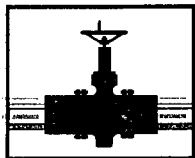


**1R – 411**

**REPORT**

**DATE:**  
**JULY 2007**



**PLAINS**  
PIPELINE, L.P.

1R-411  
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).

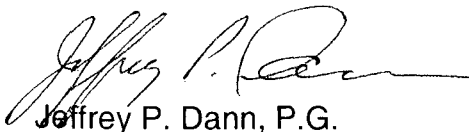
Based on the analytical laboratory results of confirmation soil samples and completion of the site-specific soil remediation and restoration activities as described in each Work Plan, remediation activities are complete and Plains requests that the NMOCD issue Plains a "no further action letter" and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

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

Report Entered

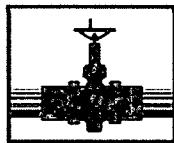
## **Site Closure Report**

### **Clay Osborn Rocky Top Ranch Jalmat #22A Release Site**

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

**SRS No. 2000-10614  
NMOCD No. 1R-0411**

**Prepared For**



**PLAINS**  
**PIPELINE, L.P.**

**333 Clay Street, Suite 1600  
Houston, Texas 77002**

**Prepared By**



**ENVIRONMENTAL  
SERVICES**

**July 2007**

## Table of Contents

### Executive Summary

|            |  |          |
|------------|--|----------|
| <b>1.0</b> | <b>Introduction.....</b>   | <b>1</b> |
| <b>2.0</b> | <b>Regulatory Framework .....</b>  | <b>3</b> |
| <b>3.0</b> | <b>Regional and Site Characteristics.....</b>  | <b>3</b> |
| 3.1        | Geological Description .....   | 3        |
| 3.2        | Land Use .....   | 3        |
| 3.3        | Ground Water.....  | 3        |
| <b>4.0</b> | <b>NMOCD Site Ranking.....</b>   | <b>4</b> |
| <b>5.0</b> | <b>Site Assessment.....</b>  | <b>4</b> |
| 5.1        | Distribution of Hydrocarbons in the Unsaturated Zone.....                                | 5        |
| 5.2        | Distribution of Hydrocarbons in the Saturated Zone.....                                  | 5        |
| <b>6.0</b> | <b>Site Remediation .....</b>  | <b>5</b> |
| <b>7.0</b> | <b>Confirmation Sampling and Comparison to<br/>Remediation Guideline Standards .....</b> | <b>6</b> |
| <b>8.0</b> | <b>Conclusion .....</b>  | <b>7</b> |

Table 1 – NMOCD Site Ranking Matrix

Table 2 – Soil Sample Analytical Results Summary

### 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 #22A 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°07'58" 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 23,500 ft<sup>2</sup>.

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 #22A Investigation Report 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 west 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 eastern area of the release site was remediated under Work Plan Scenario 2. The area was excavated to up to 6 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 12 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 20-foot by 40-foot area in the central area of the release site was 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.

## **2.0 Regulatory Framework**

In New Mexico, the MNOCD oversees and regulates oil, gas and geothermal activities, including compliance with environmental regulations. The Jalmat #22A Site was evaluated and remediated consistent with the characterization and remediation/abatement goals and objectives of the NMOCD approved Remediation Work Plan and the NMOCD guidelines defined in the NMOCD 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

## **3.0 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 an adjacent site. 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.



#### 4.0 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**

| <b>Depth to Groundwater</b>          | <b>Wellhead Protection Area</b>   | <b>Distance to Surface Water</b> |
|--------------------------------------|---|----------------------------------|
| <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          |
| <b>Total Site Ranking Score = 10</b> |   |                                  |
| <b>Parameter</b>                     | <b>Score of &gt;19 Maximum Concentrations</b>                             |                                  |
| 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.

#### 5.0 Site Assessment

On 27 July through 3 August 2000, initial subsurface horizontal and vertical delineation was conducted by EPI with the installation of 26 soil borings installed at the site. The 26 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 104 soil samples. Laboratory results indicated that TPH-GRO/DRO concentrations exceeded 1000 mg/kg TPH in 15 of the soil samples and the remaining 89 soil samples were either below NMOCD regulatory standards or were not detected above the laboratory method detection limits.

On 25 May 2006, one soil boring was installed at the location of the historical boring location indicating the location of maximum depth of impacted soils. The soil boring was installed to 25 feet bgs and samples collected at 2, 5, 10, 15, 20, and 25 feet bgs. Analytical results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits in any of the soil samples. Laboratory results indicated that TPH concentrations exceeded 1000 mg/kg TPH in the soil samples from 2 and 5 feet bgs.

#### **5.1 Distribution of Hydrocarbons in the Unsaturated Zone**

The area of soils remediated was approximately 25,000 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 one area. 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 a nearby site did not encounter groundwater. Therefore, there is no indication that hydrocarbons from the historical release have impacted the saturated zone.

### **6.0 Site Remediation**

The final surface area remediated was approximately 25,000 square feet. The volume of excavated and blended soils totaled 2230 cubic yards. The remediated area is shown in Figure 2.

The eastern area of the release site was remediated under Work Plan Scenario 2. The area was excavated up to 6 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.

A 20-foot by 40-foot area in the north-central area of the release site was remediated under Scenario 3. In this area, excavation continued to 12 feet bgs at which point the excavation was terminated. One soil sample from the excavation floor and a followup 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 12 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 12 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.

## **7.0 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 one location, 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-foot by 40-foot, 20-mil polyethylene liner was installed at 12 feet bgs. Final confirmation samples indicated concentrations of TPH in soils remaining in place at the liner edge ranged from 210 mg/kg in one wall sample to <10 mg/kg in all other samples. 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 #22A 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°07'58" 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 one area, and confirmation samples were collected and compared to the site-specific cleanup guidelines. Soil samples from the excavated areas confirm that the Jalmat #22A 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 1

## SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

PLAINS PIPELINE, L.P.  
Jalmat 22A  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NO: 2000-10614

| 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-<br>BENZENE (mg/kg) | M.P.<br>XYLENES (mg/kg) | O-XYLENE (mg/kg)  | C6-C12 (mg/kg) | C12-C28 (mg/kg) | C28-C35 (mg/kg) |           |
| 22A-F7          | 8            | 1/18/2007   | 7A18005-01      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F8          | 6            | 1/18/2007   | 7A18005-02      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F9          | 4            | 1/18/2007   | 7A18005-03      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 188             | 21.8            | 210       |
| 22A-F9          | 3            | 1/18/2007   | 7A18005-04      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-EW2         | 2            | 1/18/2007   | 7A18005-05      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-002         | 4            | 1/18/2007   | 7A18005-06      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-001         | 3*           | 1/12/2007   | 7A12027-01      | na                | na              | na                        | na                      | na                | 453            | 2850            | 107             | 3410      |
| 22A-SW1         | 4            | 1/12/2007   | 7A12027-02      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 64.7            | <10.0           | 64.7      |
| 22A-F1          | 5            | 1/12/2007   | 7A12027-03      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-WW1         | 4            | 1/12/2007   | 7A12027-04      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-NW1         | 4            | 1/12/2007   | 7A12027-05      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-SW2         | 2            | 1/12/2007   | 7A12027-06      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 25.1            | <10.0           | 25.1      |
| 22A-SW3         | 8            | 1/12/2007   | 7A12027-07      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F2          | 8*           | 1/12/2007   | 7A12027-08      | na                | na              | na                        | na                      | na                | 450            | 2480            | 104             | 3030      |
| 22A-F3          | 8*           | 1/12/2007   | 7A12027-09      | na                | na              | na                        | na                      | na                | 303            | 2620            | 118             | 3040      |
| 22A-NW4         | 8            | 1/12/2007   | 7A12027-10      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 65.1            | <10.0           | 65.1      |
| 22A-SW4         | 6            | 1/12/2007   | 7A12027-11      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F4          | 10           | 1/12/2007   | 7A12027-12      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 77              | <10.0           | 77        |
| 22A-NW2         | 10           | 1/12/2007   | 7A12027-13      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | 49.4            | <10.0           | 49.4      |
| 22A-SW5         | 2            | 1/12/2007   | 7A12027-14      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F5          | 10           | 1/12/2007   | 7A12027-15      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-SW6         | 5            | 1/12/2007   | 7A12027-16      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F6          | 6            | 1/12/2007   | 7A12027-17      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-NW3         | 5            | 1/12/2007   | 7A12027-18      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-EW1         | 4            | 1/12/2007   | 7A12027-19      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-F10         | 12**         | 1/29/2007   | 7A30001-01      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | 73.6           | 3030            | 624             | 3730      |
| 22A-SP3A        | stockpile    | 2/2/2007    | 7B03006-01      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | <10.0          | <10.0           | <10.0           | <10.0     |
| 22A-SP3B        | stockpile    | 2/2/2007    | 7B03006-02      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | 17.1           | 222             | 44.8            | 284       |
| 22A-SP3C        | stockpile    | 2/2/2007    | 7B03006-03      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | 23.3           | 215             | 46.8            | 286       |
| 22A-SP2B        | stockpile    | 2/2/2007    | 7B03006-04      | <0.00200          | <0.00200        | <0.00200                  | <0.00200                | <0.00200          | 15.2           | 430             | 77.1            | 522       |
| 22A-F10-15      | 15**         | 2/2/2007    | 7B03006-05      | na                | na              | na                        | na                      | na                | 144            | 1070            | 155             | 1370      |

\* Soils subsequently excavated after sample collection.

