	FAX RESULTS TO PAT McCASLAND ASAP	Time	Time 12,53	
ins Marke			Bund		11	ghangh ig						· .									X RESULTS	Date	Date (//1/4)	,
Sesa 1 exas 79 005 Project Manager: Jeff Dann Company Name: Link Energy / Plains Marketing			medas			il area	SL14M060804H#1 -3 SL14M060804H#1 -8'	1004H#2 -2.	SL14M061004H#2 -6'	SL14M061004H#2 -13 SL14M061004H#3 -1'6"	SL14M061004H#3 -5'	SL14M061004H#3 -14	SL14M061004H#4 -2 SL14M061004H#4 -8'	SL14M061004H#4-15							FA	Drawly.		{
Odessa Texas 79763 Project Manager: Jeff Dann Company Name: Link Ener	Company Address:	City/State/Zip:	Sampler Signature:			- S	SL14M06	SI14M06	SL14M06	SLI4M06	ST SL14M06	SL14M06	NO ST.14M06	41 SL14M06						Special Instructions		Relinquished:	Refinquished:	

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

Client: Plains				,
Date/Time: 06-11-04 @ 1200				
Order #: 4F 11 00 9				# # # #
Initials: JMM				
Sample Receip	t Checkl	ict		
Temperature of container/cooler?	(Yes	No	0.5	cl
Shipping container/cooler in good condition?	Yes	No	N/A	<u> </u>
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?	(Tes	No	Mot present	2
Sample Instructions complete on Chain of Custody?	Kes	No		
Chain of Custody signed when relinquished and received?	(Yes)	No		 -
Chain of custody signed when reiniquished and received: Chain of custody agrees with sample label(s)	(Ves)	No	<u> </u>	
Container labels legible and intact?	(Yes)	No		
Sample Matrix and properties same as on chain of custody?	/Tes	No		
Samples in proper container/bottle?	(Tes)	No		
Samples properly preserved?	(es)	No		
Sample bottles intact?	YES)	No		
Preservations documented on Chain of Custody?	(ES)	No		
Containers documented on Chain of Custody?	(Fes)	No		
Sufficient sample amount for indicated test?	(PES)	No	·	
All samples received within sufficient hold time? VOC samples have zero headspace?	(res)	No No	Not Applicable	
Variance Docun Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				
				·
•				, , , , , , , , , , , , , , , , , , ,
				
· ————				



Analytical Report

Prepared for:

Jeff Dann

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

Project: Jal 14 in. Mainline #6 Project Number: 2003-00135

Location: None Given

Lab Order Number: 4F11011

Report Date: 06/16/04

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SL14M061004WSW	4F11011-01	Soil	06/10/04 10:12	06/11/04 10:50
SL14M061004BH	4F11011-02	Soil	06/10/04 10:16	06/11/04 10:50
SL14M061004ESW	4F11011-03	Soil	06/10/04 10:20	06/11/04 10:50

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:04

Organics by GC Environmental Lab of Texas

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Reporting	Timber		_	_		_	i Visi
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
SL14M061004WSW (4F11011-01) Sc	oil								
Benzene	ND	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene	ND	0.0250	H .	Ħ	И	**	H	11	
Ethylbenzene	ND	0.0250	**	H	11	u	It	n	
Xylene (p/m)	ND	0.0250	**	**	ı	"	H	U	
Xylene (o)	ND	0.0250	N	**	Ħ	н	n	**	
Surrogate: a,a,a-Trifluorotoluene	1.	95.1 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	80-1	20	"	"	"	"	
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	n	N	**	#		W	
Total Hydrocarbon C6-C35	ND	10.0	"	n	Ħ	**	**	**	
Surrogate: 1-Chlorooctane		86.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.2 %	70-1	30	"	"	"	"	
SL14M061004BH (4F11011-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene	ND	0.0250	н	**	u	*	•	н	
Ethylbenzene	ND	0.0250	#		**		n	N	
Xylene (p/m)	ND	0.0250	**	**	11	H	#	H	
Xylene (o)	ND	0.0250	u		n	Ħ	"		
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80-12	20	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-12	20	"	"	"	"	
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	13.6	10.0	u .	11			n	Ħ	
Total Hydrocarbon C6-C35	13.6	10.0	**	**	•	•	n	Ħ	
Surrogate: 1-Chlorooctane		70.0 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.4 %	70-13	30	"	"	"		
SL14M061004ESW (4F11011-03) Soil	l								
Benzene	ND	0.0250	mg/kg dry	25	EF41602	06/15/04	06/16/04	EPA 8021B	
Toluene Toluene	ND	0.0250	11	n	H	**	11	11	
Ethylbenzene	ND	0.0250	*	11	**	п	11	H	
Xylene (p/m)	ND	0.0250	**		Ħ	Ħ	**	**	
Kylene (o)	ND	0.0250	H	u	•	n		•	
Surrogate: a,a,a-Trifluorotoluene		87.4 %	80-12	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		103 %	80-12	20	"	"	"	n	
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	H		Ħ	"	•	u	
Total Hydrocarbon C6-C35	ND	10.0	n		H	H	*	ü	

Environmental Lab of Texas

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

Page 2 of 9

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:04

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SL14M061004ESW (4F11011-03) Soil									
Surrogate: 1-Chlorooctane		92.4 %	70	130	EF41120	06/11/04	06/12/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		82.0 %	70	130	"	n	"	"	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 06/16/04 17:04

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

Analyte	, · · ·		Result	Reporting Limit	Units	Dilution	n Batch	Prepared	Analyzed	Method	Notes
SL14M06100	4WSW (4F11	011-01) Soil	·····	<u> </u>							
% Solids			35.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M06100	4BH (4F1101 1	1-02) Soil									
% Solids			92.0		%	1	EF41301	06/11/04	06/11/04	% calculation	
SL14M061004	4ESW (4F110	11-03) Soil									
% Solids			81.0		%	1	EF41301	06/11/04	06/11/04	% calculation	· · · · · · · · · · · · · · · · · · ·

And Roberts

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:04

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	& Analyze	d: 06/11/	04		· · ·	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						· · · · · · · · · · · · · · · · · · ·	
Diesel Range Organics >C12-C35	ND	10.0	Ħ							
Total Hydrocarbon C6-C35	ND	10.0	u							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	70-130			
Surrogate: 1-Chlorooctadecane	3 7.7		"	50.0		75.4	70-130			
LCS (EF41120-BS1)				Prepared a	& Analyze	d: 06/11/0	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	11	500		105	75-125			
Total Hydrocarbon C6-C35	964	10.0	11	1000		96.4	75-125			
Surrogate: I-Chlorooctane	51.4		mg/kg	50.0		. 103	70-130			
Gurrogate: 1-Chlorooctadecane	41.9		n	50.0		83.8	70-130			
LCS (EF41120-BS2)				Prepared &	& Analyze	d: 06/11/0)4			
Gasoline Range Organics C6-C12	411	10.0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	457	10.0	11	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			
urrogate: 1-Chlorooctadecane	40.1		n	50.0		80.2	70-130			
LCS Dup (EF41120-BSD1)				Prepared &	& Analyze	d: 06/11/0)4			
Gasoline Range Organics C6-C12	453	10.0	mg/kg wet	500		90.6	75-125	2.91	20	
iesel Range Organics >C12-C35	495	10.0	11	500		99.0	75-125	5.69	20	
Total Hydrocarbon C6-C35	948	10.0	11	1000		94.8	75-125	1.67	20	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	70-130			
urrogate: 1-Chlorooctadecane	41.7		"	50.0		83.4	70-130			
Calibration Check (EF41120-CCV2)				Prepared &	& Analyze	d: 06/11/0	14			
Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
iesel Range Organics >C12-C35	493		H	500		98.6	80-120			
rotal Hydrocarbon C6-C35	918		11	1000		91.8	80-120			
Surrogate: 1-Chlorooctane	51.0		"	50.0		102	70-130			
urrogate: 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:

06/16/04 17:04

Analyte	Result	Reporting Limit Units	Spike Source Level Resul		%REC Limits	RPD	RPD Limit	Notes
Batch EF41120 - Solvent Extra	action (GC)			t	1			
Matrix Spike (EF41120-MS2)	··· So	urce: 4F11010-01	Prepared: 06/11/0	4 Analyze	d: 06/12/04			
Gasoline Range Organics C6-C12	481	10.0 mg/kg dry	538 ND	89.4	75-125	7.	\$1.5	
Diesel Range Organics >C12-C35	555	10.0 "	538 ND	103	75-125		*	, 1
Total Hydrocarbon C6-C35	1040	10.0 "	1080 ND	96.3	75-125			Land Control
Surrogate: 1-Chlorooctane	₹ 58.7	mg/kg	50.0	116	70-130	· · ·		· · ·
Surrogate: 1-Chlorooctadecane	<i>38.9</i>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.0	77.8	70-130			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Matrix Spike Dup (EF41120-MSI	02) So	urce: 4F11010-01	Prepared: 06/11/0	4 Analyzeo	1: 06/12/04		(, ,	12622
Gasoline Range Organics C6-C12	470	10.0 mg/kg dry	538 ND	87.4	75-125	2.31	20	700 × 40
Diesel Range Organics >C12-C35	.558	10.0 i. "	538 ND	104	75-125	0.539	20	
Total Hydrocarbon C6-C35	1030	10.0	1080 (1) 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)		 			· .	n <u></u>	,
Blank (EF41602-BLK1)	<u> </u>	· Ca.	Prepared & Analy	zed: 06/15/	04	-:	,	<u> </u>
Benzene	ND	0.0250 mg/kg wet	,				*****	to the same
Toluene	ND	0.0250 "					1, 1,24	and the state of the state of
Ethylbenzene	ND	0.0250 "	- '				985 ° .	* * * * * *
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		95.	
Surrogate: 4-Bromofluorobenzene	92.0	, n	100	92.0	80-120			
LCS (EF41602-BS1)		***	Prepared & Analyz	zed: 06/15/0	04 .			
Benzene	90.7	ug/kg	100	90.7	80-120		· · · · · · · · · · · · · · · · · · ·	
Toluene	93.2	•	100	93.2	80-120			
Ethylbenzene	90.2	1970	100	90.2	80-120			100
Xylene (p/m)	182		200	91.0	80-120			u i i
Xylene (o)	96.0	#	100	96.0	80-120	7.7	·	
Surrogate: a,a,a-Trifluorotoluene	96.8		100	96.8	80-120		1	` ,`
Surrogate: 4-Bromofluorobenzene	98.9		100	98.9	80-120			8 8 10

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/16/04 17:04

Analyte	Result	Reporting Limit U	nits	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	l: 06/16/04			
Benzene	96.4	ug	g/kg	100		96.4	80-120			
Toluene	93.5		Ħ	100		93.5	80-120			
Ethylbenzene	88.0		**	100		88.0	80-120			
Xylene (p/m)	176		n	200		0.88	80-120			
Xylene (o)	91.4		н	100		91.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.0		11	100		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	89.5		"	100		89.5	80-120			
Matrix Spike (EF41602-MS1)	So	urce: 4F11010-01	1	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		n	100	ND	96.3	80-120			
Kylene (p/m)	194		tt	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			
urrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			
Matrix Spike Dup (EF41602-MSD1)	So	urce: 4F11010-01	l	Prepared:	06/15/04	Analyzed:	06/16/04			
Renzene	103	ug	/kg	100	ND	103	80-120	1.96	20	
oluene	99.4	ı	•	100	ND	99.4	80-120	0.808	20	
Ethylbenzene	96.6	ı	n	100	ND	96.6	80-120	0.311	20	
Xylene (p/m)	196	1	н	200	ND	98.0	80-120	1.03	20	
ylene (o)	102	1	**	100	ND	102	80-120	0.985	20	
surrogate: a,a,a-Trifluorotoluene	85.4		ır	100		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	106		**	100		106	80-120			
<u> </u>										

Plains All American EH & S 1301 S. County Road 1150

Midland TX, 79706-4476

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 06/16/04 17:04

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

Analyte		 and the	Reporting Result Limit	Spike Units Level	Source Result	%REC	%REC Limits RPD	RPD Limit	Notes
		 		· · · · · · · · · · · · · · · · · · ·	** 2.5.5				

Batch EF41301 - General Pro	eparation (I	Prep)						
Blank (EF41301-BLK1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	arria Site		Prepared & Analyzed	: 06/11/04	AT BANK A TANK A SA	.)	\$ 1.7
% Solids	1.4-40	. 100	%	8			-	
Duplicate (EF41301-DUP1)	****	Source:	4F11001-01	Prepared & Analyzed	: 06/11/04			1-
% Solids	1	86.0	%	86.0		0.00	20	, i
Duplicate (EF41301-DUP2)	Security S	Source:	4F12001-17	Prepared & Analyzed	: 06/11/04			
% Solids	· , · ·	86.0	%	87.0		1 16	20	,,

 $Y = \{Y_{i+1}, \dots, x_i\}$

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 06/16/04 17:04

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

Matrix Spike

Dup Duplicate

Report Approved By: Roland K Just

6-16-04

Raland K. Tuttle, OA Officer

Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sara Molina, Chemist

Sandra Biezugbe, Lab Tech.

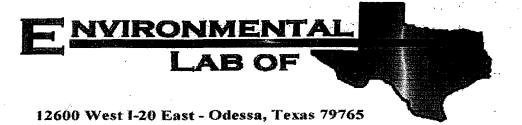
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If you have received this material in error, please notify us immediately at 432-563-1800.

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

Client: Plains				,
Date/Time: 06-11-04@ 1215				
Order #: 4 F 11 0 11				
Initials: Jmm				
Sample Receipt	Checkl	ist		
Temperature of container/cooler?	(Yes)		0.5	
Shipping container/cooler in good condition?	Yes	No	NA	
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	(tot process)	
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?	(es)	No		
Sample Matrix and properties same as on chain of custody?	Ves	No		-
Samples in proper container/bottle?	Yes	No		-
Samples properly preserved?	Yes	No		-1
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		7
VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Other observations:				
Variance Docume Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				
	· · · · · · · · · · · · · · · · · · ·			



Analytical Report

Prepared for:

Jeff Dann

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

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Location: None Given

Lab Order Number: 4F17006

Report Date: 06/21/04

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/21/04 11:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Jal14Main#6616041A	4F17006-01	Soil	06/16/04 07:07	06/17/04 12:40
Jal14Main#66160417A	4F17006-02	Soil	06/16/04 07:12	06/17/04 12:40
Jal14Main#6616046A	4F17006-03	Soil	06/16/04 07:15	06/17/04 12:40
Jal14Main#66160414A	4F17006-04	Soil	06/16/04 07:18	06/17/04 12:40
Jal14Main#6616047A	4F17006-05	Soil	06/16/04 07:20	06/17/04 12:40
Jal14Main#6616048A	4F17006-06	Soil	06/16/04 07:24	06/17/04 12:40
Jal14Main#66160410A	4F17006-07	Soil	06/16/04 07:27	06/17/04 12:40
Jal14Main#66160411A	4F17006-08	Soil	06/16/04 07:30	06/17/04 12:40
Jal14Main#66160420A	4F17006-09	Soil	06/16/04 07:34	06/17/04 12:40

Project: 'Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914 Reported:

06/21/04 11:32

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	ı Batch	Prepared	Analyzed	Method	Note
Jal14Main#6616041A (4F17006-01) So	·			Ditution	Daton	Tiepateu	Allalyzeu	*	
Benzene		0.0250		25	EE 40 100	06117104	0(1)0104	ED L 9031D	1. 1. N. N.
	ND		mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	ta tulkin
Totache	ND	0.0250						<u>.</u> (.	
Ethylbenzene (*)	ND	0.0250	11	· , "		,			
Xylene (p/m) Xylene (o)	ND ND	0.0250	*	, n	n	**	11	n . 42	
Surrogate: a,a,a-Trifluorotoluene	.:	93.9 %	80-1	120			"	<i>n</i> ;	
Surrogate: 4-Bromofluorobenzene	•	97.9 %	80-1		,,	"	"		
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EF41705	06/17/04	06/17/04	" EPA 8015M	*
Diesel Range Organics >C12-C35	150	10.0	11	,	11	"	и	H	
Total Hydrocarbon C6-C35	150	10.0		11		H	#	н	
Surrogate: 1-Chlorooctane	150	109 %	70-1	130	"		,,	<i>m</i>	
Surrogate: 1-Chlorooctadecane		104 %	70-1		**	"	"	n	
surrogate. 1-Cmorooctaaecane		104 70	70-1	30					
Jal14Main#66160417A (4F17006-02) Sc	il								
Benzene	10.4	0.100	mg/kg dry	100	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	48.3	0.100	H	n	Ħ	n	ŧ	•	
Ethylbenzene	36.4	0.100	**	**	**	*	"		
Kylene (p/m)	61.6	0.100	Ħ	Ħ	н	Ħ	#	W	
Kylene (o)	23.0	0.100	**	•	*		11	"	
Surrogate: a,a,a-Trifluorotoluene		664 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		109 %	80-1	20	"	"	n	"	
Gasoline Range Organics C6-C12	3250	10.0	mg/kg dry	1	EF41705	06/17/04	06/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	5810	10.0	н	**	*	**	Ħ	**	
Total Hydrocarbon C6-C35	9060	10.0	н	n	n	•	n	**	
Surrogate: 1-Chlorooctane		128 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		145 %	70-1	30	"	"	"	"	S-04
Jal14Main#6616046A (4F17006-03) Soil									
Benzene	1.12	0.0500	mg/kg dry	50	EF42102	06/17/04	06/18/04	EPA 8021B	
Foluene	8.67	0.0500	n	**	n	"	**	n	
Ethylbenzene	9.59	0.0500	н	•	**	Ħ	*	n	
Kylene (p/m)	17.8	0.0500	**	н	**		H	•	
Kylene (o)	6.02	0.0500	Ħ	н		**	10	n	
Surrogate: a,a,a-Trifluorotoluene		260 %	80-1	20	"	"	"	n	S-04
Surrogate: 4-Bromofluorobenzene		80.1 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	1560	10.0	mg/kg đry	1	EF41705	06/17/04	06/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	5530	10.0	H	*	•	n	Ħ	"	
Total Hydrocarbon C6-C35	7090	10.0	N	11	n	**	и	p	

Environmental Lab of Texas

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 06/21/04 11:32

Organics by GC **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Jal14Main#6616046A (4F17006-03)	Soil								
Surrogate: 1-Chlorooctane		122 %	70	130	EF41705	06/17/04	06/17/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		161 %	70	130	"	"	H	"	S-04
 Jal14Main#66160414A (4F17006-04)) Soil								
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	ND	0.0250	•	H	11	**	II .	н	
Ethylbenzene	ND	0.0250	*	n	ŧr	**	н	n	
Xylene (p/m)	ND	0.0250	**	**	н	11	**	ti	
Xylene (o)	ND	0.0250	n	•	11	H	Ħ	I+	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41705	06/17/04	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	n		11	•	n	
Total Hydrocarbon C6-C35	ND	10.0	н	#	Ħ	**	*	n	
Surrogate: 1-Chlorooctane		115 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-1	30	"	"	"	"	
/ Jal14Main#6616047A (4F17006-05) 8	Soil								
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	
Coluene	ND	0.0250	II	11	H	"	H	"	
Ethylbenzene	ND	0.0250	"	n	*	n	н	"	
Xylene (p/m)	ND	0.0250	u	n	ıı	"	н	n.	
(ylene (o)	ND	0.0250	n	н	0	и	er	17	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	80-1	20	11	"	"	,,	
furrogate: 4-Bromofluorobenzene		101 %	80-1	20	"	"	"	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41705	06/17/04	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11		n	н	Ħ	н	
Total Hydrocarbon C6-C35	ND	10.0	11	n	"	H.	n	•	
urrogate: 1-Chlorooctane		111 %	70-1	30	,,	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-1	30	**	n	**	89	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:

06/21/04 11:32

Organics by GC Environmental Lab of Texas

		mit Air Oir			LUAMS				
Analyte	Result	Reporting Limit	Units	Diluti	on Batch	Prepared	Analyzed	Method	Notes
Jal14Main#6616048A (4F17006-06)	Soil	· · · · · · · · · · · · · · · · · · ·							1 47 37 4 3
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	and the
Toluene	ND	0.0250			#	H	n	Contract of	e di di
Ethylbenzene	ND	0.0250	H	n	11	и	11	"	
Xylene (p/m)	ND	0.0250	. "	n	u u	11	• .	. * #	West of the second
Xylene (o)	ND	0.0250			(i),t	11	11		, , , , , , , , , , , , , , , , , , , ,
Surrogate: a,a,a-Trifluorotoluene		91.1 %	80-1.	20		"	"	"	•
Surrogate: 4-Bromofluorobenzene		103 %	80-1.	20	· · · n	n · ·	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41705	06/17/04.	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	. "	. 0		н ,	n	*	4 2
Total Hydrocarbon C6-C35	, ND	10.0	H ' , , ,			"	"	, #	
Surrogate: 1-Chlorooctane	1	102 %	70-1:	30	. "	"	"		A. A
Surrogate: 1-Chlorooctadeçane	ar ar	98.6 %	70-13	3 <i>0</i>	, , , , ,		"	' n	
<u> </u>									
Jal14Main#66160410A (4F17006-07) Soil							6 0	11.4 - 1
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/19/04	EPA 8021B	
Foluene	ND	0.0250	" ,	, #	, , , ,	H	Ħ	,,m	1 8 A
Ethylbenzene	ND	0.0250	n	*	11	n .		н	
Xylene (p/m)	ND	0.0250	H	**	H	H	10 11 11		
Xylene (o)	ND	0.0250				11			
Surrogate: a,a,a-Trifluorotoluene		89.7 %	80-12	20	: " · · ·	"	"	"	:
Surrogate: 4-Bromofluorobenzene	,	88.2 %	80-12	20		<i>"</i> .	"	"	
Gasoline Range Organics C6-C12	ND.	10.0	mg/kg dry	1	EF41705	06/17/04	06/18/04	EPA 8015M	(%). S
Diesel Range Organics >C12-C35	59.2	10.0	o ^M	•			#	n	
Total Hydrocarbon C6-C35	59.2	10.0		, 1 m 1	,	11	и .		Brook Brook
Surrogate: 1-Chlorooctane	. 1	108 %	70-13	80	,, · ", ,	"	"	, "	
Surrogate: 1-Chlorooctadecane	. Section 1	104 %	70-13	80		<i>n</i> · · ·	n		1.00
					; .			r .	e ();
Jal14Main#66160411A (4F17006-08)	Soil	•				ţ .		r * .	T - 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene	0.396	0.100	mg/kg dry	100	EF42102	06/17/04	06/18/04	EPA 8021B	100
Toluene	4.26	0.100	٠, ,		tr .	11	**		and the Notes
Ethylbenzene	5.82	0.100	11	10		**	u	н	
Xylene (p/m)	11.7	0.100	11		*	•	**	н	
Xylene (o)	4.68	0.100	"	u	**	10	u	**	
Surrogate: a,a,a-Trifluorotoluene		126 %	80-12	20	"	"	"	н	S-04
Surrogate: 4-Bromofluorobenzene		83.2 %	80-12	20	n	"	"	"	
Gasoline Range Organics C6-C12	2080	50.0	mg/kg dry	5	EF41705	06/17/04	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	16300	50.0	**	n	n		H	u	
Fotal Hydrocarbon C6-C35	18400	50.0	**	**	11			Ħ	

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

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Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
Jal14Main#66160411A (4F17006-08)	Soil		·						·····
Surrogate: 1-Chlorooctane		29.8 %	70-13	30	EF41705	06/17/04	06/18/04	EPA 8015M	S-06
Surrogate: 1-Chlorooctadecane		65.8 %	70-13	30	"	"	"	"	S-06
Jal14Main#66160420A (4F17006-09)	Soil								
Benzene	ND	0.0250	mg/kg dry	25	EF42102	06/17/04	06/18/04	EPA 8021B	
Toluene	ND	0.0250	n	,	TT TT	"	U	H .	
Ethylbenzene	ND	0.0250	11	H	*	n	n		
Xylene (p/m)	0.0590	0.0250	40	**	"	"	n	II.	
Xylene (o)	ND	0.0250	n	n	"	H	11	11	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-12	0	n	21	,,	,,	
Surrogate: 4-Bromofluorobenzene		98.7 %	80-12	0	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EF41705	06/17/04	06/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	73.8	10.0	II.	*	**	**	**	n	
Total Hydrocarbon C6-C35	73.8	10.0	**		n	н	"	u	
Surrogate: 1-Chlorooctane		110 %	70-13	0	"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-13	0	n	"	"	"	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

