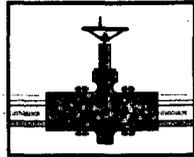


1R - 468

REPORT

DATE:

JULY 2007



PLAINS
PIPELINE, L.P.

1R-468
Report
July 2007

August 13, 2007

Mr. Wayne Price
State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Pipeline, L.P.
Document Submittal – Nine Soil Closure Reports
Clay Osborn - Rocky Top Ranch
Jal, Lea County, New Mexico

Dear Mr. Price:

Plains Pipeline, L.P. (Plains) is pleased to submit the attached Soil Closure Reports for the nine soil remediation project sites located on the Osborn's Rocky Top Ranch in Jal, Lea County, New Mexico. The soil remediation activities were conducted in accordance with the General Remediation Work Plan (dated April 2006) and the Site-Specific Remediation Work Plan (dated July 2006) prepared for each site and approved by the New Mexico Oil Conservation Division (NMOCD).

Based on the analytical laboratory results of confirmation soil samples and completion of the site-specific soil remediation and restoration activities as described in each Work Plan, remediation activities are complete and Plains requests that the NMOCD issue Plains a "no further action letter" and close these nine sites listed below.

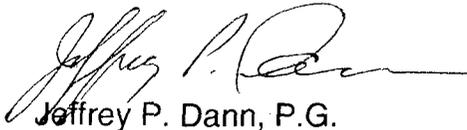
Clay Osborn Jalmat #1	1R-0412
Clay Osborn Jalmat #2	1R-0466
Clay Osborn Jalmat #3	1R-0467
Clay Osborn Jalmat #22A	1R-0411
Clay Osborn Jalmat #22B	1R-0468
Clay Osborn East Shell North	1R-0083
Clay Osborn SH-0193-2	1R-0471
Clay Osborn SH-0184-1	1R-0472
Clay Osborn DT-27	1R-0470

Mr. Wayne Price
Osborn Ranch Sites
August 13, 2007

Please note that site "Clay Osborn TM-245-2 (1R-0469)" was combined into site "Jalmat #22B" since the sites were immediately adjacent to each other. A separate report was not prepared for TM-245-2.

Should you have any questions or comments, please contact me at (713) 646-4657.

Sincerely,



Jeffrey P. Dann, P.G.
Sr. Environmental Specialist
Plains All American

Attachment: Nine Soil Closure Reports

File: n/jeff-files/Osborn-RockyTopRanch/DocumentClosureReptCovrLtr.doc

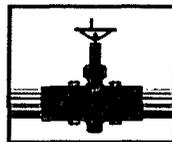
Site Closure Report

Clay Osborn Rocky Top Ranch Jalmat #22B and TM-0245-2 Release Site

SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 13
T25S, R36E
Lea County, New Mexico

SRS No. 2000-10616
NMOCD No. 1R-0468

Prepared For



PLAINS
PIPELINE, L.P.

333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By



**ENVIRONMENTAL
SERVICES**

July 2007

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Table 1 – NMOCD Site Ranking Matrix

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Appendix A Figures

Figure 1 – Site Location Map

Figure 2 – Excavation Detail

Appendix B Site Photographs

Appendix C Analytical Reports

1.0 Introduction

SDG Environmental Services was retained by Plains Pipeline, L.P. (Plains) to provide oversight of remediation activities and prepare a closure report for the Clay Osborn Jalmat #22B release site located on the Clay Osborn Rocky Top Ranch. Plains Pipeline is the owner/operator of several pipelines present on the Clay Osborn Rocky Top Ranch in Lea County, New Mexico. Plains retained Basin Environmental Services to conduct the soil excavation/remediation activities.

The site is located in the SE ¼ of the NE ¼ of Section 13, Township 25 South, Range 36 East, approximately 1 mile northwest of Jal at Latitude 32°07'55" North, and Longitude 103°12'38" West. The site is characterized by a right-of-way for the pipeline in a pasture. The pipeline is currently not in operation. A site location map is provided as Figure 1.

The hydrocarbon impacted area was the result of a historical release. The date of the release as well as the volume of crude released and recovered is not known. The impacted area was estimated to be approximately 24,000 ft². In June 2005, a surface sample collected by the landowner's representative at the site identified as TM-0245-2 located at the southern edge of Jalmat #22B site. Due to the two areas being contiguous, these two sites have been combined for the purpose of remediation.

Plains prepared and submitted a General Remediation Work Plan dated April 2006 to address the release sites located at the Rocky Top Ranch. The objective of the General Remediation Work Plan was to provide a framework for remediation of crude oil impacted sites consistent with the remediation/abatement goals and objectives provided in the New Mexico Oil Conservation Division (NMOCD) "NMOCD Guidelines for Remediation of Leaks, Spills, and Releases." The general Remediation Work Plan was conditionally approved by the NMOCD in a letter to Plains dated May 30, 2006.

Soil analytical data and information obtained from the EPI December 2001 Jalmat #22B Investigation Report, and a May 2006 investigation by SDG was used to develop a Site Investigation Report and Site-Specific Remediation Work Plan. The Site Investigation Report and Site-Specific Remediation Work Plan dated July 2006 provided for closure of the site under three closure scenarios. The closure scenario selected to be dependent on the conditions observed in the field. These selected closure scenarios are as follows.

Work Plan Scenario 1 (Surface Restoration)

This scenario was developed for areas where investigation data indicates that the surface area has restored itself naturally, the surface expression of the release is difficult to identify, the impacts are limited to the surface and/or shallow soils, and there is no threat to groundwater.

- Scrape the surface asphaltines where apparent and remove;
- Blend the underlying 1 to 2 feet of soil with native soil and contour;
- Do not disturb areas that have already re-vegetated.

The east area of the site was remediated under this scenario.

Work Plan Scenario 2 (Total Excavation)

Areas where impacts greater than 1000 mg/kg TPH were limited in vertical extent (i.e. 5 to 10 feet in depth) were recommended to be remediated under the Work Plan Scenario 2 involving the following procedures as outlined in the approved Work Plan including NMOCD conditions presented in the May 2006 NMOCD approval letter.

- Excavation of impacted soil to between 5 to 10 feet bgs or until site remediation standards are met;
- Collect and analyze soil sample from the walls and floor of the excavation to confirm that the remediation has met site guidelines;
- Relocation of excavated soil to the centralized soil treatment area for blending and aeration;
- Collect and analyze treated soil to confirm that the soil treatment activities have met site guidelines;
- Backfill the excavation with treated soil to 1000 mg/kg and restore the area to as close as possible to pre-spill conditions.

The north end and a central area of the west side of the release site were remediated under Work Plan Scenario 2. These areas were excavated up to 12 feet bgs. Confirmation soil samples were collected from the floor of the excavation and at sidewalls identified by the highest PID reading and observed staining.

Work Plan Scenario 3 (Limited Excavation and Risk-based Closure)

At areas of the site where data indicated that soil impacts extended to below 10 feet bgs and excavation of all the impacted soil to below NMOCD guidelines is not practical, Work Plan Scenario 3 was implemented.

Scenario 3 included the permanent installation of an oversized 20-mil polyethylene liner at a minimum depth of 10 feet to inhibit vertical migration of contaminants in soil left in place below the cap. A 3-foot wide clean area buffer was established around the impacted soil in the floor of the excavation.

A 38-foot by 100-foot area in the central area of the west side and a 20-foot by 30-foot area at the south end of the west side of the release site were remediated under Scenario 3.

Clean overburden and impacted soils were blended and utilized as backfill. Soil samples were collected to verify constituent concentrations were below NMOCD site-specific guidelines. Once the excavation was confirmed to meet NMOCD standards and the installation of the liner was completed, backfilling of the excavation was initiated. The backfilled excavation was contoured to the original grade surrounding the site and restored by seeding with approved grass seed.

Regulatory Framework

In New Mexico, the MNOCD oversees and regulates oil, gas and geothermal activities, including compliance with environmental regulations. The Jalmat #22B/TM-0245-2 Site was evaluated and remediated consistent with the characterization and remediation/abatement goals and objectives of the MNOCD approved Remediation Work Plan and the MNOCD guidelines defined in the MNOCD *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993). Primary contaminants, or constituents of concern (COCs), associated with crude oil releases include total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, and total xylenes (BTEX). Acceptable levels for these COCs are determined based on a site ranking system. The ranking system estimates the likelihood of exposures to the COCs. The more likely that human exposure will occur, the more stringent the cleanup levels. The site ranking system is set up on the three following parameters:

- Depth to groundwater
- Wellhead protection area
- Distance to surface water body

2.0 Regional and Site Characteristics

3.1 Geological Description

The site is located east of the caprock escarpment which defines the western margin of the high plains or Llano Estacado of southeastern New Mexico. The surface is comprised of rolling hills with sand dunes of Quaternary age deposits, eroded Ogallala Formation and windblown deposits.

3.2 Land Use

Land usage in the area is primarily livestock range land and oil field activities. Several gas driven electric power stations are located in the vicinity of the site and several major oil and gas transmission lines bisect the region. The area in the immediate vicinity of the site is sparsely populated.

3.3 Ground Water

The depth to groundwater at the site is greater than 75 feet below ground surface (bgs) based on soil borings installed at the site during the May 2006 investigation. The depth to groundwater is consistent with the information provided in the USGS Groundwater Report 6. The New Mexico Office of the State Engineer database does not list any water wells in Range 36 East of Township 25.

3.0 NMOCD Site Ranking

The depth to water at the site is greater than 75 feet bgs. Based on the analytical results of soil samples, the hydrocarbon impacted soil extends from the surface to 15 feet bgs, therefore, less than 100 feet of non-impacted soil remains between the last known

impacted soil depth and groundwater. The resulting Depth to Groundwater Ranking Score is 10.

The site is greater than 1000 feet from any public water supply source and greater than 200 feet from any private domestic water supply well. The resulting Wellhead Protection Ranking Score is 0.

During remediation activities associated with the Texas-New Mexico Pipeline conducted in the 1990's, a retention basin was constructed to contain runoff from the land farm located east of the site. The retention basin is located approximately 890 feet southwest of the site. There are no water bodies not constructed as part of remediation within 1000 feet of the site. The resulting Distance to Surface Water Body Ranking Score is 0.

Based on the individual ranking scores identified above, the site has an NMOCD Total Ranking Score between 10 and 19, which establish the remediation levels as shown in the following table demonstrating the site ranking matrix:

Table 1 – Site Ranking Matrix

Depth to Groundwater	Wellhead Protection Area	Distance to Surface Water
<50 feet = 20	<1000 feet from a water source, or <200 feet from a domestic water source	<200 feet = 20
50 to 99 feet = 10	Yes = 20	200 to 1000 feet = 10
>100 feet = 0	No = 0	>1000 feet = 0
Groundwater Score = 10	Well Protection Score = 0	Surface Water Score = 0
Total Site Ranking Score = 10		
Parameter	Score of >19 Maximum Concentrations	
Benzene	10 ppm	
BTX	50 ppm	
TPH	1000 ppm	

Based on this ranking system the site has a total score of 10 resulting in remediation goals of 10 ppm benzene, 50 ppm BTEX and 1000 ppm TPH.