\*\* Soils subsequently covered by impermeable liner.

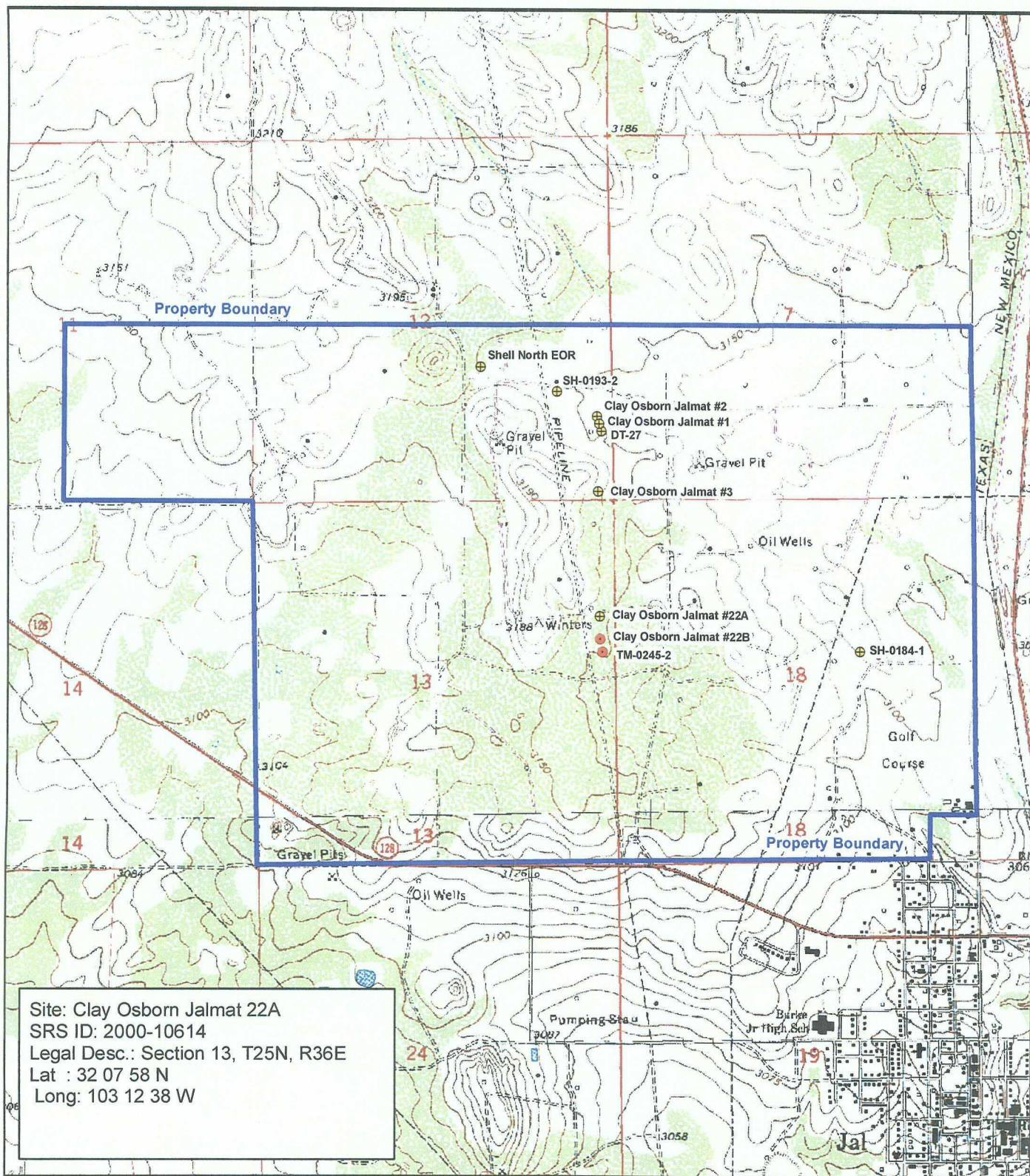
&lt; indicates the constituent was not detected

J indicates estimated value (detected below method reporting limit  
na indicates not analyzed

# **Appendix A**

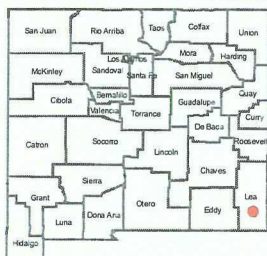
## **Figures**





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

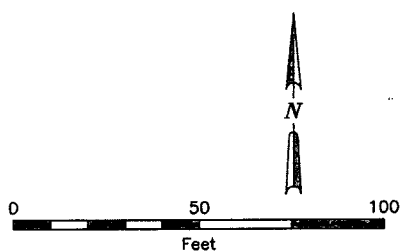
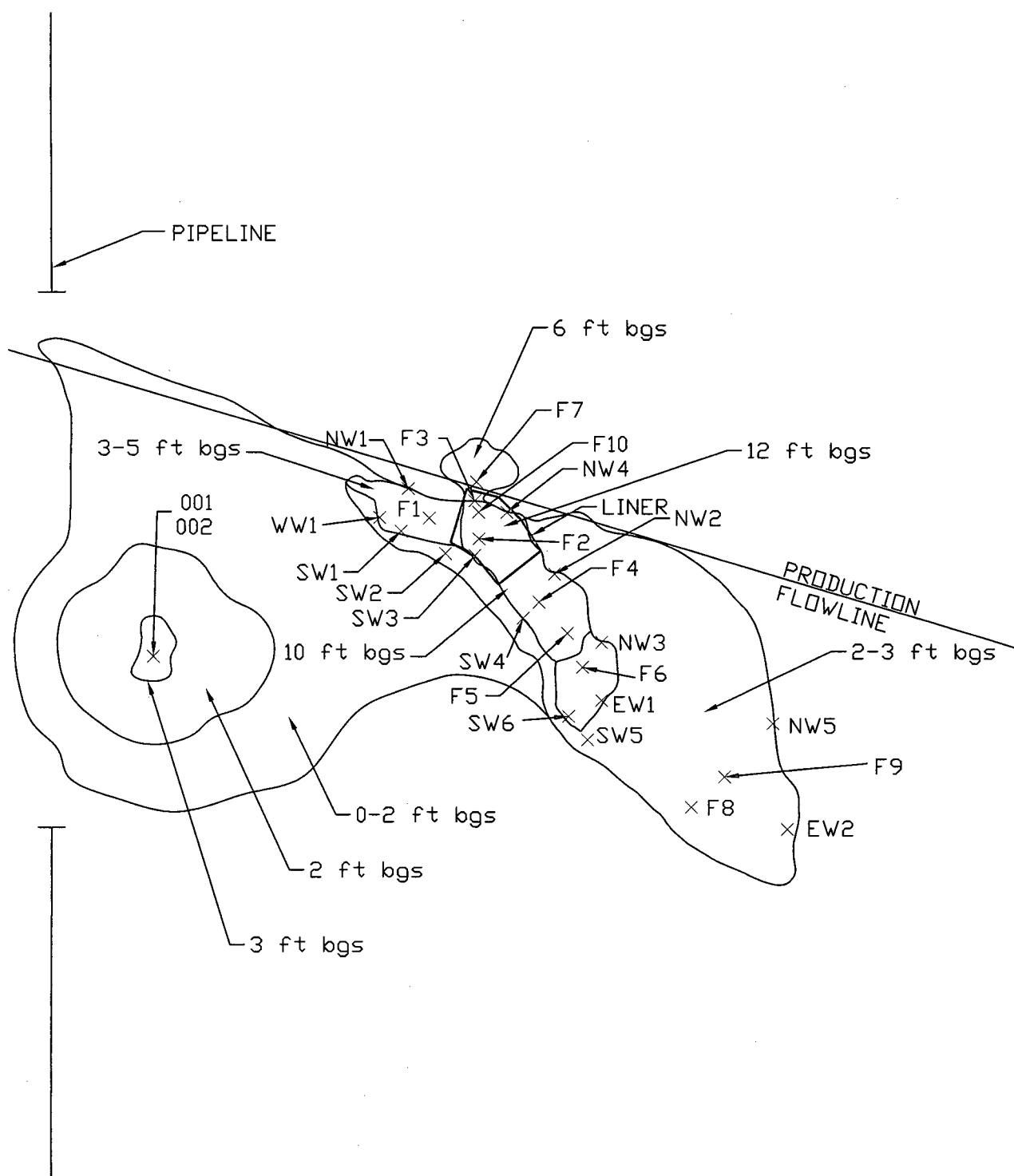
0 1,000 2,000  
 Feet