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

Analyte	Result		Reporting Limit	Units	D ::	75 4.1	D 197			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kesuit		Luun	Ollis	Dilutio	on Batch	Prepared 1	Analyzed	Method	Note
Jal14Main#6616041A (4F17006-01) Soil				,				· · · · · ·		
% Solids	100	1 - 1	٠	% .	. 1	EF41806	06/17/04	06/17/04	% calculation	
Jal14Main#66160417A (4F17006-02) Soil						,				V 32 - 41
% Solids	87.0			%	. 1	EF41806	06/17/04	06/17/04	% calculation	e e de de de de de de de de de de de de
Jal14Main#6616046A (4F17006-03) Soil	¥ε.,	£ .		*	o i	Contraction of the Contraction o	t. Egy			
% Solids	96.0			%	1	EF41806	06/17/04	06/17/04	% calculation	1815 S
Jal14Main#66160414A (4F17006-04) Soil				ı		200	: .			14.
% Solids	98.0			%	1 4	EF41806	06/17/04	06/17/04	% calculation	. 25° 5
Jal14Main#6616047A (4F17006-05) Soil		:			· 3 - 4	± ,			Value of Specific	$\mathcal{T}_{\mathcal{A}_{2}^{n}} = \mathcal{T}(\alpha) +$
% Solids	99.0			%	1	EF41806	06/17/04	06/17/04	% calculation	
Jal14Main#6616048A (4F17006-06) Soil						•			* W	$(\mathcal{O}_{\mathcal{C}_{p}}(x,y)) = (1-\epsilon)_{p}$
% Solids	99.0			%	1	EF41806	06/17/04	06/17/04	% calculation	
Jal14Main#66160410A (4F17006-07) Soil										
% Solids	98.0			%	1	EF41806	06/17/04	06/17/04	% calculation	
Jal14Main#66160411A (4F17006-08) Soil								_		
% Solids	98.0			%	1	EF41806	06/17/04	06/17/04	% calculation	
Jal14Main#66160420A (4F17006-09) Soil										
% Solids	93.0			%	1	EF41806	06/17/04	06/17/04	% calculation	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits • R	RPD	RPD Limit	Notes
Batch EF41705 - Solvent Extraction	(GC)									
Blank (EF41705-BLK1)				Prepared	& Analyze	d: 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	70-1 3 0			
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	tt							
Total Hydrocarbon C6-C35	ND	10.0	11							
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 &	& Analyze	d: 06/17/0)4			
Gasoline Range Organics C6-C12	480	10.0	mg/kg wet	500		96.0	75-125			
Diesel Range Organics >C12-C35	536	10.0	11	500		107	75-125			
Total Hydrocarbon C6-C35	1020	10.0	н	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	u .	1000		99.7	75-125			
Surrogate: 1-Chlorooctane	35.5		mg/kg	50.0		111	70-130			
urrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
Calibration Check (EF41705-CCV1)				Prepared &	& Analyzeo	1: 06/17/0	14			
Gasoline Range Organics C6-C12	523		mg/kg	500		105	80-120			
Diesel Range Organics >C12-C35	562		н	500		112	80-120			
otal Hydrocarbon C6-C35	1090		"	1000		109	80-120			
Surrogate: 1-Chlorooctane	53.3		- "-	50.0		107	70-130			
urrogate: 1-Chlorooctadecane	42.9		"	50.0		85.8	70-130			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

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Analyte	.17.	, in .	Résult	Reporting Limit Units	Spike Level			%REC Limits	RPD	RPD Limit	Notes
Batch EF41705 - So	lvent Extr	action (C	GC)					erite ye		e e gar e t	
Calibration Check (El	741705-CC	V2)		a file grown	Prepared	: 06/17/04	Analyze	d; 06/18/0	4		38 E 1974
Gasoline Range Organics	C6-C12		518	mg/kg	500		104	80-120	, ,	1.63	· · · · ·
Diesel Range Organics >C	12-C35		570	#	500		114	80-120	* . *	, j. 1 A.	, x
Total Hydrocarbon C6-C3	5		1090	н	1000		109	80-120		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Surrogate: 1-Chlorooctane	?	6,5 - 15	54.5		50.0		109	70-130			
Surrogate: 1-Chlorooctade	ecane	$f_{t+2,2})^2$	46.7	"	50.0		93.4	70-130		1. 1. 180 .	profession to the
Matrix Spike (EF4170	•	į . ·	12 No 18	ource: 4F17003-01	Prepared	& Analyz	ed: 06/17/	04		43.4	
Gasoline Range Organics (C6-C12	- , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	595	10.0 mg/kg dry	538	ND	111	75-125		* ****	
Diesel Range Organics >C	12-C35		657	10.0 "	538	ND	122	75-125		' 8 P. F	·
Total Hydrocarbon C6-C3:	5		1250	10.0 "	1080	ND	116	75-125			ter office of
Surrogate: I-Chlorooctane	!		62.9	mg/kg	50.0		126	70-130		 	;
Surrogate: 1-Chlorooctade	cane	6°	53.2		50.0		106	70-130	÷	e v	in the second
Matrix Spike (EF4170:	5-MS2)		->\ \ \ \ \ \ S (ource: 4F17007-02	Prepared:	06/17/04	Analyzed	: 06/18/04		, <u>, , , , , , , , , , , , , , , , , , </u>	
Gasoline Range Organics (26-C12	18.78	681	10.0 mg/kg dry	633	/ ND	108	75-125	· .		
Diesel Range Organics >C	12-C35	: : : : ? v	759	10.0 "	633	ND	120	75-125	1.		de proposition of
Total Hydrocarbon C6-C35	i	, t : :	1440	10.0 (19) s n	1270	ND	113	75-125		15 -	25 7
Surrogate: I-Chlorooctane	•	7.20	58.3	mg/kg	50.0		117	70-130		• • •	
Surrogate: 1-Chlorooctade	cane	4.71	49.3	3. * 11	50.0		<i>98.6</i>	7 0-13 0	, p	20 mg - \$1	1.7 . 1.6
Matrix Spike Dup (EF4))))		ource: 4F17003-01	Prepared &						
Gasoline Range Organics C		11	599	10.0 mg/kg dry		ND	111	75-125	0.670	20	
Diesel Range Organics >C	2-C35	12 1	645	10.0		.∷ ND	120	75-125	1.84	20 🐃	the first
Total Hydrocarbon C6-C35		F. 2.1.	1240	10.0	1080	⊕: ND	115	75-125	0.803	20	The street of a first
Surrogate: 1-Chlorooctane		C. T.	63.0	mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctade	cane		<i>52.7</i>	<u>, , , </u>	50.0		105	70-130	•	No. of the	entice of
Matrix Spike Dup (EF4		(2)		ource: 4F17007-02	Prepared:					***	ter for a
Gasoline Range Organics C		(*)		10.0 mg/kg dry		ND	107	75-125	0.589	20	e ⁴ 1 .*
Diesel Range Organics >C1		250 1.27	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	15 A 6.2
Surrogate: 1-Chlorooctane			60.5	mg/kg	50.0		121	70-130	· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctade	cane	10	50.7	√ (n	50.0		101	70-130		A TO STATE OF	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/21/04 11:32

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	& Analyze	ed: 06/17/	04		
Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	11						
Ethylbenzene	ND	0.0250	n						
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 &	& Analyze	:d: 06/17/0)4		
Benzene	100		ug/kg	100		100	80-120		
Toluene	95.8		**	100		95.8	80-120		
Éthylbenzene	91.4		11	100		91.4	80-120		
Xylene (p/m)	185		n	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		10	100		86.0	80-120		
Kylene (p/m)	173		11	200		86.5	80-120		
Kylene (o)	90.8		"	100		90.8	80-120		
Surrogate: a,a,a-Trifluorotoluene	93.6		ı	100		93.6	80-120		
urrogate: 4-Bromofluorobenzene	95.9		"	100		95.9	80-120		
Matrix Spike (EF42102-MS1)	Soi	ırce: 4F170(07-01	Prepared:	06/17/04	Analyzed	06/19/04		
Benzene	98.5		ug/kg	100	ND	98.5	80-120		
oluene	95.3		11	100	ND	95.3	80-120		
thylbenzene	90.2		u	100	ND	90.2	80-120		
Xylene (p/m)	182			200	ND	91.0	80-120		
(ylene (o)	93.7		u	100	ND	93.7	80-120		
urrogate: a,a,a-Trifluorotoluene	96.2		"	100		96.2	80-120		
Surrogate: 4-Bromofluorobenzene	99.2		"	100		99.2	80-120		

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/21/04 11:32

	 						<u> </u>				
				Reporting "	•	Spike	Source		%REC	RPD	
Analyte	 ,	t	Result	Limit	Units	Level	Result	%REC	Limits RPD	Limit	Notes

i mary to	2200410	Dane Onto	Dover	resoure	,,,,,	Diffic	, KG D	Dillit	1,0103
Batch EF42102 - EPA 5030C (GC)							1.000		1.
Matrix Spike Dup (EF42102-MSD1)	Source:	4F17007-01	Prepared	: 06/17/04	Analyze	d: 06/19/04			
Benzene	100	ug/kg	100	ND	100	80-120	1.51	20	
Toluene	96.6	#	100	ND ND	96.6	80-120	1.35	20	•
Ethylbenzene	91.6	n	100	· ND	91.6	80-120	1.54	20	18
Xylene (p/m)	185	и	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	٠,		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 06/21/04 11:32

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 Prep	paration (Prep)								

Butta 21 11000 Contract Topac						
Blank (EF41806-BLK1)			Prepared & Analyzed: 06/17/04			
% Solids	100	%				
Duplicate (EF41806-DUP1)	Source: 4	F17003-01	Prepared & Analyzed: 06/17/04			
% Solids	93.0	%	93.0	0.00	20	

Matrix Spike

Duplicate

MS

Dup

2. Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 06/21/04 11:32

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

Report Approved By: (along dk Juli)

Date: $(\alpha-2)$

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

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

Environmental Lab of Texas

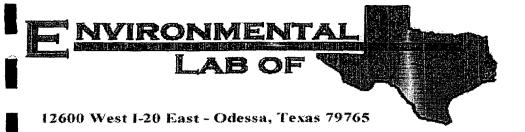
The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 12 of 12

TAT brebast2 TAT HEUR Temperature Upon Request Laboratory Comments: Sample Containers In Y Chlorides **Lenitiabilty** Corrosivity Reactivity Analyze For Jal 14" Mainline #6 × BLEX 8051B/2030 eefitslovime2 Volatiles 2003-00135 Time Metals × × × TPH8015MGRODRO 170% TCLP TOTAL 9001/9001 XT HYT Date Date 1.814 HTT Project Name: Project #:_ P0#: Project Loc: IDS/CI/SVE/EC Other (Specify) LioS $\times \times \times$ MX × $\times |\times| \times$ Sludge Water Other (Specify) None OSH HOgN HCI HINO FAX RESULTS TO PAT McCASLAND ASAP ICE Yoz gress No. of Containers Received by Received 7:18 7:24 7:30 7:34 7:20 7:27 Time Sampled 06/16/2004 06/16/2004 06/16/2004 06/16/2004 06/16/2004 06/16/2004 06/16/2004 06/16/2004 06/16/2004 Time 8.00 Time Date Sampled Environmentar Lab of Texas, Inc. 915-563-1800 915-563-1713 Company Name: Link Energy / Plains Marketing Fax: Jal14"Main#66160420A Jal14"Main#66160410A Jal14"Main#66160411A Jal14"Main#66160417A Jal14"Main#66160414A Jal14"Main#6616047A Jal14"Main#6616048A Jal14"Main#6616046A Project Manager: Jeff Dann Sampler Signature: 12600 West I-20 East Odessa Texas 79763 Company Address: City/State/Zip: Telephone No: Special Instructions Relinquished Relinquishe

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

Client: Plains P/L		-		¥	,,
Date/Time: 06-17-04@ 1315					1. 2
		-	· · · · · · · · · · · · · · · · · · ·	ŧ	-
Order #: 4F17006					
					ŧ
Initials: JMM	*4 *			1	3
Sample Receipt (Chackl	iet		i I	
Temperature of container/cooler?	Tes	No] ч с] :	
Shipping container/cooler in good condition?	Yes	No	NA	1	1,1
Custody Seals intact on shipping container/cooler?	Yes	No	Not present		3
Custody Seals intact on sample bottles?	Yes	No	Not present		1, ~
Chain of custody present?	796	No	2.5. p. 500 j.k		1.7
Sample Instructions complete on Chain of Custody?	(TES)	No			
Chain of Custody signed when relinquished and received?	Yes	No	15.	74.	
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			1
All samples received within sufficient hold time?	(Yes)	No			_
VOC samples have zero headspace?	(Yes)	No:	Not Applicable		
Other observations:		,		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
				;	;
	; 1 V,			:	
		*			
Variance Docume	entatioi		-		
Contact Person: Date/Time:			Contacted by: _		·
Regarding:	. :				
	1			1	, ,
	i				1.
	 			, i	12
Corrective Action Taken:				+ +	
Corrective Action Taken.			<u> </u>		
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			<u> </u>	7	· · ·
	* <u>*</u> * * * * * * * * * * * * * * * * *				1



Analytical Report

Prepared for:

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

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Location: Secs 25/36 T23S R37E Lea Co., NM

Lab Order Number: 4G14018

Report Date: 07/20/04

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:
07/20/04 12:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
SPAAVJ671204#28		4G14018-01	Soil	07/12/04 07:40	07/14/04 11:36
SPAAVJ671204#29		4G14018-02	Soil	07/12/04 07:45	07/14/04 11:36
SPAAVJ671204#30		4G14018-03	Soil	07/12/04 07:51	07/14/04 11:36
SPAAVJ671204#31		4G14018-04	Soil	07/12/04 07:54	07/14/04 11:36
SPAAVJ671204#32		4G14018-05	Soil	07/12/04 07:58	07/14/04 11:36
SPAAVJ671204#33		4G14018-06	Soil	07/12/04 08:12	07/14/04 11:36
SPAAVJ671204#34	t H	4G14018-07	Soil	07/12/04 08:25	07/14/04 11:36
SPAAVJ671204#35		4G14018-08	Soil	07/12/04 08:52	07/14/04 11:36
SPAAVJ671204#36	a Man	4G14018-09	Soil	07/12/04 08:54	07/14/04 11:36
SPAAVJ671204#37	1 4 Dr.	4G14018-10	Soil	07/12/04 09:10	07/14/04 11:36
SPAAVJ671204#38	Colon -the	4G14018-11	Soil	07/12/04 09:25	07/14/04 11:36
SPAAVJ671204#39	1 A WAY	4G14018-12	Soil	07/12/04 09:30	07/14/04 11:36
SPAAVJ671204#40	Rodent Brown	4G14018-13	Soil	07/12/04 09:34	07/14/04 11:36
SPAAVJ671204#41	į .	4G14018-14	Soil	07/12/04 09:40	07/14/04 11:36
SPAAVJ671204#42	· •	4G14018-15	Soil	07/12/04 10:00	07/14/04 11:36
SPAAVJ671204#43		4G14018-16	Soil	07/12/04 10:05	07/14/04 11:36
SPAAVJ671204#44		4G14018-17	Soil	07/12/04 10:12	07/14/04 11:36
SPAAVJ671304#45		4G14018-18	Soil	07/13/04 07:15	07/14/04 11:36
SPAAVJ671304#46		4G14018-19	Soil	07/13/04 07:18	07/14/04 11:36
SPAAVJ671304#47		4G14018-20	Soil	07/13/04 07:21	07/14/04 11:36
SPAAVJ671304#48		4G14018-21	Soil	07/13/04 07:23	07/14/04 11:36
SPAAVJ671304#49		4G14018-22	Soil	07/13/04 07:25	07/14/04 11:36
SPAAVJ671304#50	Enst House	4G14018-23	Soil	07/13/04 07:30	07/14/04 11:36
SPAAVJ671304#51	The same of the sa	4G14018-24	Soil	07/13/04 07:36	07/14/04 11:36
SPAAVJ671304#52		4G14018-25	Soil	07/13/04 07:50	07/14/04 11:36
SPAAVJ671304#53	, * · · ·	4G14018-26	Soil	07/13/04 07:59	07/14/04 11:36
SPAAVJ671304#54		4G14018-27	Soil	07/13/04 08:18	07/14/04 11:36
SPAAVJ671304#55	:	4G14018-28	Soil	07/13/04 08:20	07/14/04 11:36
SPAAVJ671304#56		4G14018-29	Soil	07/13/04 08:24	07/14/04 11:36
SPAAVJ671304#57		4G14018-30	Soil	07/13/04 09:02	07/14/04 11:36
SPAAVJ671304#58		4G14018-31	Soil	07/13/04 09:07	07/14/04 11:36
SPAAVJ671304#59 —	k Distriction of the Control of the	4G14018-32	Soil	07/13/04 09:11	07/14/04 11:36
SPAAVJ671304#60		4G14018-33	Soil	07/13/04 09:15	07/14/04 11:36

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

" Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		D:I41	Detat	D 3	A 1 1		**
		Lunt	Omis	Dilution	Batch	Prepared	Analyzed	Method	Note
SPAAVJ671204#28 (4G14018-01) S									
Benzene	J [0.0209]		mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Toluene	0.171	0.0250		T T	"	"	*	*	
Ethylbenzene	0.301	0.0250	H		n	n	H	"	
Xylene (p/m)	1.39	0.0250	II	"	н	#	**	#	
Xylene (o)	0.601	0.0250	***	n	n	Ħ	· · · · · · · · · · · · · · · · · · ·		
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-1		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	80-1	20	"	"	"	**	
Gasoline Range Organics C6-C12	273	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	1420	10.0	n	•	Ħ	11	"	n	
Total Hydrocarbon C6-C35	1690	10.0		**		"	. 0	II .	
Surrogate: 1-Chlorooctane		97.6 %	70-1	30	"	"	"	,,	
Surrogate: 1-Chlorooctadecane		80.4 %	70-1	30	"	n	"	n	
SPAAVJ671204#29 (4G14018-02) S	oil								
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Toluene	ND	0.0250	#1	"	n	н	#	R	
Ethylbenzene	ND	0.0250	n	**		Ħ	**		
Xylene (p/m)	ND	0.0250	Ħ	n	**	n	н	n	
Xylene (o)	ND	0.0250	*	n	w	n	n	n	
Surrogate: a,a,a-Trifluorotoluene		89.4 %	80-1.	20	"	<i>"</i> .	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-1	20	**	"	"	**	
Gasoline Range Organics C6-C12	. ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	*	"	н	tt	•	
Total Hydrocarbon C6-C35	ND	10.0	P	**	н	H .	**	#	
Surrogate: 1-Chlorooctane		87.6 %	70-1.	30	"	"	"	,,	
Surrogate: 1-Chlorooctadecane		73.8 %	70-1.	30	"	"	"	"	
SPAAVJ671204#30 (4G14018-03) S	oil								
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Foluene	ND	0.0250	"	*	Ħ	н		#	
Ethylbenzene	NĎ	0.0250	n				H	11	
Xylene (p/m)	ND	0.0250	w	н	11	71	H	Ħ	
Xylene (o)	ND	0.0250	•		n	11	H	*	
Surrogate: a,a,a-Trifluorotoluene		83.3 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0			u	H	H	н	
Total Hydrocarbon C6-C35	ND	10.0	n	Ħ	**	#	•	17	

Environmental Lab of Texas

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported:
07/20/04 12:37

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671204#30 (4G14018-03) Soil								·	
Surrogate: 1-Chlorooctane		79.8 %	70-	130	EG41406	07/15/04	07/15/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		75.0 %	70-	130	"	"	"	"	
SPAAVJ671204#31 (4G14018-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Toluene	ND	0.0250	11	n	н	H	**	**	
Ethylbenzene	ND	0.0250	11	11	u u	O	11		
Xylene (p/m)	ND	0.0250	"	H	"	"	"	H	
Xylene (o)	ND	0.0250	11	н	u	H	н	"	
Surrogate: a,a,a-Trifluorotoluene	·	80.0 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.7 %	80	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	ii .	11	n	11	11	
Total Hydrocarbon C6-C35	ND	10.0	U	Ħ	u	11	Ħ	•	
Surrogate: 1-Chlorooctane		76.2 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.0 %	70-	130	"	n	"	"	
PAAVJ671204#32 (4G14018-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Toluene	ND	0.0250	•	"	н	n	**	**	
Ethylbenzene	ND	0.0250	**	11	n		н		
kylene (p/m)	ND	0.0250		0	н	n		**	
Xylene (o)	ND	0.0250	n	11	u	n	**	11	
urrogate: a,a,a-Trifluorotoluene		89.0 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.4 %	80-	120	**	"	**	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	n	n	n	n	n	
otal Hydrocarbon C6-C35	ND	10.0	**	н	n	н	н	··	
Surrogate: 1-Chlorooctane		91.4 %	70-	130	"	"	"	"	
urrogate: 1-Chlorooctadecane		77.2 %	70-	130	"	"	"	"	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC Environmental Lab of Texas

		Reporting			47 m g				
Analyte	Result	Limit	Units	' Dilut	ion Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671204#33 (4G14018-06) Soi						A 60° 0	iteriji 	¥ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Benzene	. ND ***	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	
Toluene	ND	0.0250	n, s	n	: , , ' ń	*1	n	1000	's in the
Ethylbenzene	ND	0.0250	H	**	**	"	н .	"	
Xylene (p/m)	ND	0.0250	H		Ħ			The state of the s	
Xylene (o)	ND	0.0250	n U	· u	·	n	#	11	
Surrogate: a,a,a-Trifluorotoluene		90.7 %	80-1.	20	, 11, 18 p. 10.	"	"	"	
Surrogate: 4-Bromofluorobenzene	•,	95.3 %	80-1.	20		" . • . *	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND ·	10.0	n	11	17 ST#1	•	**	n	100
Total Hydrocarbon C6-C35	ND	10.0	n	. "	6 9	n	H	te granii	10 4 7 W
Surrogate: 1-Chlorooctane		81.6%	70-1.	30	, · · · n.	"	"		· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	at set of	73.6 %	70-13	30 🛁 :	n	"	"	You Windows	100
					54 - 3	;		the second	
SPAAVJ671204#34 (4G14018-07) Soil					(4.	G_{i}^{*}		the second	0.7
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B ···	trifir was
Toluene -	ND	0.0250	m = { /	. "	$e^{\pm i t} = \mathbf{u}_{\pm i}$	и	n	N 1 (10 m) 1 (1 / 2)	,
Ethylbenzene	ND	0.0250	"	#	•		**		
Xylene (p/m)	ND	0.0250	*		H			The Solution Control	Market Art Art Art Art Art Art Art Art Art Ar
Xylene (o)	ND	0.0250			H	et .	**	n	Ç.
Surrogate: a,a,a-Trifluorotoluene		86.6 %	80-12	20	· ,#	" ;	"	"	. 1
Surrogate: 4-Bromofluorobenzene	a a	95.3 %	80-12	20		#	"	"	2.50
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	W
Diesel Range Organics >C12-C35	ND	10.0	Ħ	**	tt; '	н ,	**		4
Total Hydrocarbon C6-C35	ND	10.0		``,`` n	, Hz	н		The state of the s	The Garage
Surrogate: 1-Chlorooctane	*.	81.2 %	70-13	80%		"	"	1.8 M. 3". 1.	2.27
Surrogate: 1-Chlorooctadecane	* **	72.4 %	70-13	80 -	. s. 22"	"	,,	The many	,
., ,	e e							1 2 December 2	·2 · 10 103 ·
SPAAVJ671204#35 (4G14018-08) Soil						•		CC 200	F 13" - 1 "
Benzene	ND	0.0250	mg/kg dry	25	EG41605	07/14/04	07/15/04	EPA 8021B	ŧ , Ç
Toluene		0.0250	n (n	$\mathcal{L} = \bigoplus_{i \in \mathcal{I}_i} \mathcal{L}_{i,i}(\mathcal{A}_i) = \mathcal{A}_i$	A Comment
Ethylbenzene	ND	0.0250	•	n	н	**	**	11	
Kylene (p/m)	ND	0.0250	U	"	**	11	Ħ	u u	
Kylene (o)	ND	0.0250	**	**	**	**	#	•	
Surrogate: a,a,a-Trifluorotoluene		85.6 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	80-12		"	"	"	"	
Gasoline Range Organics C6-C12	ND		mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0			n	"	n ´	11	
Total Hydrocarbon C6-C35	ND	10.0	н	#	н .	Ħ	n	n	

Environmental Lab of Texas

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

Page 5 of 29

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671204#35 (4G14018-08) Soil									· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctane		86.6 %	70-	130	EG41406	07/15/04	07/15/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		72.4 %	70-	130	**	n	"	"	
SPAAVJ671204#36 (4G14018-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/15/04	EPA 8021B	
Toluene	ND	0.0250	11	ıı	"	Ħ	н	"	
Ethylbenzene	ND	0.0250	n	**	**	li .	н	н	
Xylene (p/m)	ND	0.0250	11	Ħ	,	Ħ	11	"	
Xylene (o)	ND	0.0250	n	**	a	u	н	u	
Surrogate: a,a,a-Trifluorotoluene		87.3 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	80-	120	,,	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	11	н	"	Ħ	
Total Hydrocarbon C6-C35	ND	10.0	,	**	#	H	"	n	
Surrogate: 1-Chlorooctane		106 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.8 %	70-1	130	u	α	"	"	
PAAVJ671204#37 (4G14018-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/15/04	EPA 8021B	11.2
Toluene	ND	0.0250	н	11	n	*	If	11	
thylbenzene	ND	0.0250	•	"	H	**	U	Ħ	
Xylene (p/m)	ND	0.0250	"	u	u	ŧ	R	**	
(ylene (o)	ND	0.0250	11	н	n	#	**	"	
urrogate: a,a,a-Trifluorotoluene	·	88.1 %	80-1	20	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		92.6 %	80-1	120	"	"	n	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
iesel Range Organics >C12-C35	ND	10.0	n	**	11	Ħ	n	**	
Total Hydrocarbon C6-C35	ND	10.0	"	ĸ	н	u	Ħ	n	
urrogate: 1-Chlorooctane		117%	70-1	130	"	"	"	"	
urrogate: 1-Chlorooctadecane		70.8 %	70-1	130	"	"	"	"	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