4.0 Site Assessment

On 4 through 10 August 2000, initial subsurface horizontal and vertical delineation was conducted by EPI with the installation of 22 soil borings installed at the site. The 22 soil borings were installed to a depth of 15 feet bgs and soil samples were collected at depths of 2, 5, 10, and 15 feet bgs, field screened with a PID, and analyzed for BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were either below NMOCD regulatory standards or not detected above laboratory method detection limits on the 64 soil samples. Laboratory results indicated that TPH-GRO/DRO concentrations exceeded 1000 mg/kg TPH in 5 of the soil samples and the

remaining 59 soil samples were either below NMOCD regulatory standards or were not detected above the laboratory method detection limits.

A total of six borings were completed at the site on May 23, 2006. Three soil borings were installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 feet bgs. One soil boring was completed to 30 feet bgs and samples were collected at 2, 5, 10, 15, 20, and 30 feet bgs. One soil boring was completed to 40 feet bgs and samples were collected at 2, 5, 10, 15, 20, 33, and 40 feet bgs. One soil boring was completed to 75 feet bgs and samples were collected at 2, 5, 10, 15, 20, 28, and 40 feet bgs. Analytical results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits in any of the 35 soil samples. Laboratory results indicated that TPH concentrations exceeded 1000 mg/kg TPH in the one soil sample from 2 feet bgs in the southern area of the site and one from 5 feet bgs in the northern area of the site.

5.1 Distribution of Hydrocarbons in the Unsaturated Zone

The area of soils remediated was approximately 44,600 square feet. Based on the previous data, impacted soils above the NMOCD guidelines were expected to be shallower than 10 feet bgs. However, during site remediation, the vertical extent of soils impacted above the site-specific NMOCD cleanup guidelines was determined to extend to below 15 feet bgs in two areas. No free phase hydrocarbons were observed during the excavation.

5.2 Distribution of Hydrocarbons in the Saturated Zone

No saturated conditions were reported in any of the borings or observed during later site remediation activities. Soil borings installed to 75 feet bgs at the site did not encounter groundwater. Therefore, there is no indication that hydrocarbons from the historical release have impacted the saturated zone.

5.0 Site Remediation

The final surface area remediated was approximately 44,600 square feet. The volume of excavated and blended soils totaled 5,950 cubic yards. The remediated area is shown in Figure 2.

The eastern area of the release site was remediated under Work Plan Scenario 1. The area was scraped to up to 2 feet bgs.

The north end and a central area of the west side of the release site were remediated under Work Plan Scenario 2. These areas were excavated to 12 feet bgs. Confirmation soil samples were collected from the floor of the excavation and at sidewalls identified by the highest PID reading and observed staining. Confirmation soil samples were collected from the floor of the excavation and at sidewalls identified by the highest PID reading.

A 38-foot by 100-foot area in the central area of the west side and a 20-foot by 30-foot area at the south end of the west side of the release site were remediated under Scenario 3. In these areas, excavation continued to 12 feet bgs at which point the excavation was terminated. One soil sample from the excavation floor and a follow-up sample from 15

feet bgs indicated the soils to be above the site-specific guidelines for Closure Scenario 2. Therefore, this area of the site was managed under Closure Scenario 3 of the approved Site-Specific Work Plan and a 20-mil liner was installed at 10 feet bgs.

Prior to liner installation, a 3-foot wide clean area buffer was established around the impacted soil in the floor of the excavation. The buffer extent was determined using a calibrated PID and confirmed by laboratory analysis of grab samples collected around the perimeter of the excavation. The liner was cushioned with sandy soils to protect it from puncture and tearing during the backfilling process. Installation of the 20-mil polyethylene liner at a depth of 10 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminants in the soil.

Soil samples of blended soils were collected to verify constituent concentrations of BTEX are below NMOCD guidelines and TPHGRO/DRO below 1000 mg/kg for direct backfill and for backfill over liners. Once the excavation was confirmed to meet NMOCD standards and the installation of the 20-mil poly liner was completed, backfilling of the excavation was initiated with the blended soil.

After determining that the confirmation samples did not exceed the site-specific remediation standards, the excavated area was backfilled with blended soils meeting the cleanup guidelines for the closure scenario, contoured to the original grade surrounding the site, and reseeded with approved grass seed.

6.0 Confirmation Sampling and Comparison to Remediation Guideline Standards

Confirmation samples were collected from the walls and the bottom of the excavation and submitted to Environmental Lab of Texas for laboratory analyses of total petroleum hydrocarbons (TPH) by EPA Method 8015M (DRO, GRO), and for benzene, toluene, ethyl benzene, and total xylenes (BTEX) by EPA Method 8021B, a copy of the laboratory report is presented in Appendix C. A site detail map identifying soil sample locations is presented as Figure 2. Table 2 provides a summary of the analytical results.

Soil samples were collected from soils from the excavation floor and walls. At two locations, results indicated soils at 15 feet bgs were above the NMOCD cleanup guidelines. Therefore, this area of the site was closed under Closure Scenario 3 and a 20-mil polyethylene liner was installed at each of these areas at 10 feet bgs. Final confirmation samples indicated concentrations of TPH in soils remaining in place at the liner edge ranged from 683 mg/kg in one wall sample to <10 mg/kg. The soil samples from the perimeter of the liner installation did not exhibit BTEX concentrations above the NMOCD cleanup guidelines.

Sample results were compared to the site-specific soil remediation guidelines. As indicated in Table 2 and the laboratory reports, all constituents for soils remaining in

place are below the site-specific cleanup guidelines for the closure scenarios implemented at the site. Therefore, remediation at this site is considered complete.

8.0 Conclusion

SDG Environmental Services was retained by Plains Pipeline, L.P. (Plains) to provide oversight of remediation activities and prepare a closure report for the Clay Osborn Jalmat #22B/TM-0245-2 release site located on the Clay Osborn Rocky Top Ranch. The site is located in the SE ¼ of the NE ¼ of Section 13, Township 25 South, Range 36 East, approximately 1 mile northwest of Jal at Latitude 32°07'55" North, and Longitude 103°12'38" West.

The hydrocarbon impacted area was the result of a historical release. The date of the release as well as the volume of crude released and recovered is not known. A Site-Specific Remediation Work Plan dated April 2006 provided for closure of the site under three closure scenarios which were implemented at the release site in January through March 2007.

Impacted soils were excavated, a 20-mil polyethylene liner installed in two areas, and confirmation samples were collected and compared to the site-specific cleanup guidelines. Soil samples from the excavated areas confirm that the Jalmat #22B/TM-0245-2 release site was remediated per the NMOCD approved Site-Specific Work Plan. Therefore, remediation at this site has been completed and no further investigation is warranted. SDG recommends that Plains submit a copy of this report to the NMOCD and request that the NMOCD close this case and issue a "no further action letter" to Plains.

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

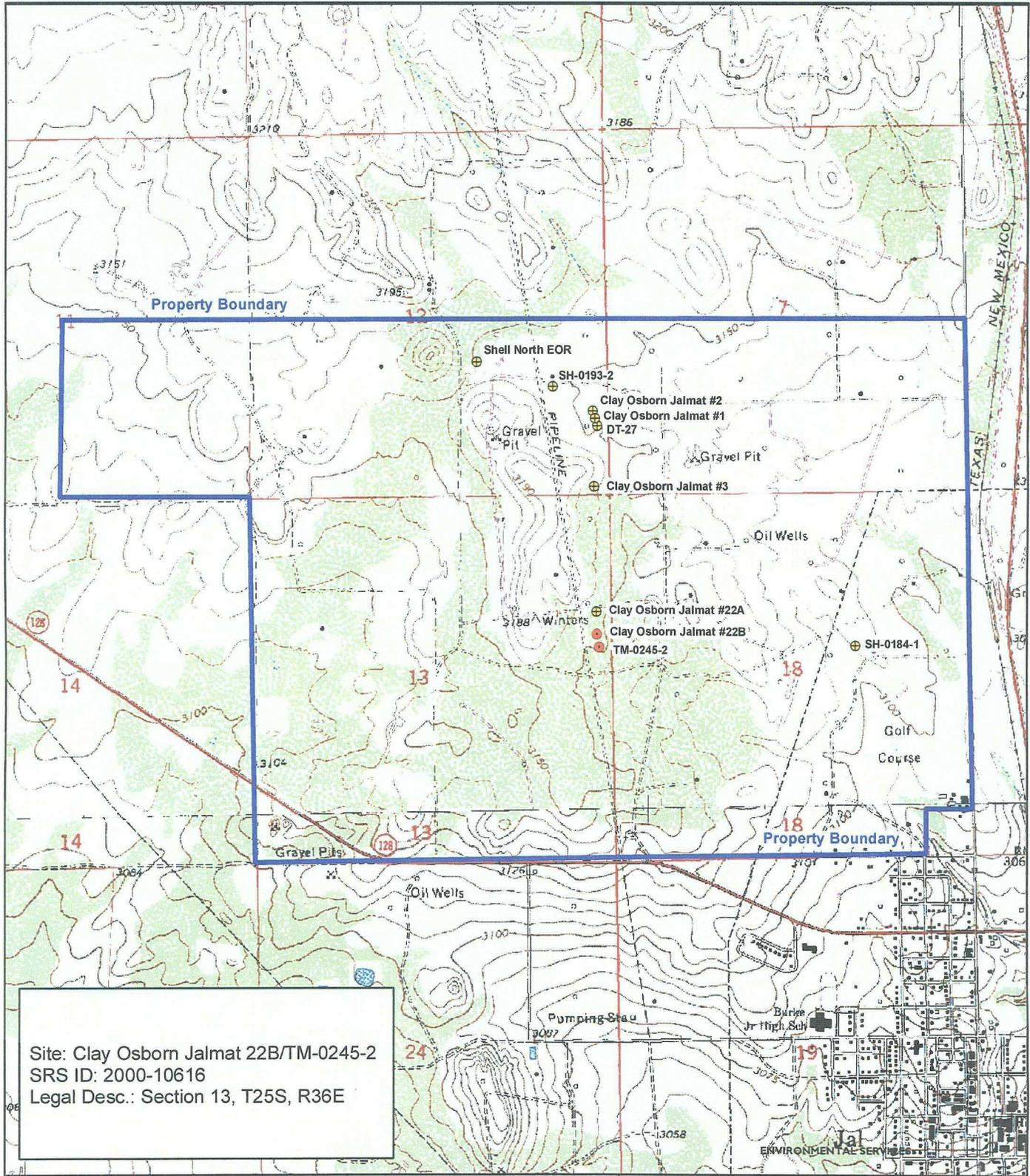
PLAINS PIPELINE, L.P.
Jalmat 22B
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2000-10616