ENVIRONMENTAL SERVICES

Clay Osborn Jalmat 22A  
 SRS ID: 2000-10614  
 Plains Pipeline L.P.  
 Lea County, New Mexico

**Figure 1: Site Location Map**



**LEGEND:**

- × Soil Sample Locations
- Final Excavation Boundary
- F2 Interim Sample (Removed)



ENVIRONMENTAL  
SERVICES

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

**Figure 2: Excavation Detail**



## **Appendix B**

### **Site Photographs**



JALMAT 22A – North-Central Excavation Area



JALMAT 22A – Scrape and Blend Area



JALMAT 22A – Prepared for Liner





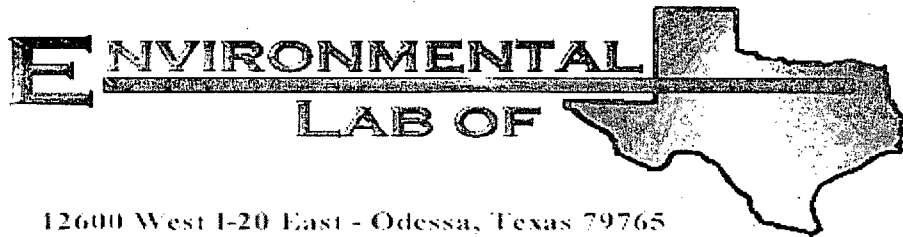
JALMAT 22A – Liner Installed



JALMAT 22A – Area Backfilled

## **Appendix C**

### **Analytical Reports**



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories, Inc. Company

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22A Landfarm

Project Number: 2000-10614

Location: Clay Osborn Ranch

Lab Order Number: 7A18005

Report Date: 01/25/07

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| 22A-F7    | 7A18005-01    | Soil   | 01/18/07 09:00 | 01-18-2007 14:25 |
| 22A-F8    | 7A18005-02    | Soil   | 01/18/07 09:05 | 01-18-2007 14:25 |
| 22A-F9    | 7A18005-03    | Soil   | 01/18/07 09:10 | 01-18-2007 14:25 |
| 22A-NW5   | 7A18005-04    | Soil   | 01/18/07 09:20 | 01-18-2007 14:25 |
| 22A-EW2   | 7A18005-05    | Soil   | 01/18/07 09:25 | 01-18-2007 14:25 |
| 22A-002   | 7A18005-06    | Soil   | 01/18/07 10:50 | 01-18-2007 14:25 |

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
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 |
|----------------------------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A-F7 (7A18005-01) Soil</b>  |             |                 |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12             | ND          | 10.0            | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons               | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane        |             | 98.8 %          | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane    |             | 97.0 %          | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-F8 (7A18005-02) Soil</b>  |             |                 |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12             | ND          | 10.0            | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons               | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane        |             | 104 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane    |             | 102 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-F9 (7A18005-03) Soil</b>  |             |                 |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12             | ND          | 10.0            | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28            | <b>188</b>  | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35            | <b>21.8</b> | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons               | <b>210</b>  | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane        |             | 100 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane    |             | 101 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-NW5 (7A18005-04) Soil</b> |             |                 |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12             | ND          | 10.0            | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35            | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons               | ND          | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane        |             | 92.2 %          | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane    |             | 89.8 %          | 70-130    |          | "       | "        | "        | "         |       |

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Page 2 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                       | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| 22A-EW2 (7A18005-05) Soil     |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | ND     | 10.0               | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28         | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |        | 105 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |        | 103 %              | 70-130    |          | "       | "        | "        | "         |       |
| 22A-002 (7A18005-06) Soil     |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12          | ND     | 10.0               | mg/kg dry | 1        | EA71902 | 01/19/07 | 01/20/07 | EPA 8015M |       |
| Carbon Ranges C12-C28         | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35         | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane     |        | 90.8 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane |        | 86.6 %             | 70-130    |          | "       | "        | "        | "         |       |

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Page 3 of 12



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Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte                          | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>22A-F7 (7A18005-01) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 10.6   | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |
| <b>22A-F8 (7A18005-02) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 12.8   | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |
| <b>22A-F9 (7A18005-03) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 27.1   | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |
| <b>22A-NW5 (7A18005-04) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 9.0    | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |
| <b>22A-EW2 (7A18005-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 12.0   | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |
| <b>22A-002 (7A18005-06) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                       | 21.5   | 0.1                | %     | 1        | EA71901 | 01/18/07 | 01/19/07 | % calculation |       |

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Page 4 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                          | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A-F7 (7A18005-01) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200         | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 118 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 97.2 %          | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 100 %           | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 96.8 %          | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A-F8 (7A18005-02) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200         | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 109 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 107 %           | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 95.6 %          | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 123 %           | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A-F9 (7A18005-03) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200         | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 120 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 105 %           | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 100 %           | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 107 %           | 66-145    |          | "       | "        | "        | "         |       |

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Page 5 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                          | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A-NW5 (7A18005-04) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200            | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 107 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 95.2 %             | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 91.8 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 102 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A-EW2 (7A18005-05) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200            | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 120 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 95.6 %             | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 97.0 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 100 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A-002 (7A18005-06) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                          | ND     | 0.00200            | mg/kg dry | 2        | EA72303 | 01/23/07 | 01/23/07 | EPA 8260B |       |
| Toluene                          | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                     | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                       | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane  |        | 134 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 111 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8            |        | 96.6 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene  |        | 117 %              | 66-145    |          | "       | "        | "        | "         |       |

Environmental Lab of Texas

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Page 6 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA71902 - Solvent Extraction (GC)**

**Blank (EA71902-BLK1)**

Prepared: 01/19/07 Analyzed: 01/20/07

|                               |      |      |           |      |  |     |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|--|
| 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     | 53.2 |      | mg/kg     | 50.0 |  | 106 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 54.2 |      | "         | 50.0 |  | 108 | 70-130 |  |  |  |

**LCS (EA71902-BS1)**

Prepared: 01/19/07 Analyzed: 01/21/07

|                               |      |      |           |      |  |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 505  | 10.0 | mg/kg wet | 500  |  | 101  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 404  | 10.0 | "         | 500  |  | 80.8 | 75-125 |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 |  |      | 75-125 |  |  |  |
| Total Hydrocarbons            | 909  | 10.0 | "         | 1000 |  | 90.9 | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 55.0 |      | mg/kg     | 50.0 |  | 110  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 39.3 |      | "         | 50.0 |  | 78.6 | 70-130 |  |  |  |

**Calibration Check (EA71902-CCV1)**

Prepared: 01/19/07 Analyzed: 01/20/07

|                               |      |  |       |      |  |     |        |  |  |  |
|-------------------------------|------|--|-------|------|--|-----|--------|--|--|--|
| Carbon Ranges C6-C12          | 272  |  | mg/kg | 250  |  | 109 | 80-120 |  |  |  |
| Carbon Ranges C12-C28         | 274  |  | "     | 250  |  | 110 | 80-120 |  |  |  |
| Total Hydrocarbons            | 546  |  | "     | 500  |  | 109 | 80-120 |  |  |  |
| Surrogate: 1-Chlorooctane     | 60.9 |  | "     | 50.0 |  | 122 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 53.1 |  | "     | 50.0 |  | 106 | 70-130 |  |  |  |

**Matrix Spike (EA71902-MS1)**

Source: 7A18002-02

Prepared: 01/19/07 Analyzed: 01/20/07

|                               |      |      |           |      |    |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 573  | 10.0 | mg/kg dry | 515  | ND | 111  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 462  | 10.0 | "         | 515  | ND | 89.7 | 75-125 |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND |      | 75-125 |  |  |  |
| Total Hydrocarbons            | 1040 | 10.0 | "         | 1030 | ND | 101  | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 57.5 |      | mg/kg     | 50.0 |    | 115  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 47.6 |      | "         | 50.0 |    | 95.2 | 70-130 |  |  |  |