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, and a second s		JERVEL VIII	mental L	WD 01	A CZEGO				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671204#38 (4G14018-11) Soil							1		
Benzene	ND	0.0250	mg/kg đry	25	EG41905	07/15/04	07/16/04	EPA 8021B	t
Toluene	ND	0.0250	n , .		**	11	ıı	, i n 2	
Ethylbenzene	ND	0.0250	er	n	**		"	"	
Xylene (p/m)	ND	0.0250	U	**	**	Ħ	***		
Xylene (o)	ND	0.0250	. N		#	#	n	ti	•
Surrogate: a,a,a-Trifluorotoluene		86.0 %	80-12	20	n;	# <u>.</u>	"	"	
Surrogate: 4-Bromofluorobenzene		84.3 %	80-12	20	"	n	"	"	* *
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	· 10.0	11	#	*	H	n		,
Total Hydrocarbon C6-C35	ND ·	10.0	H	ŧŧ	n		n	n - 1	. 1
Surrogate: 1-Chlorooctane		89.0 %	70-13	0	. "	n	"		Y
Surrogate: 1-Chlorooctadecane	100	74.0 %	70-13	0	. "	n . '	"	"	* 4
					1, 12				141
SPAAVJ671204#39 (4G14018-12) Soil					• ;	* **		,	Windows
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene ·	ND	0.0250	W	. "	•	•	R		
Ethylbenzene	ND	0.0250	u	۳.	19	**	n		
Xylene (p/m)	ND	0.0250	H	11					
Xylene (o)	ND	0.0250			Y (***)	" ;	*	n	
Surrogate: a,a,a-Trifluorotoluene		90.3 %	80-12	0	:}" #	" .	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-12	0 '	n ,		"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	•
Diesel Range Organics >C12-C35	ND ·	10.0	n	n	н'.	**		u	i .
Total Hydrocarbon C6-C35	ND	10.0	#	ni .		n	•		
Surrogate: 1-Chlorooctane		77.8 %	70-13	0	n	"	"	, ' # '\ .	*
Surrogate: 1-Chlorooctadecane	*	72.4 %	· 70-13	0	· · · · ·	н .	"	1	p = 4 +
					1,	,		* * * * * * * * * *	* * * *
SPAAVJ671204#40 (4G14018-13) Soil						. :			
Benzene	ND	0.0250	mg/kg dry	. 25	EG41905	07/15/04	07/16/04	EPA 8021B	₩. No. 1
Toluene .	ND ·	0.0250	*	. 11		н	**	e u di serie	
Ethylbenzene	ND	0.0250	*	**	**	н		11	
Kylene (p/m)	ND	0.0250	lf .	Ħ		,,	11	11	
Xylene (o)	ND	0.0250	ti .	II	"	**		**	
Surrogate: a,a,a-Trifluorotoluene		83.6 %	80-12	0	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		93.3 %	80-12	0	"	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	91.3	10.0	n	19	11	#	**	ĮI.	
Fotal Hydrocarbon C6-C35	91.3	10.0	H	91	**	#	н	ıı	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported:
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Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671204#40 (4G14018-13) So	il							· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctane		82.2 %	70-	130	EG41406	07/15/04	07/15/04	EPA 8015M	"
Surrogate: 1-Chlorooctadecane		70.0 %	70-	130	"	"	"	"	
SPAAVJ671204#41 (4G14018-14) So	il								
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	11	#	"	"	11	n	
Ethylbenzene	ND	0.0250	н	u ·	#	Ħ	"	n	
Xylene (p/m)	0.0686	0.0250	tt	u	n	H	н	n	
Xylene (o)	0.0298	0.0250	**		ır	н	н	n	
Surrogate: a,a,a-Trifluorotoluene		85.6 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	42.2	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	1550	10.0	11	"		•	"	ti .	
Total Hydrocarbon C6-C35	1590	10.0	n	11	n	н	11	W.	
Surrogate: 1-Chlorooctane		109 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-2	130	**	**	"	"	
SPAAVJ671204#42 (4G14018-15) So	il								
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	······································
Toluene	ND	0.0250	u	н	u	II	u	19	
thylbenzene	ND	0.0250	н	**	**	n	u u	n	
Xylene (p/m)	ND	0.0250	**	**	II.	tr	11	11	
Xylene (o)	ND	0.0250	n	#	n	н	н	II .	
urrogate: a,a,a-Trifluorotoluene		91.0 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-1	120	"	"	"	"	•
Gasoline Range Organics C6-C12	. ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	"	н	u	11	н	
Total Hydrocarbon C6-C35	ND	10.0	**	**	11	n	Ħ	0	
Surrogate: 1-Chlorooctane		92.6 %	70-1	130	"	"	"	"	
urrogate: 1-Chlorooctadecane		79.4 %	70-1	130	"	"	"	"	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported:
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in the same of the		Reporting			 				
Analyte	Result	Keporung Limit		Dilutio	on Batch	Prepared	Analyzed	Method	Note
SPAAVJ671204#43 (4G14018-16) So								· Trustijas	, <u>, , , , , , , , , , , , , , , , , , </u>
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	1 1 1 1 1 1 1 1
Toluene	ND	0.0250	ņ	n	, n	*	și și		
Ethylbenzene	ND	0.0250	11	n	ŧı	•	"	n	
Xylene (p/m)	0.0447	0.0250		tı	#	**	, pt 1.1.	* ***	
Xylene (o)	ND	0.0250	w # · · ·	Ħ	7	î .			·
Surrogate: a,a,a-Trifluorotoluene	·	81.6 %	. 80-1	20		"	"	"	\$.,
Surrogate: 4-Bromofluorobenzene		96.0 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	m				și	н	.) ** .
Total Hydrocarbon C6-C35	ND	10.0		**			u	**************************************	
Surrogate: 1-Chlorooctane		74.2 %	70-1.	30	<i>n</i>	"	"	. 11.	. 1 1 1
Surrogate: 1-Chlorooctadecane	• •	71.4 %	70-1.	<i>30</i>		"	"		
		, , , , ,							
SPAAVJ671204#44 (4G14018-17) Soi	l		*-			ه ري ه			:.t :
Benzene	J [0.0201]	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	0.0603	. 0.0250	н ,		n	*	n		
Ethylbenzene	0.0376	0.0250	**	11	**		*	**	
Xylene (p/m)	0.281	0.0250	M	н	*	H	0 15	•	
Xylene (o)	0.108	0.0250	- m ¹ -		n			. п	
Surrogate: a,a,a-Trifluorotoluene		84.7 %	80-12	20	. "	" .	"	"	
Surrogate: 4-Bromofluorobenzene	i	96.4 %	80-12	20 -	" .		"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	# 15	n			**	U	
Total Hydrocarbon C6-C35	ND ·	,10.0	. 11	. "	u		н		and the second
Surrogate: 1-Chlorooctane		91.2 %	70-13	30	- ",	"	"	, , ,	1. 1.41.
Surrogate: 1-Chlorooctadecane	,., ·	74.2 %	70-13	30	, "	"	"		
								7 - 1 - 1	5 J. J. 1
SPAAVJ671304#45 (4G14018-18) Soi	1				* 4 2			11 mg	
Benzene	ND	0.0250	mg/kg dry	_{[N} 25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	J [0.0213]	0.0250	н		. "	•		Burney Comment	, J
Ethylbenzene	J [0.0182]	0.0250		#	•	H	"	•	J
Xylene (p/m)	0.127	0.0250	11	**	n		*		
Xylene (o)	0.0601	0.0250	Ħ	**	11	11	*	n	
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	80-12	20	#	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	*	н	11	"	n	n	
Total Hydrocarbon C6-C35	ND	10.0	11			n		и	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

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Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
SPAAVJ671304#45 (4G14018-18) Soi	il								
Surrogate: 1-Chlorooctane		92.4 %	70-1	130	EG41406	07/15/04	07/15/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		75.6 %	70-1	130	n	**	"	"	
SPAAVJ671304#46 (4G14018-19) Soi	1								
Benzene	1.89	0.100	mg/kg dry	100	EG41905	07/15/04	07/19/04	EPA 8021B	
Toluene	32.9	0.100	"	**	Ħ		n	ly .	
Ethylbenzene	42.7	0.100	11	u	*	"	H	н	
Xylene (p/m)	70.8	0.100	16	II .	u	v	n	a	
Xylene (o)	25.0	0.100	"	11	u	н	U	n	
Surrogate: a,a,a-Trifluorotoluene		329 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		90.6 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	1650	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	6680	10.0	n	u	n	н	•	u	
Total Hydrocarbon C6-C35	8330	10.0	"	n	H	11	H	u	
Surrogate: 1-Chlorooctane		81.0 %	70-1	30	"	"	"	n	-
Surrogate: 1-Chlorooctadecane		82.4 %	70-1	30	"	"	"	#	
SPAAVJ671304#47 (4G14018-20) Soil	l				•				
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	н	11	н	n	Ħ	•	
Ethylbenzene	ND	0.0250	tř		tt	"	•	•	
Xylene (p/m)	ND	0.0250	11	**	Ħ	II	**		
Xylene (o)	ND	0.0250	н	11	n	tı	#	**	
Surrogate: a,a,a-Trifluorotoluene		84.6 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.3 %	80-1.	20	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	H	н	n	н	tr	H	
Total Hydrocarbon C6-C35	ND	10.0	n		to	11	•	"	
Surrogate: 1-Chlorooctane		90.2 %	70-1	30	"	"	"	"	

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Surrogate: 1-Chlorooctadecane

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70-130

71.0 %

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC Environmental Lab of Texas

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Analyte	Reșult	Reporting Limit	Units	Dilution	n Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671304#48 (4G14018-21) Soil							i at a la	*	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	n ; · ·	n . `	**	**	H	1 18 35 152	Y Y
Ethylbenzene	ND	0.0250	n	n	•	•	**	41	
Xylene (p/m)	ND	0.0250	ıı	п	n	11		10 Sept. 1979	tradite.
Xylene (o)	ND	0.0250	100		"	n .	ir .	#	_*
Surrogate: a,a,a-Trifluorotoluene		81.0 %	80-12	20	· #	" .	"	"	
Surrogate: 4-Bromofluorobenzene	•	91.3 %	80-12	20 .	. "	n , ,	"	"	\$
Gasoline Range Organics C6-C12	ND	: 10.0	mg/kg dry	1 1	EG41406	07/15/04	07/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	Ħ	Ħ	; · •	H 8	n	11	
Total Hydrocarbon C6-C35	ND.	10.0	n	*	- 15 ju	**	n -	Salve March	· 1 · 1 · 1 · 1 · 1 · 1 · 1
Surrogate: 1-Chlorooctane		72.4 %	70-13	0	· . "	#	# 1.	# 5 TV	a Arthur Style
Surrogate: 1-Chlorooctadecane	1,1	73.2 %	70-13	0 :		11	" .		
						4: 14		*	
SPAAVJ671304#49 (4G14018-22) Soil		, i		ı		:		, , ,	1 - 5 3 - 11.
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND ·	0.0250	ntic w	n	*	•	n	1 # 100 P	• • • • • • •
Ethylbenzene	ND	0.0250	**	**	n	**	**	H	
Xylene (p/m)	ND	0.0250	u	H	#	n	n i		
Xylene (o)	ND :	0.0250		g #65		#	#	n	
Surrogate: a,a,a-Trifluorotoluene		83.9 %	80-12	0.	, : n	" ,	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-12	0	Un . " 1	"	"	"	, *****
Gasoline Range Organics C6-C12	ND ·	10.0	mg/kg dry	• 1	EG41406	07/15/04	07/15/04	EPA 8015M	100
Diesel Range Organics >C12-C35	ND "	10.0	, H	*	L. S. L. W.	# er g	*	#	(1.5 %
Total Hydrocarbon C6-C35	ND .	10.0	# 1 to 1	н	ë	n ·	н	· • · · · · · · · · · · · · · · · ·	Parity to Art
Surrogate: 1-Chlorooctane		92.8 %	70-13	0	"	"	"	# _ pt_gr	grant to the
Surrogate: 1-Chlorooctadecane		70.6 %	70-13	0 -	· . · *	# 15 g	"	. But W. 1995	Say Say
	•	ţ	•	ч		4.		Section 1	Land Control
SPAAVJ671304#50 (4G14018-23) Soil		.:			`			. 14 /	248. वर्गा <u>ज</u>
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	M 35	**	. • •	91	n	1. A	100 mm
Ethylbenzene	ND	0.0250	Ħ	**	n	П		"	
Kylene (p/m)	ND	0.0250	n	11	H	**	10	0	
Kylene (o)	ND	0.0250	**	#1		**	Ħ	"	
Surrogate: a,a,a-Trifluorotoluene		83.4 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-12	0	"	"	**	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	74.0	10.0	**	"	"	#	H	0	

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74.0

Total Hydrocarbon C6-C35

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10.0

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported:

07/20/04 12:37

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		Reporting						ATTAL PLUS DE NOTE DE LA CONTRACTOR DE L	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
SPAAVJ671304#50 (4G14018-23) Soil	**			·-··					
Surrogate: 1-Chlorooctane		102 %	70-	130	EG41406	07/15/04	07/16/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		73.2 %	70-	130	"	"	"	"	
SPAAVJ671304#51 (4G14018-24) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	n	n	#		n.	н	
Ethylbenzene	ND	0.0250	11		**	u	**	**	
Xylene (p/m)	ND	0.0250	•	ıı	n	n	#	н	
Xylene (o)	ND	0.0250	11	"	n	ıı	н	"	
Surrogate: a,a,a-Trifluorotoluene		82.2 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	80-	120	"	"	"	•	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	u	n	н	D	•	
Total Hydrocarbon C6-C35	ND	10.0	ø	"	**	n	•	**	
Surrogate: 1-Chlorooctane		106 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		80.4 %	70-1	130	"	"	"	"	
SPAAVJ671304#52 (4G14018-25) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250	#	•	**	Ħ	H	11	
Ethylbenzene	ND	0.0250	"	li .	"	H	tr.	41	
Xylene (p/m)	ND	0.0250	**	n	"	11	•	н	
Xylene (o)	ND	0.0250	н	n		Ħ	**	n	
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	. 1	EG41406	07/15/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	35.7	10.0	11	•	Ħ	10	n	π	
Total Hydrocarbon C6-C35	35.7	10.0	H	н	p	н	Ħ	н	
Surrogate: 1-Chlorooctane		87.6 %	70-1	130	"	"	n n	"	
Surrogate: 1-Chlorooctadecane		70.2 %	70-1	130	**	11	n	n	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Project Manager: Jimmy Bryant

Fax: (432) 687-4914

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Analyte	Result	Reporting Limi		Dilution	n Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671304#53 (4G14018-26) Soil							**. s t. **		
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	¥ 1
Toluene	ND	0.0250	n · · · ·	n		U	"	-112	`• · , · ·
Ethylbenzene	ND	0.0250	*	**	**	**	н		
Xylene (p/m)	ND	0.0250	n	. **		"	n		
Xylene (o)	ND	0.0250	, n	' ' u .	} •	n - 5 5	H	н	
Surrogate: a,a,a-Trifluorotoluene		81.9 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	•	94.9 %	80-1.	20	A	"	"	. "	gray an
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	(2. N
Diesel Range Organics >C12-C35	ND "	10.0		. 0			u .		
Total Hydrocarbon C6-C35	ND	10.0		, #	, ² n,	. "	11	e promotive	Part Commence
Surrogate: 1-Chlorooctane	11,	93.6 %	70-1.	30	· \ 'n	"	"		1 5.
Surrogate: 1-Chlorooctadecane	1. 1. 1.	71.0 %	70-1.	30	· "	n '	" · · ·		
					90.7		*.		
SPAAVJ671304#54 (4G14018-27) Soil				•		1,1			
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	V 175
Toluene	ND	0.0250	u · ,			n		3 50.	
Ethylbenzene	ND	0.0250	U	**	n	•	u	n	, ·
Kylene (p/m)	ND	0.0250	*	н .			. N	W	*
Kylene (o)	ND	0.0250	. : 0	, nie		#	11		
Surrogate: a,a,a-Trifluorotoluene		82.3 %	80-12	20	\$. W.	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	80-12	20 "		" .	"	n	,
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	\$ - F
Diesel Range Organics >C12-C35	ND	10.0	H	11	2 (u	u \.		lf .	·
Total Hydrocarbon C6-C35	ND	10.0	a		iı	n		11	* · · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctane		95.4 %	70-13	80	: "	,,	"	"	\$.
Surrogate: 1-Chlorooctadecane		71.0 %	70-13	80	7 m	n		"	
-	•		*		í			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	April 1984 - Francisco
SPAAVJ671304#55 (4G14018-28) Soil	*	•				¥.			- 2
Benzene	ND	0.0250	mg/kg dry	25	EG41905	07/15/04	07/16/04	EPA 8021B	
Toluene	ND	0.0250		; #		**	н	and the second	1.5
Sthylbenzene	ND	0.0250	n	11	11	**	•	n	
Kylene (p/m)	ND	0.0250	н	19	11	н	H	11	
Kylene (o)	ND	0.0250	Ħ	**	II	я	tr	11	
Surrogate: a,a,a-Trifluorotoluene		81.6 %	80-12	20	"	,,	"	,,	
Surrogate: 4-Bromofluorobenzene		92.4 %	80-12		"	"	"	"	
Gasoline Range Organics C6-C12	14.6		mg/kg dry	1	EG41406	07/15/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	295	10.0	n		**	Ħ	**	u	
Total Hydrocarbon C6-C35	310	10.0		#		Ħ	n	n	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

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Analyte	Result	Reporting Limit		Dilution	Batch	Dranavad	Anglemad	Method	Notes
SPAAVJ671304#55 (4G14018-28) S				Dilution	Васп	Prepared	Analyzed	Method	Note
· · · · · · · · · · · · · · · · · · ·									
Surrogate: 1-Chlorooctane		83.0 %	70-		EG41406	07/15/04	07/16/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		71.0 %	70-	130	"	"	"	n	
SPAAVJ671304#56 (4G14018-29) S	Soil								
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Toluene	ND	0.0250	"	ıı	II.	Ħ	н	tt	
Ethylbenzene	ND	0.0250	11	11	**	11		n	
Xylene (p/m)	ND	0.0250	н	**	"	н	н	n	
Xylene (o)	ND	0.0250	Ħ	ıı	**	н	,,	#	
Surrogate: a,a,a-Trifluorotoluene		87.4 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	80-1	120	**	n	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n n	n	**	"	11	н	
Total Hydrocarbon C6-C35	ND .	10.0	"	11	**	"	"	•	
Surrogate: 1-Chlorooctane		97.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.8 %	70-1	30	"	**	"	"	
SPAAVJ671304#57 (4G14018-30) S	oil								
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Toluene	J [0.0189]	0.0250	н	n	н	It	11	11	J
Ethylbenzene	0.0609	0.0250	Ħ	Ħ	n	11	"	11	
Xylene (p/m)	0.418	0.0250	"	Ħ	н	n	11	n	
Xylene (o)	0.229	0.0250	tr	11	**	**	н	н	
urrogate: a,a,a-Trifluorotoluene		83.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-1	20	"	"	"	n	
Gasoline Range Organics C6-C12	711	50.0	mg/kg dry	5	EG41603	07/16/04	07/16/04	EPA 8015M	
iesel Range Organics >C12-C35	5820	50.0	**	**	u	"	11	II .	
Total Hydrocarbon C6-C35	6530	50.0	**	n	tı	#1	H	tt	
Surrogate: 1-Chlorooctane		9.20 %	70-1	30	"	"	"	"	S-06
urrogate: I-Chlorooctadecane		18.8 %	70-1	30	"	"	"	"	S-06

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

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	-		mentai L	ab vi	I CAUS		-		
Analyte	Result	Reporting Limit		Dilutio	n Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671304#58 (4G14018-31)	Soil			-					13
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Toluene	ND	0.0250	, n , , , , , ,	ŧı	, S. J	**	H	garage market	Maria de la Maria
Ethylbenzene	J [0.0161]	0.0250	#			u	A	H	J
Xylene (p/m)	0.0639	0.0250	**	tt	n	ņ	: n / ·		
Xylene (o)	0.0263	0.0250		~ 1- 1- 1		н .	11		. 15.
Surrogate: a,a,a-Trifluorotoluene		80.7 %	80-12	20	. "	"	n	"	. ;
Surrogate: 4-Bromofluorobenzene		88.7 %	80-12	20	:1 . "	# +	"	"	
Gasoline Range Organics C6-C12	16.4	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	1.1.1.
Diesel Range Organics >C12-C35	243	10.0	. •		.*.}# ·	и ' '.	11	**	4 5
Total Hydrocarbon C6-C35	259	10.0	· · · · · · · · · · · · · · · · · · ·	, n	n,	н		gragge in Sign	
Surrogate: 1-Chlorooctane		72.6 %	70-13	0	. "	- "	" -		
Surrogate: 1-Chlorooctadecane		70.8 %	70-13	o ·	, n	n (1)	"		or and in the
,					1.	p*			
SPAAVJ671304#59 (4G14018-32) S	Soil	ŀ			(i			že S°.	4 324 2515
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	(1.17) . · · · · ·
Toluene	0.147	0.0250	W (,	**			Ħ	A . 9	a the species
Ethylbenzene	0.262	0.0250	11		11	Ħ		**	
Xylene (p/m)	0.604	0.0250	n	n	11	u	'n '	· · · · · · · · · · · · · · · · · · ·	
Xylene (o)	0.245	0.0250				н еу	u		**
Surrogate: a,a,a-Trifluorotoluene	· ·	83.8 %	80-12	0 .	· , · ",	"		"	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-12	0		# 12	"	n	
Gasoline Range Organics C6-C12	86.6	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	V → 1
Diesel Range Organics >C12-C35	1190	10.0	u	н			0	H	the grant
Total Hydrocarbon C6-C35	1280	10.0	" ;	H .	, s B ,	H .	**	Section 1	1257 3
Surrogate: 1-Chlorooctane		85.2 %	70-13	<u>0</u> .	S (11	"	"		N 16 N 18 N 18 N 18 N
Surrogate: 1-Chlorooctadecane	And American	75.2 %	70-130	0 , :	"	,	"	and the state of	500000
•	, , ,				, ,				· (
SPAAVJ671304#60 (4G14018-33) S	Boil	1						1	garan tu
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	· Ar of the proof
Γoluene	ND	0.0250	# 15 p		j	n	II .	y# (50 €)	S
Ethylbenzene	ND	0.0250	•	**	n	n		11	
Xylene (p/m)	ND	0.0250	п		n		"	11	
Xylene (o)	ND	0.0250	"	n	"	H		11	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	80-120	9	"	"	"	it .	,
Surrogate: 4-Bromofluorobenzene		87.5 %	80-120	0	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	46.9	10.0	н	**	n	**	**	14	
Fotal Hydrocarbon C6-C35	46.9	10.0	н	н	11	**	и	H	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671304#60 (4G14018-33) Soil								· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctane		85.2 %	70-1	30	EG41603	07/16/04	07/16/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		70.6 %	70-1	30	#	11	**	н	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

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

	<u> </u>			<u> </u>						·	
Analyte	. 1	<u>, , , , , , , , , , , , , , , , , , , </u>	Result	Reporting Limit	Units	Dilution	Batch	Prepared /	Analyzed	Method	Notes
SPAAVJ6712	04#28 (4G1401	8-01) Soil					* * *				
% Solids	\$.13	98.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#29 (4G1401	8-02) Soil									
% Solids			99.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#30 (4G1401	8-03) Soil									
% Solids			98.0	<u> </u>	%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#31 (4G1401	8-04) Soil									
% Solids			99.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#32 (4G14018	8-05) Soil									
% Solids			95.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#33 (4G14018	8-06) Soil									
% Solids			97.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#34 (4G14018	3-07) Soil									
% Solids			96.0	_	%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6712	04#35 (4G14018	3-08) Soil									
% Solids			90.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ67120	04#36 (4G14018	3-09) Soil									,
% Solids			94.0		%	1	EG41618	07/16/04	07/16/04	% calculation	-
SPAAVJ67120	04#37 (4G14018	3-10) Soil									
% Solids			77.0		%	1	EG41618	07/16/04	07/16/04	% calculation	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

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

AJt-	Dog.14	Reporting	I In ita	D	D				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SPAAVJ671204#38 (4G14018-11) Soil		<u></u>							
% Solids	93.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#39 (4G14018-12) Soil								_	
% Solids	97.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#40 (4G14018-13) Soil									
% Solids	97.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#41 (4G14018-14) Soil									
% Solids	94.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#42 (4G14018-15) Soil									
% Solids	96.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#43 (4G14018-16) Soil									
% Solids	93.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671204#44 (4G14018-17) Soil			-						
% Solids	91.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671304#45 (4G14018-18) Soil									
% Solids	91.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671304#46 (4G14018-19) Soil									
% Solids	86.0	.	%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671304#47 (4G14018-20) Soil									
% Solids	99.0		%	1	EG41618	07/16/04	07/16/04	% calculation	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
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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
SPAAVJ6713	04#48 (4G14018-21) Soil	· · · · · · · · · · · · · · · · · · ·								
% Solids		98.0 _{(1.8}		, %	1	EG41618	07/16/04	07/16/04	% calculation	N.E.S.
SPAAVJ6713	04#49 (4G14018-22) Soil							٠.	:	•
% Solids	A Secretary Company	95.0		%	· 1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713	04#50 (4G14018-23) Soil							44.14	· • • • • • • • • • • • • • • • • • • •	
% Solids		95.0	SELVICE TO SELVICE TO	%	· 1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713	04#51 (4G14018-24) Soil								e description	100
% Solids	the Sheet Share t	93.0	ř	%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713	04#52 (4G14018-25) Soil									27 × 1
% Solids		96.0		·%	¹ 1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713	04#53 (4G14018-26) Soil									5/0
% Solids		98.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713	04#54 (4G14018-27) Soil							. 1	La company	Contract Special Special Contract Special Spec
% Solids	in the second se	93.0	2 1 1	%	1	EG41618	07/16/04	07/16/04	% calculation	7.0
SPAAVJ67130	04#55 (4G14018-28) Soil							. 4.	·····	
% Solids	**************************************	94.0	· · · · · ·	%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ67130	04#56 (4G14018-29) Soil							. :	: .	
% Solids	10 mm	97.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ6713(04#57 (4G14018-30) Soil							. •		
% Solids		98.0	e je.	%	1	EG41618	07/16/04	07/16/04	% calculation	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

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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
SPAAVJ671304#58 (4G14018-31)	Soil							′;	
% Solids	99.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671304#59 (4G14018-32) \$	Soil								
% Solids	98.0		%	1	EG41618	07/16/04	07/16/04	% calculation	
SPAAVJ671304#60 (4G14018-33) S	Soil								
% Solids	94.0	<u> </u>	%	1	EG41618	07/16/04	07/16/04	% calculation	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
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Reported: 07/20/04 12:37