SAMPLE LOCATION	DEPTH ft bgs	SAMPLE DATE	LABORATORY I.D.	METHOD: EPA 8021B				METHOD: EPA 8015M				TOTAL TPH		
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	M,P-XYLENES (mg/kg)	O-XYLENE (mg/kg)	C6-C12 (mg/kg)	C12-C28 (mg/kg)	C28-C35 (mg/kg)		C6-C35 (mg/kg)	
22B-F1	10*	1/30/2007	7A31001-01	na	na	na	na	na	na	na	67.8	796	162	1020
22B-F1	12	1/30/2007	7A31001-02	<0.02500	<0.02500	<0.02500	<0.02500	<0.02500	<0.02500	<0.02500	29.1	532	122	683
22B-F1	15	1/30/2007	7A31001-03	na	na	na	na	na	na	na	7.04 J	86.4	9.24 J	86.4
22B-F1W1	6*	1/30/2007	7A31001-04	na	na	na	na	na	na	na	37.4	2670	311	3020
22B-F2	15**	2/1/2007	7B03005-01	na	na	na	na	na	na	na	861	4990	551	6400
22B-F3	8	2/2/2007	7B03005-02	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	22.7	<10.0	22.7
22B-EW7	6	2/2/2007	7B03005-03	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	6.59 J	425	138	563
22B-EW2	10	2/2/2007	7B03005-04	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	12.2	<10.0	12.2
22B-EW3	10	2/2/2007	7B03005-05	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-EW4	10	2/2/2007	7B03005-06	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	6.66 J	170	60.1	230
22B-EW5	10	2/2/2007	7B03005-07	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	89.5	22.4	112
22B-WW2	10	2/2/2007	7B03005-08	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW3	10	2/2/2007	7B03005-09	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	30.3	<10.0	30.3
22B-WW1	6	2/2/2007	7B03005-10	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-F4	12**	2/6/2007	7B07001-01	na	na	na	na	na	na	na	296	5460	314	6070
22B-EW6	10	2/6/2007	7B07001-02	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	9.07 J	501	147	648
22B-F5	10**	2/6/2007	7B07001-03	na	na	na	na	na	na	na	7.98 J	1090	171	7260
22B-F6	12	2/07/007	7B09019-01	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-F7	10	2/8/2007	7B09019-02	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW4	10	2/8/2007	7B09019-03	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW5	10	2/8/2007	7B09019-04	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW6	10	2/8/2007	7B09019-05	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW7	10	2/8/2007	7B09019-06	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW8	10	2/8/2007	7B09019-07	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-WW9	10	2/8/2007	7B09019-08	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-EW8	10	2/8/2007	7B09019-09	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-EW7	10	2/8/2007	7B09019-11	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
22B-NW1	4	2/8/2007	7B09019-12	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-SW	12	2/15/2007	7B16003-01	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-E1	12	2/15/2007	7B16003-02	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.5	70.4	<10.0	80.9
TMS-W1	12	2/15/2007	7B16003-03	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-N1	12	2/15/2007	7B16003-04	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-E2	12	2/15/2007	7B16003-05	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-W2	12	2/15/2007	7B16003-06	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-F1-15	15**	2/15/2007	7B16003-07	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1160	4740	506	6410
TMS-F2	12	2/15/2007	7B16003-08	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0
TMS-F2-15	15	2/15/2007	7B16003-09	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0	<10.0	<10.0	<10.0

* Soils subsequently excavated after sample collection.
 ** Soils subsequently covered by impermeable liner.
 < indicates the constituent was not detected
 J indicates estimated value (detected below method reporting limit)
 na indicates not analyzed

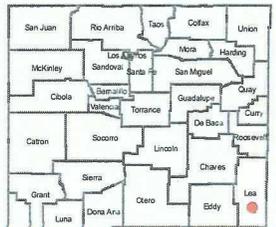
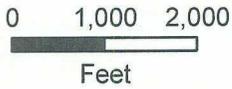
Appendix A

Figures



Site: Clay Osborn Jalmat 22B/TM-0245-2
 SRS ID: 2000-10616
 Legal Desc.: Section 13, T25S, R36E

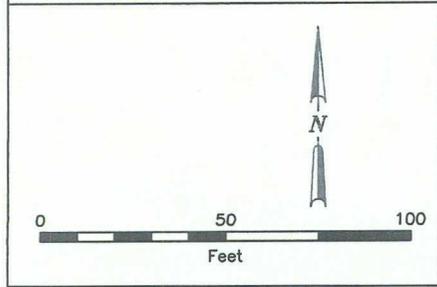
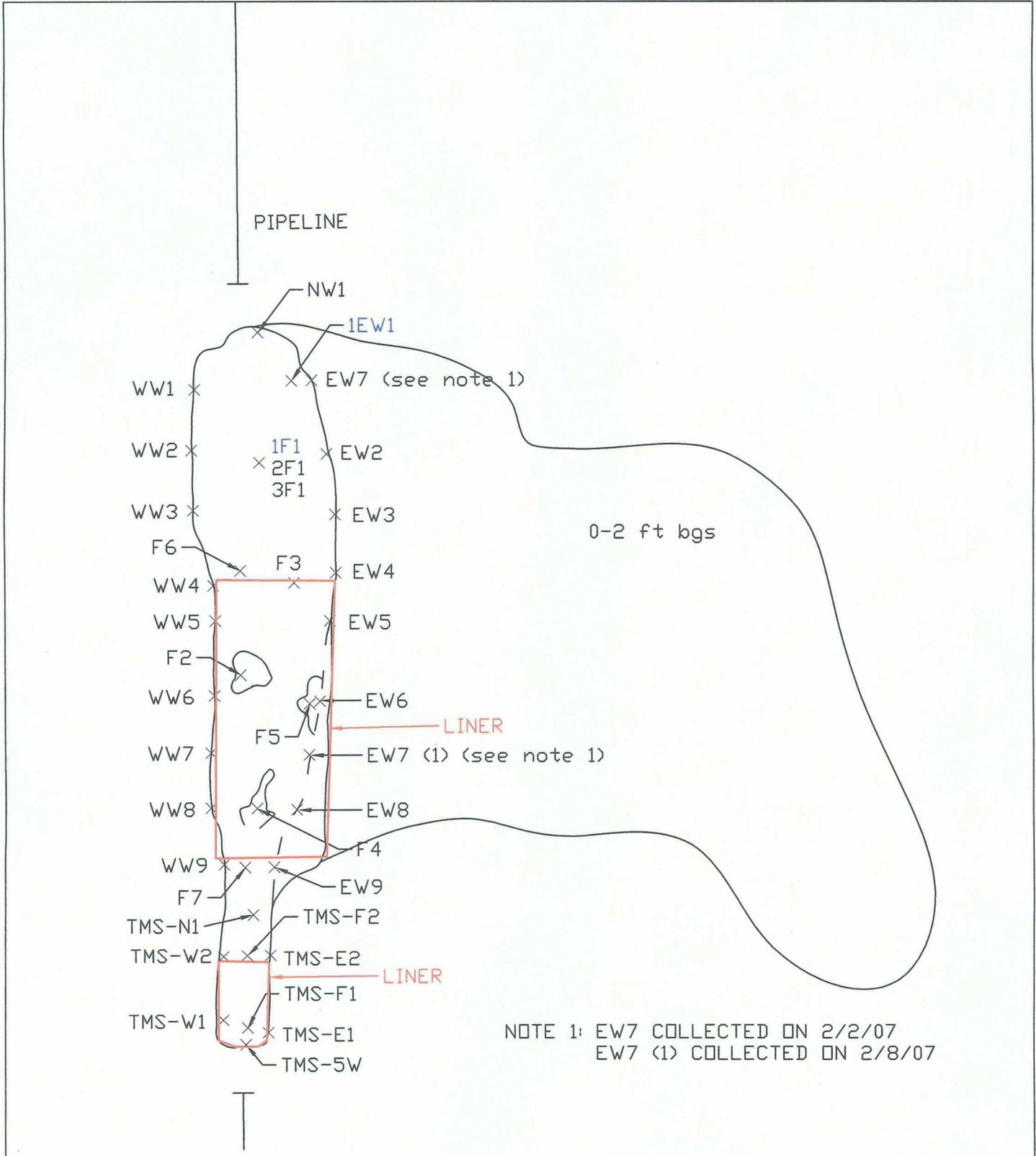
Map Source: USGS, Jai NW New Mexico Topographic Map, 1980.



Clay Osborn Jalmat 22B & TM-245-2
 SRS ID: 2000-10616
 Plains Marketing L.P.
 Lea County, New Mexico

Figure 1: Site Location Map





LEGEND:

- × Soil Sample Locations
- Final Excavation Boundary
- 1F1 Interim Sample (Removed)

SDG ENVIRONMENTAL SERVICES

Rocky Top Ranch
Clay Osborn Jalmat 22B
SRS ID: Rocky Top 1
Lea County, New Mexico

Figure 2: Excavation Detail

Appendix B
Site Photographs



Jalmat 22B – Pipeline Removal



Jalmat 22B – Excavation in Progress Facing South



Jalmat 22B – Site Prepared for Liner



Jalmat 22B – Liner Installation



Jalmat 22B – Backfill over Liner



Jalmat 22B – Backfill over Liner



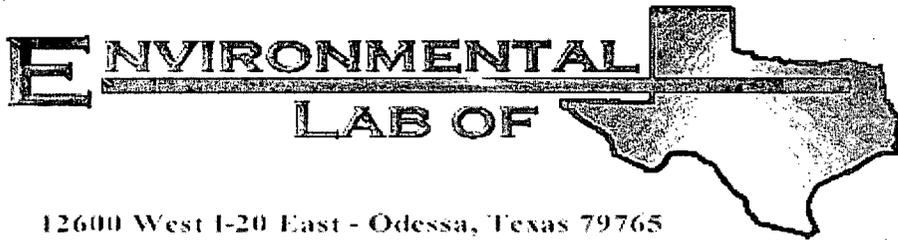
Jalmat 22B – South End Liner Installed



Jalmat 22B – Seed



Jalmat 22B – Final Cover



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22B

Project Number: 2000-10616

Location: Clay Osborn Ranch

Lab Order Number: 7A31001

Report Date: 02/06/07

Appendix C

Analytical Reports

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22B- 1F1	7A31001-01	Soil	01/30/07 14:10	01-30-2007 17:50
22B- 2F1	7A31001-02	Soil	01/30/07 14:15	01-30-2007 17:50
22B- 3F1	7A31001-03	Soil	01/30/07 14:20	01-30-2007 17:50
22B- 1EW1	7A31001-04	Soil	01/30/07 14:50	01-30-2007 17:50

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B- 1F1 (7A31001-01) Soil									
Carbon Ranges C6-C12	67.8	10.0	mg/kg dry	1	EA73107	01/31/07	02/01/07	EPA 8015M	
Carbon Ranges C12-C28	796	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	162	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1020	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
22B- 2F1 (7A31001-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB70201	02/02/07	02/05/07	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	29.1	10.0	mg/kg dry	1	EA73107	01/31/07	02/01/07	EPA 8015M	
Carbon Ranges C12-C28	532	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	122	10.0	"	"	"	"	"	"	
Total Hydrocarbons	683	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
22B- 3F1 (7A31001-03) Soil									
Carbon Ranges C6-C12	J [7.04]	10.0	mg/kg dry	1	EA73107	01/31/07	02/01/07	EPA 8015M	J
Carbon Ranges C12-C28	86.4	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [9.24]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	86.4	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B- 1EW1 (7A31001-04) Soil									
Carbon Ranges C6-C12	37.4	10.0	mg/kg dry	1	EA73107	01/31/07	02/01/07	EPA 8015M	
Carbon Ranges C12-C28	2670	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	311	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3020	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B- 1F1 (7A31001-01) Soil									
% Moisture	7.1	0.1	%	1	EB70110	02/01/07	02/01/07	% calculation	
22B- 2F1 (7A31001-02) Soil									
% Moisture	7.9	0.1	%	1	EB70110	02/01/07	02/01/07	% calculation	
22B- 3F1 (7A31001-03) Soil									
% Moisture	4.3	0.1	%	1	EB70110	02/01/07	02/01/07	% calculation	
22B- 1EW1 (7A31001-04) Soil									
% Moisture	2.4	0.1	%	1	EB70110	02/01/07	02/01/07	% calculation	