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 7 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA71902 - Solvent Extraction (GC)**

**Matrix Spike Dup (EA71902-MSD1)**

**Source: 7A18002-02**

Prepared: 01/19/07 Analyzed: 01/20/07

|                               |      |      |           |      |    |      |        |      |    |  |
|-------------------------------|------|------|-----------|------|----|------|--------|------|----|--|
| Carbon Ranges C6-C12          | 594  | 10.0 | mg/kg dry | 515  | ND | 115  | 75-125 | 3.54 | 20 |  |
| Carbon Ranges C12-C28         | 476  | 10.0 | "         | 515  | ND | 92.4 | 75-125 | 2.97 | 20 |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND |      | 75-125 |      | 20 |  |
| Total Hydrocarbons            | 1070 | 10.0 | "         | 1030 | ND | 104  | 75-125 | 2.93 | 20 |  |
| Surrogate: 1-Chlorooctane     | 59.6 |      | mg/kg     | 50.0 |    | 119  | 70-130 |      |    |  |
| Surrogate: 1-Chlorooctadecane | 48.5 |      | "         | 50.0 |    | 97.0 | 70-130 |      |    |  |

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Page 8 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA71901 - General Preparation (Prep)**

**Blank (EA71901-BLK1)**

Prepared: 01/18/07 Analyzed: 01/19/07

% Solids 100 %

**Duplicate (EA71901-DUP1)**

Source: 7A17007-01

Prepared: 01/18/07 Analyzed: 01/19/07

% Solids 76.7 % 77.9 1.55 20

**Duplicate (EA71901-DUP2)**

Source: 7A17005-01

Prepared: 01/18/07 Analyzed: 01/19/07

% Solids 61.0 % 62.7 2.75 20

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Page 9 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA72303 - EPA 5030C (GCMS)**

**Blank (EA72303-BLK1)**

Prepared & Analyzed: 01/23/07

|                                  |      |         |           |      |  |      |        |  |  |  |
|----------------------------------|------|---------|-----------|------|--|------|--------|--|--|--|
| 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: Dibromofluoromethane  | 57.0 |         | ug/kg     | 50.0 |  | 114  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 48.6 |         | "         | 50.0 |  | 97.2 | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 50.1 |         | "         | 50.0 |  | 100  | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 51.2 |         | "         | 50.0 |  | 102  | 66-145 |  |  |  |

**LCS (EA72303-BS1)**

Prepared & Analyzed: 01/23/07

|                                  |        |         |           |        |  |      |        |  |  |  |
|----------------------------------|--------|---------|-----------|--------|--|------|--------|--|--|--|
| Benzene                          | 0.0517 | 0.00100 | mg/kg wet | 0.0500 |  | 103  | 70-130 |  |  |  |
| Toluene                          | 0.0487 | 0.00100 | "         | 0.0500 |  | 97.4 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0522 | 0.00100 | "         | 0.0500 |  | 104  | 70-130 |  |  |  |
| Xylene (p/m)                     | 0.100  | 0.00100 | "         | 0.100  |  | 100  | 70-130 |  |  |  |
| Xylene (o)                       | 0.0518 | 0.00100 | "         | 0.0500 |  | 104  | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 50.9   |         | ug/kg     | 50.0   |  | 102  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 52.2   |         | "         | 50.0   |  | 104  | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 50.8   |         | "         | 50.0   |  | 102  | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 51.1   |         | "         | 50.0   |  | 102  | 66-145 |  |  |  |

**Calibration Check (EA72303-CCV1)**

Prepared & Analyzed: 01/23/07

|                                  |      |  |       |      |  |      |        |  |  |  |
|----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Toluene                          | 48.4 |  | ug/kg | 50.0 |  | 96.8 | 70-130 |  |  |  |
| Ethylbenzene                     | 53.9 |  | "     | 50.0 |  | 108  | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 51.8 |  | "     | 50.0 |  | 104  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 46.6 |  | "     | 50.0 |  | 93.2 | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 46.7 |  | "     | 50.0 |  | 93.4 | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 51.9 |  | "     | 50.0 |  | 104  | 66-145 |  |  |  |

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Page 10 of 12

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA72303 - EPA 5030C (GCMS)**

**Matrix Spike (EA72303-MS1)**

Source: 7A18002-01

Prepared & Analyzed: 01/23/07

|                                  |       |         |           |       |    |      |        |  |  |  |
|----------------------------------|-------|---------|-----------|-------|----|------|--------|--|--|--|
| Benzene                          | 0.115 | 0.00200 | mg/kg dry | 0.113 | ND | 102  | 70-130 |  |  |  |
| Toluene                          | 0.105 | 0.00200 | "         | 0.113 | ND | 92.9 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.110 | 0.00200 | "         | 0.113 | ND | 97.3 | 70-130 |  |  |  |
| Xylene (p/m)                     | 0.207 | 0.00200 | "         | 0.226 | ND | 91.6 | 70-130 |  |  |  |
| Xylene (o)                       | 0.118 | 0.00200 | "         | 0.113 | ND | 104  | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 60.1  |         | ug/kg     | 50.0  |    | 120  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 54.4  |         | "         | 50.0  |    | 109  | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 47.7  |         | "         | 50.0  |    | 95.4 | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 56.1  |         | "         | 50.0  |    | 112  | 66-145 |  |  |  |

**Matrix Spike Dup (EA72303-MSD1)**

Source: 7A18002-01

Prepared & Analyzed: 01/23/07

|                                  |       |         |           |       |    |      |        |      |    |  |
|----------------------------------|-------|---------|-----------|-------|----|------|--------|------|----|--|
| Benzene                          | 0.118 | 0.00200 | mg/kg dry | 0.113 | ND | 104  | 70-130 | 1.94 | 20 |  |
| Toluene                          | 0.103 | 0.00200 | "         | 0.113 | ND | 91.2 | 70-130 | 1.85 | 20 |  |
| Ethylbenzene                     | 0.104 | 0.00200 | "         | 0.113 | ND | 92.0 | 70-130 | 5.60 | 20 |  |
| Xylene (p/m)                     | 0.197 | 0.00200 | "         | 0.226 | ND | 87.2 | 70-130 | 4.92 | 20 |  |
| Xylene (o)                       | 0.112 | 0.00200 | "         | 0.113 | ND | 99.1 | 70-130 | 4.83 | 20 |  |
| Surrogate: Dibromofluoromethane  | 54.9  |         | ug/kg     | 50.0  |    | 110  | 70-139 |      |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 50.2  |         | "         | 50.0  |    | 100  | 52-149 |      |    |  |
| Surrogate: Toluene-d8            | 46.8  |         | "         | 50.0  |    | 93.6 | 76-125 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 54.2  |         | "         | 50.0  |    | 108  | 66-145 |      |    |  |

Environmental Lab of Texas

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Page 11 of 12




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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Notes and Definitions

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: 1/25/2007

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.

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 12 of 12

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

5a) mit 22A

Project #: 2000-10614

Project Loc: Clay Osborn Ranch

mat: ☐ Standard ☐ TRRP ☐ NPDES

mat: ☐ Standard ☐ TRRP ☐ NPDES

Keedy Osgoodson

ORDER #: 7A18005

[illegible]

MD Run Brix (f TTP) < 1000 mg/kg

Received by:

Received by:

Received by EL0T:

Laboratory Comments:

## Sample Containers Intact?

## VOCs: Free of Headspace?

Labels on container(s)  
Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered  
by Sampler/Client Rep? Rep?

by Counter? UPS DIF

Temperature Upon Receipt: \_\_\_\_\_

100

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L  
 Date/ Time: 01-18-07 @ 1425  
 Lab ID #: 7A10005  
 Initials: JMM

### Sample Receipt Checklist

|     |  |            |    | Client Initials          |
|-----|--|------------|----|--------------------------|
| #1  | Temperature of container/ cooler?                      | <u>Yes</u> | No | -0.5 °C                  |
| #2  | Shipping container in good condition?                  | <u>Yes</u> | No |                          |
| #3  | Custody Seals intact on shipping container/ cooler?    | Yes        | No | <u>Not Present</u>       |
| #4  | Custody Seals intact on sample bottles/ container?     | Yes        | No | <u>Not Present</u>       |
| #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 EL0T?                           | <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)?                              | Yes        | No | <u>Not Applicable</u>    |
| #20 | VOC samples have zero headspace?                       | <u>Yes</u> | No | Not Applicable           |