			<u> </u>			- ^					
Analyte		Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG41406 - Solvent Ex	ctraction (GC)			· <u>-</u>			-	Here St. J. St. Co.		
Blank (EG41406-BLK1)	S. A. S. L. C.	18 7 (4.4)	15 1 1		Prepared:	07/14/04	Analyzed	l: 07/15/04			-
Gasoline Range Organics C6-C12	,	ND	10.0	mg/kg wet	<u> </u>					,	
Diesel Range Organics >C12-C35		ND	10.0	**							, ,
Total Hydrocarbon C6-C35		ND	10.0	ti			2 3	-			
Surrogate: 1-Chlorooctane		43.4		mg/kg	50.0		86.8	70-130			
Surrogate: 1-Chlorooctadecane		35.8		"	50.0		7 1.6	70-130		14	
Blank (EG41406-BLK2)					Prepared:	07/14/04	Analyzed	: 07/15/04			
Gasoline Range Organics C6-C12		ND	10.0	mg/kg wet				17.41			
Diesel Range Organics >C12-C35		ND	10.0	n							
Total Hydrocarbon C6-C35		ND	10.0	"							
Surrogate: I-Chlorooctane		45.1		mg/kg	50.0		90.2	70-130			
Surrogate: 1-Chlorooctadecane		37.4		,,	50.0		74.8	70-130			
LCS (EG41406-BS1)					Prepared:	07/14/04	Analyzed:	07/15/04			
Gasoline Range Organics C6-C12		420	10.0	mg/kg wet	500		84.0	75-125			
Diesel Range Organics >C12-C35		501	10.0		500		100	75-125			
Total Hydrocarbon C6-C35		921	10.0	n	1000		92.1	75-125			
Surrogate: 1-Chlorooctane		54.6		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane		<i>36.1</i>		"	50.0		72.2	70-130			
LCS (EG41406-BS2)					Prepared:	07/14/04	Analyzed:	07/15/04			
Gasoline Range Organics C6-C12		428	10.0	mg/kg wet	500		85.6	75-125		-	
Diesel Range Organics >C12-C35		477	10.0	u	500		95.4	75-125			
Total Hydrocarbon C6-C35		905	10.0	U	1000		90.5	75-125			
urrogate: 1-Chlorooctane		53.3		mg/kg	50.0	***	107	70-130			
Surrogate: 1-Chlorooctadecane		38.3		"	50.0		76.6	70-130			
Calibration Check (EG41406-C	CV1)				Prepared: (07/14/04	Analyzed:	07/15/04			•
Pasoline Range Organics C6-C12		420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35		469		"	500		93.8	80-120			
Cotal Hydrocarbon C6-C35		889		n	1000		88.9	80-120			
urrogate: 1-Chlorooctane		52.8	 		50.0		106	70-130			
Surrogate: 1-Chlorooctadecane		36.4		#	50.0		72.8	70-130			

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

Analyte Batch EG41406 - Solvent Extraction (Calibration Check (EG41406-CCV2) Gasoline Range Organics C6-C12 Diesel Range Organics > C12-C35 Total Hydrocarbon C6-C35	Result (GC) 413 480 893 52.0	Reporting Limit		Spike Level Prepared:	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Calibration Check (EG41406-CCV2) Gasoline Range Organics C6-C12 Diesel Range Organics >C12-C35 Total Hydrocarbon C6-C35	413 480 893		mø/kø	Prepared:	07/14/04					
Gasoline Range Organics C6-C12 Diesel Range Organics >C12-C35 Fotal Hydrocarbon C6-C35	480 893		mø/kø	Prepared:	07/14/04					
Diesel Range Organics >C12-C35 Total Hydrocarbon C6-C35	480 893		mø/kø		U //14/04	Analyzed	: 07/15/04			
Total Hydrocarbon C6-C35	893			500		82.6	80-120			
•			*1	500		96.0	80-120			
6 · · · · · · · · · · · · · · · · · · ·	52.0		**	1000		89.3	80-120			
Surrogate: 1-Chlorooctane			- 11	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	40.2		"	50.0		80.4	70-130			
Matrix Spike (EG41406-MS1)	Soui	rce: 4G140	18-07	Prepared:	07/14/04	Analyzed	: 07/16/04			
Gasoline Range Organics C6-C12	482	10.0	mg/kg dry	521	ND	92.5	75-125			
Diesel Range Organics >C12-C35	553	10.0	lt .	521	ND	106	75-125			
Total Hydrocarbon C6-C35	1040	10.0	**	1040	ND	100	75-125			
Surrogate: I-Chlorooctane	58.1		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	<i>37.1</i>		"	50.0		74.2	70-130			
Matrix Spike (EG41406-MS2)	Sour	ce: 4G140	18-09	Prepared:	07/14/04	Analyzed	07/16/04			
Gasoline Range Organics C6-C12	497	10.0	mg/kg dry	532	ND	93.4	75-125			
Diesel Range Organics >C12-C35	554	10.0		532	ND	104	75-125			
Fotal Hydrocarbon C6-C35	1050	10.0	Ħ	1060	ND	99.1	75-125			
Surrogate: I-Chlorooctane	62.0		mg/kg	50.0		724	70-130			
Surrogate: 1-Chlorooctadecane	38.4		"	50.0		76.8	70-130			
Matrix Spike Dup (EG41406-MSD1)	Sour	ce: 4G140	18-07	Prepared:	07/14/04	Analyzed:	07/16/04			
Gasoline Range Organics C6-C12	466	10.0	mg/kg dry	521	ND	89.4	75-125	3.38	20	
Diesel Range Organics >C12-C35	546	10.0	H	521	ND	105	75-125	1.27	20	
Total Hydrocarbon C6-C35	1010	10.0	п	1040	ND	97.1	75-125	2.93	20	
Surrogate: I-Chlorooctane	56.6		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	37.0		"	50.0		74.0	70-130			
Matrix Spike Dup (EG41406-MSD2)	Sour	ce: 4G140	18-09	Prepared:	07/14/04	Analyzed:	07/16/04			
Gasoline Range Organics C6-C12	489	10.0	mg/kg dry	532	ND	91.9	75-125	1.62	20	
piesel Range Organics >C12-C35	549	10.0	n	532	ND	103	75-125	0.907	20	
otal Hydrocarbon C6-C35	1040	10.0	n	1060	ND	98.1	75-125	0.957	20	
Surrogate: 1-Chlorooctane	63.9	· · · · · ·	mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	40.1		"	50.0		80.2	70-130			

Plains All American EH & S 1301 S. County Road 1150

Project: Vacuum To Jal 14 inch Mainline #6

Fax: (432) 687-4914

1301 S. County Road 1150 Midland TX, 79706-4476 Project Number: 2003-00135
Project Manager: Jimmy Bryant

Reported: 07/20/04 12:37

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	See A see	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG41603 - Solvent Extr	action (G	C)									
Blank (EG41603-BLK1)	53		Part .		Prepared &	k Analyz	ed: 07/16	/04	. ** , . *		, , ,
Gasoline Range Organics C6-C12	31.83	ND	10.0 n	ng/kg we	t ·					· · · · ·	
Diesel Range Organics >C12-C35	1.5	ND	10.0						i si		
Total Hydrocarbon C6-C35		: ND	10.0	"							
Surrogate: I-Chlorooctane		43.5	Ţ.	mg/kg	50.0		87.0	70-130			
Surrogate: 1-Chlorooctadecane	* *	<i>36.3</i>		"	50.0		72.6	70-130	ð	· · ·	3
LCS (EG41603-BS1)	75.45		1 1 or		Prepared &	z Analyz	ed: 07/16/	' 04			<u>1</u>
Gasoline Range Organics C6-C12	• •	424	10.0 m	g/kg wet	500		84.8	75-125			
Diesel Range Organics >C12-C35		436	G 10.0 °	. 11	500 🥪	:	87.2	75-125	* •	- 1.3	$z_m = z_m$
Total Hydrocarbon C6-C35		860	10.0	*	1000		86:0	75-125		1 8 mg 13	to kill of the
Surrogate: 1-Chlorooctane		44.9		mg/kg	50.0		89.8	70-130			<u></u>
Surrogate: 1-Chlorooctadecane	ij	36.3		, #	50.0		72.6	70-130		jor see	
Calibration Check (EG41603-CC)	V1)				Prepared &	Analyze	ed: 07/16/	04			
Gasoline Range Organics C6-C12		423		mg/kg	-500		84.6	80-120	1.	2.5 88	-
Diesel Range Organics >C12-C35	1,1	453			500		90.6	80-120	-		11 11
Total Hydrocarbon C6-C35	ř.	876	3,	**	1000		87.6	80-120		<u>క</u>	
Surrogate: I-Chlorooctane		53.6	~-··	. #	-50.0		107	70-130			 .
Surrogate: 1-Chlorooctadecane	**	<i>36.8</i>		"	50.0		73.6	70-130		72 1 4	
Matrix Spike (EG41603-MS1)		. · . Sou	rce: 4G14018	-29	Prepared &	Analyze	:d: 07/16/0	04			
Gasoline Range Organics C6-C12	•	454	10.0 m	g/kg dry	515		88.2	75-125			
Diesel Range Organics >C12-C35	• • •	443.	10.0	. 11	515	ND	86.0	75-125	,		
Total Hydrocarbon C6-C35		897	10.0	ņ	1030	· ND	87.1	75-125			1
Surrogate: 1-Chlorooctane		50.6		mg/kg	50.0	•	101	70-130			
Surrogate: 1-Chlorooctadecane		38.5	,	"	50.0		77.0	70-130			* * * * * * * * * * * * * * * * * * *
Matrix Spike Dup (EG41603-MSD)1)		rce: 4G14018	-29	Prepared &	-	d: 07/16/0)4	 		
Gasoline Range Organics C6-C12		437		g/kg dry		ND	84.9	75-125	3.82	20	· · · · · · · · · · · · · · · · · · ·
Diesel Range Organics >C12-C35		458	10.0	. 11		ND	88.9	75-125	3.33	20	
Total Hydrocarbon C6-C35	:	895°	10.0		1030	ND	86.9	75-125	0.223	20	
Surrogate: 1-Chlorooctane		51.5	7	mg/kg	50.0		103 -	70-130		j.	
Surrogate: 1-Chlorooctadecane		35.4		. "	50.0		70.8	70-130		11-14-1	1 2 N

Environmental Lab of Texas

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

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

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 EG41605 - EPA 5030C (GC)									
Blank (EG41605-BLK1)				Prepared	& Analyze	ed: 07/14/	04		
Benzene	ND	0.0250	mg/kg we	et			······································		
Toluene	ND	0.0250	Ħ						
Ethylbenzene	ND	0.0250							
Xylene (p/m)	ND	0.0250	•						
Xylene (o)	ND	0.0250	***						
Surrogate: a,a,a-Trifluorotoluene	89.1		ug/kg	100		89.1	80-120	······································	
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120		
LCS (EG41605-BS1)				Prepared of	& Analyze	d: 07/14/	04		
Benzene	97.3		ug/kg	100		97.3	80-120		
Toluene	95.8		u	100		95.8	80-120		
Ethylbenzene	96.7		n	100		96.7	80-120		
Xylene (p/m)	194	•	n	200		97.0	80-120		
Xylene (o)	103		"	100		103	80-120		
Surrogate: a,a,a-Trifluorotoluene	84.3		— "	100		84.3	80-120		
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120		
Calibration Check (EG41605-CCV1)				Prepared:	07/14/04	Analyzed	: 07/15/04		
Benzene	96.0		ug/kg	100		96.0	80-120		
Toluene	93.6		"	100		93.6	80-120		
Ethylbenzene	92.5		u	100		92.5	80-120		
Xylene (p/m)	185		11	200		92.5	80-120		
Xylene (o)	99.0		**	100		99.0	80-120		
Surrogate: a,a,a-Trifluorotoluene	87.4		"	100		87.4	80-120		
Surrogate: 4-Bromofluorobenzene	<i>93.6</i>		n	100		93.6	80-120		
Matrix Spike (EG41605-MS1)	So	urce: 4G1401	8-08	Prepared:	07/14/04	Analyzed	: 07/15/04		
Benzene	96.6		ug/kg	100	ND	96.6	80-120		
Toluene	94.5		н	100	ND	94.5	80-120		
Ethylbenzene	96.3		11	100	ND	96.3	80-120		
Kylene (p/m)	188		н	200	ND	94.0	80-120		
Xylene (o)	99.8		**	100	ND	99.8	80-120		
Surrogate: a,a,a-Trifluorotoluene	90.8			100		90.8	80-120		
.									

urrogate: 4-Bromofluorobenzene

104

80-120

100

104

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC - Quality Control Environmental Lab of Texas

Analyte		S TO S	Result	Reporting Limit Units	Spike Source Level Resul		%REC Limits	RPD	RPD Limit	Notes
Batch EG41605 - EI	PA 5030C (GC)						eles.		7
Matrix Spike Dup (EC	G41605-MSI	D1)	So	ource: 4G14018-08	Prepared: 07/14/0	4 Analyze	d: 07/15/04		; ; ;	Marie Barrier
Benzene			90.6	ug/kg	100 ND	90.6	80-120	6.41	20	········
Foluene			88.1	u	100 ND	88.1	80-120	7.01	20	
Ethylbenzene			90.2	n	100 ND	90.2	80-120	6.54	20	
Kylene (p/m)			182	ır	200 ND	91.0	80-120	3.24	20	10 m/2 m
Xylene (o)			97.1	n n	100 ND	97.1	80-120	2.74	20	€ `
Surrogate: a,a,a-Trifluoro	toluene		84.7	·· · · · · · · · · · · · · · · · · · ·	100	84.7	80-120		, 	
Surrogate: 4-Bromofluoro		1	98.6		100	98.6	80-120	٤	2 5 18 8	12 to 1
Blank (EG41905-BLK	1)	1 (1) (ND	0.0250 malka wa	Prepared & Analy	zed: 07/15/	04			
· · · · · · · · · · · · · · · · · · ·	1)	<u> </u>	1.2.4	ı		zed: 07/15/	04			,
Benzene		,	S*	0.0250 mg/kg we						**** · · ·
Toluene		· .	ND	0.0250 "		•				
Ethylbenzene		*, .	ND	0.0250 "		ŧ				. 1
Kylene (p/m)			ND	0.0250 "	•				1. 1. 5. 5.	
Kylene (o)		· ·	ND	0.0250 "						
Surrogate: a,a,a-Trifluorot	oluene		82.7	ug/kg	100	<i>82.7</i>	80-120			
Surrogate: 4-Bromofluorol	benzene	:: :: ::	92.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	92.7	80-120		Angelone de la companya de la compan	
LCS (EG41905-BS1)				·	Prepared & Analyz	zed: 07/15/0)4			
Benzene			96.1	ug/kg	100	96.1	80-120			
oluene .		u, d	94.1		100	94.1	80-120			
Ethylbenzene		EVET SET	95.2		100	95.2	80-120			
(ylene (p/m)			192		200	96.0	80-120			
(ylene (o)		; A	101		100	101	80-120	,	entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya	
urrogate: a,a,a-Trifluorot	oluene	. 1	88.8		100	88.8	80-120			
urrogate: 4-Bromofluorol	ontono	1000	102	" :	100	102	80-120		$\mathcal{A} = \mathbb{Z} \setminus \{x, \overline{x}\} + 1$	

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC		RPD	Limit	Notes
Batch EG41905 - EPA 5030C (GC)		_								
Calibration Check (EG41905-CCV1)				Prepared:	07/15/04	Analyzed	1: 07/16/04			
Benzene	91.4		ug/kg	100		91.4	80-120			-
Toluene	89.1		u	100		89.1	80-120			
Ethylbenzene	87.8		#1	100		87.8	80-120			
Kylene (p/m)	175		ıı	200		87.5	80-120			
Xylene (o)	93.4		11	100		93.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	88.2			100		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	89.4		n	100		89.4	80-120			
Matrix Spike (EG41905-MS1)	So	urce: 4G1401	18-28	Prepared:	07/15/04	Analyzed	: 07/16/04			
Benzene	92.6		ug/kg	100	ND	92.6	80-120			
Toluene	93.2		17	100	ND	93.2	80-120			
Ethylbenzene	99.3		H	100	ND	99.3	80-120			
Kylene (p/m)	198		11	200	ND	99.0	80-120			
Kylene (o)	102		**	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	86.2		"	100		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	87.7		"	100		<i>87.7</i>	80-120			
Matrix Spike Dup (EG41905-MSD1)	Sou	urce: 4G1401	8-28	Prepared:	07/15/04	Analyzed:	07/16/04			
Benzene	90.0		ug/kg	100	ND	90.0	80-120	2.85	20	
Coluene	88.0		11	100	ND	88.0	80-120	5.74	20	
Ethylbenzene	88.7		H	100	ND	88.7	80-120	11.3	20	
Kylene (p/m)	177		**	200	ND	88.5	80-120	11.2	20	
(ylene (o)	93.0			100	ND	93.0	80-120	9.23	20	
urrogate: a,a,a-Trifluorotoluene	83.9		"	100		83.9	80-120			
Surrogate: 4-Bromofluorobenzene	89.8		"	100		89.8	80-120			
atch EG42002 - EPA 5030C (GC)										
Blank (EG42002-BLK1)				Prepared &	& Analyze	d: 07/19/0)4			
Benzene	ND	0.0250 1	ng/kg wet							
oluene	ND	0.0250	н							
thylbenzene	ND	0.0250	11							
(ylene (p/m)	ND	0.0250	n							
ylene (o)	ND	0.0250	11							
urrogate: a,a,a-Trifluorotoluene	81.0		ug/kg	100		81.0	80-120			
urrogate: 4-Bromofluorobenzene	90.9		"	100		90.9	80-120			

Plains All American EH & S 1301 S. County Road 1150

Midland TX, 79706-4476

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

Organics by GC - Quality Control Environmental Lab of Texas

Analyte		Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG42002 - EPA 5030C	C (GC)							,	i di		
LCS (EG42002-BS1)	,/% () ()		** : 2*		Prepared of	& Analyz	ed: 07/19/	04	و د د د خور	\$ 1. A. A.	
Benzene	1	94.6	·	ug/kg	. 100		94.6	80-120			
Toluene	•	93.3		, 11	100		93.3	80-120			
Ethylbenzene	91.5	93.7		, r , - H	100		93.7	80-120			• , •,
Xylene (p/m)	÷.	188		,, · · · ·	200		94.0	80-120			i. ,
Xylene (o)		99.0		, u	100		99.0	80-120			5.1.
Surrogate: a,a,a-Trifluorotoluene		91.5			700		91.5	80-120		1. 1 g	
Surrogate: 4-Bromofluorobenzene		99.8		, "	100		99.8	80-120	174.		
Calibration Check (EG42002-CC	CV1)	:' : ' :	***		Prepared:	07/19/04	Analyzed	: 07/20/04	,	. :	
Benzene		84.3	. (ug/kg	100	-	84.3	80-120			
Foluene	3.1	82.9	(9)	; n	100		82.9	80-120			
Ethylbenzene		80.1	12.1		100		80.1	80-120			•
Kylene (p/m)	1. 24	161	, vi	, i i	200		80.5	80-120			ķ1 .
Kylene (o)	1,,,,,,	85.4	٠.	g. · ·	100		85.4	80-120			(;
urrogate: a,a,a-Trifluorotoluene		81.3		, .,#	100		81.3	80-120			
Surrogate: 4-Bromofluorobenzene	1.5	81.0		60 m	100		81.0	80-120	4,5.	t v	3.7 16.5
Matrix Spike (EG42002-MS1)	ردان در این ردان در این	So	urce: 4G190	01-04	Prepared: (07/19/04	Analyzed:	07/20/04			
Benzene		87.7	7.	ug/kg	100	ND	87.7	80-120			
Toluene		87.3		, , ,	100	ND	87.3	80-120			
Ethylbenzene	4 9 4 14	89.5	4	, . u	100	ND	89.5	80-120			
Kylene (p/m)		181			200	ND	90.5	80-120			
Kylene (o)	13 - 414	93.4	4 4		100	ND	93.4	80-120			, .
urrogate: a,a,a-Trifluorotoluene	- 10	84.0			100		84.0	80-120		.36	V 3 "
urrogate: 4-Bromofluorobenzene	.,.	88.4		. "	100		88.4	80-120	1.		, î.
Matrix Spike Dup (EG42002-MS	D 1)	So	urce: 4G190	01-04	Prepared: 0	7/19/04	Analyzed:	07/20/04	· ;		v i
Benzene		94.2		ug/kg	100	ND ·	94.2	80-120	7.15	20	
'oluene		92.4		· • • • • • • • • • • • • • • • • • • •	100	ND	92.4	80-120	5.68	20	
thylbenzene		93.3		tr	100	ND	93.3	80-120	4.16	20	· ·
(ylene (p/m)		187		11	200	ND	93.5	80-120	3.26	20	
(vlene (o)		98.9		Ħ	100	ND	98.9	80-120	5.72	20	•
urrogate: a,a,a-Trifluorotoluene		87.6			100		87.6	80-120			
urrogate: 4-Bromofluorobenzene		96.7		"	100		96.7	80-120			

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

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Page 27 of 29

% Solids

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 12:37

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 EG41618 - General Prej	paration (Prep)									_
Blank (EG41618-BLK1)				Prepared:	07/16/04	Analyzed	l: 07/19/04			

%

Duplicate (EG41618-DUP1) Source: 4G14018-01 Prepared: 07/16/04 Analyzed: 07/19/04

100

% Solids 98.0 % 98.0 0.00 20

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported:

07/20/04 12:37

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.

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: Roland 1 July

Date:

7-20-09

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.

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

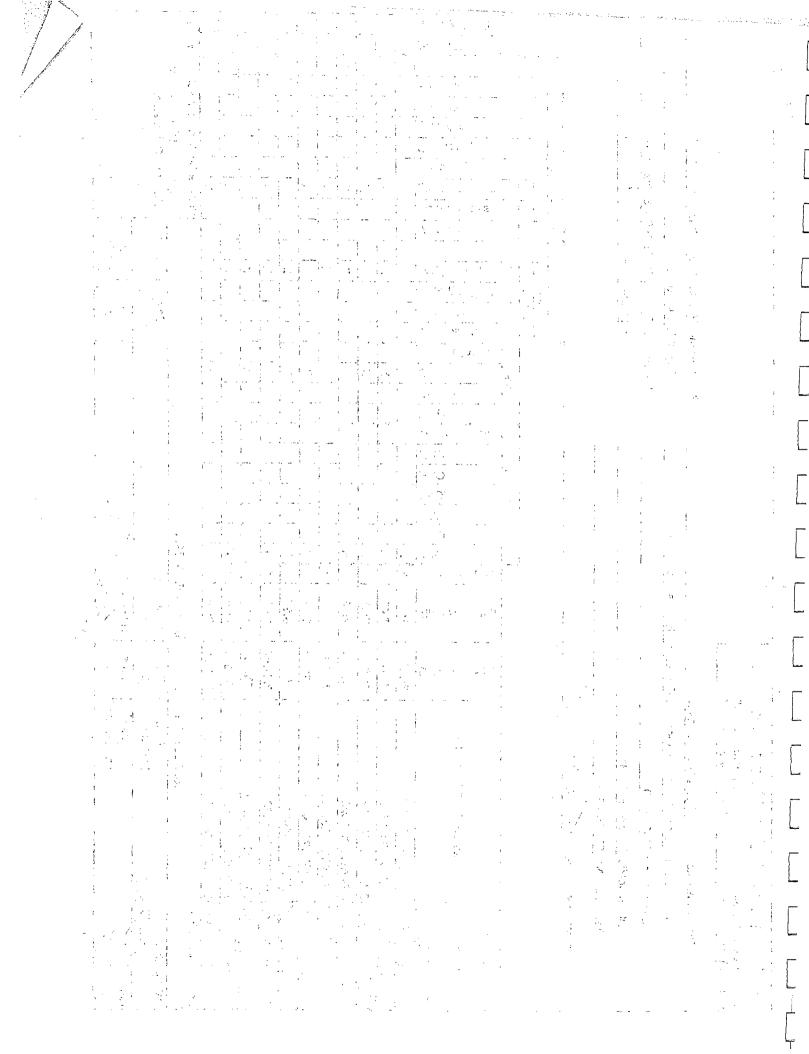
If you have received this material in error, please notify us immediately at 432-563-1800.

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Page 29 of 29

TAT bashnat2 z TAT HRUA Temperature Upon Request Sample Containers Intact? Sulfates Laboratory Comments: Chlorides 4 or beless **lgnitiabilty** Project Loc: Secs 25/36 T23S R37E Lea Co NM Corrosivity Project Name: Vacuum to Jal 14" Mainline #6 Reactivity Analyze For BLEX 8021B/2030 × × × × × × × × × × Semivolatiles * * selitalov Time Metals * PO#: 2003-00135 Project #: 2003-00135 × × × ОЯО/ОЯЭ ^{матов} НЧТ × × × × × 9001/2001 XT Hq1 TCLP TOTAL 1.814 HQT DS/CI/SAR/EC Other (Specify) lio2 × × × × × × Sludge Water Other (Specify) **AnoN** Preservative OSH HOBN HCI ONH FAX RESULTS TO Pat McCasland 505.394.3481 × × CE No. of Containers Company Name: Plains All American Pipeline / Environmental Plus, Inc. Received 8:12 9:25 7:45 8:25 8:52 8:54 9:10 7:40 7:54 7:58 7:51 Time Sampled 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 7/12/04 Time Time 3 Date Sampled Project Manager: Jimmy Bryant / Pat McCasland Phone: 915-563-1800 Fax: 915-563-1713 Environmental Lab of Texas, Inc. 1/4// SAMPLE IDENTIFICATION City/State/Zip: Eunice NM 88231 Telephone No: 505-394-3481 Company Address: 2100 Ave O SPAAVJ671204#35 SPAAVJ671204#36 SPAAVJ671204#32 SPAAVJ671204#33 **DA** SPAAVJ671204#34 ## SPAAVJ671204#38 SPAAVJ671204#28 - COL | SPAAVJ671204#29 SPAAVJ671204#30 SPAAVJ671204#31 -10 SPAAVJ671204#37 Sampler Signature: 12600 West I-20 East Odessa Texas 79763 Special Instructions BIOTI P Relinguished Relinquished:



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 / Pat McCasland

Company Name: Plains All American Pipeline / Environmental Plus, Inc.