Environmental Lab of Texas
A Xenco Laboratories Company

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 4 of 9

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA73107 - Solvent Extraction (GC)

Blank (EA73107-BLK1)

Prepared & Analyzed: 01/31/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	70-130			
Surrogate: 1-Chlorooctadecane	55.3		"	50.0		111	70-130			

LCS (EA73107-BS1)

Prepared & Analyzed: 01/31/07

Carbon Ranges C6-C12	521	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	491	10.0	"	500		98.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1010	10.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	56.4		"	50.0		113	70-130			

Calibration Check (EA73107-CCV1)

Prepared: 01/31/07 Analyzed: 02/01/07

Carbon Ranges C6-C12	208		mg/kg	250		83.2	80-120			
Carbon Ranges C12-C28	218		"	250		87.2	80-120			
Total Hydrocarbons	426		"	500		85.2	80-120			
Surrogate: 1-Chlorooctane	55.8		"	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	57.7		"	50.0		115	70-130			

Matrix Spike (EA73107-MS1)

Source: 7A31006-05

Prepared: 01/31/07 Analyzed: 02/01/07

Carbon Ranges C6-C12	620	10.0	mg/kg dry	569	ND	109	75-125			
Carbon Ranges C12-C28	577	10.0	"	569	8.24	100	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1200	10.0	"	1140	ND	105	75-125			
Surrogate: 1-Chlorooctane	60.2		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	59.5		"	50.0		119	70-130			

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EA73107 - Solvent Extraction (GC)

Matrix Spike Dup (EA73107-MSD1)	Source: 7A31006-05			Prepared: 01/31/07		Analyzed: 02/01/07				
Carbon Ranges C6-C12	609	10.0	mg/kg dry	569	ND	107	75-125	1.85	20	
Carbon Ranges C12-C28	551	10.0	"	569	8.24	95.4	75-125	4.71	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1160	10.0	"	1140	ND	102	75-125	2.90	20	
Surrogate: 1-Chlorooctane	59.3		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	58.4		"	50.0		117	70-130			

Batch EB70201 - EPA 5030C (GC)

Blank (EB70201-BLK1)	Prepared & Analyzed: 02/01/07									
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	34.0		ug/kg	40.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120			

LCS (EB70201-BS1)	Prepared & Analyzed: 02/01/07									
Benzene	1.18	0.0250	mg/kg wet	1.25		94.4	80-120			
Toluene	1.24	0.0250	"	1.25		99.2	80-120			
Ethylbenzene	1.28	0.0250	"	1.25		102	80-120			
Xylene (p/m)	2.43	0.0250	"	2.50		97.2	80-120			
Xylene (o)	1.11	0.0250	"	1.25		88.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	43.2		"	40.0		108	80-120			

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 1301 S. County Road 1150
 Midland TX, 79706-4476

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB70201 - EPA 5030C (GC)

Calibration Check (EB70201-CCV1)

Prepared: 02/02/07 Analyzed: 02/05/07

Benzene	47.6		ug/kg	50.0		95.2	80-120			
Toluene	48.4		"	50.0		96.8	80-120			
Ethylbenzene	54.7		"	50.0		109	80-120			
Xylene (p/m)	93.0		"	100		93.0	80-120			
Xylene (o)	43.9		"	50.0		87.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.2		"	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	33.8		"	40.0		84.5	80-120			

Matrix Spike (EB70201-MS1)

Source: 7A31001-02

Prepared: 02/02/07 Analyzed: 02/05/07

Benzene	1.09	0.0250	mg/kg dry	1.36	ND	80.1	80-120			
Toluene	1.09	0.0250	"	1.36	ND	80.1	80-120			
Ethylbenzene	1.14	0.0250	"	1.36	ND	83.8	80-120			
Xylene (p/m)	2.35	0.0250	"	2.71	ND	86.7	80-120			
Xylene (o)	1.11	0.0250	"	1.36	ND	81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.3		ug/kg	40.0		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120			

Matrix Spike Dup (EB70201-MSD1)

Source: 7A31001-02

Prepared: 02/02/07 Analyzed: 02/05/07

Benzene	1.09	0.0250	mg/kg dry	1.36	ND	80.1	80-120	0.00	20	
Toluene	1.13	0.0250	"	1.36	ND	83.1	80-120	3.68	20	
Ethylbenzene	1.15	0.0250	"	1.36	ND	84.6	80-120	0.950	20	
Xylene (p/m)	2.28	0.0250	"	2.71	ND	84.1	80-120	3.04	20	
Xylene (o)	1.11	0.0250	"	1.36	ND	81.6	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	32.9		ug/kg	40.0		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			

Environmental Lab of Texas
 A Xenco Laboratories Company

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB70110 - General Preparation (Prep)										
Blank (EB70110-BLK1)										
				Prepared & Analyzed: 02/01/07						
% Solids	100		%							
Duplicate (EB70110-DUP1)										
				Source: 7A31001-01 Prepared & Analyzed: 02/01/07						
% Solids	92.0		%		92.9			0.974	20	
Duplicate (EB70110-DUP2)										
				Source: 7A31006-11 Prepared & Analyzed: 02/01/07						
% Solids	91.7		%		91.4			0.328	20	
Duplicate (EB70110-DUP3)										
				Source: 7A31009-07 Prepared & Analyzed: 02/01/07						
% Solids	94.1		%		93.8			0.319	20	

Notes and Definitions

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
NK	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:

Celey D. Keene

Date:

02/06/07

Brent Barron, Laboratory Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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

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

Location: Plains
 Date/ Time: 1/30/07 17:50
 ID #: HA31001
 Initials: CK

Sample Receipt Checklist

Client Initials

	Yes	No	Temperature	°C
1 Temperature of container/ cooler?	Yes	No	15	
Shipping container in good condition?	Yes	No		
Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	Yes	No		
Sample instructions complete of Chain of Custody?	Yes	No		
7 Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	Yes	No		
12 Samples in proper container/ bottle?	Yes	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No		
15 Preservations documented on Chain of Custody?	Yes	No		
16 Containers documented on Chain of Custody?	Yes	No		
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
18 All samples received within sufficient hold time?	Yes	No	See Below	
19 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

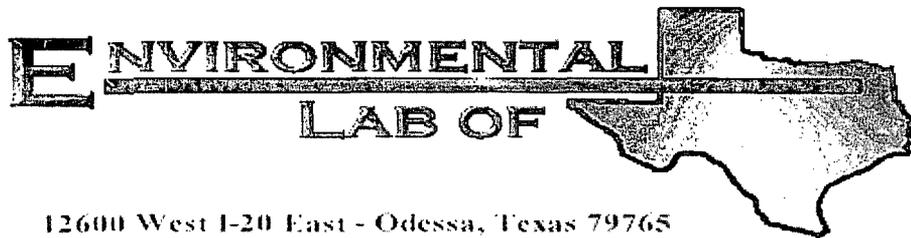
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- See attached e-mail/ fax
- Client understands and would like to proceed with analysis
- Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22B

Project Number: 2000-10616

Location: Clay Osborn Ranch

Lab Order Number: 7B03005

Report Date: 02/12/07

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22B-F2	7B03005-01	Soil	02/01/07 14:30	02-02-2007 16:50
22B-F3	7B03005-02	Soil	02/02/07 12:00	02-02-2007 16:50
22B-EW7	7B03005-03	Soil	02/02/07 12:10	02-02-2007 16:50
22B-EW2	7B03005-04	Soil	02/02/07 12:15	02-02-2007 16:50
22B-EW3	7B03005-05	Soil	02/02/07 12:17	02-02-2007 16:50
22B-EW4	7B03005-06	Soil	02/02/07 12:20	02-02-2007 16:50
22B-EW5	7B03005-07	Soil	02/02/07 12:25	02-02-2007 16:50
22B-WW2	7B03005-08	Soil	02/02/07 12:35	02-02-2007 16:50
22B-WW3	7B03005-09	Soil	02/02/07 12:40	02-02-2007 16:50
22B-WW1	7B03005-10	Soil	02/02/07 12:45	02-02-2007 16:50

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B-F2 (7B03005-01) Soil									
Carbon Ranges C6-C12	861	50.0	mg/kg dry	5	EB70503	02/05/07	02/07/07	EPA 8015M	
Carbon Ranges C12-C28	4990	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	551	50.0	"	"	"	"	"	"	
Total Hydrocarbons	6400	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		19.7 %	70-130	"	"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		29.4 %	70-130	"	"	"	"	"	S-06
22B-F3 (7B03005-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.8 %	80-120	"	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	22.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	22.7	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		118 %	70-130	"	"	"	"	"	
22B-EW7 (7B03005-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		61.6 %	80-120	"	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		59.2 %	80-120	"	"	"	"	"	S-04
Carbon Ranges C6-C12	J [6.59]	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	J
Carbon Ranges C12-C28	425	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	138	10.0	"	"	"	"	"	"	
Total Hydrocarbons	563	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		105 %	70-130	"	"	"	"	"	

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 1301 S. County Road 1150
 Midland TX, 79706-4476

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B-EW2 (7B03005-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	12.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	12.2	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	
22B-EW3 (7B03005-05) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.0 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		87.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		91.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.2 %	70-130		"	"	"	"	
22B-EW4 (7B03005-06) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		63.2 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		66.2 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	J [6.66]	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	J

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 Midland TX, 79706-4476

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B-EW4 (7B03005-06) Soil									
Carbon Ranges C12-C28	170	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	
Carbon Ranges C28-C35	60.1	10.0	"	"	"	"	"	"	
Total Hydrocarbons	230	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		107 %	70-130		"	"	"	"	
22B-EW5 (7B03005-07) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		68.6 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		78.0 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70503	02/05/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	89.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	22.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	112	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		105 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		104 %	70-130		"	"	"	"	
22B-WW2 (7B03005-08) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		75.8 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		83.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70616	02/06/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		98.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		103 %	70-130		"	"	"	"	

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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B-WW3 (7B03005-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.8 %	80-120	"	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		83.4 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70616	02/06/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	30.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	30.3	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		106 %	70-130	"	"	"	"	"	
22B-WW1 (7B03005-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.4 %	80-120	"	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		81.6 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70616	02/06/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		99.8 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		104 %	70-130	"	"	"	"	"	

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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

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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
22B-F2 (7B03005-01) Soil									
% Moisture	2.5	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-F3 (7B03005-02) Soil									
% Moisture	7.3	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-EW7 (7B03005-03) Soil									
% Moisture	3.1	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-EW2 (7B03005-04) Soil									
% Moisture	1.5	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-EW3 (7B03005-05) Soil									
% Moisture	6.5	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-EW4 (7B03005-06) Soil									
% Moisture	5.9	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-EW5 (7B03005-07) Soil									
% Moisture	6.2	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-WW2 (7B03005-08) Soil									
% Moisture	6.5	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-WW3 (7B03005-09) Soil									
% Moisture	5.9	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	
22B-WW1 (7B03005-10) Soil									
% Moisture	6.2	0.1	%	1	EB70504	02/03/07	02/05/07	% calculation	