### Variance Documentation

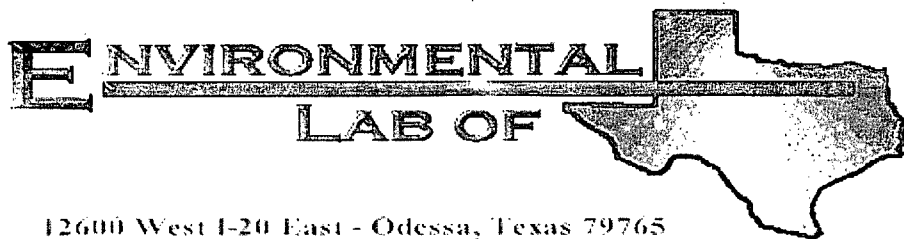
Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

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, Inc. Company

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22A Landfarm

Project Number: 2000-10614

Location: Clay Osborn Ranch

Lab Order Number: 7A12027

Report Date: 01/25/07

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| 22A- 001  | 7A12027-01    | Soil   | 01/12/07 11:00 | 01-12-2007 16:30 |
| 22A- SW1  | 7A12027-02    | Soil   | 01/12/07 12:05 | 01-12-2007 16:30 |
| 22A- F1   | 7A12027-03    | Soil   | 01/12/07 12:09 | 01-12-2007 16:30 |
| 22A- WW1  | 7A12027-04    | Soil   | 01/12/07 12:15 | 01-12-2007 16:30 |
| 22A- NW1  | 7A12027-05    | Soil   | 01/12/07 12:20 | 01-12-2007 16:30 |
| 22A- SW2  | 7A12027-06    | Soil   | 01/12/07 12:22 | 01-12-2007 16:30 |
| 22A- SW3  | 7A12027-07    | Soil   | 01/12/07 12:27 | 01-12-2007 16:30 |
| 22A- F2   | 7A12027-08    | Soil   | 01/12/07 12:30 | 01-12-2007 16:30 |
| 22A- F3   | 7A12027-09    | Soil   | 01/12/07 12:45 | 01-12-2007 16:30 |
| 22A- NW4  | 7A12027-10    | Soil   | 01/12/07 12:50 | 01-12-2007 16:30 |
| 22A- SW4  | 7A12027-11    | Soil   | 01/12/07 13:00 | 01-12-2007 16:30 |
| 22A- F4   | 7A12027-12    | Soil   | 01/12/07 13:05 | 01-12-2007 16:30 |
| 22A- NW2  | 7A12027-13    | Soil   | 01/12/07 13:09 | 01-12-2007 16:30 |
| 22A- SW5  | 7A12027-14    | Soil   | 01/12/07 13:13 | 01-12-2007 16:30 |
| 22A- F5   | 7A12027-15    | Soil   | 01/12/07 13:20 | 01-12-2007 16:30 |
| 22A- SW6  | 7A12027-16    | Soil   | 01/12/07 13:25 | 01-12-2007 16:30 |
| 22A- F6   | 7A12027-17    | Soil   | 01/12/07 13:30 | 01-12-2007 16:30 |
| 22A- NW3  | 7A12027-18    | Soil   | 01/12/07 13:35 | 01-12-2007 16:30 |
| 22A- EW1  | 7A12027-19    | Soil   | 01/12/07 13:40 | 01-12-2007 16:30 |

Plains All American EH & S  
1301 S. County Road 1150  
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Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- 001 (7A12027-01) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | 453    | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 2850   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | 107    | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 3410   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 117 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 152 %              | 70-130    |          | "       | "        | "        | "         | S-04  |
| <b>22A- SW1 (7A12027-02) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 64.7   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 64.7   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 112 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 117 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- F1 (7A12027-03) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 112 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 116 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- WW1 (7A12027-04) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 93.8 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 103 %              | 70-130    |          | "       | "        | "        | "         |       |

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Page 2 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- NW1 (7A12027-05) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 78.4 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 102 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- SW2 (7A12027-06) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 25.1   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 25.1   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 109 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 117 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- SW3 (7A12027-07) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 109 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 111 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- F2 (7A12027-08) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | 450    | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 2480   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | 104    | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 3030   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 118 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 144 %              | 70-130    |          | "       | "        | "        | "         | S-04  |

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Page 3 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- F3 (7A12027-09) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | 303    | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 2620   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | 118    | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 3040   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 122 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 122 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- NW4 (7A12027-10) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 65.1   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 65.1   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 100 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 109 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- SW4 (7A12027-11) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 111 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 119 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- F4 (7A12027-12) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 77.0   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 77.0   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 111 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 119 %              | 70-130    |          | "       | "        | "        | "         |       |

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Page 4 of 20



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Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                              | Result      | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------------------------------|-------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- NW2 (7A12027-13) Soil</b>    |             |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12                 | ND          | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| <b>Carbon Ranges C12-C28</b>         | <b>49.4</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                | ND          | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Total Hydrocarbons</b>            | <b>49.4</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 104 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 115 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- SW5 (7A12027-14) Soil</b>    |             |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12                 | ND          | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | 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>     |             | 105 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 113 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- F5 (7A12027-15) Soil</b>     |             |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12                 | ND          | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | 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>     |             | 103 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 108 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- SW6 (7A12027-16) Soil</b>    |             |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12                 | ND          | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | 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>     |             | 109 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 116 %              | 70-130    |          | "       | "        | "        | "         |       |

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Page 5 of 20

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Midland TX, 79706-4476

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Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- F6 (7A12027-17) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 105 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 108 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- NW3 (7A12027-18) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 102 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 112 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A- EW1 (7A12027-19) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C6-C12              | ND     | 10.0               | mg/kg dry | 1        | EA71510 | 01/15/07 | 01/17/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 102 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 104 %              | 70-130    |          | "       | "        | "        | "         |       |

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Page 6 of 20

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Project: Jalmat 22A Landfarm  
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Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte                           | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>22A- 001 (7A12027-01) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 6.6    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW1 (7A12027-02) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 14.4   | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- F1 (7A12027-03) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 5.8    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- WW1 (7A12027-04) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 1.7    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- NW1 (7A12027-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 1.4    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW2 (7A12027-06) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 5.9    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW3 (7A12027-07) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 4.9    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- F2 (7A12027-08) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 5.0    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- F3 (7A12027-09) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 7.5    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- NW4 (7A12027-10) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 2.9    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW4 (7A12027-11) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 3.2    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |

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Page 7 of 20

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

| Analyte                           | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>22A- F4 (7A12027-12) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 8.0    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- NW2 (7A12027-13) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 12.6   | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW5 (7A12027-14) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 13.6   | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- F5 (7A12027-15) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 9.2    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- SW6 (7A12027-16) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 9.2    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- F6 (7A12027-17) Soil</b>  |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 11.2   | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- NW3 (7A12027-18) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 20.1   | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |
| <b>22A- EW1 (7A12027-19) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                        | 7.6    | 0.1                | %     | 1        | EA71607 | 01/15/07 | 01/16/07 | % calculation |       |

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Page 8 of 20

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**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- SW1 (7A12027-02) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 114 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 99.4 %             | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 97.2 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 110 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- F1 (7A12027-03) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 103 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 98.4 %             | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 95.4 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 103 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- WW1 (7A12027-04) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 109 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 121 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 98.8 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 94.8 %             | 66-145    |          | "       | "        | "        | "         |       |

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Page 9 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- NW1 (7A12027-05) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/22/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 136 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 123 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 112 %              | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 113 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- SW2 (7A12027-06) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 119 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 104 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 101 %              | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 108 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- SW3 (7A12027-07) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 123 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 104 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 99.2 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 101 %              | 66-145    |          | "       | "        | "        | "         |       |

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Page 10 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- NW4 (7A12027-10) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 116 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 111 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 102 %              | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 104 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- SW4 (7A12027-11) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 117 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 104 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 99.4 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 98.6 %             | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- F4 (7A12027-12) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 120 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 107 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 97.0 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 109 %              | 66-145    |          | "       | "        | "        | "         |       |

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Page 11 of 20

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1301 S. County Road 1150  
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Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- NW2 (7A12027-13) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 114 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 104 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 98.2 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 104 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- SW5 (7A12027-14) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 110 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 98.0 %             | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 98.0 %             | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 113 %              | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- F5 (7A12027-15) Soil</b>  |        |                    |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 117 %              | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 107 %              | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 102 %              | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 103 %              | 66-145    |          | "       | "        | "        | "         |       |