Company Address: 2100 Ave O

Project Loc: Secs 25/36 T23S R37E Lea Co NM

PO#: 2003-00135

Project Name: Vacuum to Jal 14" Mainline #6

Project #: 2003-00135

City/State/Zip: Eunice NM 88231

Telephone No: 505-394-3481

Sampler Signature:

	Analyze For	TCLP	TOTAL	
Kas II State				

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					Pres	Preservative	Ķ			Type	Φ				Õ	_	-	-	Γ					-		
SAMPLE IDENTIFICATION 特色1件可含	beldms2 ets0	bəlqms2 əmiT	No. of Containers	ONH	НСІ	NaOH	H2O H2O	Other (Specify)	Water		├ ─ ──	Other (Specify)	1.81 ⁴ HqT	^{8001\2001} XT H9T	TPH 8015M GRO/DF	* alsteM	* səlitsloV	Semivolatiles * BTEX 8021B/5030	Reactivity	Corrosivity	lgnitiabilty	Chlorides	Sulfates	TAT HSUR	Standard TAT	
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Temperature Upon Request

Laboratory Comments:

Time

Date

FAX RESULTS TO Pat McCasland 505.394.3481

Received by

Time

Date

Relinquished:

Received by:

Time

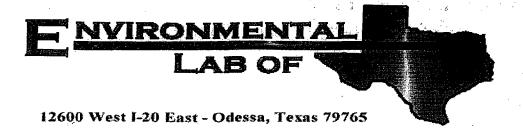
Date

8

Environmental Lab of Texas, Inc.					٠.		;		1	:	1	•								J#						
12600 West I-20 East Phone: 915-563-1800 Odessa Texas 79763 Fax: 915-563-1713	300							:			:		, t	- :	: :			* :		**						
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Project Manager: Jimmy Bryant / Pat McCasiand	lano		1			1		,	1	J D	<u>19</u>	Nam	Project Name: Vacuum to Jal	acm	티		4	14" Mainline	e e	9					ı	
Company Name: Plains All American Pipeline / Environmental Pl	e / Environm	Š,	<u>2</u>	. [- [١		-			g.	Project #:	#	2003-00135	5	2		.'. ;.				 :	· ·	. ,		
Company Address: 2100 Ave O			1:	;	1.						roje	c C	Project Loc: Secs 25/36 T23S R37E Lea	ecs 2	5/36	123	S	37E		So Ni	Σ	ļ :			; }	
City/State/Zip: Eunice NM 88231				,			, 	.		- })-	<u> </u>	PO#: 2003-00135	903-(0013	20	:			.			-		<u>.</u>	
Telephone No: 505-394-3481			12						*******		;,				1. 1.				, -					}	1	
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SAMPLE IDENTIFICATION	Sai	es.	COI	7	;	H		-		.				¹ X T	1/2	, S	, səj						se			DIE
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SPAAVJ671304#56	7/13/04	8:24	-	×	-	,		_	\dashv	\dashv	×	7	\dashv	_	×				×	L				T	+	ı
SPAAVJ671304#57	7/13/04	9:05	三	×	\dashv		+	\dashv	+	4	×	\dashv	-		×				×		_	_		Ť	+	ì
SPANJ671304#58	7/13/04	9:07	-	×	4		+	+	+		×	7	+	\dashv	×				×	\square					+-	1
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FAX RESULTS TO Pat McCasland 505.394.3481	TO Pat McC	asland 505	.394	3481		t						. 1.	· '		: '	, N	, CO	ami	Sample Containers Intact?	onts	iner.	sint	act?	7	Z	1
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Plains Pipeline				
Date/Time: 07-14-04 @ 1215				
Order#: 4914018				wa a
Initials: JMM				
Sample Receip	t Checkl	ist		
Temperature of container/cooler?	(Yes)	No	2 C	7
Shipping container/cooler in good condition?	Yes	No		-
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	1
Chain of custody present?	Yes	No		1
Sample Instructions complete on Chain of Custody?	(Yes)	No		1
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		1
Samples in proper container/bottle?	(Yes)	No		1
Samples properly preserved?	(Yes)	No		1
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?	CYES	No		
VOC samples have zero headspace?	Yes	No .	Not Applicable	
Other observations:				
Variance Docume Contact Person: Date/Time: Regarding:			Contacted by: _	
Corrective Action Taken:				
•				
				
			·	



Analytical Report

Prepared for:

Jimmy Bryant

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Location: Secs 25/36 T23S R37E Lea Co., NM

Lab Order Number: 4G16006

Report Date: 07/20/04

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SPAAVJ671404#6B	4G16006-01	Soil	07/14/04 08:30	07/16/04 10:30
SPAAVJ671404#11B	4G16006-02	Soil	07/14/04 08:45	07/16/04 10:30
SPAAVJ671404#17B	4G16006-03	Soil	07/14/04 08:55	07/16/04 10:30

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

Organics by GC Environmental Lab of Texas

***		TOTAL OUT	шешені 1	Jan UI	LCAUS				:
Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	No
SPAAVJ671404#6B (4G16006-01) S	oil	,		. ,				1 11	
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Toluene	ND	0.0250	#1	u	н	n	11	"	
Ethylbenzene	ND	0.0250	"	n	11	и	u	n	
Xylene (p/m)	0.0671	0.0250	n	**	n	II .	11	**	
Xylene (o)	0.0271	0.0250	11	n	11	**	#	n	
Surrogate: a,a,a-Trifluorotoluene		81.4 %	80-1	20	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene	,	90.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	50.7	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	467	10.0	"	и	"	n	•	"	
Total Hydrocarbon C6-C35	518	10.0	н	**	u	w	**	**	
Surrogate: 1-Chlorooctane		87.6 %	70-1	30	**	n	"	"	
Surrogate: 1-Chlorooctadecane		71.8 %	70-1	30	"	n	"	"	
SPAAVJ671404#11B (4G16006-02) S	ioil								
Benzene	ND	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Toluene	0.0346	0.0250	n	н	"	H	n		
Ethylbenzene	0.0730	0.0250		**	и		**	11	
Xylene (p/m)	0.162	0.0250	n	•		w	n	н	
Xylene (o)	0.0585	0.0250	**	n	Ħ	Ħ		*	
Surrogate: a,a,a-Trifluorotoluene		81.1 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.3 %	80-1.	20	"	,,	"	"	
Gasoline Range Organics C6-C12	50.0	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	695	10.0	**	19		*	N		
Total Hydrocarbon C6-C35	745	10.0	n		11	n	**	**	
Surrogate: 1-Chlorooctane		87.2 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.4 %	70-1.	30	"	"	H	"	
SPAAVJ671404#17B (4G16006-03) S	oil								
Benzene	0.277	0.0250	mg/kg dry	25	EG42002	07/19/04	07/19/04	EPA 8021B	
Foluene	3.16	0.0250	n	•	11	*	U	*	
Ethylbenzene	4.89	0.0250	H.			•		n	
Xylene (p/m)	9.79	0.0250	m	•	11	r ·	H	ı	
Kylene (o)	4.01	0.0250	Ħ	н	#	**	н	#	
Surrogate: a,a,a-Trifluorotoluene	· · · · · · · · · · · · · · · · · · ·	204 %	80-12	20	"	"	,,	"	S-04
Surrogate: 4-Bromofluorobenzene		85.4 %	80-12	20	"	n	n	"	
Gasoline Range Organics C6-C12	843	10.0	mg/kg dry	1	EG41603	07/16/04	07/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	2510	10.0	u	"	19		*	ĸ	
Total Hydrocarbon C6-C35	3350	10.0	0		n	**		H	

Environmental Lab of Texas

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

Page 2 of 9

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671404#17B (4G16006-03)	Soil								
Surrogate: 1-Chlorooctane		108 %	70-	130	EG41603	07/16/04	07/16/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		89.6 %	70-	130	"	"	"	"	

Plains All American EH & S

Project: Vacuum To Jal 14 inch Mainline #6

Fax: (432) 687-4914

1301 S. County Road 1150 Midland TX, 79706-4476 Project Number: 2003-00135
Project Manager: Jimmy Bryant

Reported: 07/20/04 16:30

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

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SPAAVJ671	404#6B (4G16006-01) Soil						1 81		
% Solids	**	95.0	1-	%	1	EG41618	07/16/04	07/19/04	% calculation	
SPAAVJ6714	404#11B (4G16006-0	2) Soil								
% Solids		96.0		%	1	EG41618	07/16/04	07/19/04	% calculation	
SPAAVJ6714	104#17B (4G16006-03	3) Soil								
% Solids		93.0		%	1	EG41618	07/16/04	07/19/04	% calculation	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914 Reported:

07/20/04 16:30

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits I	RPD	RPD Limit	Notes
Batch EG41603 - Solvent Extraction ((GC)						· · · · · · · · · · · · · · · · · · ·			
Blank (EG41603-BLK1)				Prepared	& Analyze	d: 07/16/0	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	er er							
Surrogate: T-Chlorooctane	43.5		mg/kg	50.0		87.0	70-130	·		
Surrogate: 1-Chlorooctadecane	36.3		"	50.0		72.6	70-130			
LCS (EG41603-BS1)				Prepared of	& Analyze	d: 07/16/0)4			
Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125			
Diesel Range Organics >C12-C35	436	10.0	Ħ	500		87.2	75-125			
Total Hydrocarbon C6-C35	860	10.0	11	1000		86.0	75-125			
Surrogate: I-Chlorooctane	44.9		mg/kg	50.0		89.8	70-130			
Surrogate: 1-Chlorooctadecane	36.3		"	50.0		72.6	70-130			
Calibration Check (EG41603-CCV1)				Prepared &	& Analyze	d: 07/16/0	14			
Gasoline Range Organics C6-C12	423		mg/kg	500		84.6	80-120			
Diesel Range Organics >C12-C35	453		n	500		90.6	80-120			
Total Hydrocarbon C6-C35	876		11	1000		87.6	80-120			
Surrogate: 1-Chlorooctane	53.6			50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	<i>36</i> .8		"	50.0		73.6	70-130			
Matrix Spike (EG41603-MS1)	Sou	rce: 4G140	18-29	Prepared &	& Analyze	d: 07/16/0	4			
Gasoline Range Organics C6-C12	454	10.0	mg/kg dry	515	ND	88.2	75-125			
Diesel Range Organics >C12-C35	443	10.0	tt	515	ND	86.0	75-125			
Total Hydrocarbon C6-C35	897	10.0	"	1030	ND	87.1	75-125			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	38.5		"	50.0		77.0	70-130			
Matrix Spike Dup (EG41603-MSD1)	Sou	rce: 4G140	18-29	Prepared &	& Analyze	1: 07/16/0	4			
Gasoline Range Organics C6-C12	437	10.0	mg/kg dry	515	ND	84.9	75-125 3.	.82	20	
Diesel Range Organics >C12-C35	458	10.0	H	515	ND	88.9	75-125 3.	.33	20	
Total Hydrocarbon C6-C35	895	10.0	11	1030	ND	86.9	75-125 0.2	223	20	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	70-130			
	51.5		mg/ng	30.0		105	/0-150			

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	10 A	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG42002 - EPA 5030C	(ĜĈ)		2.	*				a service	,	- <u> </u>	
Blank (EG42002-BLK1)			SA		Prepared	& Analyz	ed: 07/19/	04		. 1	
Benzene		ND	0.0250	mg/kg we	1.7	:				:	
Toluene		ND	0.0250	•	,	,			4.	¥.,	10 to 10
Ethylbenzene		ND	0.0250	•						:	1 - 1
Kylene (p/m)		. ND	0.0250		*.						3- 1
(ylene (o)		ND	0.0250				. *				1.0
urrogate: a,a,a-Trifluorotoluene	····	81.0	····	ug/kg	100		81.0	80-120			
Surrogate: 4-Bromofluorobenzene	٠.	90.9	The second second	., n	100		90.9	80-120			
.CS (EG42002-BS1)	Te , 1 (1)	··· ·		•	Prepared	& Analyz	ed: 07/19/	n4			tet e i i i i i i i i i i i i i i i i i
Senzene		94.6		ug/kg		1 1114172	94.6	80-120	· · · · · ·		
oluene	i s Ca	93.3		, 40 - 40	100	•	93.3	80-120			
thylbenzene	11, 1	93.7			100		93.7	80-120		*.	
ylene (p/m)	: 1	188			200		94.0	80-120			
ylene (o)		99.0	30 V.		100		99.0	80-120	111	1	5, 1, 4
urrogate: a,a,a-Trifluorotoluene		91.5	<u> </u>	. , ,,	100		91.5	80-120			
urrogate: 4-Bromofluorobenzene		99.8		. ,,	100		99.8	80-120			· · ·
-	1.1			-			14%				
Calibration Check (EG42002-CC	V1)				-	07/19/04		: 07/20/04			<u>, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</u>
Benzene		84.3		ug/kg	100		84.3	80-120		1	
oluene		82.9		"	100		82.9	80-120			•
thylbenzene		80.1	7.	и -	100		80.1	80-120	. ,		
(ylene (p/m)	******	161			200	:	80.5	80-120	3.6		
(ylene (o)	2.	85.4			100		85.4	80-120			
urrogate: a,a,a-Trifluorotoluene		81.3			100	-	81.3	80-120			1000
urrogate: 4-Bromofluorobenzene	1 C 18	81.0		"	100		81.0	<i>80-120</i>			
Matrix Spike (EG42002-MS1)	J	Sou	rce: 4G1900	1-04	Prepared:	07/19/04	Analyzed	: 07/20/04			
enzene		87.7	+ ; - : - : - : - : - : - : - : - : - : -	ug/kg	100	ND	87.7	80-120	₹ - ₹′		
oluene		87.3		. "	100	ND	87.3	80-120		, ja. ,	
thylbenzene		89.5			100	:ND	89.5	80-120			; · · · · ·
ylene (p/m)	į · · ·	181	i,	D	200	ND	90.5	80-120			10°
(ylene (o)	3 1-1	93.4		"	. 100	ND	93.4	80-120		•	2 6 9
urrogate: a,a,a-Trifluorotoluene	· · · · · · · ·	84.0			100		84.0	80-120	<u>-</u>	· · · · · · ·	-
urrogate: 4-Bromofluorobenzene		<i>88.4</i>		"	100		88.4	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas. Page 6 of 9

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

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 EG42002 - EPA 5030C (GC)										
Matrix Spike Dup (EG42002-MSD1)	Sou	ırce: 4G1900	1-04	Prepared:	07/19/04	Analyzed	: 07/20/04			
Benzene	94.2		ug/kg	100	ND	94.2	80-120	7.15	20	
Toluene	92.4		н	100	ND	92.4	80-120	5.68	20	
Ethylbenzene	93.3		н	100	ND	93.3	80-120	4.16	20	
Xylene (p/m)	187		H	200	ND	93.5	80-120	3.26	20	
Xylene (o)	98.9		11	100	ND	98.9	80-120	5.72	20	
Surrogate: a,a,a-Trifluorotoluene	87.6		- ,,	100		87.6	80-120			
Surrogate: 4-Bromofluorobenzene	96.7		"	100		96.7	80-120			

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jimmy Bryant

Fax: (432) 687-4914

Reported: 07/20/04 16:30

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

1	- ;	3		Reporting	•	Spike	Source		%REC		RPD]
Analyte			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG416	18 - General I	Preparation	(Prep)								*•	V.,
Blank (EG4161	18-BLK1)		. *. ",	155 N.		Prepared:	07/16/04	Analyzed:	07/19/04			
% Solids	1 <		100		%							
Duplicate (EG4	41618-DUP1)		Sour	ce: 4G1401	8-01	Prepared:	07/16/04	Analyzed:	07/19/04			4
% Solids			98.0	· .	, %		98.0	1		0.00	20	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jimmy Bryant Fax: (432) 687-4914

Reported: 07/20/04 16:30

2: 2

Notes and Definitions

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

RPD Relative Percent Difference

Sample results reported on a dry weight basis

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:	Ralandk	Junt	Date:	7-20-04
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Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

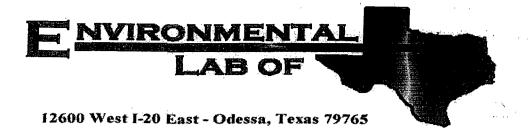
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If you have received this material in error, please notify us immediately at 432-563-1800.

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E as 9763	Project Manager: Jimmy Bryant / Pat McCasland	Company Name: Plains All American Pipeline / Environmental	Company Address: 2100 Ave O	City/State/Zip: Eunice NM 88231	Telephone No: 505-394-3481	Sampler Signature:				100		建 黎爾										2	1/4				
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Plains Pipeline				
Date/Time: 07-16-04@1100				
Order #: 4 G 16006	-		<i>a :</i>	7
Initials: JMM				
Sample Receipt	Checkl	ist		
Temperature of container/cooler?	Yes	No	LS 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	Mot present	
		No	Not present	
Chain of custody present?	(Yes)			
Sample Instructions complete on Chain of Custody?	res	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?	(es)	No		
Preservations documented on Chain of Custody?	(Tes)	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	(Tes)	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Other observations:				
Contact Person: Date/Time: Regarding:		 -	·	
Corrective Action Taken:				
				



Analytical Report

Prepared for:

Jeff Dann

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

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Location: None Given

Lab Order Number: 4H04013

Report Date: 08/10/04

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
08030459B	4H04013-01	Soil	08/03/04 07:20	08/04/04 15:05
08030446B	4H04013-02	Soil	08/03/04 07:25	08/04/04 15:05
08030441B	4H04013-03	Soil	08/03/04 07:30	08/04/04 15:05
08030455B	4H04013-04	Soil	08/03/04 07:58	08/04/04 15:05
08030457B	4H04013-05	Soil	08/03/04 08:01	08/04/04 15:05
08030458B	4H04013-06	Soil	08/03/04 08:04	08/04/04 15:05
08030428B	4H04013-07	Soil	08/03/04 08:25	08/04/04 15:05
08030417B	4Н04013-08	Soil	08/03/04 08:29	08/04/04 15:05

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/10/04 10:54

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed.	Method	Not
08030459B (4H04013-01) Soil			1 " : '			r			5 7 1100 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Benzene	ND		mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	
Toluene	ND	0.0250	n		**	H	**	#	
Ethylbenzene	ND	0.0250	u ·		п			ii .	
Xylene (p/m)	ND	0.0250	1.00	*	•	n	*	Ħ	
Xylene (o)	ND	0.0250	*	e(2.10		•	н	**	: * * .
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-1.	20	"	"	"	"	•. •
Surrogate: 4-Bromofluorobenzene		81.7 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n		D ,	•	Ħ	n	
Total Hydrocarbon C6-C35	ND	10.0	•		•	#	. "	n	
Surrogate: 1-Chlorooctane		89.0 %	70-13	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.6 %	70-13	30	"	"	"	**	
08030446B (4H04013-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	
Toluene	ND	0.0250					#	**	
Ethylbenzene	ND	0.0250	Ħ	•		n	**	n	
Kylene (p/m)	ND	0.0250	**		**	**	*	lr .	
(ylene (o)	ND	0.0250	**	**	n	11	n	н	
Surrogate: a,a,a-Trifluorotoluene		84.6 %	80-12	20	"	"	"	11	
Surrogate: 4-Bromofluorobenzene		81.9 %	80-12	20	#	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	•	*	н	н	H	Ħ	
Total Hydrocarbon C6-C35	ND	10.0	*			u	н	#	
Surrogate: 1-Chlorooctane		82.8 %	70-13	80	"	"	**	"	
Surrogate: 1-Chlorooctadecane		73.2 %	70-13	80	**	Ħ	"	"	
8030441B (4H04013-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	
Coluene	ND	0.0250	•		**	*		#	
Ethylbenzene	ND	0.0250	11		•	**	*	#	
(ylene (p/m)	ND	0.0250	*		•	n	#	H	
(ylene (o)	ND	0.0250	•	*	•	**	#		
Surrogate: a,a,a-Trifluorotoluene		86.0 %	80-12	0	"	п	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-12	20	**	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	15.6	10.0	#		Ħ	*		*	
Total Hydrocarbon C6-C35	15.6	10.0				n		#	

Environmental Lab of Texas

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

Page 2 of 11

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
08030441B (4H04013-03) Soil									
Surrogate: 1-Chlorooctane		86.6 %	70-1	130	EH40520	08/05/04	08/06/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		75.4 %	70-1	130	"	"	"	"	
08030455B (4H04013-04) Soil									
Benzene	0.0704	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	
Toluene	1.48	0.0250	н	#	· III	H	II.	н	
Ethylbenzene	2.61	0.0250	n	#	11	**		H	
Xylene (p/m)	5.69	0.0250	H	**	11	н	**	•	
Xylene (o)	2.27	0.0250	n	**	11	U	**	"	
Surrogate: a,a,a-Trifluorotoluene		127 %	80-1	20	"	"	"	H	S-04
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	#	
Gasoline Range Organics C6-C12	359	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	1330	10.0	*		11	"	H	n	
Total Hydrocarbon C6-C35	1690	10.0	"	**	•	**	11	н	
Surrogate: 1-Chlorooctane		120 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-1	30	"	"	**	"	
08030457B (4H04013-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	
Toluene	ND	0.0250	H	н	Ħ	W	н	u	
Ethylbenzene	ND	0.0250	**	**	"	tr .	n	**	
Xylene (p/m)	ND	0.0250	**			Ħ	n	п	
Xylene (o)	ND	0.0250	#	•	**	Ħ	Ħ	tt	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-1	20	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	Ħ	**	n	H	#	
Total Hydrocarbon C6-C35	ND	10.0	н	*	н .	**	"		
Surrogate: 1-Chlorooctane		87.6 %	70-1	30	n	**	"	"	
Surrogate: 1-Chlorooctadecane		72.4 %	70-1	30	**	n	"	<i>n</i>	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting		() () () () () () () () () ()	n -4-4	Duni	A 1		
	Kesuit	Linn	Units	Dilution	n Batch	Prepared	Analyzed	Method	Note
08030458B (4H04013-06) Soil						· · · · · · · · · · · · · · · · · · ·			
Benzene	ND .		mg/kg dry	25	EH41007	08/06/04	08/09/04	EPA 8021B	
Toluene	ND	0.0250	n } ~ 7		: N	H	*	#	13 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may 10 may
Ethylbenzene	J [0.0172]	0.0250	*	Ħ	er e	**	n	n	
Kylene (p/m)	0.0530	0.0250			н			,	
Kylene (o)	ND \	0.0250	<i>(*</i>			• • • • • • • • • • • • • • • • • • •	•	u	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	80-12	20	, - ; "	"	"	"	· ·
Surrogate: 4-Bromofluorobenzene	:	85.3 %	80-12	20			Ħ	"	
Gasoline Range Organics C6-C12	21.3	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	100
Diesel Range Organics >C12-C35 🦂	58.8	10.0	N		· #	# 2		•	
Total Hydrocarbon C6-C35	80.1	10.0	Ħ	11	. 44	u .		. " P	
Surrogate: 1-Chlorooctane		92.6 %	70-13	0	,,	n	"	€, #1	1, 1, 1, 1, 1, 1
Surrogate: 1-Chlorooctadecane 🗼 👢	8 . °C, 8	79.0 %	70-13	0	:) "	n , 3	w 👫		
08030428B (4H04013-07) Soil						V 10	• •	·	
Benzene	ND	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	1.4.3
Toluene	0.0739	0.0250	n Sa	*	* 03m	Ħ	#	· 2 • •	$\mathcal{L}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}} = \mathcal{A}_{\mathcal{A}}$
Ethylbenzene	0.386	0.0250		H			•		
Kylene (p/m)	1.04	0.0250	•		Ħ		*		
Cylene (o)	0.454	0.0250						H .	
Surrogate: a,a,a-Trifluorotoluene	· · · ·	80.0 %	80-12	0	, , "	<i>n</i> · :	"	"	£.
Surrogate: 4-Bromofluorobenzene		88.9 %	80-12	0	n.		*	**	
Gasoline Range Organics C6-C12	95.9	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	$\mathcal{M} + \ell$
Diesel Range Organics >C12-C35	252	10.0	, •	**	e	n	u	#	الواراة
Total Hydrocarbon C6-C35	348	10.0	•					1. S	Same Same
Surrogate: 1-Chlorooctane		107 %	70-13	0		"	" .	. "	
Surrogate: 1-Chlorooctadecane	1 m 10 20 20 20 20 20 20 20 20 20 20 20 20 20	92.0 %	70-13	0 ; ;		•	"	Stan Starter .	1
						p +*-	,	i	the same
8030417B (4H04013-08) Soil			· e			į,			·
Benzene	0.122	0.0250	mg/kg dry	25	EH41007	08/06/04	08/06/04	EPA 8021B	Section 11 to 15
Coluene	1.16	0.0250		н	. 41	•	*		•
Ethylbenzene	1.22	0.0250	•		91	H		n	
Kylene (p/m)	3.50	0.0250	*		•	11	Ħ	**	
(ylene (o)	1.40	0.0250		*	#	**	#	n	
Surrogate: a,a,a-Trifluorotoluene	**************************************	120 %	80-12	0	"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		101 %	80-12	0	"	•	"	n	
Gasoline Range Organics C6-C12	423	10.0	mg/kg dry	1	EH40520	08/05/04	08/06/04	EPA 8015M	
Diesel Range Organics >C12-C35	1190	10.0	0	**			Ħ	Ħ	
Total Hydrocarbon C6-C35	1610	10.0		*	v	n	11	n .	