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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70503 - Solvent Extraction (GC)

Blank (EB70503-BLK1)

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	56.2		"	50.0		112	70-130			

LCS (EB70503-BS1)

Prepared: 02/05/07 Analyzed: 02/07/07

Carbon Ranges C6-C12	583	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	536	10.0	"	500		107	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1120	10.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	64.9		"	50.0		130	70-130			

Calibration Check (EB70503-CCV1)

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	210		mg/kg	250		84.0	80-120			
Carbon Ranges C12-C28	245		"	250		98.0	80-120			
Total Hydrocarbons	455		"	500		91.0	80-120			
Surrogate: 1-Chlorooctane	61.7		"	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	59.4		"	50.0		119	70-130			

Matrix Spike (EB70503-MS1)

Source: 7B03006-01

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	561	10.0	mg/kg dry	544	ND	103	75-125			
Carbon Ranges C12-C28	539	10.0	"	544	ND	99.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1100	10.0	"	1090	ND	101	75-125			
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	44.1		"	50.0		88.2	70-130			

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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70503 - Solvent Extraction (GC)

Matrix Spike Dup (EB70503-MSD1)

Source: 7B03006-01

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	576	10.0	mg/kg dry	544	ND	106	75-125	2.87	20	
Carbon Ranges C12-C28	553	10.0	"	544	ND	102	75-125	2.88	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1130	10.0	"	1090	ND	104	75-125	2.93	20	
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	46.3		"	50.0		92.6	70-130			

Batch EB70616 - Solvent Extraction (GC)

Blank (EB70616-BLK1)

Prepared: 02/06/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	40.9		mg/kg	50.0		81.8	70-130			
Surrogate: 1-Chlorooctadecane	43.6		"	50.0		87.2	70-130			

LCS (EB70616-BS1)

Prepared: 02/06/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	589	10.0	mg/kg wet	500		118	75-125			
Carbon Ranges C12-C28	535	10.0	"	500		107	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1120	10.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	61.8		"	50.0		124	70-130			

Calibration Check (EB70616-CCV1)

Prepared: 02/06/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	202		mg/kg	250		80.8	80-120			
Carbon Ranges C12-C28	206		"	250		82.4	80-120			
Total Hydrocarbons	408		"	500		81.6	80-120			
Surrogate: 1-Chlorooctane	50.8		"	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			

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Project: Jalmat 22B
 Project Number: 2000-10616
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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70616 - Solvent Extraction (GC)

Matrix Spike (EB70616-MS1)		Source: 7B03005-08		Prepared: 02/06/07		Analyzed: 02/08/07	
Carbon Ranges C6-C12	541	10.0	mg/kg dry	535	ND	101	75-125
Carbon Ranges C12-C28	512	10.0	"	535	ND	95.7	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbons	1050	10.0	"	1070	ND	98.1	75-125
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130
Surrogate: 1-Chlorooctadecane	50.1		"	50.0		100	70-130

Matrix Spike Dup (EB70616-MSD1)		Source: 7B03005-08		Prepared: 02/06/07		Analyzed: 02/08/07	
Carbon Ranges C6-C12	548	10.0	mg/kg dry	535	ND	102	75-125 0.985 20
Carbon Ranges C12-C28	495	10.0	"	535	ND	92.5	75-125 3.40 20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125 20
Total Hydrocarbons	1040	10.0	"	1070	ND	97.2	75-125 0.922 20
Surrogate: 1-Chlorooctane	62.2		mg/kg	50.0		124	70-130
Surrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130

Batch EB70904 - EPA 5030C (GC)

Blank (EB70904-BLK1)				Prepared: 02/09/07		Analyzed: 02/10/07	
Benzene	ND	0.00100	mg/kg wet				
Toluene	ND	0.00100	"				
Ethylbenzene	ND	0.00100	"				
Xylene (p/m)	ND	0.00100	"				
Xylene (o)	ND	0.00100	"				
Surrogate: a,a,a-Trifluorotoluene	41.0		ug/kg	50.0		82.0	80-120
Surrogate: 4-Bromofluorobenzene	40.2		"	50.0		80.4	80-120

LCS (EB70904-BS1)				Prepared: 02/09/07		Analyzed: 02/10/07	
Benzene	0.0539	0.00100	mg/kg wet	0.0500		108	80-120
Toluene	0.0523	0.00100	"	0.0500		105	80-120
Ethylbenzene	0.0533	0.00100	"	0.0500		107	80-120
Xylene (p/m)	0.112	0.00100	"	0.100		112	80-120
Xylene (o)	0.0478	0.00100	"	0.0500		95.6	80-120
Surrogate: a,a,a-Trifluorotoluene	45.5		ug/kg	50.0		91.0	80-120
Surrogate: 4-Bromofluorobenzene	57.3		"	50.0		115	80-120

Environmental Lab of Texas

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70904 - EPA 5030C (GC)

Calibration Check (EB70904-CCV1)

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	54.8		ug/kg	50.0		110	80-120			
Toluene	52.3		"	50.0		105	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	108		"	100		108	80-120			
Xylene (o)	46.7		"	50.0		93.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.7		"	50.0		87.4	80-120			
Surrogate: 4-Bromofluorobenzene	56.9		"	50.0		114	80-120			

Matrix Spike (EB70904-MS1)

Source: 7B03005-02

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	0.113	0.00200	mg/kg dry	0.108	ND	105	80-120			
Toluene	0.108	0.00200	"	0.108	ND	100	80-120			
Ethylbenzene	0.131	0.00200	"	0.108	ND	121	80-120			MI
Xylene (p/m)	0.231	0.00200	"	0.216	ND	107	80-120			
Xylene (o)	0.100	0.00200	"	0.108	ND	92.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/kg	50.0		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	57.0		"	50.0		114	80-120			

Matrix Spike Dup (EB70904-MSD1)

Source: 7B03005-02

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	0.111	0.00200	mg/kg dry	0.108	ND	103	80-120	1.92	20	
Toluene	0.105	0.00200	"	0.108	ND	97.2	80-120	2.84	20	
Ethylbenzene	0.125	0.00200	"	0.108	ND	116	80-120	4.22	20	
Xylene (p/m)	0.220	0.00200	"	0.216	ND	102	80-120	4.78	20	
Xylene (o)	0.0956	0.00200	"	0.108	ND	88.5	80-120	4.53	20	
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/kg	50.0		82.8	80-120			
Surrogate: 4-Bromofluorobenzene	53.3		"	50.0		107	80-120			

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476	Project: Jalmat 22B Project Number: 2000-10616 Project Manager: Camille Reynolds	Fax: (432) 687-4914
--	--	---------------------

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70504 - General Preparation (Prep)

Blank (EB70504-BLK1)					Prepared: 02/03/07 Analyzed: 02/05/07					
% Solids	98.4		%							
Duplicate (EB70504-DUP1)					Prepared: 02/03/07 Analyzed: 02/05/07					
% Solids	96.6		%		97.5			0.927	20	

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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.

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

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:



Date:

2/12/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Page 12 of 12

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Reynolds
 Company Name: Plains Pipeline, LP
 Company Address: Talmat 22B
 Project Name: Talmat 22B
 Project #: 2008-10616
 Project Loc: Clay Osborn Ranch

City/State/Zip: _____
 Telephone No: _____
 Fax No: _____
 Sampler Signature: [Signature]
 e-mail: kcooly@edgenw.com

Report Format: Standard TRRP NPDES
 PO #: _____
 ORDER #: 7B03005
 (lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers	Matrix
-01	22B-FZ			2/1/07	1430		1	Ice	DW=Drinking Water SL=Sludge
-02	22B-F3			2/2/07	1200		1	HNO ₃	GW = Groundwater B=Soil/Solid
-03	22B-EW7			2/2/07	1210		1	HCl	NP=Non-Potable Specify Other
-04	22B-EW2			2/2/07	1215		1	H ₂ SO ₄	
-05	22B-EW3			2/2/07	1217		1	NaOH	
-06	22B-EW4			2/2/07	1220		1	Na ₂ S ₂ O ₈	
-07	22B-EW5			2/2/07	1225		1	None	
-08	22B-WW2			2/2/07	1235		1	Other (Specify)	
-09	22B-WW3			2/2/07	1240		1	None	
-10	22B-WW1			2/2/07	1245		1	None	

Special Instructions: RUSH - Verbal on 01 as of 2/6/07 110
(X) Run BTEX if TPH < 1000 mg/kg; notify K. Cooly when TPH completed
 Relinquished by: [Signature] Date: 2/2/07 Time: 1650
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

LAB # (lab use only)	TPH: 418.1	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR/ESP/CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (02/B/330 or BTEX 8260)	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
-01	X	X							X	X
-02	X	X							X	X
-03	X	X							X	X
-04	X	X							X	X
-05	X	X							X	X
-06	X	X							X	X
-07	X	X							X	X
-08	X	X							X	X
-09	X	X							X	X
-10	X	X							X	X

Laboratory Comments: 713-806-7948
(X) Run BTEX if TPH < 1000 mg/kg; notify K. Cooly when TPH completed
 Sample Containers: _____
 VOCs: Free of Headspace? _____
 Labels on Containers: _____
 Custody seals on container(s): _____
 Custody seals on cooler(s): _____
 Sample Hand Delivered by: _____
 Client Rep. by: _____
 UPS: _____ DHL: _____ FedEx: _____
 Temperature Upon Receipt: 7.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains Pipeline
 Date/ Time: 02/02/07 1650
 Lab ID #: 7B03005
 Initials: DN

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	2.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

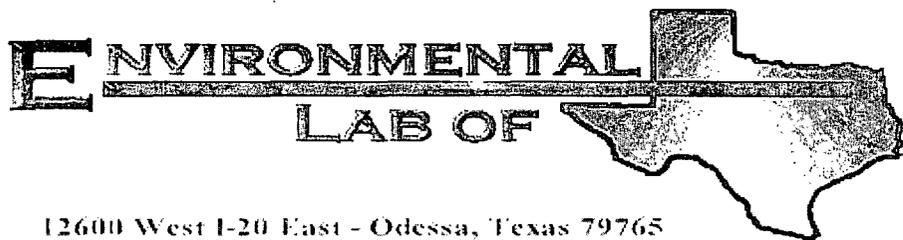
Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22B

Project Number: 2000-10616

Location: Clay Osborn Ranch

Lab Order Number: 7B07001

Report Date: 02/12/07

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22B- F4	7B07001-01	Soil	02/06/07 15:15	02-07-2007 08:25
22B- EW6	7B07001-02	Soil	02/06/07 15:20	02-07-2007 08:25
22B- F5	7B07001-03	Soil	02/06/07 15:30	02-07-2007 08:25