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Page 12 of 20



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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- SW6 (7A12027-16) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200         | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 117 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 101 %           | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 98.4 %          | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 111 %           | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- F6 (7A12027-17) Soil</b>  |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200         | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 115 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 98.2 %          | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 96.4 %          | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 107 %           | 66-145    |          | "       | "        | "        | "         |       |
| <b>22A- NW3 (7A12027-18) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene                           | ND     | 0.00200         | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                           | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                      | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                        | ND     | 0.00200         | "         | "        | "       | "        | "        | "         |       |
| Surrogate: Dibromofluoromethane   |        | 121 %           | 70-139    |          | "       | "        | "        | "         |       |
| Surrogate: 1,2-Dichloroethane-d4  |        | 110 %           | 52-149    |          | "       | "        | "        | "         |       |
| Surrogate: Toluene-d8             |        | 97.4 %          | 76-125    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene   |        | 103 %           | 66-145    |          | "       | "        | "        | "         |       |

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Page 13 of 20

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Midland TX, 79706-4476

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B**  
**Environmental Lab of Texas**

| Analyte                                 | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- EW1 (7A12027-19) Soil</b>       |        |                    |           |          |         |          |          |           |       |
| Benzene                                 | ND     | 0.00200            | mg/kg dry | 2        | EA72101 | 01/21/07 | 01/21/07 | EPA 8260B |       |
| Toluene                                 | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                            | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                            | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                              | ND     | 0.00200            | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: Dibromofluoromethane</i>  |        | 124 %              | 70-139    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 104 %              | 52-149    |          | "       | "        | "        | "         |       |
| <i>Surrogate: Toluene-d8</i>            |        | 99.6 %             | 76-125    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 110 %              | 66-145    |          | "       | "        | "        | "         |       |

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Page 14 of 20

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1301 S. County Road 1150  
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**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA71510 - Solvent Extraction (GC)**

**Blank (EA71510-BLK1)**

Prepared: 01/15/07 Analyzed: 01/17/07

|                               |      |      |           |      |  |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| 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     | 45.5 |      | mg/kg     | 50.0 |  | 91.0 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 49.4 |      | "         | 50.0 |  | 98.8 | 70-130 |  |  |  |

**LCS (EA71510-BS1)**

Prepared: 01/15/07 Analyzed: 01/16/07

|                               |      |      |           |      |  |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 591  | 10.0 | mg/kg wet | 500  |  | 118  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 487  | 10.0 | "         | 500  |  | 97.4 | 75-125 |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 |  |      | 75-125 |  |  |  |
| Total Hydrocarbons            | 1080 | 10.0 | "         | 1000 |  | 108  | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 55.7 |      | mg/kg     | 50.0 |  | 111  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 54.7 |      | "         | 50.0 |  | 109  | 70-130 |  |  |  |

**Calibration Check (EA71510-CCV1)**

Prepared & Analyzed: 01/15/07

|                               |      |  |       |      |  |      |        |  |  |  |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 231  |  | mg/kg | 250  |  | 92.4 | 80-120 |  |  |  |
| Carbon Ranges C12-C28         | 286  |  | "     | 250  |  | 114  | 80-120 |  |  |  |
| Total Hydrocarbons            | 517  |  | "     | 500  |  | 103  | 80-120 |  |  |  |
| Surrogate: 1-Chlorooctane     | 53.0 |  | "     | 50.0 |  | 106  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 50.4 |  | "     | 50.0 |  | 101  | 70-130 |  |  |  |

**Matrix Spike (EA71510-MS1)**

Source: 7A12026-05

Prepared: 01/15/07 Analyzed: 01/17/07

|                               |      |      |           |      |    |      |        |  |  |  |
|-------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 620  | 10.0 | mg/kg dry | 526  | ND | 118  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 501  | 10.0 | "         | 526  | ND | 95.2 | 75-125 |  |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND |      | 75-125 |  |  |  |
| Total Hydrocarbons            | 1120 | 10.0 | "         | 1050 | ND | 107  | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 62.6 |      | mg/kg     | 50.0 |    | 125  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 58.7 |      | "         | 50.0 |    | 117  | 70-130 |  |  |  |

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Page 15 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA71510 - Solvent Extraction (GC)**

**Matrix Spike Dup (EA71510-MSD1)**

**Source: 7A12026-05**

Prepared: 01/15/07 Analyzed: 01/17/07

|                               |      |      |           |      |    |      |        |      |    |  |
|-------------------------------|------|------|-----------|------|----|------|--------|------|----|--|
| Carbon Ranges C6-C12          | 651  | 10.0 | mg/kg dry | 526  | ND | 124  | 75-125 | 4.96 | 20 |  |
| Carbon Ranges C12-C28         | 518  | 10.0 | "         | 526  | ND | 98.5 | 75-125 | 3.41 | 20 |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND |      | 75-125 |      | 20 |  |
| Total Hydrocarbons            | 1170 | 10.0 | "         | 1050 | ND | 111  | 75-125 | 3.67 | 20 |  |
| Surrogate: 1-Chlorooctane     | 63.1 |      | mg/kg     | 50.0 |    | 126  | 70-130 |      |    |  |
| Surrogate: 1-Chlorooctadecane | 64.6 |      | "         | 50.0 |    | 129  | 70-130 |      |    |  |

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Page 16 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte   | Result | Reporting<br>Limit                    | Units | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---|--------|---------------------------------------|-------|---------------------------------------|------------------|------|----------------|-------|--------------|-------|
| <b>Batch EA71607 - General Preparation (Prep)</b> |        |                                       |       |                                       |                  |      |                |       |              |       |
| <b>Blank (EA71607-BLK1)</b>                       |        | Prepared: 01/15/07 Analyzed: 01/16/07 |       |                                       |                  |      |                |       |              |       |
| % Solids  | 99.8   |                                       | %     |                                       |                  |      |                |       |              |       |
| <b>Duplicate (EA71607-DUP1)</b>                   |        | <b>Source: 7A12022-01</b>             |       | Prepared: 01/15/07 Analyzed: 01/16/07 |                  |      |                |       |              |       |
| % Solids  | 96.4   |                                       | %     |                                       | 94.6             |      |                | 1.88  | 20           |       |
| <b>Duplicate (EA71607-DUP2)</b>                   |        | <b>Source: 7A12022-32</b>             |       | Prepared: 01/15/07 Analyzed: 01/16/07 |                  |      |                |       |              |       |
| % Solids  | 95.2   |                                       | %     |                                       | 95.1             |      |                | 0.105 | 20           |       |
| <b>Duplicate (EA71607-DUP3)</b>                   |        | <b>Source: 7A12024-20</b>             |       | Prepared: 01/15/07 Analyzed: 01/16/07 |                  |      |                |       |              |       |
| % Solids  | 97.7   |                                       | %     |                                       | 97.8             |      |                | 0.102 | 20           |       |
| <b>Duplicate (EA71607-DUP4)</b>                   |        | <b>Source: 7A12027-12</b>             |       | Prepared: 01/15/07 Analyzed: 01/16/07 |                  |      |                |       |              |       |
| % Solids  | 92.4   |                                       | %     |                                       | 92.0             |      |                | 0.434 | 20           |       |
| <b>Duplicate (EA71607-DUP5)</b>                   |        | <b>Source: 7A15002-03</b>             |       | Prepared: 01/15/07 Analyzed: 01/16/07 |                  |      |                |       |              |       |
| % Solids  | 83.9   |                                       | %     |                                       | 85.9             |      |                | 2.36  | 20           |       |

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Page 17 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Environmental Lab of Texas

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch EA72101 - EPA 5030C (GCMS)

##### Blank (EA72101-BLK1)

Prepared & Analyzed: 01/21/07

|                                  |      |         |           |      |  |      |        |  |  |  |
|----------------------------------|------|---------|-----------|------|--|------|--------|--|--|--|
| 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: Dibromofluoromethane  | 49.5 |         | ug/kg     | 50.0 |  | 99.0 | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 50.9 |         | "         | 50.0 |  | 102  | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 50.4 |         | "         | 50.0 |  | 101  | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 48.4 |         | "         | 50.0 |  | 96.8 | 66-145 |  |  |  |