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
08030417B (4H04013-08) Soil									
Surrogate: 1-Chlorooctane		108 %	70-1	130	EH40520	08/05/04	08/06/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		97.2 %	70-1	130	"	"	"	"	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

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

· .					r* - ·		x 1 494 x		•
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed		Note
08030459B (4H04013-01) Soil	,	W.Fh.	- ·		- 1				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
% Solids	85.0	2 9	%	1 ".	EH40901	08/05/04	08/05/04	% calculation	
08030446B (4H04013-02) Soil									
% Solids	96.0	······································	%	1	EH40901	08/05/04	08/05/04	% calculation	
08030441B (4H04013-03) Soil									
% Solids	87.0		%	1	EH40901	08/05/04	08/05/04	% calculation	
08030455B (4H04013-04) Soil									
% Solids	94.0		%	1	EH40901	08/05/04	08/05/04	% calculation	
08030457B (4H04013-05) Soil									
% Solids	96.0		%	1	EH40901	08/05/04	08/05/04	% calculation	
08030458B (4H04013-06) Soil									
% Solids	94.0		%	1	EH40901	08/05/04	08/05/04	% calculation	
08030428B (4H04013-07) Soil									
% Solids	96.0		%	1	EH40901	08/05/04	08/05/04	% calculation	
08030417B (4H04013-08) Soil									
% Solids	91.0		%	1	EH40901	08/05/04	08/05/04	% calculation	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

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 EH40520 - Solvent Extraction	(GC)									
Blank (EH40520-BLK1)				Prepared	: 08/05/04	Analyzed	1: 08/06/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet	:						
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	37.2		#	50.0		74.4	70-130			
LCS (EH40520-BS1)				Prepared:	08/05/04	Analyzed	: 08/06/04			
Gasoline Range Organics C6-C12	461	10.0	mg/kg wet	500		92.2	75-125		, ,	
Diesel Range Organics >C12-C35	441	10.0	**	500		88.2	75-125			
Total Hydrocarbon C6-C35	902	10.0	Ħ	1000		90.2	75-125			
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	56.6		"	50.0		113	70-130			
 Calibration Check (EH40520-CCV1)				Prepared:	08/05/04	Analyzed	: 08/06/04			
Gasoline Range Organics C6-C12	435		mg/kg	500		87.0	80-120			
Diesel Range Organics >C12-C35	438			500		87.6	80-120			
Total Hydrocarbon C6-C35	873		•	1000		87.3	80-120			
Surrogate: 1-Chlorooctane	50.6		,,	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	36.9		#	50.0		7 3 .8	70-130			
Matrix Spike (EH40520-MS1)	Sou	urce: 4H040	12-03	Prepared:	08/05/04	Analyzed	: 08/06/04			
Gasoline Range Organics C6-C12	514	10.0	mg/kg dry	549	ND	93.6	75-125			
Diesel Range Organics >C12-C35	565	10.0	**	549	ND	103	75-125			
Total Hydrocarbon C6-C35	1080	10.0	10	1100	ND	98.2	75-125			
Surrogate: 1-Chlorooctane	63.8		mg/kg	50.0		128	70-130		···	
Surrogate: 1-Chlorooctadecane	63.9		"	50.0		128	70-130			
Matrix Spike Dup (EH40520-MSD1)	Soi	urce: 4H040	12-03	Prepared:	08/05/04	Analyzed	: 08/06/04			
Gasoline Range Organics C6-C12	508	10.0	mg/kg dry	549	ND	92.5	75-125	1.17	20	
Diesel Range Organics >C12-C35	482	10.0	tf.	549	ND	87.8	75-125	15.9	20	
otal Hydrocarbon C6-C35	990	10.0	11	1100	ND	90.0	75-125	8.70	20	
Surrogate: 1-Chlorooctane	64.4		mg/kg	50.0		129	70-130			
urrogate: 1-Chlorooctadecane	60.6		"	50.0		121	70-130			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/10/04 10:54

Organics by GC - Quality Control Environmental Lab of Texas

Analyte		Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41007 - EPA 5030	C (GC)										
Blank (EH41007-BLK1)			. A	. ,	Prepared &	& Analyz	ed: 08/06/	04			
Benzene	······································	ND	0.0250	mg/kg wet			٠.			-20.7 - 2.3	
Foluene		ND	0.0250								***
Ethylbenzene		ND	0.0250	**							1. 1
Kylene (p/m)		ND	0.0250		•,						
Kylene (o)		ND	0.0250	n							
Surrogate: a,a,a-Trifluorotoluene	***	81.2		ug/kg	100		81.2	80-120		· · · · · · · · · · · · · · · · · · ·	
Surrogate: 4-Bromofluorobenzene	12	86.5	s - S	"	. 100		86.5 .	80-120		Λ	1
		* * .			*). A1	*			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LCS (EH41007-BS1)	<u></u>			···	Prepared 8	Analyze				. '	
Benzene	1. A. M.	95.0		ug/kg	100		95.0	80-120			
Coluene	:,	94.1		17	100		94.1	80-120		. **.	
Ethylbenzene	. 60	91.7			100		91.7	80-120		٠.	1, 1,
Kylene (p/m)		199		" "	200		99.5	80-120			
(ylene (o)		- 101			100		101	80-120	-		
urrogate: a,a,a-Trifluorotoluene		94.4		"	100		94.4	80-120	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Surrogate: 4-Bromofluorobenzene		90.6		7 n 197	100		90.6	80-120		•	
Calibration Check (EH41007-C	CV1)				Prepared: (08/06/04	Analyzed	: 08/09/04		71.5	
Benzene		98.7		ug/kg	100		98.7	80-120			
'oluene	•	96.9			100		96.9	80-120			
Ethylbenzene	1514, 3	≈97.9	Part Contract	. **	100		97.9	80-120			* **
(ylene (p/m)		206		У . н	200		103	80-120		** . * .	
(ylene (o)		108	**	. 19	100		108	80-120			
urrogate: a,a,a-Trifluorotoluene		101			100	· .	101	80-120			
urrogate: 4-Bromofluorobenzene	*5	98.9		" , "	100		98.9	80-120		÷	′
Matrix Spike (EH41007-MS1)	1	: Ø-	urce: 4H0401	2.06	Prepared: 0	10/06/04	A nolves d	08/00/04			•
Senzene		2330	ui ce: 4/10401		2500	ND	Analyzed 93.2	80-120	× **		
Coluene	a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	2360		ug/kg	2500	, ND הא	93.2 94.4	80-120 80-120			* 1
		2480	•		2500 2500	ND 16.2	94.4 98.6	80-120 80-120		(e 1)	
	. ' '	2480 5300	*			10.2 49.8	98.6 105	80-120 80-120		.4.	
(ylene (p/m)					5000		105				
(ylene (o)		2700			2500	ND		80-120	·		
urrogate: a,a,a-Trifluorotoluene	٧٠.	91.4			100		91.4	80-120			
urrogate: 4-Bromofluorobenzene		101		"	100		101	80-120			

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/10/04 10:54

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 EH41007 - EPA 5030C (GC)									. <u>-</u> .
Matrix Spike Dup (EH41007-MSD1)	So	ırce: 4H04013-06	Prepared:	08/06/04	Analyzed	1: 08/09/04			
Benzene	2370	ug/kg	2500	ND	94.8	80-120	1.70	20	
Toluene	2400	II	2500	ND	96.0	80-120	1.68	20	
Ethylbenzene	2510	•	2500	16.2	99.8	80-120	1.21	20	
Xylene (p/m)	5360	n	5000	49.8	106	80-120	0.948	20	
Xylene (o)	2740	"	2500	ND	110	80-120	1.83	20	
Surrogate: a,a,a-Trifluorotoluene	92.1	,,	100		92.1	80-120			
Surrogate: 4-Bromofluorobenzene	105	"	100		105	80-120			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/10/04 10:54

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

Analyte		16 1. 1	Result	Reportin Lim	9	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH40901 - General	Prepa	ration (Prep)		in.					7.4		
Blank (EH40901-BLK1)	-	20 M to	1.			Prepared	& Analyze	d: 08/05/0	4	the special section	F	
% Solids	,	egen i. n = figt	100		%							
Duplicate (EH40901-DUP1)				ource: 4H04	1012-01	Prepared of	& Analyze	d: 08/05/0	4			
% Solids		. 1	95.0		· . , · %		95.0			0.00	20	

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-4914 Reported: 08/10/04 10:54

Notes and Definitions

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

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

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Laboratory Control Spike

MS Matrix Spike Duplicate

alandhitail Report Approved By: Date:

Raland K. Tuttle, QA Officer

Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sara Molina, Chemist

Sandra Biezugbe, Lab Tech.

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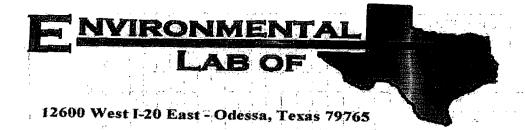
Project Manager: Jeff Dann Company Name: Link Energy / Plains Marketing Company Address: City/State/Zip: Telephone No: Telephone No: Sampler Signature:																		1.				
Company Name: Link Energy / Plains M. Company Address: City/State/Zip: Telephone No: Telephone No:							1	ሺ	Project Name:	t Nau	l g	Ja	114	Ma	Jal 14" Mainline #		9					
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	p	F	gı	F		-	(4	 	-	(4			_	-	86		-					-
	Date Sample	elqme2 smiT	No. of Container	HIOD	HOBN	OSH	Other (Specify	Water	Sludge IioS	Other (Specify	TDS/CL/SAR/	1.814 HTT 1\3001 XT HTT	TPH8015MGROI	Metala	eslitaloV elitalovimeS	BLEX 8051B/20	Reactivity	Vivisorro Spiritishilty	asbiroldC		TAT HEUR	
08030459B	08/03/2004		1 X	H		${\mathbb H}$			M			Н	⊬	\vdash		×				╀	4	-
08030446B	08/03/2004	\dagger	X X	\pm	1	+	Ţ	+	××	\prod	1	+	X	+	1	×	\vdash	\sqcup		H	Ц	+
- 18030455B	08/03/2004	\dagger	1	\perp	1	+		\dagger	1	I	T	+	$\overline{\Phi}$	+	1	\star	+	+	1	+	_	_
08030457B	08/03/2004	8:01	1 X			\vdash	I	T	i ×	I	T	╀	(X	+	+	×2	+	+		+	4	
08030458B	08/03/2004	8:04	1 X						×			┞	X	+	\perp	$\overline{\langle} \times$	╀	\downarrow	Ţ	+	\downarrow	
08030428B	08/03/2004		1 X	Н		H			×			H	×	+	-	X	+	-		+	4	
08030417B	08/03/2004		1 X			\sqcup		H	×				X		L	X	+	-	L	+	\downarrow	
			++	1	#	++	\Box		$\dashv +$			-					$\left \cdot \right \cdot \left \cdot \right $			-		
			+	\pm	\blacksquare	+			+		\pm	+	I	+	\bot	1	+			+		
	*		+	\pm	#	\dashv		+	4	П		H		╁┤	\prod		H	\square		+		-
			\dashv	+	\blacksquare	+	\prod	+	+-		+	+		+	1		+			\vdash		
			\dashv	\exists		\dashv			H			H		H	\sqcup		H	$\frac{1}{1}$		+		
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Special Instructions FAX RE	FAX RESULTS TO PAT McCASL	AND	ASAP						1		. .] .	-	S E	를	- lä	Biner :	Sample Containers In Y	-	z	
Relinguished Malloley 8	Date Time	Reserved by:	13	The state of the s	1					** (Date 7	te /	100	S E		nper orat	ature ory C	od O	on Ke nents:	Laboratory Comments:	- :	
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Plains P/L				
Date/Time: 08 04-04@1615				
Order #: 4 H 0 4 0 1 3				
Initials: JMM				
Sample Receipt	Checkl	list		
Temperature of container/cooler?	Yes		115 C	
Shipping container/cooler in good condition?	Yes	No		
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	(ND)	dient called an	I told us to analyze
Chain of Custody signed when relinquished and received?	(Yes)	No		BTEX BOZIB + TPH BOIS
Chain of custody agrees with sample label(s)	Tes	No		
Container labels legible and intact?	(FES)	No		
Sample Matrix and properties same as on chain of custody?	Tes	No		
Samples in proper container/bottle?	(Yes)	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	(Xes)	No		
Containers documented on Chain of Custody?	(Aee)	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:				
Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				

Senting States of the second s	which were
Market Description of the containers by Acade Science (1972) and the containers by Acade (1972) and the containers by Aca	
MAN AGAD	
	TAV REST

TAT brebnest TAT HRUA Temperature Upon Request Laboratory Comments: Sample Containers In Y Chlorides **Ignitiabilty** Corrosivity Reactivity Project Name: Jal 14" Mainline # 6 Analyze For BLEX 8051B/2030 Semivolatiles 2003-00135 volatiles Time Time Metals **ГРН8015МGRODRO** TOTAL 9001/3001 XT HYI Date Date 1.814 HTT Project #: P0#: Project Loc: LDS/CI'/SVB/EC Other (Specify) XXXX \bowtie LioS XX Sludge Water Other (Specify) Mone OSH NaOH HCI ONH X X ICE × × FAX RESULTS TO PAT McCASLAND ASAP No. of Containers Received by: Received by: 08/03/2004 08/03/2004 08/03/2004 08/03/2004 08/03/2004 08/03/2004 08/03/2004 08/03/2004 Time Time Environmental Lab of Texas, Inc. Date Sampled 915-563-1800 915-563-1713 Company Name: Link Energy / Plains Marketing Date Date Project Manager: Jeff Dann 08030455B 08030457B 08030458B 08030417B 08030459B 08030446B 08030441B 08030428B 12600 West I-20 East Company Address: City/State/Zip: Telephone No: Sampler Signature: Odessa Texas 79763 pecial Instructions Relinquished: Relinquished:



Analytical Report

Prepared for:

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

Project: Jal 14 in. Mainline #6
Project Number: 2003-00135
Location: None Given

Lab Order Number: 4H12005

Report Date: 08/18/04

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/18/04 08:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SL14M8100428C	4H12005-01	Soil	08/10/04 07:19	08/12/04 10:30
SL14M8100455C	4H12005-02	Soil	08/10/04 07:26	08/12/04 10:30
SL14M810046D	4H12005-03	Soil	08/10/04 08:16	08/12/04 10:30
SL14M8100411D	4H12005-04	Soil	08/10/04 08:20	08/12/04 10:30
SL14M8100417D	4H12005-05	Soil	08/10/04 08:25	08/12/04 10:30

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/18/04 08:37

Organics by GC Environmental Lab of Texas

	_,			13011				. , ,	·
Analyte	Result	Reporting Limit		Dilutio	n Batch	Prepared	Analyzed	Method	Note
SL14M8100428C (4H12005-01) Soil									्रिष्टी है।
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	h in Miles
Toluene	ND	0.0250	# ,	#	"	n		•	Mark Services
Ethylbenzene	ND	0.0250	u	н		#	11	n	
Xylene (p/m)	ND ·	0.0250	**	Ħ	**		**	#	
Xylene (o)	ND	0.0250	*	,	H	*			
Surrogate: a,a,a-Trifluorotoluene		88.9 %	80-	120	,,	. "	n	"	···
Surrogate: 4-Bromofluorobenzene		89.5 %	80-	120	*	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	н		11	*	H	
Total Hydrocarbon C6-C35	ND	10.0	**	Ħ	*	•	H	•	
Surrogate: 1-Chlorooctane		123 %	70-	130	"	"	08/12/04	"	
Surrogate: 1-Chlorooctadecane		126 %	70	130	"	"	**	"	
SL14M8100455C (4H12005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/15/04	EPA 8021B	
Toluene	ND	0.0250	•	u	11	н	•	Ħ	
Ethylbenzene	ND	0.0250			**	ıı	•		
Xylene (p/m)	ND	0.0250	**	н	n	н	n	11	
Xylene (o)	ND	0.0250		**	•	**	11	H	
Surrogate: a,a,a-Trifluorotoluene		80.6 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-1	120	*	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	Ħ		11	**	*	H	
Total Hydrocarbon C6-C35	ND	10.0	•	н	II .	Ħ		n	
Surrogate: 1-Chlorooctane		117%	70-1	130	n	"	n	"	_
Surrogate: 1-Chlorooctadecane		109 %	70-1	130	"	,,	•	"	
SL14M810046D (4H12005-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	ND	0.0250	•			н	n	•	
Ethylbenzene	ND	0.0250	•		#	#	H	W	
Xylene (p/m)	ND	0.0250	•	*		*	n	M	
Xylene (o)	ND	0.0250	*	•	•	*	*	W	
Surrogate: a,a,a-Trifluorotoluene		84.1 %	80-1	120	"	н	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-1	20	,,	**	"	"	
Gasoline Range Organics C6-C12	61.7	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	428	10.0		*			•	**	
Total Hydrocarbon C6-C35	490	10.0	*	**	**	•	•		

Environmental Lab of Texas

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

Page 2 of 10

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:
08/18/04 08:37

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
SL14M810046D (4H12005-03) Soil	<u> </u>						_	·	
Surrogate: 1-Chlorooctane		115 %	70-1	130	EH41207	08/12/04	08/12/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		128 %	70-1	130	"	"	"	Ħ	
SL14M8100411D (4H12005-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	0.179	0.0250	H	Ħ	u	n	**	n	
Ethylbenzene	0.238	0.0250	tr .	ч	**	14	w	**	
Xylene (p/m)	0.640	0.0250	n	u	¥	n	n	u	
Xylene (o)	0.173	0.0250	*	¥	n	u	п	u	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	63.8	10.0	mg/kg dry	. 1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	442	10.0	**	17	**	Ħ	n	**	
Total Hydrocarbon C6-C35	506	10.0	**	11	n	н	u	h	
Surrogate: 1-Chlorooctane		115 %	70-1	30	"	"	"	#	
Surrogate: 1-Chlorooctadecane		128 %	70-1	30	r	"	"	"	
SL14M8100417D (4H12005-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/15/04	EPA 8021B	
Toluene	0.110	0.0250	n	•	ŧŧ	*1	**	n	
Ethylbenzene	0.191	0.0250	"	н		*	"	n	
Xylene (p/m)	0.431	0.0250	#	**	n	Ħ	10		
Xylene (o)	0.157	0.0250	H	u	н	u	v	10	
Surrogate: a,a,a-Trifluorotoluene		86.7 %	80-1	20	"	11	"	**	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-1	20	"	**	n	**	
Gasoline Range Organics C6-C12	78.9	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	859	10.0	n	H	Ħ	**		n	
Total Hydrocarbon C6-C35	938	10.0	11	IJ	**	H	n		
Surrogate: 1-Chlorooctane		120 %	70-1	30	,,	"	"	,,	
urrogate: I-Chlorooctadecane		126 %	70-1	30	,,	"	"	"	

Environmental Lab of Texas

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Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/18/04 08:37

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

*			Reporting			,				
Analyte	Result	۹.	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SL14M8100428C (4H12005-01) Soil			· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
% Solids	95.0	}		%	1	EH41301	08/12/04	08/12/04	% calculation	
SL14M8100455C (4H12005-02) Soil			•						\$ 5 W	· -
% Solids	93.0			%	1	EH41301	08/12/04	08/12/04	% calculation	
SL14M810046D (4H12005-03) Soil				. ·	. : *		* , *			
% Solids	92.0		-2	%	., 1	EH41301	08/12/04	08/12/04	% calculation	
SL14M8100411D (4H12005-04) Soil	ė			•						•
% Solids	89.0		,	%`	1	EH41301	08/12/04	08/12/04	% calculation	
SL14M8100417D (4H12005-05) Soil				;						
% Solids	96.0			%	1	EH41301	08/12/04	08/12/04	% calculation	** , *

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/18/04 08:37

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits RPD	RPD Limit	Notes
Batch EH41207 - Solvent Extraction	(GC)								
Blank (EH41207-BLK1)				Prepared	& Analyze	d: 08/12/	04		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	• 11						
Total Hydrocarbon C6-C35	ND	10.0							
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130	 	
Surrogate: 1-Chlorooctadecane	44.5		"	50.0		89.0	70-130		
Blank (EH41207-BLK2)				Prepared &	& Analyze	d: 08/12/0	04		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	n						
Total Hydrocarbon C6-C35	ND	10.0	11						
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	70-130		
Surrogate: 1-Chlorooctadecane	44.7		"	50.0		<i>89.4</i>	70-130		
LCS (EH41207-BS1)				Prepared &	& Analyze	d: 08/12/0)4		
Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125		·· ·
Diesel Range Organics >C12-C35	484	10.0	M	500		96.8	75-125		
Total Hydrocarbon C6-C35	924	10.0	H	1000		92.4	75-125		
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	70-130		
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		<i>86.8</i>	70-130		
LCS (EH41207-BS2)				Prepared &	& Analyze	d: 08/12/ 0)4		
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125		
Diesel Range Organics >C12-C35	410	10.0	n	500		82.0	75-125		
Total Hydrocarbon C6-C35	824	10.0	11	1000		82.4	75-125		
Surrogate: 1-Chlorooctane	36.3		mg/kg	50.0		72.6	70-130		
urrogate: 1-Chlorooctadecane	39.4		"	50.0		<i>78.8</i>	70-130		
Calibration Check (EH41207-CCV1)				Prepared &	k Analyze	d: 08/12/0	4		
Gasoline Range Organics C6-C12	442		mg/kg	500		88.4	80-120		
Diesel Range Organics >C12-C35	496		n	500		99.2	80-120		
Total Hydrocarbon C6-C35	938		"	1000		93.8	80-120		
Surrogate: 1-Chlorooctane	49.5			50.0		99.0	70-130		
urrogate: 1-Chlorooctadecane	40.4		#	50.0		80.8	70-130		

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/18/04 08:37

Analyte	R	esult	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41207 - Solvent Extract	ion (GC)				,			in .			
Calibration Check (EH41207-CCV2))	ν			Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics C6-C12		465	-	mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35		513		N	500		103	80-120		•	
Total Hydrocarbon C6-C35		978			1000	, Ly	97.8	80-120			A
Surrogate: 1-Chlorooctane	. ,	51.9		·. #	50.0	· · · · · ·	104	70-130	,	4.	· · ·
Surrogate: 1-Chlorooctadecane	+ 4.1	44.5		. "	50.0		89.0	70-130			
Matrix Spike (EH41207-MS1)	٠.	Source	çe: 4H120	02-04	Prepared	& Analyzo	ed: 08/12/	04			÷
Gasoline Range Organics C6-C12		518	10.0	mg/kg dry	526.	ND	98.5	75-125	-		N 1 1 28 1 1
Diesel Range Organics >C12-C35		684	10.0	**	526	65.9	118	75-125	;		٠.
Total Hydrocarbon C6-C35	1	200	10.0	**	1050	65.9	108	75-125		1 4	
Surrogate: 1-Chlorooctane	1	56.9		mg/kg	50.0	·	114	70-130			
urrogate: 1-Chlorooctadecane		59.2		. "	50.0		118	70-130			
Aatrix Spike (EH41207-MS2)		Source	e: 4H120	08-07	Prepared:	08/12/04	Analyzed	: 08/13/04	,		
asoline Range Organics C6-C12		587	10.0	mg/kg dry	575	ND	102	75-125			
iesel Range Organics >C12-C35		643	10.0	<u> </u>	575	ND	112.	75-125	•		
otal Hydrocarbon C6-C35	1	230	10.0		1150	ND	107	75-125			
urrogate: I-Chlorooctane		56.8		mg/kg	50.0		114.	70-130		·	. , , ,
urrogate: 1-Chlorooctadecane		51.7 ·		"	50.0		103	70-130			
Aatrix Spike Dup (EH41207-MSD1)		Source	e: 4H120	02-04	Prepared o	& Analyze		_			·
asoline Range Organics C6-C12		541		mg/kg dry	526	ND	103	75-125	4.34	20	4
Diesel Range Organics >C12-C35	12x +1	667	10.0	· · .	526	65.9	114	75-125	2.52	20	
otal Hydrocarbon C6-C35	$\log \epsilon \ll 1$	210	10.0		1050	65.9	109	75-125	0.830	20	*
urrogate: I-Chlorooctane	17,	51.2	**	mg/kg	50.0	···	122	70-130			
urrogate: 1-Chlorooctadecane	i ., .	57.9		. "	50.0		116	70-130		March Mary	
Iatrix Spike Dup (EH41207-MSD2)	1	1 7 4 7 7	e: 4H120	3.24	Prepared:		<u>-</u>				
asoline Range Organics C6-C12		583		mg/kg dry	575	ND	101	75-125	0.684	20	
iesel Range Organics >C12-C35		630 _v	10.0	. •	575	ND	110	75-125	2.04	20	
otal Hydrocarbon C6-C35	$S_{ijk} = 1$	210 .	10.0		1150	ND	105	75-125	1.64	20	1
urrogate: I-Chlorooctane		6.3		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane		3.7		. "	50.0		107	<i>70-130</i>			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/18/04 08:37

		Reporting		Spike	Source		%REC	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits RPI		Notes
Batch EH41605 - EPA 5030C (GC)									
Blank (EH41605-BLK1)	· · · · · · · · · · · · · · · · · · ·			Prepared o	& Analyze	:d: 08/12/	04		
Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	#						
Ethylbenzene	ND	0.0250	u						
Xylene (p/m)	ND	0.0250	"						
Xylene (o)	ND	0.0250	**						
Surrogate: a,a,a-Trifluorotoluene	86.4		ug/kg	100		86.4	80-120		
Surrogate: 4-Bromofluorobenzene	81.3		"	100		81.3	80-120		
LCS (EH41605-BS1)				Prepared:	08/12/04	Analyzed	: 08/13/04		
Benzene	93.2		ug/kg	100		93.2	80-120		
Toluene	98.9		"	100		98.9	80-120		
Ethylbenzene	103		и	100		103	80-120		
Kylene (p/m)	217		n	200		108	80-120		
Xylene (o)	111		n	100		111	80-120		
Surrogate: a,a,a-Trifluorotoluene	97.0		"	100		97.0	80-120	· · · · · · · · · · · · · · · · · · ·	
Surrogate: 4-Bromofluorobenzene	98.5		*	100		98.5	80-120		
Calibration Check (EH41605-CCV1)				Prepared:	08/12/04	Analyzed	: 08/14/04		
Benzene	93.5		ug/kg	100		93.5	80-120		
Foluene	97.9		11	100		97.9	80-120		
Ethylbenzene	98.3		tr	100		98.3	80-120		
Kylene (p/m)	212		n	200		106	80-120		
Kylene (o)	109		n	100		109	80-120		
Surrogate: a,a,a-Trifluorotoluene	96.7			100		96.7	80-120		
Surrogate: 4-Bromofluorobenzene	94.8		"	100		94.8	80-120		
Matrix Spike (EH41605-MS1)		ırce: 4H120	02-03	Prepared:		-	08/15/04		
Benzene	97.9		ug/kg	100	ND	97.9	80-120		
Toluene	95.0		Ħ	100	ND	95.0	80-120		
ithylbenzene	96.7		#	100	ND	96.7	80-120		
Xylene (p/m)	206		II .	200	ND	103	80-120		
Xylene (o) ■	103		#	100	ND	103	80-120		
urrogate: a,a,a-Trifluorotoluene	88.2			100		88.2	80-120		
Surrogate: 4-Bromofluorobenzene	87.0		"	100		87.0	80-120		

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135

Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported:

08/18/04 08:37

Analyte	Result	Limit Units	Spike Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch EH41605 - EPA 5030C (GC)								*.	
Matrix Spike Dup (EH41605-MSD1)	So	ource: 4H12002-03	Prepared:	08/12/04	Analyzed	: 08/15/04	ļ	* · ·	· · · · · · · · · · · · · · · · · · ·
Benzene	98.4	ug/kg	100	ND	98.4	80-120	0.509	20	
Toluene	96.0	Ħ	100	ND	96.0	80-120	1.05	20	•
Ethylbenzene	97.6	ŧt	100	ND	97.6	80-120	0.926	20	
Xylene (p/m)	209	Ħ	200	ND	104	80-120	0.966	20	
Xylene (o)	105	u	100	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	91.0	"	100		91.0	80-120	<u> </u>		·
Surrogate: 4-Bromofluorobenzene	91.0	• "	100		91.0	80-120			

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/18/04 08:37

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 R		RPD Limit	Notes
Batch EH41301 - General Prepar	ation (Prep)									
Blank (EH41301-BLK1)				Prepared	& Analyzo	ed: 08/12/0	04			
% Solids	100		%							····
Duplicate (EH41301-DUP1)	So	rce: 4H120()1-01	Prepared a	& Analyze	ed: 08/12/0	04			
% Solids	87.0		%		86.0		1.	16	20	

DET

Project: Jal 14 in. Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann

Fax: (432) 687-491

Reported: 08/18/04 08:37

Notes and Definitions

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 Duplicate Dup

Report Approved By:

Date:

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.