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B- F4 (7B07001-01) Soil									
Carbon Ranges C6-C12	296	10.0	mg/kg dry	1	EB70503	02/06/07	02/08/07	EPA 8015M	
Carbon Ranges C12-C28	5460	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	314	10.0	"	"	"	"	"	"	
Total Hydrocarbons	6070	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		130 %	70-130		"	"	"	"	
22B- EW6 (7B07001-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB70904	02/09/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		66.6 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		55.8 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	J [9.07]	10.0	mg/kg dry	1	EB70503	02/06/07	02/08/07	EPA 8015M	J
Carbon Ranges C12-C28	501	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	147	10.0	"	"	"	"	"	"	
Total Hydrocarbons	648	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		124 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-130		"	"	"	"	
22B- F5 (7B07001-03) Soil									
Carbon Ranges C6-C12	J [7.98]	10.0	mg/kg dry	1	EB70503	02/06/07	02/08/07	EPA 8015M	J
Carbon Ranges C12-C28	1090	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	171	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1260	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		106 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B- F4 (7B07001-01) Soil									
% Moisture	5.2	0.1	%	1	EB70801	02/07/07	02/08/07	% calculation	
22B- EW6 (7B07001-02) Soil									
% Moisture	7.9	0.1	%	1	EB70801	02/07/07	02/08/07	% calculation	
22B- F5 (7B07001-03) Soil									
% Moisture	5.8	0.1	%	1	EB70801	02/07/07	02/08/07	% calculation	

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 Midland TX, 79706-4476

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70503 - Solvent Extraction (GC)

Blank (EB70503-BLK1)

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	56.2		"	50.0		112	70-130			

LCS (EB70503-BS1)

Prepared: 02/05/07 Analyzed: 02/07/07

Carbon Ranges C6-C12	583	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	536	10.0	"	500		107	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1120	10.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	64.9		"	50.0		130	70-130			

Calibration Check (EB70503-CCV1)

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	210		mg/kg	250		84.0	80-120			
Carbon Ranges C12-C28	245		"	250		98.0	80-120			
Total Hydrocarbons	455		"	500		91.0	80-120			
Surrogate: 1-Chlorooctane	61.7		"	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	59.4		"	50.0		119	70-130			

Matrix Spike (EB70503-MS1)

Source: 7B03006-01

Prepared: 02/05/07 Analyzed: 02/08/07

Carbon Ranges C6-C12	561	10.0	mg/kg dry	544	ND	103	75-125			
Carbon Ranges C12-C28	539	10.0	"	544	ND	99.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1100	10.0	"	1090	ND	101	75-125			
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	44.1		"	50.0		88.2	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70503 - Solvent Extraction (GC)

Matrix Spike Dup (EB70503-MSD1)	Source: 7B03006-01		Prepared: 02/05/07		Analyzed: 02/08/07					
Carbon Ranges C6-C12	576	10.0	mg/kg dry	544	ND	106	75-125	2.87	20	
Carbon Ranges C12-C28	553	10.0	"	544	ND	102	75-125	2.88	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1130	10.0	"	1090	ND	104	75-125	2.93	20	
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	46.3		"	50.0		92.6	70-130			

Batch EB70904 - EPA 5030C (GC)

Blank (EB70904-BLK1)	Prepared: 02/09/07		Analyzed: 02/10/07							
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	41.0		ug/kg	50.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.2		"	50.0		80.4	80-120			

LCS (EB70904-BS1)	Prepared: 02/09/07		Analyzed: 02/10/07							
Benzene	0.0539	0.00100	mg/kg wet	0.0500		108	80-120			
Toluene	0.0523	0.00100	"	0.0500		105	80-120			
Ethylbenzene	0.0533	0.00100	"	0.0500		107	80-120			
Xylene (p/m)	0.112	0.00100	"	0.100		112	80-120			
Xylene (o)	0.0478	0.00100	"	0.0500		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.5		ug/kg	50.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	57.3		"	50.0		115	80-120			

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB70904 - EPA 5030C (GC)

Calibration Check (EB70904-CCV1)

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	54.8		ug/kg	50.0		110	80-120			
Toluene	52.3		"	50.0		105	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	108		"	100		108	80-120			
Xylene (o)	46.7		"	50.0		93.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.7		"	50.0		87.4	80-120			
Surrogate: 4-Bromofluorobenzene	56.9		"	50.0		114	80-120			

Matrix Spike (EB70904-MS1)

Source: 7B03005-02

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	0.113	0.00200	mg/kg dry	0.108	ND	105	80-120			
Toluene	0.108	0.00200	"	0.108	ND	100	80-120			
Ethylbenzene	0.131	0.00200	"	0.108	ND	121	80-120			M1
Xylene (p/m)	0.231	0.00200	"	0.216	ND	107	80-120			
Xylene (o)	0.100	0.00200	"	0.108	ND	92.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/kg	50.0		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	57.0		"	50.0		114	80-120			

Matrix Spike Dup (EB70904-MSD1)

Source: 7B03005-02

Prepared: 02/09/07 Analyzed: 02/10/07

Benzene	0.111	0.00200	mg/kg dry	0.108	ND	103	80-120	1.92	20	
Toluene	0.105	0.00200	"	0.108	ND	97.2	80-120	2.84	20	
Ethylbenzene	0.125	0.00200	"	0.108	ND	116	80-120	4.22	20	
Xylene (p/m)	0.220	0.00200	"	0.216	ND	102	80-120	4.78	20	
Xylene (o)	0.0956	0.00200	"	0.108	ND	88.5	80-120	4.53	20	
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/kg	50.0		82.8	80-120			
Surrogate: 4-Bromofluorobenzene	53.3		"	50.0		107	80-120			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70801 - General Preparation (Prep)

Blank (EB70801-BLK1)					Prepared: 02/07/07 Analyzed: 02/08/07					
% Solids	100		%							
Duplicate (EB70801-DUP1)					Prepared: 02/07/07 Analyzed: 02/08/07					
Source: 7B06010-01										
% Solids	93.6		%		92.3			1.40	20	
Duplicate (EB70801-DUP2)					Prepared: 02/07/07 Analyzed: 02/08/07					
Source: 7B06012-09										
% Solids	96.9		%		96.8			0.103	20	
Duplicate (EB70801-DUP3)					Prepared: 02/07/07 Analyzed: 02/08/07					
Source: 7B07005-11										
% Solids	92.1		%		92.2			0.109	20	
Duplicate (EB70801-DUP4)					Prepared: 02/07/07 Analyzed: 02/08/07					
Source: 7B07005-31										
% Solids	79.7		%		81.2			1.86	20	

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

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

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

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:



Date: 2/12/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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

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Page 8 of 8

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Variance/ Corrective Action Report- Sample Log-In

Client: Plain 3
 Date/ Time: 2/17/07 5:25
 Lab ID #: 7B0700
 Initials: JK

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	2.5 °C	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by ELOT?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	

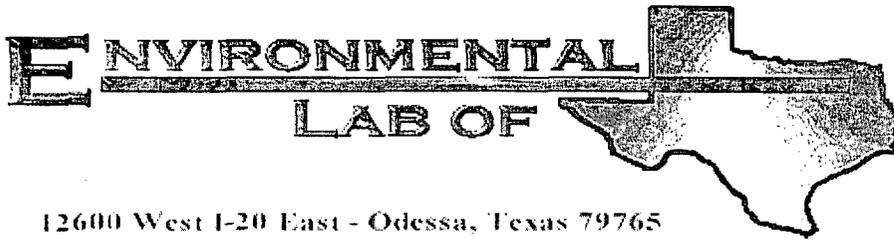
Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22B

Project Number: 2000-10616

Location: Clay Osborn Ranch

Lab Order Number: 7B09019

Report Date: 02/19/07

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

Project: Jalmat 22B
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22B - F6	7B09019-01	Soil	02/07/07 11:20	02-09-2007 14:15
22B - F7	7B09019-02	Soil	02/08/07 11:15	02-09-2007 14:15
22B - WW4	7B09019-03	Soil	02/08/07 12:00	02-09-2007 14:15
22B - WW5	7B09019-04	Soil	02/08/07 12:05	02-09-2007 14:15
22B - WW6	7B09019-05	Soil	02/08/07 12:09	02-09-2007 14:15
22B - WW7	7B09019-06	Soil	02/08/07 12:15	02-09-2007 14:15
22B - WW8	7B09019-07	Soil	02/08/07 12:25	02-09-2007 14:15
22B - WW9	7B09019-08	Soil	02/08/07 12:30	02-09-2007 14:15
22B - EW9	7B09019-09	Soil	02/08/07 12:40	02-09-2007 14:15
22B - EW8	7B09019-10	Soil	02/08/07 12:45	02-09-2007 14:15
22B - EW7	7B09019-11	Soil	02/08/07 12:50	02-09-2007 14:15
22B - NW1	7B09019-12	Soil	02/08/07 13:00	02-09-2007 14:15
22B - SP1A	7B09019-13	Soil	02/08/07 13:30	02-09-2007 14:15
22B - SP1B	7B09019-14	Soil	02/08/07 13:32	02-09-2007 14:15
22B - SP1C	7B09019-15	Soil	02/08/07 13:35	02-09-2007 14:15
22B - SP1D	7B09019-16	Soil	02/08/07 13:40	02-09-2007 14:15

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Project: Jalmat 22B
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - F6 (7B09019-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/14/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/12/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		80.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		84.0 %	70-130		"	"	"	"	
22B - F7 (7B09019-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/14/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		101 %	70-130		"	"	"	"	
22B - WW4 (7B09019-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/14/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.6 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.4 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	

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Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - WW4 (7B09019-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		84.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		84.6 %	70-130		"	"	"	"	
22B - WW5 (7B09019-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/14/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		80.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.0 %	70-130		"	"	"	"	
22B - WW6 (7B09019-05) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.4 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		84.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		82.4 %	70-130		"	"	"	"	

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - WW7 (7B09019-06) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		84.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		82.4 %	70-130		"	"	"	"	
22B - WW8 (7B09019-07) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		83.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		81.6 %	70-130		"	"	"	"	
22B - WW9 (7B09019-08) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		74.4 %	80-120		"	"	"	"	S-DUP
<i>Surrogate: 4-Bromofluorobenzene</i>		79.0 %	80-120		"	"	"	"	S-DUP
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	

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 Midland TX, 79706-4476

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - WW9 (7B09019-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		88.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		84.8 %	70-130		"	"	"	"	
22B - EW9 (7B09019-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.8 %	80-120		"	"	"	"	S-DUP
<i>Surrogate: 4-Bromofluorobenzene</i>		80.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		85.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		84.0 %	70-130		"	"	"	"	
22B - EW8 (7B09019-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		77.0 %	80-120		"	"	"	"	S-DUP
<i>Surrogate: 4-Bromofluorobenzene</i>		80.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/09/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		85.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		83.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - EW7 (7B09019-11) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/15/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.2 %	80-120		"	"	"	"	S-DUP
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		90.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.6 %	70-130		"	"	"	"	
22B - NW1 (7B09019-12) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.4 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		100 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		100 %	70-130		"	"	"	"	
22B - SP1A (7B09019-13) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	14.9	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	

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 1301 S. County Road 1150
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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - SP1A (7B09019-13) Soil									
Carbon Ranges C12-C28	502	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	
Carbon Ranges C28-C35	138	10.0	"	"	"	"	"	"	
Total Hydrocarbons	655	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		116 %	70-130		"	"	"	"	
22B - SP1B (7B09019-14) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a.a.a-Trifluorotoluene</i>		93.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [9.41]	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	J
Carbon Ranges C12-C28	464	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	137	10.0	"	"	"	"	"	"	
Total Hydrocarbons	601	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		105 %	70-130		"	"	"	"	
22B - SP1C (7B09019-15) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a.a.a-Trifluorotoluene</i>		82.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	14.1	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	539	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	149	10.0	"	"	"	"	"	"	
Total Hydrocarbons	702	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		113 %	70-130		"	"	"	"	

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
22B - SP1D (7B09019-16) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71304	02/13/07	02/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.4 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	13.3	10.0	mg/kg dry	1	EB70910	02/12/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	489	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	137	10.0	"	"	"	"	"	"	
Total Hydrocarbons	639	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		113 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	

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Project: Jalmat 22B
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 Project Manager: Camille Reynolds

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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
22B - F6 (7B09019-01) Soil									
% Moisture	6.8	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - F7 (7B09019-02) Soil									
% Moisture	8.4	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW4 (7B09019-03) Soil									
% Moisture	6.0	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW5 (7B09019-04) Soil									
% Moisture	3.2	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW6 (7B09019-05) Soil									
% Moisture	7.5	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW7 (7B09019-06) Soil									
% Moisture	7.1	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW8 (7B09019-07) Soil									
% Moisture	8.5	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - WW9 (7B09019-08) Soil									
% Moisture	8.1	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - EW9 (7B09019-09) Soil									
% Moisture	8.8	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - EW8 (7B09019-10) Soil									
% Moisture	7.8	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - EW7 (7B09019-11) Soil									
% Moisture	8.2	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	

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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
22B - NW1 (7B09019-12) Soil									
% Moisture	6.6	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - SP1A (7B09019-13) Soil									
% Moisture	4.7	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - SP1B (7B09019-14) Soil									
% Moisture	4.7	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - SP1C (7B09019-15) Soil									
% Moisture	4.7	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	
22B - SP1D (7B09019-16) Soil									
% Moisture	5.0	0.1	%	1	EB71001	02/09/07	02/10/07	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70910 - Solvent Extraction (GC)

Blank (EB70910-BLK1)										
					Prepared: 02/09/07 Analyzed: 02/12/07					
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	70-130			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

LCS (EB70910-BS1)										
					Prepared: 02/09/07 Analyzed: 02/12/07					
Carbon Ranges C6-C12	515	10.0	mg/kg wet	500		103	75-125			
Carbon Ranges C12-C28	542	10.0	"	500		108	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1060	10.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	50.4		"	50.0		101	70-130			

Calibration Check (EB70910-CCV1)										
					Prepared: 02/09/07 Analyzed: 02/13/07					
Carbon Ranges C6-C12	213		mg/kg	250		85.2	80-120			
Carbon Ranges C12-C28	237		"	250		94.8	80-120			
Total Hydrocarbons	450		"	500		90.0	80-120			
Surrogate: 1-Chlorooctane	53.4		"	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	49.1		"	50.0		98.2	70-130			

Matrix Spike (EB70910-MS1)										
			Source: 7B09019-11							
					Prepared: 02/09/07 Analyzed: 02/13/07					
Carbon Ranges C6-C12	594	10.0	mg/kg dry	545	ND	109	75-125			
Carbon Ranges C12-C28	552	10.0	"	545	ND	101	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1150	10.0	"	1090	ND	106	75-125			
Surrogate: 1-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	51.8		"	50.0		104	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB70910 - Solvent Extraction (GC)

Matrix Spike Dup (EB70910-MSD1)	Source: 7B09019-11		Prepared: 02/09/07		Analyzed: 02/13/07					
Carbon Ranges C6-C12	599	10.0	mg/kg dry	545	ND	110	75-125	0.913	20	
Carbon Ranges C12-C28	576	10.0	"	545	ND	106	75-125	4.83	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1150	10.0	"	1090	ND	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	61.0		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	52.1		"	50.0		104	70-130			

Batch EB71304 - EPA 5030C (GC)

Blank (EB71304-BLK1)	Prepared: 02/13/07		Analyzed: 02/18/07							
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	50.0		ug/kg	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	40.1		"	50.0		80.2	80-120			

LCS (EB71304-BS1)	Prepared: 02/13/07		Analyzed: 02/18/07							
Benzene	0.0585	0.00100	mg/kg wet	0.0500		117	80-120			
Toluene	0.0513	0.00100	"	0.0500		103	80-120			
Ethylbenzene	0.0436	0.00100	"	0.0500		87.2	80-120			
Xylene (p/m)	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (o)	0.0409	0.00100	"	0.0500		81.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/kg	50.0		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	50.0		81.4	80-120			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71304 - EPA 5030C (GC)

Calibration Check (EB71304-CCV1)

Prepared: 02/13/07 Analyzed: 02/14/07

Benzene	55.0		ug/kg	50.0		110	80-120			
Toluene	53.2		"	50.0		106	80-120			
Ethylbenzene	53.9		"	50.0		108	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	46.2		"	50.0		92.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.7		"	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	55.0		"	50.0		110	80-120			

Matrix Spike (EB71304-MS1)

Source: 7B09019-01

Prepared: 02/13/07 Analyzed: 02/14/07

Benzene	0.0881	0.00200	mg/kg dry	0.107	ND	82.3	80-120			
Toluene	0.0842	0.00200	"	0.107	ND	78.7	80-120			M8
Ethylbenzene	0.0771	0.00200	"	0.107	ND	72.1	80-120			M8
Xylene (p/m)	0.162	0.00200	"	0.215	ND	75.3	80-120			M8
Xylene (o)	0.0718	0.00200	"	0.107	ND	67.1	80-120			M8
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/kg	50.0		74.6	80-120			S-DUP
Surrogate: 4-Bromofluorobenzene	36.5		"	50.0		73.0	80-120			S-DUP

Matrix Spike Dup (EB71304-MSD1)

Source: 7B09019-01

Prepared: 02/13/07 Analyzed: 02/14/07

Benzene	0.0866	0.00200	mg/kg dry	0.107	ND	80.9	80-120	1.72	20	
Toluene	0.0847	0.00200	"	0.107	ND	79.2	80-120	0.633	20	M8
Ethylbenzene	0.0802	0.00200	"	0.107	ND	75.0	80-120	3.94	20	M8
Xylene (p/m)	0.165	0.00200	"	0.215	ND	76.7	80-120	1.84	20	M8
Xylene (o)	0.0716	0.00200	"	0.107	ND	66.9	80-120	0.299	20	M8
Surrogate: a,a,a-Trifluorotoluene	36.7		ug/kg	50.0		73.4	80-120			S-DUP
Surrogate: 4-Bromofluorobenzene	33.3		"	50.0		66.6	80-120			S-DUP

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Project: Jalmat 22B
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB71001 - General Preparation (Prep)										
Blank (EB71001-BLK1)				Prepared: 02/09/07 Analyzed: 02/10/07						
% Solids	100		%							
Duplicate (EB71001-DUP1)				Source: 7B08003-01 Prepared: 02/09/07 Analyzed: 02/10/07						
% Solids	79.5		%		79.3			0.252	20	
Duplicate (EB71001-DUP2)				Source: 7B09019-04 Prepared: 02/09/07 Analyzed: 02/10/07						
% Solids	97.2		%		96.8			0.412	20	

Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.
M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
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:



Date: 2/19/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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

Client: Plains
 Date/ Time: 2/9/07 1415
 Lab ID #: 7B09019
 Initials: DM

Sample Receipt Checklist

Client Initials

	Yes	No		Client Initials
#1 Temperature of container/ cooler?			2.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

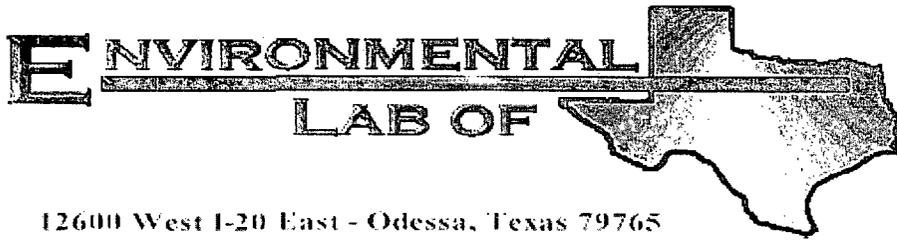
Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat / TM-0245-2

Project Number: 2000-10616

Location: Clay Osborn Ranch

Lab Order Number: 7B16003

Report Date: 02/22/07

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

Project: Jalmat / TM-0245-2
Project Number: 2000-10616
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMS-SW	7B16003-01	Soil	02/15/07 11:30	02-16-2007 09:15
TMS-E1	7B16003-02	Soil	02/15/07 11:35	02-16-2007 09:15
TMS-W1	7B16003-03	Soil	02/15/07 11:40	02-16-2007 09:15
TMS-N1	7B16003-05	Soil	02/15/07 14:35	02-16-2007 09:15
TMS-E2	7B16003-06	Soil	02/15/07 14:40	02-16-2007 09:15
TMS-W2	7B16003-07	Soil	02/15/07 14:45	02-16-2007 09:15
TMS-F1-15	7B16003-08	Soil	02/15/07 14:22	02-16-2007 09:15
TMS-F2	7B16003-09	Soil	02/15/07 14:27	02-16-2007 09:15
TMS-F2-15	7B16003-10	Soil	02/15/07 14:30	02-16-2007 09:15

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

Project: Jalmat / TM-0245-2
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMS-SW (7B16003-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72006	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		88.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.4 %	70-130		"	"	"	"	
TMS-E1 (7B16003-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	10.5	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	70.4	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	70.4	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		89.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.4 %	70-130		"	"	"	"	
TMS-W1 (7B16003-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	

Environmental Lab of Texas

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

Project: Jalmat / TM-0245-2
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMS-W1 (7B16003-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		96.0 %	70-130		"	"	"	"	
TMS-N1 (7B16003-05) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.4 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		92.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		95.4 %	70-130		"	"	"	"	
TMS-E2 (7B16003-06) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.6 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		75.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71606	02/16/07	02/18/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		87.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.0 %	70-130		"	"	"	"	

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMS-W2 (7B16003-07) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/21/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.0 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71704	02/17/07	02/19/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		81.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		93.2 %	70-130		"	"	"	"	
TMS-F1-15 (7B16003-08) Soil									
Carbon Ranges C6-C12	1160	50.0	mg/kg dry	5	EB71704	02/17/07	02/19/07	EPA 8015M	
Carbon Ranges C12-C28	4740	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	506	50.0	"	"	"	"	"	"	
Total Hydrocarbons	6410	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		25.4 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		25.0 %	70-130		"	"	"	"	S-06
TMS-F2 (7B16003-09) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		84.8 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		76.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71704	02/17/07	02/19/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		97.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		103 %	70-130		"	"	"	"	

Environmental Lab of Texas

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

Project: Jalmat / TM-0245-2
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMS-F2-15 (7B16003-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB72010	02/20/07	02/20/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.0 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		77.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71704	02/17/07	02/19/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		86.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.6 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TMS-SW (7B16003-01) Soil									
% Moisture	15.8	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-E1 (7B16003-02) Soil									
% Moisture	7.6	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-W1 (7B16003-03) Soil									
% Moisture	22.2	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-N1 (7B16003-05) Soil									
% Moisture	6.6	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-E2 (7B16003-06) Soil									
% Moisture	6.2	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-W2 (7B16003-07) Soil									
% Moisture	6.4	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-F1-15 (7B16003-08) Soil									
% Moisture	2.3	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-F2 (7B16003-09) Soil									
% Moisture	4.3	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation
TMS-F2-15 (7B16003-10) Soil									
% Moisture	2.3	0.1	%	1	EB71702	02/16/07	02/17/07	%	calculation