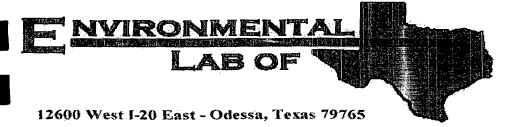
This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

	9 1						For		AX A	Reactivity Corrosivit Ignitiabilt Chlorides RUSH T. Standard										17		Sample Containers In Y N	remperature Upon Request Laboratory Comments:	1,55	
		Project #: 2003-00135	:t Loc:	PO#:			Analyze For	TOTAL	AR/EC BODEC BODEC Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba	Other (Spenivolation)				X								Samp	Date Time Labor	1	10501 1050
	Project Name:	Proj	Project Loc:						ci(A)	NaOH None None None Water Spuls Soil	X	X	x;	×	4										O CONTRACT
						C	विष	200	erstii	Time Sam	7:19 1	7:26 1	8:16	_	7 070							CCASLAND ASAP	Becamed by:		Sea and Mills
Dof Texas, Inc. Phone: 915-563-1713		Plains Marketing				Brokey			pjeq	Date Sam	08/10/2004	08/10/2004	08/10/2004	08/10/2004	±007/01/00							FAX RESULTS TO PAT McCASLAND ASAP	Date Time	2	Ì
emtal La	Project Manager: Jeff Dann	Company Name: Link Energy / Flains Marketing	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature; Make			Out the second		SL14M8100428C	SL14M8100455C	SL14M810046D	SL14M8100411D	STITEMOTORIUS	13.57			20% • 7€			structions	ledi Bringlist	led:	277
Environna 12600 West 1-20 Eas Odessa Texas 79763	Project	Compa	Company	City/	Teler	Sampler S			J	90 W	-10	70_	60									Special Instructions	Relinquished:	Relingwished:	R

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

Client: Plains P/L	- 44			:			
	t it is			-		ì	
Date/Time: 08-12-04 @ 1100	· · · · · · · · · · · · · · · · · · ·	*		i	•	, ,	1 -
Order #: 4H12OO5	· · · · · ·		1				
Order #	1 7	.,			• . •		
				}	•	:	٠.
Initials: JMM							:
	+ .	\$ 14 ·	, <u>L</u> .				• • • • • • • • • • • • • • • • • • • •
Sample Receipt (heckl	ist		1			
Temperature of container/cooler?	(Yes)		lis	ch	;	· .	
Shipping container/cooler in good condition?	Yes	No	1.2	Ŭ		:	4,5
Custody Seals intact on shipping container/cooler?	Yes	No	(Not preser	1			
Custody Seals intact on sample bottles?	Yes	No	Not preser	-	i		• • • • • • • • • • • • • • • • • • • •
Chain of custody present?	(Yes)	No	(or preser	-4	:		
Sample Instructions complete on Chain of Custody?	Tes	No					
Chain of Custody signed when relinquished and received?	788	No					
Chain of custody agrees with sample label(s)	763	No					
Container labels legible and intact?	Wes)	No					
Sample Matrix and properties same as on chain of custody?'	(Yes)	No					,
Samples in proper container/bottle?	Tes.	No .	· · ·				
Samples properly preserved?	765	No					
Sample bottles intact?	700	No					
Preservations documented on Chain of Custody?	Zes	No					
Containers documented on Chain of Custody?	res	No	 				
Sufficient sample amount for indicated test?	(VES)	No				í	ł
All samples received within sufficient hold time?	(Yes)	No					
VOC samples have zero headspace?	Yes	No	Not Applicab	le		•	
	بالمحت		C. C. C. C. C. C. C. C. C. C. C. C. C. C				
Other observations:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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Corrective Action Taken:	1 1						
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							16.
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Analytical Report

Prepared for:

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

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

Location: Section 25 & 36 T23S R37E

Lab Order Number: 4H24004

Report Date: 08/26/04

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135

5

Fax: (432) 687-4914

Reported: 08/26/04 17:21

ANALYTICAL REPORT FOR SAMPLES

Project Manager: Jeff Dann

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PV682004#17E-12'	4H24004-01	Soil	08/20/04 08:00	08/24/04 12:55
PV682004#17E-13'	4H24004-02	Soil	08/20/04 08:10	08/24/04 12:55
PV682004#17E-14'	4H24004-03	Soil	08/20/04 08:15	08/24/04 12:55
PV682004#17E-15'	4H24004-04	Soil	08/20/04 08:20	08/24/04 12:55
PV682004#17E-16'	4H24004-05	Soil	08/20/04 08:25	08/24/04 12:55
PV682004#17E-17'	4H24004-06	Soil	08/20/04 08:30	08/24/04 12:55
PV682004#17E-18'	4H24004-07	Soil	08/20/04 08:50	08/24/04 12:55
PV682004#17E-19'	4H24004-08	Soil	08/20/04 08:57	08/24/04 12:55
PV682004#17E-20'	4H24004-09	Soil	08/20/04 09:05	08/24/04 12:55
PV682004#11E-12'	4H24004-10	Soil	08/20/04 09:30	08/24/04 12:55
PV682004#6E-2'	4H24004-23	Soil	08/20/04 13:40	08/24/04 12:55

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:
08/26/04 17:21

Organics by GC Environmental Lab of Texas

<i>a</i> *									
Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
PV682004#17E-12' (4H24004-01) Soil									
Benzene	16.7	0.0500	mg/kg dry	50	EH42606	08/24/04	08/24/04	EPA 8021B	
Toluene	45.4	0.0500	n			11	#	u	
Ethylbenzene	36.4	0.0500	11	u	u	n	11	II .	
Xylene (p/m)	47.3	0.0500	It	u	u	e	n.	U	
Xylene (o)	21.0	0.0500		11	•	II .	н	N	
Surrogate: a,a,a-Trifluorotoluene		1600 %	80-1	20	,,	"	"	,	S-0-
Surrogate: 4-Bromofluorobenzene		101 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	2510	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	2800	10.0	**	**	"	"	**	11	
Total Hydrocarbon C6-C35	5310	10.0	ti.	**	U	**	н	tr	
Surrogate: 1-Chlorooctane		108 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-1		"	"	"	"	
PV682004#17E-13' (4H24004-02) Soil									
Benzene	1.73	0.0250	mg/kg dry	25	EH42606	08/24/04	08/24/04	EPA 8021B	
Toluene	8.68	0.0250	**	n	**	D	u		
Ethylbenzene	6.38	0.0250	Ħ	u	u	11	n		
Xylene (p/m)	12.7	0.0250	"	**	"	n		"	
Xylene (o)	5.11	0.0250	H	н	u	H	Ħ		
Surrogate: a,a,a-Trifluorotoluene		678 %	80-1	20	"	"	"	,,	S-04
Surrogate: 4-Bromofluorobenzene		100 %	80-1	20	,,	"	"	"	
Gasoline Range Organics C6-C12	420	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	521	10.0	#	**	**	Ħ			
Total Hydrocarbon C6-C35	941	10.0	н	**	n	n	e	**	
Surrogate: 1-Chlorooctane		111 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-1	30	"	"	"	"	
PV682004#17E-14' (4H24004-03) Soil									
Benzene	1.31	0.0250	mg/kg dry	25	EH42606	08/24/04	08/24/04	EPA 8021B	
Toluene	7.94	0.0250	"	u	•	**	**	11	
Ethylbenzene	6.00	0.0250	n				"	11	
Kylene (p/m)	11.5	0.0250	11	**	"	n	n	II .	
Kylene (o)	4.49	0.0250	W		•	**	"	Ħ	
Surrogate: a,a,a-Trifluorotoluene		541 %	80-1	20	"	"	n	"	S-04
Surrogate: 4-Bromofluorobenzene		98.2 %	80-1	20	"	"	"	,,	
Gasoline Range Organics C6-C12	560	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	992	10.0	n	**	11	Ħ	н	11	
Total Hydrocarbon C6-C35	1550	10.0	ıı		11		D.	•	

Environmental Lab of Texas

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

Page 2 of 13

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:
08/26/04 17:21

Organics by GC Environmental Lab of Texas

PV682004#17E-14 (4H24004-03) Soil								Reporting			·
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctane 116 % 70-130 EH2405 08/24/04 08/24/04 EPA 8015M Surrogate: 1-Chlorooctadecane 107 % 70-130 " " " " PV682004#17E-15' (4H24004-04) Soil Benzene 0.310 0.0250 mg/kg dry 25 EH42606 08/24/04 08/24/04 EPA 8021B Coluene 3.48 0.0250 " " " " " " Coluene Surrogate: 3.51 0.0250 " " " " " " Surrogate: 3.51 0.0250 " " " " " " " Surrogate: 4. Fromofluorobenzene Surrogate: 4-Bromofluorobenzene 145 % 80-120 " " " " " " Surrogate: 1-Chlorooctadecane 115 % 70-130 " " " " " " " Surrogate: 1-Chlorooctadecane 115 % 70-130 " " " " " " " " " " " " " " " " " " "	Note	Method	Analyzed	Prepared	n Batch	Dilution	Units I	Limit	Result	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analyte
107 % 70-130	- 194 - 1		* * * * * * * * * * * * * * * * * * * *		-					-14' (4H24004-03) Soil	PV682004#17E-1
PV682004#17E-15' (4H24004-04) Soil Benzene		EPA 8015M	08/24/04	08/24/04	EH42405	0	70-130	116%		lorooctane	Surrogate: 1-Chlo
Benzene 0.310 0.0250 mg/kg dry 25 EH42606 08/24/04 08/24/04 EPA 8021B Coluene 3.48 0.0250 " " " " " " " " " " " " " " " " " " "		"	"	,		0	70-130	107 %		lorooctadecane	Surrogate: 1-Chlor
Toluene 3.48	· 41				*				·	-15' (4H24004-04) Soil	PV682004#17E-1
Ethylbenzene 3.51 0.0250 " " " " " " " " " " " " " " " " " " "	3,10	EPA 8021B	08/24/04	08/24/04	EH42606	.25	mg/kg dry	0.0250	0.310		Benzene
Xylene (p/m) 7.75 0.0250 " " " " " " " " " " " " " " " " " " "		•		*	* a	n	Was to the	0.0250	3.48		Foluene
Surrogate: a,a,a-Trifluorotoluene	•	$\lambda \mathbf{n} \rightarrow \lambda_{n+1}$	#	Ħ		**	u	0.0250	3.51	,	Ethylbenzene
Surrogate: a,a,a-Trifluorotoluene	•	. , .		10	, n		n 'ç	0.0250	7.75		Xylene (p/m)
Surrogate: 4-Bromofluorobenzene 96.3 % 80-120 " " " " " " " " " " " " " " " " " " "	•					#	a	0.0250	2.87		Xylene (o)
Gasoline Range Organics C6-C12 507 10.0 mg/kg dry 1 EH42405 08/24/04 08/24/04 EPA 8015M	S-04		"	, ,,)	80-120	145 %		-Trifluorotoluene	Surrogate: a,a,a-Ti
Diesel Range Organics > C12-C35 973 10.0		î.,, ``	"	"	'n) :	80-120	96.3 %	4	omofluorobenzene	Surrogate: 4-Brom
Total Hydrocarbon C6-C35 1480 10.0 " " " " " " " " " " " " " " " " " "		EPA 8015M	08/24/04	08/24/04	EH42405	1	mg/kg dry	10.0	507	Organics C6-C12	Gasoline Range O
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 115 % 70-130 " " " " PV682004#17E-16' (4H24004-05) Soil Benzene 0.106 0.0250 mg/kg dry 25 EH42606 08/24/04 08/24/04 EPA 8021B Toluene 0.851 0.0250 " " " " " " Ethylbenzene 0.774 0.0250 " " " " " " " Kylene (p/m) 2.17 0.0250 " " " " " " " Surrogate: a,a,a-Trifluorotoluene 131 % 80-120 " " " " Surrogate: 4-Bromofluorobenzene 101 % 80-120 " " " " " Gasoline Range Organics C6-C12 153 10.0 mg/kg dry 1 EH42405 08/24/04 08/24/04 EPA 8015M Diesel Range Organics >C12-C35 297 10.0 " " " " " Total Hydrocarbon C6-C35 450 10.0 " " " " " " "								10.0	973	rganics >C12-C35	Diesel Range Orga
Surrogate: 1-Chlorooctadecane	• • •			u			#	10.0	1480	bon C6-C35	Total Hydrocarbo
PV682004#17E-16' (4H24004-05) Soil Benzene			n	"	. • и.)	70-130	.113 %		lorooctane	Surrogate: 1-Chlor
Benzene 0.106 0.0250 mg/kg dry 25 EH42606 08/24/04 08/24/04 D8/24/04 EPA 8021B Toluene 0.851 0.0250 " " " " " " " " " " " " " " " " " " "		"	"	w .')'	70-130 °	115 %		lorooctadecane	Surrogate: 1-Chlor
Benzene 0.106 0.0250 mg/kg dry 25 EH42606 08/24/04 08/24/04 D8/24/04 EPA 8021B Toluene 0.851 0.0250 " " " " " " " " " " " " " " " " " " "					••	•					
Toluene 0.851 0.0250 " " " " " " " " " " " " " " " " " " "	:									·16' (4H24004-05) Soil	PV682004#17E-16
Ethylbenzene 0.774 0.0250 " " " " " " " " " " " " " " " " " " "	t w	EPA 8021B	08/24/04	08/24/04	EH42606	25	mg/kg dry	0.0250	0.106		Benzene
Xylene (p/m) 2.17 0.0250 "	1.5	u profit	•	Ħ	н	*	u .	0.0250	0.851		l'oluene
Xylene (o) 0.747 0.0250 " " " " " " " " " " " " " " " " " " "		es no ost						0.0250	0.774		Ethylbenzene
Surrogate: a,a,a-Trifluorotoluene 131 % 80-120 " " " " " Surrogate: 4-Bromofluorobenzene 101 % 80-120 " " " " " " Gasoline Range Organics C6-C12 153 10.0 mg/kg dry 1 EH42405 08/24/04 08/24/04 EPA 8015M Diesel Range Organics >C12-C35 297 10.0 " " " " " " " " " Total Hydrocarbon C6-C35 450 10.0 " " " " " " " " " " " " " " " " " "			n			**	п	0.0250	2.17	* 1 **** g* 1 ***	Kylene (p/m)
Surrogate: 4, a, a-1 riftuorotoluene		• •		II) •	**		0.0250	0.747	ı	Kylene (o)
Gasoline Range Organics C6-C12 153 10.0 mg/kg dry 1 EH42405 08/24/04 08/24/04 EPA 8015M Diesel Range Organics >C12-C35 297 10.0 " " " " " " " " " " " " " " " " " "	S-04	"	"	n ·	100 11)	80-120	131 %		Trifluorotoluene	Surrogate: a,a,a-Tr
Diesel Range Organics > C12-C35 297 10.0 " " " " " " " " " " " " " " " " " "	*	n	*	"	'n)	80-120	101 %		mofluorobenzene	Surrogate: 4-Brom
Total Hydrocarbon C6-C35 450 10.0 " " " " " " " "		EPA 8015M	08/24/04	08/24/04	EH42405	1	mg/kg dry	10.0	153	Organics C6-C12	Gasoline Range O
Total Hydrocarbon C6-C35 450 10.0 " " " " " " " "	٠.			•		*	•	10.0	297	ganics >C12-C35	Diesel Range Orga
1000/ 70.120				•		.* .	u	10.0	450		
Surrogate: 1-Chlorooctane 103 % /0-130 " " "		**	"	,) '	70-130	105 %	O CONTRACTOR	orooctane	Surrogate: 1-Chlor
Surrogate: 1-Chlorooctadecane 90.8 % 70-130 " " " " "		"	"	n - 1	w :)	70-130	90.8 %			•

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported:
08/26/04 17:21

Organics by GC Environmental Lab of Texas

		ZZE (E CE)	Monton L	2000 01 .	L CALLED				
Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Not
PV682004#17E-17' (4H24004-06) So	11		-						
Benzene	0.0145	0.0250	mg/kg dry	25	EH42606	08/24/04	08/24/04	EPA 8021B	
Toluene	0.231	0.0250	11	"	0	"	"	n	
Ethylbenzene	0.379	0.0250	11		**	**	**	n	
Xylene (p/m)	1.08	0.0250	н		**	**	*	n	
Xylene (o)	0.378	0.0250	n		*	н	**	n	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-1	20	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	146	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	395	10.0	"	u	n		ħ	er .	
Total Hydrocarbon C6-C35	541	10.0	•	11	**	n	19	,,	
Surrogate: 1-Chlorooctane		113 %	70-1	30	"	,,		"	
Surrogate: 1-Chlorooctadecane		103 %	70-1		"	"	Ħ	"	
PV682004#17E-18' (4H24004-07) Soi	1								
Benzene	0.0403	0.0250	mg/kg dry	25	EH42606	08/24/04	08/24/04	EPA 8021B	
Toluene	0.206	0.0250				н	11		
Ethylbenzene	0.214	0.0250	,,	Ħ	11	и	•	0	
Kylene (p/m)	0.637	0.0250	#		11	n	n	**	
Xylene (o)	0.186	0.0250		**	•	n ·	*	n	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	80-1	20	"	v	"	**	
Gasoline Range Organics C6-C12	67.2	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	149	10.0	n			ır	Ħ	H .	
Fotal Hydrocarbon C6-C35	216	10.0	Ħ	n	n	n	19	U	
Surrogate: 1-Chlorooctane		104 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.8 %	70-1	30	"	"	"	Ħ	
PV682004#17E-19' (4H24004-08) Soi	1								
Benzene	0.0744	0.0250	mg/kg dry	25	EH42606	08/24/04	08/25/04	EPA 8021B	
Toluene	0.861	0.0250	н	**	#	H	Ħ	11	
Ethylbenzene	1.15	0.0250	**	н	17	"		•	
Kylene (p/m)	2.76	0.0250	11	u	ŧ	**	H	•	
Kylene (o)	0.959	0.0250	11	**	*	н	11	n	
Surrogate: a,a,a-Trifluorotoluene		136 %	80-1	20	"	"	"	н	S-0
urrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	193	10.0	mg/kg dry	1	EH42405	08/25/04	08/25/04	EPA 8015M	
Diesel Range Organics >C12-C35	379	10.0	tt	tt	н	Ħ	n		
otal Hydrocarbon C6-C35	572	10.0	11	11	**	н		n .	

Environmental Lab of Texas

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

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Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limi	•	Dilutio	n Batch	Prepared	Analyzed	Method	Notes
PV682004#17E-19' (4H24004-08) Soil	l								
Surrogate: 1-Chlorooctane	•	117 %	70-1.	30	EH42405	08/25/04	08/25/04	EPA 8015M	, ,"
Surrogate: 1-Chlorooctadecane		88.4 %	70-1.	30	, , , , ,	W . N .	"	"	*.,
PV682004#17E-20' (4H24004-09) Soil		1		4		· ·			
Benzene	ND	0.0250	mg/kg dry	25	EH42606	08/24/04	08/25/04	EPA 8021B	
Foluene	0.0313	0.0250	0 25	10		11			*
Ethylbenzene	0.120	0.0250	H '	**	Ý 0		10		1. 1
Xylene (p/m)	0.324	0.0250		• '	*				
Xylene (o)	0.100	0.0250		•	i i "	н - *	**	**	
Surrogate: a,a,a-Trifluorotoluene	3	88.1 %	80-12	0	. "	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-12	0	,	"	"	"	
Gasoline Range Organics C6-C12	70.9	10.0	mg/kg dry	1	EH42405	08/25/04	08/25/04	EPA 8015M	,
Diesel Range Organics >C12-C35	185	10.0	n		•		•	y	
Total Hydrocarbon C6-C35	256	10.0	# .	#			11		
Surrogate: 1-Chlorooctane		120%	70-13	0	*	n	"	"	
Surrogate: 1-Chlorooctadecane	,	95.6 %	70-13	0	. "	"	•	"	
PV682004#11E-12' (4H24004-10) Soil					•	,			
Benzene	ND	0.0250	mg/kg dry	25	EH42606	08/24/04	08/25/04	EPA 8021B	+ 1.1
Coluene	ND	0.0250			n.	n	**	1 To 1	*
Ethylbenzene	ND	0.0250	•	,· •	e	*	н .	n	· · · · · · · · ·
Cylene (p/m)	. ND	0.0250	•	i, w _i i	3 m	M		* *	1.0
(v)lene (o)	ND	0.0250	n	H	· * #		•		* ,
Surrogate: a,a,a-Trifluorotoluene		95.9 %	80-12	0			,,	ji '	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-12	Ó	"	"	"	<i>"</i> · · ·	• • • • • • • • • • • • • • • • • • • •
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	16.5	10.0	n		*	u			
Total Hydrocarbon C6-C35	16.5	10.0	n						
Surrogate: 1-Chlorooctane		97.8 %	70-13	0		"	. '1 "	"	
Surrogate: 1-Chlorooctadecane		77.2 %	70-13	0	,,	*	"	"	•

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed .	Method	Notes
PV682004#6E-2' (4H24004-23) Soil		· · · · · · · · · · · · · · · · · · ·	·						
Benzene	ND	0.0250	mg/kg dry	25	EH42606	08/24/04	08/25/04	EPA 8021B	
Toluene	ND	0.0250	n	**	11	19	*	11	
Ethylbenzene	ND	0.0250	W		**	•	H	11	
Xylene (p/m)	ND	0.0250	#	#1	H	**	rt .	Ħ	
Xylene (o)	ND	0.0250	**	**		"	ıı	•	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.3 %	80-1	20	"	n	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42405	08/24/04	08/24/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	#	**	н		H.	•	
Total Hydrocarbon C6-C35	ND	10.0	"	н	"		#	*	
Surrogate: 1-Chlorooctane		106 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.8 %	70-1	30	**	**	#	"	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

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

			Reporting	·		·····	· · ·	· · · · · · · · · · · · · · · · · · ·	
Analyte	**	Result	Limit Units	Dilutio	n Batch	Prepared	Analyzed	Method	Notes
PV682004#17E-12' (4H	[24004-01) Soil								
% Solids		89.0	%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EH42506	08/24/04	08/24/04	% calculation	
PV682004#17E-13' (4H	[24004-02] Soil	-1	J.		•				· · · · · · · · · · · · · · · · · · ·
% Solids		90.0	%	1	EH42506	08/24/04	08/24/04	% calculation	. e
PV682004#17E-14' (4H	24004-03) Soil	**			· · · · · · · · · · · · · · · · · · ·			ate and see	
% Solids	13	91.0	%	1	EH42506	08/24/04	08/24/04	% calculation	
PV682004#17E-15' (4H		v - 5			•	٠.			
% Solids		93.0	%	1	EH42506	08/24/04	08/24/04	% calculation	
PV682004#17E-16' (4H:	24004-05) Soil				,			e autorio de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composici	
% Solids		93.0	%	1	EH42506	08/24/04	08/24/04	% calculation	
PV682004#17E-17' (4H2	24004-06) Soil								
% Solids		92.0	%	1	EH42506	08/24/04	08/24/04	% calculation	_
PV682004#17E-18' (4H2	24004-07) Soil								
% Solids		93.0	%	1	EH42506	08/24/04	08/24/04	% calculation	
PV682004#17E-19' (4H2	24004-08) Soil								
% Solids		94.0	%	1	EH42624	08/25/04	08/25/04	% calculation	
PV682004#17E-20' (4H2	24004-09) Soil								
% Solids		94.0	%	1	EH42624	08/25/04	08/25/04	% calculation	***
°V682004#11E-12' (4H2	24004-10) Soil								
% Solids	····	94.0	%	1	EH42506	08/24/04	08/24/04	% calculation	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PV682004#6E-2' (4H24004-23) Soil									
% Solids	93.0		%	1	EH42506	08/24/04	08/24/04	% calculation	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH42405 - Solvent Extract	ion (GC)							8 - 2		
Blank (EH42405-BLK1)		t Jach		Prepared:	08/24/04	Analyzed	1: 08/25/04	1		
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	49.8		mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chlorooctadecane	42.5		"	50.0		85.0	70-130			
LCS (EH42405-BS1)				Prepared:	08/24/04	Analyzed	: 08/25/04			
Gasoline Range Organics C6-C12	476	10.0	mg/kg wet	500		95.2	75-125			
Diesel Range Organics >C12-C35	526	10.0		500		105	75-125			
Total Hydrocarbon C6-C35	1000	10.0	41	1000		100	75-125			
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	40.9		"	50.0		81.8	70-1 3 0			
Calibration Check (EH42405-CCV1)				Prepared:	08/24/04	Analyzed	: 08/25/04			
Gasoline Range Organics C6-C12	457		mg/kg	500		91.4	80-120			
Diesel Range Organics >C12-C35	513		H	500		103	80-120			
Total Hydrocarbon C6-C35	970		II	1000		97.0	80-120			
Surrogate: 1-Chlorooctane	52.2		н	50.0		104	70-130	-		
Surrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			
Matrix Spike (EH42405-MS1)	Sou	rce: 4H240	01-01	Prepared: (08/24/04	Analyzed:	08/25/04			
Gasoline Range Organics C6-C12	638	10.0	mg/kg dry	575	ND	111	75-125			
Diesel Range Organics >C12-C35	635	10.0	n	575	ND	110	75-125			
Total Hydrocarbon C6-C35	1270	10.0	n	1150	ND	110	75-125			
Surrogate: I-Chlorooctane	58.0		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	40.1		**	50.0		80.2	70-130			
Matrix Spike Dup (EH42405-MSD1)	Sou	rce: 4H2400	01-01	Prepared: (08/24/04	Analyzed:	08/25/04			
Gasoline Range Organics C6-C12	635	10.0	mg/kg dry	575	ND	110	75-125	0.471	20	
Diesel Range Organics >C12-C35	642	10.0	#	575	ND	112	75-125	1.10	20	
Total Hydrocarbon C6-C35	1280	10.0	*	1150	ND	111	75-125	0.784	20	
Surrogate: I-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	48.1		,,	50.0		96.2	<i>70-130</i>			