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71606 - Solvent Extraction (GC)

Blank (EB71606-BLK1)										
					Prepared: 02/16/07 Analyzed: 02/18/07					
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
<i>Surrogate: 1-Chlorooctane</i>	49.1		mg/kg	50.0		98.2	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	52.0		"	50.0		104	70-130			

LCS (EB71606-BS1)										
					Prepared: 02/16/07 Analyzed: 02/18/07					
Carbon Ranges C6-C12	522	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	480	10.0	"	500		96.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1000	10.0	"	1000		100	75-125			
<i>Surrogate: 1-Chlorooctane</i>	48.3		mg/kg	50.0		96.6	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	48.9		"	50.0		97.8	70-130			

Calibration Check (EB71606-CCV1)										
					Prepared: 02/16/07 Analyzed: 02/18/07					
Carbon Ranges C6-C12	219		mg/kg	250		87.6	80-120			
Carbon Ranges C12-C28	269		"	250		108	80-120			
Total Hydrocarbons	488		"	500		97.6	80-120			
<i>Surrogate: 1-Chlorooctane</i>	54.1		"	50.0		108	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	48.6		"	50.0		97.2	70-130			

Matrix Spike (EB71606-MS1)										
			Source: 7B15010-07							
					Prepared: 02/16/07 Analyzed: 02/18/07					
Carbon Ranges C6-C12	535	10.0	mg/kg dry	515	ND	104	75-125			
Carbon Ranges C12-C28	496	10.0	"	515	ND	96.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1030	ND	100	75-125			
<i>Surrogate: 1-Chlorooctane</i>	50.5		mg/kg	50.0		101	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	49.2		"	50.0		98.4	70-130			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71606 - Solvent Extraction (GC)

Matrix Spike Dup (EB71606-MSD1)		Source: 7B15010-07			Prepared: 02/16/07 Analyzed: 02/18/07					
Carbon Ranges C6-C12	533	10.0	mg/kg dry	515	ND	103	75-125	0.966	20	
Carbon Ranges C12-C28	500	10.0	"	515	ND	97.1	75-125	0.827	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1030	10.0	"	1030	ND	100	75-125	0.00	20	
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	70-130			
Surrogate: 1-Chlorooctadecane	47.5		"	50.0		95.0	70-130			

Batch EB71704 - Solvent Extraction (GC)

Blank (EB71704-BLK1)		Prepared: 02/17/07 Analyzed: 02/19/07								
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

LCS (EB71704-BS1)		Prepared: 02/17/07 Analyzed: 02/19/07								
Carbon Ranges C6-C12	521	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	480	10.0	"	500		96.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			

Calibration Check (EB71704-CCV1)		Prepared: 02/17/07 Analyzed: 02/19/07								
Carbon Ranges C6-C12	217		mg/kg	250		86.8	80-120			
Carbon Ranges C12-C28	263		"	250		105	80-120			
Total Hydrocarbons	480		"	500		96.0	80-120			
Surrogate: 1-Chlorooctane	54.4		"	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	48.9		"	50.0		97.8	70-130			

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

Project: Jalmat / TM-0245-2
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71704 - Solvent Extraction (GC)

Matrix Spike (EB71704-MS1)		Source: 7B16003-07		Prepared: 02/17/07		Analyzed: 02/19/07	
Carbon Ranges C6-C12	556	10.0	mg/kg dry	534	ND	104	75-125
Carbon Ranges C12-C28	509	10.0	"	534	ND	95.3	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbons	1040	10.0	"	1070	ND	97.2	75-125
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	70-130
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	70-130

Matrix Spike Dup (EB71704-MSD1)		Source: 7B16003-07		Prepared: 02/17/07		Analyzed: 02/19/07			
Carbon Ranges C6-C12	611	10.0	mg/kg dry	534	ND	114	75-125	9.17	20
Carbon Ranges C12-C28	568	10.0	"	534	ND	106	75-125	10.6	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1180	10.0	"	1070	ND	110	75-125	12.4	20
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130		
Surrogate: 1-Chlorooctadecane	51.3		"	50.0		103	70-130		

Batch EB72006 - EPA 5030C (GC)

Blank (EB72006-BLK1)				Prepared & Analyzed: 02/20/07		
Benzene	ND	0.00100	mg/kg wet			
Toluene	ND	0.00100	"			
Ethylbenzene	ND	0.00100	"			
Xylene (p/m)	ND	0.00100	"			
Xylene (o)	ND	0.00100	"			
Surrogate: a,a,a-Trifluorotoluene	53.0		ug/kg	50.0	106	75-125
Surrogate: 4-Bromofluorobenzene	46.3		"	50.0	92.6	75-125

LCS (EB72006-BS1)				Prepared & Analyzed: 02/20/07		
Benzene	0.0596	0.00100	mg/kg wet	0.0500	119	80-120
Toluene	0.0578	0.00100	"	0.0500	116	80-120
Ethylbenzene	0.0559	0.00100	"	0.0500	112	80-120
Xylene (p/m)	0.113	0.00100	"	0.100	113	80-120
Xylene (o)	0.0473	0.00100	"	0.0500	94.6	80-120
Surrogate: a,a,a-Trifluorotoluene	54.9		ug/kg	50.0	110	75-125
Surrogate: 4-Bromofluorobenzene	54.2		"	50.0	108	75-125

Environmental Lab of Texas

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB72006 - EPA 5030C (GC)

Calibration Check (EB72006-CCV1)

Prepared & Analyzed: 02/20/07

Benzene	54.7		ug/kg	50.0		109	80-120			
Toluene	50.7		"	50.0		101	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	96.7		"	100		96.7	80-120			
Xylene (o)	41.0		"	50.0		82.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.8		"	50.0		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	43.2		"	50.0		86.4	75-125			

Matrix Spike (EB72006-MS1)

Source: 7B15010-01

Prepared & Analyzed: 02/20/07

Benzene	0.106	0.00200	mg/kg dry	0.116	ND	91.4	80-120			
Toluene	0.0964	0.00200	"	0.116	ND	83.1	80-120			
Ethylbenzene	0.0935	0.00200	"	0.116	ND	80.6	80-120			
Xylene (p/m)	0.201	0.00200	"	0.231	ND	87.0	80-120			
Xylene (o)	0.0895	0.00200	"	0.116	ND	77.2	80-120			M8
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/kg	50.0		85.4	75-125			
Surrogate: 4-Bromofluorobenzene	43.9		"	50.0		87.8	75-125			

Matrix Spike Dup (EB72006-MSD1)

Source: 7B15010-01

Prepared & Analyzed: 02/20/07

Benzene	0.114	0.00200	mg/kg dry	0.116	ND	98.3	80-120	7.27	20	
Toluene	0.104	0.00200	"	0.116	ND	89.7	80-120	7.64	20	
Ethylbenzene	0.102	0.00200	"	0.116	ND	87.9	80-120	8.66	20	
Xylene (p/m)	0.216	0.00200	"	0.231	ND	93.5	80-120	7.20	20	
Xylene (o)	0.0946	0.00200	"	0.116	ND	81.6	80-120	5.54	20	
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/kg	50.0		82.8	75-125			
Surrogate: 4-Bromofluorobenzene	41.9		"	50.0		83.8	75-125			

Batch EB72010 - EPA 5030C (GC)

Blank (EB72010-BLK1)

Prepared & Analyzed: 02/20/07

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	43.9		ug/kg	50.0		87.8	75-125			
Surrogate: 4-Bromofluorobenzene	41.0		"	50.0		82.0	75-125			

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Project: Jalmat / TM-0245-2
 Project Number: 2000-10616
 Project Manager: Camille Reynolds

Fax: (432) 687-4914

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 EB72010 - EPA 5030C (GC)										
LCS (EB72010-BS1)										
Prepared & Analyzed: 02/20/07										
Benzene	0.0543	0.00100	mg/kg wet	0.0500		109	80-120			
Toluene	0.0496	0.00100	"	0.0500		99.2	80-120			
Ethylbenzene	0.0453	0.00100	"	0.0500		90.6	80-120			
Xylene (p/m)	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (o)	0.0401	0.00100	"	0.0500		80.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/kg	50.0		95.0	75-125			
Surrogate: 4-Bromofluorobenzene	46.6		"	50.0		93.2	75-125			
Calibration Check (EB72010-CCV1)										
Prepared: 02/20/07 Analyzed: 02/21/07										
Benzene	51.2		ug/kg	50.0		102	80-120			
Toluene	47.5		"	50.0		95.0	80-120			
Ethylbenzene	45.2		"	50.0		90.4	80-120			
Xylene (p/m)	91.1		"	100		91.1	80-120			
Xylene (o)	41.0		"	50.0		82.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.8		"	50.0		89.6	75-125			
Surrogate: 4-Bromofluorobenzene	44.5		"	50.0		89.0	75-125			
Matrix Spike (EB72010-MS1)										
Source: 7B16003-02 Prepared: 02/20/07 Analyzed: 02/21/07										
Benzene	0.107	0.00200	mg/kg dry	0.108	ND	99.1	80-120			
Toluene	0.0966	0.00200	"	0.108	ND	89.4	80-120			
Ethylbenzene	0.0970	0.00200	"	0.108	ND	89.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.216	ND	89.4	80-120			
Xylene (o)	0.0878	0.00200	"	0.108	ND	81.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/kg	50.0		83.4	75-125			
Surrogate: 4-Bromofluorobenzene	52.7		"	50.0		105	75-125			
Matrix Spike Dup (EB72010-MSD1)										
Source: 7B16003-02 Prepared: 02/20/07 Analyzed: 02/21/07										
Benzene	0.114	0.00200	mg/kg dry	0.108	ND	106	80-120	6.73	20	
Toluene	0.103	0.00200	"	0.108	ND	95.4	80-120	6.49	20	
Ethylbenzene	0.105	0.00200	"	0.108	ND	97.2	80-120	7.91	20	
Xylene (p/m)	0.203	0.00200	"	0.216	ND	94.0	80-120	5.02	20	
Xylene (o)	0.0885	0.00200	"	0.108	ND	81.9	80-120	0.735	20	
Surrogate: a,a,a-Trifluorotoluene	46.3		ug/kg	50.0		92.6	75-125			
Surrogate: 4-Bromofluorobenzene	54.9		"	50.0		110	75-125			

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Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476	Project: Jalmat / TM-0245-2 Project Number: 2000-10616 Project Manager: Camille Reynolds	Fax: (432) 687-4914
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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71702 - General Preparation (Prep)										
Blank (EB71702-BLK1)					Prepared: 02/16/07 Analyzed: 02/17/07					
% Solids	100		%							
Duplicate (EB71702-DUP1)					Source: 7B09013-01RE1 Prepared: 02/16/07 Analyzed: 02/17/07					
% Solids	83.7		%		84.2			0.596	20	
Duplicate (EB71702-DUP2)					Source: 7B16003-08 Prepared: 02/16/07 Analyzed: 02/17/07					
% Solids	98.2		%		97.7			0.510	20	

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Notes and Definitions

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

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

2/22/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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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: 2/16/07 0915
 Lab ID #: 7B16003
 Initials: DM

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	-1.0 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event