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH42606 - EPA 5030C (GC)										
Blank (EH42606-BLK1)				Prepared .	& Analyze	d: 08/24/	04			
Benzene	ND	0.0250	mg/kg wet							· · · · · · · · · · · · · · · · · · ·
Toluene	ND	0.0250	u							
Ethylbenzene	ND	0.0250	,,							
Xylene (p/m)	ND	0.0250	**							
Xylene (o)	ND	0.0250	#							
Surrogate: a,a,a-Trifluorotoluene	92.7		ug/kg	100		92.7	80-120			
Surrogate: 4-Bromofluorobenzene	85.5		**	100		85.5	80-120			
LCS (EH42606-BS1)				Prepared &	& Analyze	d: 08/24/0	04			
Benzene	90.7		ug/kg	100		90.7	80-120			
Toluene	87.8		**	100		87.8	80-120			
Ethylbenzene	86.7		**	100		86.7	80-120			
Xylene (p/m)	190		**	200		95.0	80-120			
Xylene (o)	94.6		n	100		94.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	101			100		101	80-120	····	····	
Surrogate: 4-Bromofluorobenzene	96.7		"	100		96.7	80-120			
Calibration Check (EH42606-CCV1)				Prepared:	08/24/04	Analyzed	: 08/25/04			
Benzene	87.5		ug/kg	100		87.5	80-120			
Toluene	83.6		"	100		83.6	80-120			
Ethylbenzene	80.1			100		80.1	80-120			
Xylene (p/m)	181		**	200		90.5	80-120			
Xylene (o)	84.7		IJ	100		84.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	101			100		101	80-120			· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene	88.1		,,	100		88.1	80-120			
Matrix Spike (EH42606-MS1)	So	urce: 4H240	04-23	Prepared:	08/24/04	Analyzed	08/25/04			
Benzene	88.1		ug/kg	100	ND	88.1	80-120			
Toluene	86.0			100	ND	86.0	80-120			
Ethylbenzene	83.5		IF.	100	ND	83.5	80-120			
Xylene (p/m)	184		n	200	ND	92.0	80-120			
Xylene (o)	91.8		H	100	ND	91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.4			100		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	87.7		*	100		87.7	80-120			
							-			

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

Analyte	Result	Limit Units	Level	Result	%REC	%REC Limits	RPD	RPD Limit,	Notes
Batch EH42606 - EPA 5030C (GC	<u> </u>	,	٠.					Ç.,	•
Matrix Spike Dup (EH42606-MSD1)	So	urce: 4H24004-23	Prepared:	08/24/04	Analyzed	: 08/25/04			,
Benzene	89.3	ug/kg	100	ND	89.3	80-120	1.35	20	
Toluene	87.9	11	100	ND	87.9	80-120	2.19	20	,
Ethylbenzene	85.7		100	ND	85.7	80-120	2.60	20	er er er er er er er er er er er er er e
Xylene (p/m)	189	H	200	ND	94.5	80-120	2.68	20	# ⁷⁴ , 4 =
Xylene (o)	93.8	Ħ	100	ND	93.8	80-120	2.16	20	
Surrogate: a,a,a-Trifluorotoluene	92.7		100	·	92.7	80-120			· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene	89.4	(a.5) n	100		89.4	80-120	· L.		

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135 Project Manager: Jeff Dann Fax: (432) 687-4914

Reported: 08/26/04 17:21

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 EH42506 - General Prepar	ation (Prep)		_							
Blank (EH42506-BLK1)				Prepared of	& Analyze	d: 08/24/0)4			
% Solids	100		%							
Duplicate (EH42506-DUP1)	So	urce: 4H2400	1-01	Prepared d	& Analyze	d: 08/24/0)4			
% Solids	87.0		%		87.0			0.00	20	
Batch EH42624 - General Prepara	ation (Prep)									
Blank (EH42624-BLK1)				Prepared &	& Analyze	d: 08/25/0	4			
% Solids	100		%							
Duplicate (EH42624-DUP1)	So	urce: 4H2001	7-10	Prepared &	& Analyze	d: 08/25/0	4			
% Solids	94.0		%		94.0			0.00	20	

Project: Vacuum To Jal 14 inch Mainline #6

Project Number: 2003-00135
Project Manager: Jeff Dann

Fax: (432) 687-4914

Reported: 08/26/04 17:21

Notes and Definitions

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Ralandk Just

Date: \$2-7

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas

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Special Instructions: samples from the par	Special Instructions: Analyze samples PV682004#17-** and PV682004#11-** in sequence; If TPH is <100 mg/Kg, do not analyze the remaining samples from the particular sample location.	" and PV6820 FAX RE	I PV682004#11-*** in sequence; If TPH is <100 mg/Kg, do FAX RESULTS TO Pat McCasland ASAP [505-394-260	equen t McC	ce: If	TPH d AS	S < 10 AP [5	00 mg	Kg. (8	원양	Ta C	ZZe ,	Vze the re	emai	ning Sos /	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Sar	Sample Containers Intact?	S	aine	ا عا	act?	-	Z
Relinquished:	Date		Received by:	3							3	₹	Date	3	¥≓	Time	<u> </u>	Laboratory Comments:		e Upon Ke Comments:	n Ke ients	duest	; 4	
Relinguished:	Date	<u> </u>	106	\		1	-					 '	Date	1	j= :	Time		ž	7	2	3		,	
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Plains All American			4 4				
		-		,			
Date/Time: 08-24-04@ 1315			4 5		-		ž.
and areas				:			
Order #: 4H 24004			. 1	٠.,			
Initials: JMM	ta a Mark			, .	gresie in die	• .	
Initials:			•				
			1				
Sample Receipt	Checkli	ist		•	! - '	٠.,	
Temperature of container/cooler?	Yes	No	1.0	(57 :		
Shipping container/cooler in good condition?	(Yes)	No		35	\neg	<u>.</u>	
Custody Seals intact on shipping container/cooler?	- Yes	No:	QVolt pi	esept	•••		
Custody Seals intact on sample bottles?	Yes	No		esent			
Chain of custody present?	(Yes)	No			<u></u>	<i>j</i> :	
Sample Instructions complete on Chain of Custody?	(TES)	No		1.5			
Chain of Custody signed when relinquished and received?	Yes	No			1		
Chain of custody agrees with sample label(s)	Yesp	No	-		_		
Container labels legible and intact?	Yes	No,	_		<u></u> :	• ,	
Sample Matrix and properties same as on chain of custody?	Yes	No			_		
Samples in proper container/bottle?	(TES)	No	- 		_		
Samples properly preserved?	(es)	No	 				
Sample bottles intact?	(CS)	No:	<u> </u>	<u> </u>		1	
Preservations documented on Chain of Custody?	(ES)	No					
Containers documented on Chain of Custody?	(es)	No.					
Sufficient sample amount for indicated test? All samples received within sufficient hold time?	res	No	 	i .	귀 :	*	
VOC samples have zero headspace?	(Yes)	No	Not App	licable	⊣ ՝		
VOO Samples nave zero negaspase :	1 (00)	1	1 11017 tpp	iloabio	┦ '	;	
Other observations:						;	
Other object valients.	S 1 12 12		7,6			f	
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the state of the s							
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Variance Docum	entation	า:	•				•
Contact Person: Date/Time:			Contacte	d hv	: !	•	
Regarding:		,	·	u 27.	<u></u>		$\overline{}$
Regarding.				rt, i			
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Corrective Action Taken:	• ,		£*		,-	;	1 ' -
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		<u>:</u>					<i>10 -</i> 3
	1						



Appendix II: Area Groundwater Information

New Mexico Office of the State Engineer Well Reports and Downloads

		wen rec	orts and Lower		
7	ownship: 238	Range: 37E	Sections: 22,2	3,24,25,36,35,34,27,26	болбрация досура <mark>вбрани</mark> я м ў
NA	D27 X:	Y:	Zone:	Search Radius:	and the second contract contra
County:	_	Basin:	▼ N	umber: Su	ffix:
Owner Nan	ne: (First)	(La	e All	← Non-Domesti	c C Domestic
	Well / St	ırface Data Report	Avg D	Pepth to Water Report	
		Wat	er Column Report		
		Clear Form	WATERS Menu	Help	
	ERAGE DEPTH (OF WATER REPOR	, , (De	epth Water in Fee in Max Av	· •
	_	_			

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 23	Range: 38E	Sections: 19,30,31	
NAD27 X:	Y:	Zone:	Search Radius:
County:	Basin:	Number Number	Suffix:
Owner Name: (First)	(Las	t) (Non-Domestic O Domestic
POD /	Surface Data Report Wate	Avg Depth to	o Water Report
	Clear Form	iWATERS Menu	Help

AVERAGE DEPTH OF WATER REPORT 03/28/2006

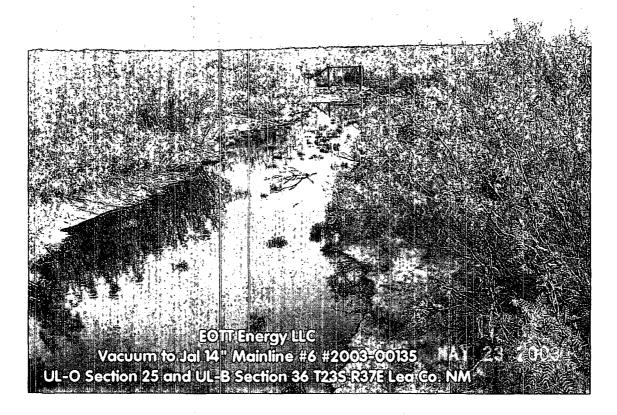
Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

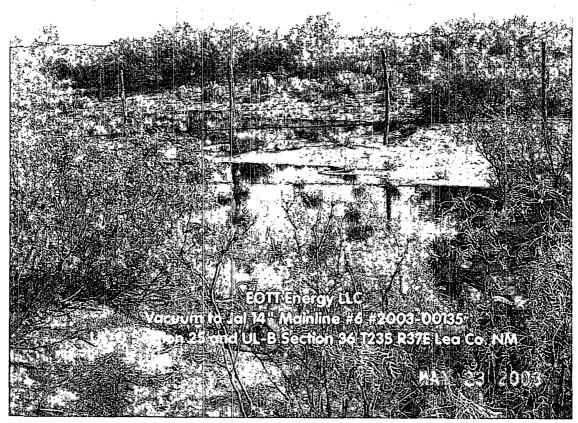
No Records found, try again



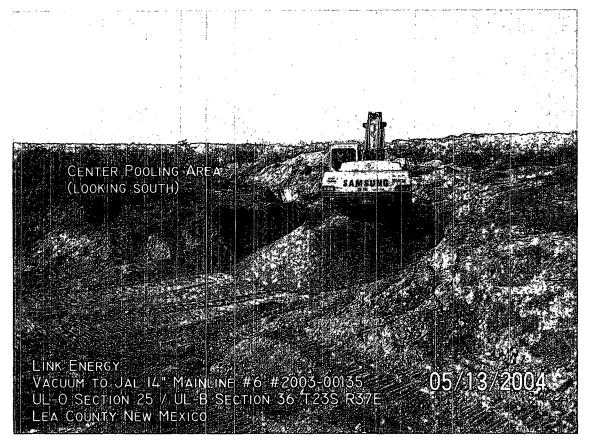
Appendix III: Photographs

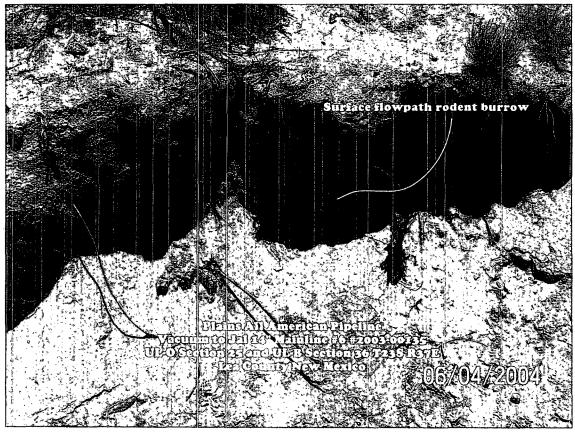




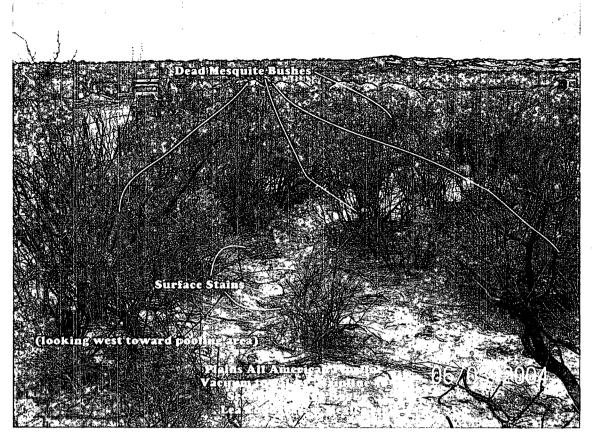


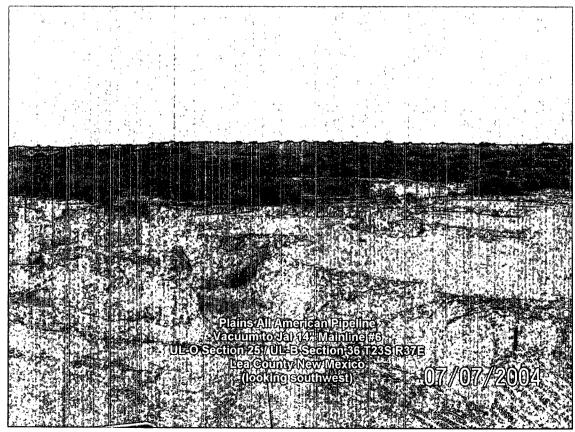




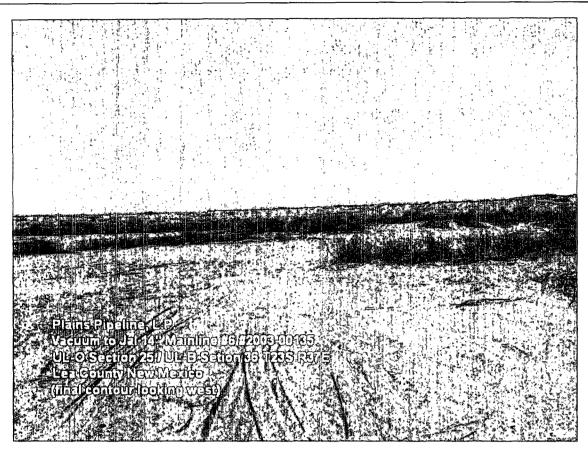


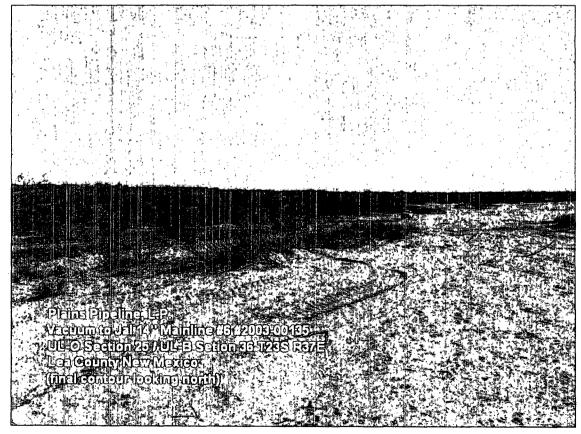




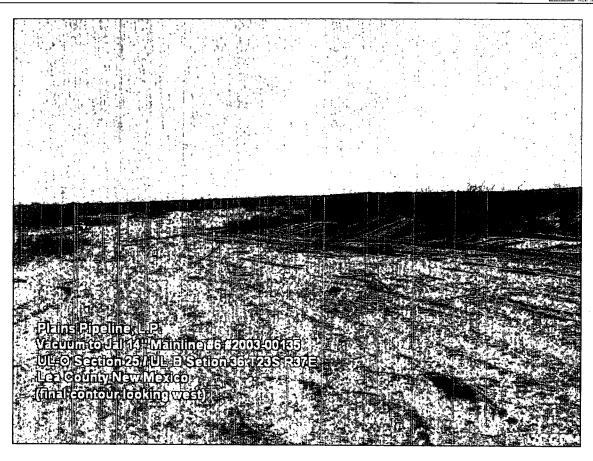


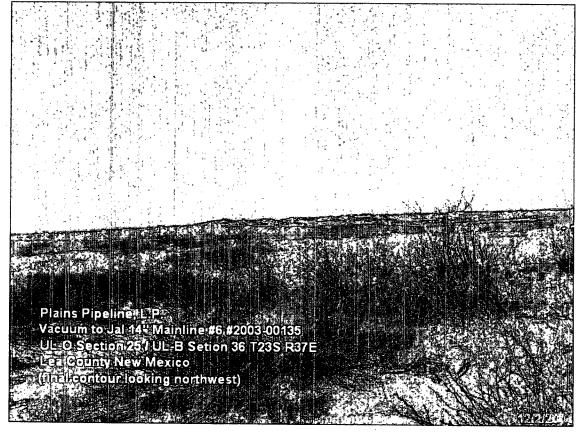














Appendix IV: Site Information & Metrics Form and Final NMOCD Form C-141



If Depth to GW > 100 feet: 0 points Groundwater Score = 20 Site Rank (1+2+3) = 20 Total Site Ranking Score and Ac Parameter > 19 Benzene 10 ppm BTEX 50 ppm TPH 100 ppm	source: 0 po Wellhead Pro ceptable Cor	ncentrations 10-19 10 ppm 50 ppm 1000 ppm	>1000 horizontal feet: 0 points Surface Water Score = 0 0-9 10 ppm 50 ppm 5000 ppm
pointsGroundwater Score = 20Site Rank $(1+2+3) = 20$ Total Site Ranking Score and AcParameter >19Benzene 10 ppmBTEX 50 ppm	source: 0 po Wellhead Pro	tection Area Score= 0 acentrations 10-19 10 ppm 50 ppm	points Surface Water Score = 0 0-9 10 ppm 50 ppm
points Groundwater Score = 20 Site Rank (1+2+3) = 20 Total Site Ranking Score and Ac Parameter >19 Benzene 1 10 ppm	source: 0 po Wellhead Pro	tection Area Score= 0 accentrations 10-19	points Surface Water Score = 0 0-9 10 ppm
points Groundwater Score = 20 Site Rank $(1+2+3) = 20$ Total Site Ranking Score and Ac Parameter >19	source: 0 po Wellhead Pro	tection Area Score= 0 accentrations 10-19	points Surface Water Score= 0
points Groundwater Score = 20 Site Rank (1+2+3) = 20 Total Site Ranking Score and Ac	source: 0 po Wellhead Pro	ints tection Area Score= 0 acentrations	points
points Groundwater Score = 20 Site Rank (1+2+3) = 20	source: 0 po Wellhead Pro	ints tection Area Score= 0	points
points Groundwater Score = 20	source: 0 po	ints	points
points	source: 0 po	ints	points
1 -	>200' from	private domestic water	I
Lit Denth to $(2.37) > 100$ foot. $0 - 1$			
ICD 1 CW 100 C		om water source, or;	1.40001
10 points	water source		points
If Depth to GW 50 to 99 feet:			200-100 horizontal feet: 10
points		om water source, om private domestic	points
If Depth to GW <50 feet: 20	If <10002 C	om water and	<200 horizontal feet: 20
1. Groundwater	2. Well1	nead Protection Area	3. Distance to Surface Water Body
Depth to groundwater (DG - DC	= DtGW) -	Unconfined aquifer not	
Depth of contamination (DC) -	18'bgs	**	
Depth from land surface to groun	nawater (DG)	Estimated to be 33-fee	t bgs
Public water supply wells within			
Agricultural water wells within			
Domestic water wells within 100			
Surface water body within 1000			
Surface water hody within 1000	frading of of	ta: none	
Location- Range, R3/L			
Location- Range: R37E			
Location- Township: T23S			
Location- Section: 25			
	the SE1/4	Unit Lett	er: O
Feet from West Section Line			
Feet from South Section Line	·		
Elevation above mean sea level:	3,200'an	ısl	
Longitude: 103° 06' 49.57"W			
Latitude: 32° 16′ 06.76″N			
Location distance and direction f	rom RP		
Location of Reference Point (RP)	·	
LSP Area: 39,821ft ²			
LSP Dimensions ~400' x 100'			
Land Owner, i.e., BLM, ST, Fee,		of New Mexico	
Source of contamination: 14" St		CNI	
Leak, Spill, or Pit (LSP) Name:		jai 14 Mainiine #6	
5-25 bbls: Submit form C-141 with	Vacuum 15	so applies to unauthorized re	leases of 50-500 mcf Natural Gas)
(Also app	lies to unautho	rized releases >500 mcf Nati	ural Gas)
>25 bbls: Notify NMO	CD verbally wi	thin 24 hrs and submit form	C-141 within 15 days.
Fluid volume released (bbls): 4	50 bbls	Recovered (bbls)	: 270 bbls
Telephone:		, , ,	
Representative Telephone: 50	5.396.3341 (email CJReynolds@paalp	o.com)
Representative: Camille Reynold	S	NRC Report# : #645920	5
City, State, Zip: Midland, Te	xas 79702	Person Notified: Nowak	
Mailing Address: 5805 East Hig	ghway 80	Notified by: Pat McCasl	and, EPI
Street Address: PO Box 1660		at 11:30 AM on 5-24-03	by Pat McCasland, EPI.
			itional Response Center notified
Company: Plains All American		NATIONAL RESPONSE C	
SITE: Vacuum to Jal 14" Mair	nline #6	Assigned Site Reference	#: 2003-00135
Site Information and Metrics		5-23-03 @3:00 PM	5-23-03 @ 8:00 PM
Plains All American Pipeline	2	Incident Date:	NMOCD Notified:
			The second secon

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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** ☐ Initial Report Final Report Contact: Camille Reynolds Name of Company: Plains All American Pipeline PO Box 1660 5805 East Highway 80 Telephone No. 505.396.3341 (email CJReynolds@paalp.com) Midland, Texas 79702 Facility Type Facility Name Vacuum to Jal 14" Mainline #6 #2003-00135 14" Steel Pipeline Mineral Owner Surface Owner: State of New Mexico Lease No. LOCATION OF RELEASE Unit Letter Township Range Feet from North/South Feet from East/West County: Section T23S the Line the Line O 25 **R37E** Lea Latitude: 32° 16' 06.76"N 103° 06' 49.57"W Longitude: NATURE OF RELEASE Type of Release Volume of Release Volume Recovered 450 barrels Crude Oil 270 barrels Date and Hour of Date and Hour of Discovery Source of Release 14" Steel Pipeline Richard Espinoza (EOTT) notified by Occurrence Air Patrol at 4:00 PM 5-23-03 5-23-03 @ 3:00 PM If YES, To Whom? Was Immediate Notice Given? X Yes ☐ Not Required Larry Johnson □ No By Whom? Date and Hour Pat McCasland, EPI 5-23-03 @ 8:00 PM If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Unconfined groundwater was not detected laying on top of the red clay interbed encountered at 15-18 feetbgs. Describe Cause of Problem and Remedial Action Taken.* 14" Steel Pipeline The cause was internal corrosion. The line was being pressure tested at the time of the occurrence. The line was depressured and a line repair clamp installed. Contaminated soil placed on a plastic barrier. Describe Area Affected and Cleanup Action Taken. * 39,821 sqft (~400' x 100'): Site was delineated to determine the vertical and horizontal extents of contamination. Contaminated soil was excavated and spread in the soil remediation cell located at the Plains Vacuum to Jal 14" Mainline #1 located approximately 0.5 mile north of the site. The excavated area was backfilled with clean soil and contoured. A site surface restoration plan has been submitted and approved by the landowner. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Printed Name: Camille Reynolds Approved by District Supervisor: E-mail Address: CJReynolds@PAALP.com Approval Date: Expiration Date: Title: Remediation Coordinator

Phone: 505.396.3341

Conditions of Approval:

Attached

Attach Additional Sheets If Necessary