##### LCS (EA72101-BS1)

Prepared & Analyzed: 01/21/07

|                                  |        |         |           |        |  |      |        |  |  |  |
|----------------------------------|--------|---------|-----------|--------|--|------|--------|--|--|--|
| Benzene                          | 0.0464 | 0.00100 | mg/kg wet | 0.0500 |  | 92.8 | 70-130 |  |  |  |
| Toluene                          | 0.0447 | 0.00100 | "         | 0.0500 |  | 89.4 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0522 | 0.00100 | "         | 0.0500 |  | 104  | 70-130 |  |  |  |
| Xylene (p/m)                     | 0.102  | 0.00100 | "         | 0.100  |  | 102  | 70-130 |  |  |  |
| Xylene (o)                       | 0.0538 | 0.00100 | "         | 0.0500 |  | 108  | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 52.9   |         | ug/kg     | 50.0   |  | 106  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 47.0   |         | "         | 50.0   |  | 94.0 | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 46.0   |         | "         | 50.0   |  | 92.0 | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 51.1   |         | "         | 50.0   |  | 102  | 66-145 |  |  |  |

##### Calibration Check (EA72101-CCV1)

Prepared & Analyzed: 01/21/07

|                                  |      |  |       |      |  |      |        |  |  |  |
|----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Toluene                          | 46.8 |  | ug/kg | 50.0 |  | 93.6 | 70-130 |  |  |  |
| Ethylbenzene                     | 48.9 |  | "     | 50.0 |  | 97.8 | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 52.8 |  | "     | 50.0 |  | 106  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 47.0 |  | "     | 50.0 |  | 94.0 | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 50.6 |  | "     | 50.0 |  | 101  | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 49.8 |  | "     | 50.0 |  | 99.6 | 66-145 |  |  |  |

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Page 18 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA72101 - EPA 5030C (GCMS)**

**Matrix Spike (EA72101-MS1)**

**Source: 7A12027-02**

Prepared: 01/21/07 Analyzed: 01/22/07

|                                  |       |         |           |       |    |      |        |  |  |  |
|----------------------------------|-------|---------|-----------|-------|----|------|--------|--|--|--|
| Benzene                          | 0.119 | 0.00200 | mg/kg dry | 0.117 | ND | 102  | 70-130 |  |  |  |
| Toluene                          | 0.112 | 0.00200 | "         | 0.117 | ND | 95.7 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.118 | 0.00200 | "         | 0.117 | ND | 101  | 70-130 |  |  |  |
| Xylene (p/m)                     | 0.227 | 0.00200 | "         | 0.234 | ND | 97.0 | 70-130 |  |  |  |
| Xylene (o)                       | 0.120 | 0.00200 | "         | 0.117 | ND | 103  | 70-130 |  |  |  |
| Surrogate: Dibromofluoromethane  | 56.4  |         | ug/kg     | 50.0  |    | 113  | 70-139 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 50.9  |         | "         | 50.0  |    | 102  | 52-149 |  |  |  |
| Surrogate: Toluene-d8            | 49.7  |         | "         | 50.0  |    | 99.4 | 76-125 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 56.6  |         | "         | 50.0  |    | 113  | 66-145 |  |  |  |

**Matrix Spike Dup (EA72101-MSD1)**

**Source: 7A12027-02**

Prepared: 01/21/07 Analyzed: 01/22/07

|                                  |       |         |           |       |    |      |        |      |    |  |
|----------------------------------|-------|---------|-----------|-------|----|------|--------|------|----|--|
| Benzene                          | 0.117 | 0.00200 | mg/kg dry | 0.117 | ND | 100  | 70-130 | 1.98 | 20 |  |
| Toluene                          | 0.110 | 0.00200 | "         | 0.117 | ND | 94.0 | 70-130 | 1.79 | 20 |  |
| Ethylbenzene                     | 0.112 | 0.00200 | "         | 0.117 | ND | 95.7 | 70-130 | 5.39 | 20 |  |
| Xylene (p/m)                     | 0.215 | 0.00200 | "         | 0.234 | ND | 91.9 | 70-130 | 5.40 | 20 |  |
| Xylene (o)                       | 0.117 | 0.00200 | "         | 0.117 | ND | 100  | 70-130 | 2.96 | 20 |  |
| Surrogate: Dibromofluoromethane  | 61.8  |         | ug/kg     | 50.0  |    | 124  | 70-139 |      |    |  |
| Surrogate: 1,2-Dichloroethane-d4 | 48.0  |         | "         | 50.0  |    | 96.0 | 52-149 |      |    |  |
| Surrogate: Toluene-d8            | 49.3  |         | "         | 50.0  |    | 98.6 | 76-125 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 55.1  |         | "         | 50.0  |    | 110  | 66-145 |      |    |  |

Environmental Lab of Texas

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Page 19 of 20

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
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.

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:

1/25/2007

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.

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 20 of 20



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Page 1 of 2

Project Name: Talbot 22A

Project #: 2000-10614

Project Loc: Clay Osborn Ranch

第 3 章

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Kathy E. Siger v. com

142027

16074

| Special Instructions:  |         |      |                    | Laboratory Comments:   |      |  |  |
|--|---------|------|--------------------|--|------|--|--|
| (1) Run BTEX if TPH < 1000 mg/kg. Notify K. Cody when TPH completed. |         |      |                    | Sample container(s) intact? <input checked="" type="checkbox"/> N<br>VOCs: Free of Headspace? <input checked="" type="checkbox"/> N<br>Labels on container(s) <input checked="" type="checkbox"/> N<br>Custody seals on container(s) <input checked="" type="checkbox"/> Y<br>Sample Hand Delivered <input checked="" type="checkbox"/> N<br>by Sampler/Client Rep? <input checked="" type="checkbox"/> N<br>by Courier? <input checked="" type="checkbox"/> UPS DHL FedEx Lone Star |      |  |  |
| Relinquished by:   | Date    | Time | Received by:       | Date   | Time |  |  |
| <i>[Signature]</i>   | 1/12/07 | 1630 |                    |  |      |  |  |
| Relinquished by:   | Date    | Time | Received by:       | Date   | Time |  |  |
|  |         |      |                    |  |      |  |  |
| Relinquished by:   | Date    | Time | Received by: ELOT: | Date   | Time |  |  |
|  |         |      | <i>[Signature]</i> |  |      |  |  |

# Environmental Lab of Texas

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West 11-20 East  
Odessa, Texas 79765

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

Page 2 of 2

Project Manager: Cornille Reynolds

Company Name: Plains Pipeline LP

Company Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Telephone No: \_\_\_\_\_

Sampler Signature: [Signature]

Fax No: \_\_\_\_\_

e-mail: readyesdgenv.com

Project Name: Talbot 22A

Project #: 2000-10614

Project Loc: Clay Osborn Ranch

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 7A12027

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Matrix | Preservation & # of Containers | Analyze For:                           | TCLP: | TOTAL: |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|-----------------------|--------|--------------------------------|--|-------|--------|
| 11                   | 22A-SW4    |                 |              | 1/12/07      | 1300         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 12                   | 22A-F4     |                 |              | 1/12/07      | 1305         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 13                   | 22A-NW2    |                 |              | 1/12/07      | 1309         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 14                   | 22A-SW5    |                 |              | 1/12/07      | 1313         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 15                   | 22A-F5     |                 |              | 1/12/07      | 1320         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 16                   | 22A-SW6    |                 |              | 1/12/07      | 1325         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 17                   | 22A-F6     |                 |              | 1/12/07      | 1330         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 18                   | 22A-NW3    |                 |              | 1/12/07      | 1335         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
| 19                   | 22A-EW1    |                 |              | 1/12/07      | 1340         |                | 1                     | SW     | NP=Non-Portable Specby Other   | TPH: 418.1 8015B                       |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | TPH: TX 1005                           |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Callions (Ca, Mg, Na, K)               |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Anions (Cl, SO4, Alkalinity)           |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | SAR / ESP / CEC                        |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Metals: As Ag Ba Cd Cr Pb Hg Se        |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Volatiles                              |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Semivolatiles                          |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | RCL                                    |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | BTEX 4021B/503B or BTEX 8260           |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | N.O.R.M.                               |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs |       |        |
|                      |            |                 |              |              |              |                |                       |        |                                | Standard TAT                           |       |        |

Special Instructions:

1) Run BTEX 15 TPH < 1000 m/Ls. Notify K. Galy when TPH completed

| Relinquished by:   | Date    | Time | Received by:       | Date | Time |
|--------------------|---------|------|--------------------|------|------|
| <u>[Signature]</u> | 1/12/07 | 1630 | <u>[Signature]</u> |      |      |
| Relinquished by:   | Date    | Time | Received by:       | Date | Time |
| <u>[Signature]</u> |         |      | <u>[Signature]</u> |      |      |
| Relinquished by:   | Date    | Time | Received by:       | Date | Time |
| <u>[Signature]</u> |         |      | <u>[Signature]</u> |      |      |

Laboratory Comments:

Sample containers checked  
VOCs free of headspace?  
Labels on containers?  
Custody seals on container(s)?  
Custody seals on container(s)?  
Sample Hand Delivered by Sample/Client Rep.?  
by Courier? UPS DHL FedEx Lone Star  
Temperature Upon Receipt: -1.0

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: PLANS  
 Date/ Time: 1/12/07 10:30  
 Lab ID #: TA12027  
 Initials: ck

### Sample Receipt Checklist

|     |  |            |    | Client Initials          |
|-----|--|------------|----|--------------------------|
| #1  | Temperature of container/ cooler?                      | Yes        | No | <u>-1.0</u> °C           |
| #2  | Shipping container in good condition?                  | <u>Yes</u> | No |                          |
| #3  | Custody Seals intact on shipping container/ cooler?    | Yes        | No | <u>Not Present</u>       |
| #4  | Custody Seals intact on sample bottles/ container?     | Yes        | No | <u>Not Present</u>       |
| #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)?                              | Yes        | No | <u>Not Applicable</u>    |
| #20 | VOC samples have zero headspace?                       | <u>Yes</u> | No | Not Applicable           |

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

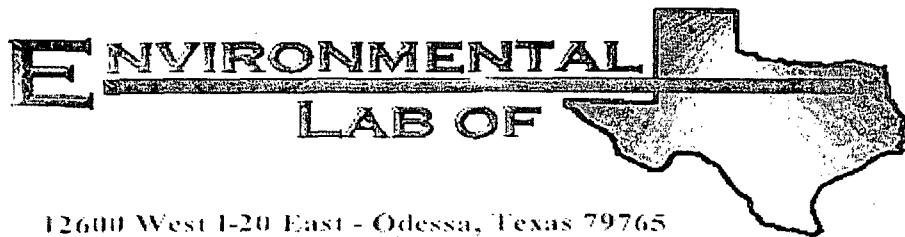
Regarding: \_\_\_\_\_

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



A Xenco Laboratories Company

12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat 22A

Project Number: 2000-10614

Location: Clay Osborn Ranch

Lab Order Number: 7A30001

Report Date: 02/09/07

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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|-----------|---------------|--------|----------------|------------------|
| 22A- F10  | 7A30001-01    | Soil   | 01/29/07 11:50 | 01-29-2007 17:35 |

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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                              | Result      | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------------------------------|-------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A- F10 (7A30001-01) Soil</b>    |             |                    |           |          |         |          |          |           |       |
| <b>Carbon Ranges C6-C12</b>          | <b>73.6</b> | 50.0               | mg/kg dry | 5        | EA73008 | 01/30/07 | 01/30/07 | EPA 8015M |       |
| <b>Carbon Ranges C12-C28</b>         | <b>3030</b> | 50.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Carbon Ranges C28-C35</b>         | <b>624</b>  | 50.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Total Hydrocarbons</b>            | <b>3730</b> | 50.0               | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 15.5 %             | 70-130    |          | "       | "        | "        | "         | S-06  |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 26.0 %             | 70-130    |          | "       | "        | "        | "         | S-06  |

Environmental Lab of Texas

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Page 2 of 7

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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte                           | Result      | Reporting<br>Limit | Units    | Dilution | Batch          | Prepared        | Analyzed        | Method               | Notes |
|-----------------------------------|-------------|--------------------|----------|----------|----------------|-----------------|-----------------|----------------------|-------|
| <b>22A- F10 (7A30001-01) Soil</b> |             |                    |          |          |                |                 |                 |                      |       |
| <b>% Moisture</b>                 | <b>10.5</b> | <b>0.1</b>         | <b>%</b> | <b>1</b> | <b>EA73101</b> | <b>01/30/07</b> | <b>01/31/07</b> | <b>% calculation</b> |       |

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Page 3 of 7

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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

**Batch EA73008 - Solvent Extraction (GC)**

**Blank (EA73008-BLK1)**

Prepared: 01/30/07 Analyzed: 02/02/07

|                               |      |      |           |      |  |     |        |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|
| 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     | 51.4 |      | mg/kg     | 50.0 |  | 103 | 70-130 |  |  |
| Surrogate: 1-Chlorooctadecane | 58.5 |      | "         | 50.0 |  | 117 | 70-130 |  |  |

**LCS (EA73008-BS1)**

Prepared: 01/30/07 Analyzed: 02/02/07

|                               |      |      |           |      |  |     |        |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|
| Carbon Ranges C6-C12          | 552  | 10.0 | mg/kg wet | 500  |  | 110 | 75-125 |  |  |
| Carbon Ranges C12-C28         | 529  | 10.0 | "         | 500  |  | 106 | 75-125 |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 |  |     | 75-125 |  |  |
| Total Hydrocarbons            | 1080 | 10.0 | "         | 1000 |  | 108 | 75-125 |  |  |
| Surrogate: 1-Chlorooctane     | 54.5 |      | mg/kg     | 50.0 |  | 109 | 70-130 |  |  |
| Surrogate: 1-Chlorooctadecane | 55.8 |      | "         | 50.0 |  | 112 | 70-130 |  |  |

**Calibration Check (EA73008-CCV1)**

Prepared: 01/30/07 Analyzed: 02/03/07

|                               |      |  |       |      |  |      |        |  |  |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|
| Carbon Ranges C6-C12          | 221  |  | mg/kg | 250  |  | 88.4 | 80-120 |  |  |
| Carbon Ranges C12-C28         | 261  |  | "     | 250  |  | 104  | 80-120 |  |  |
| Total Hydrocarbons            | 481  |  | "     | 500  |  | 96.2 | 80-120 |  |  |
| Surrogate: 1-Chlorooctane     | 64.4 |  | "     | 50.0 |  | 129  | 70-130 |  |  |
| Surrogate: 1-Chlorooctadecane | 62.3 |  | "     | 50.0 |  | 125  | 70-130 |  |  |

**Matrix Spike (EA73008-MS1)**

Source: 7A30003-02

Prepared: 01/30/07 Analyzed: 02/03/07

|                               |      |      |           |      |      |      |        |  |  |
|-------------------------------|------|------|-----------|------|------|------|--------|--|--|
| Carbon Ranges C6-C12          | 525  | 10.0 | mg/kg dry | 551  | ND   | 95.3 | 75-125 |  |  |
| Carbon Ranges C12-C28         | 526  | 10.0 | "         | 551  | 16.0 | 92.6 | 75-125 |  |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND   |      | 75-125 |  |  |
| Total Hydrocarbons            | 1050 | 10.0 | "         | 1100 | 16.0 | 94.0 | 75-125 |  |  |
| Surrogate: 1-Chlorooctane     | 50.5 |      | mg/kg     | 50.0 |      | 101  | 70-130 |  |  |
| Surrogate: 1-Chlorooctadecane | 46.2 |      | "         | 50.0 |      | 92.4 | 70-130 |  |  |

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Page 4 of 7



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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

### Organics by GC - Quality Control

#### Environmental Lab of Texas

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch EA73008 - Solvent Extraction (GC)

##### Matrix Spike Dup (EA73008-MSD1)

Source: 7A30003-02

Prepared: 01/30/07 Analyzed: 02/03/07

|                               |      |      |           |      |      |      |        |      |    |  |
|-------------------------------|------|------|-----------|------|------|------|--------|------|----|--|
| Carbon Ranges C6-C12          | 556  | 10.0 | mg/kg dry | 551  | ND   | 101  | 75-125 | 5.81 | 20 |  |
| Carbon Ranges C12-C28         | 590  | 10.0 | "         | 551  | 16.0 | 104  | 75-125 | 11.6 | 20 |  |
| Carbon Ranges C28-C35         | ND   | 10.0 | "         | 0.00 | ND   |      | 75-125 |      | 20 |  |
| Total Hydrocarbons            | 1150 | 10.0 | "         | 1100 | 16.0 | 103  | 75-125 | 9.14 | 20 |  |
| Surrogate: 1-Chlorooctane     | 53.3 |      | mg/kg     | 50.0 |      | 107  | 70-130 |      |    |  |
| Surrogate: 1-Chlorooctadecane | 49.4 |      | "         | 50.0 |      | 98.8 | 70-130 |      |    |  |

Environmental Lab of Texas

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Page 5 of 7

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

Project: Jalmat 22A  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**

**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EA73101 - General Preparation (Prep)**

**Blank (EA73101-BLK1)**

Prepared: 01/30/07 Analyzed: 01/31/07

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

**Duplicate (EA73101-DUP1)**

Source: 7A29026-01

Prepared: 01/30/07 Analyzed: 01/31/07

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 85.7 |  | % |  | 86.1 |  |  | 0.466 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Duplicate (EA73101-DUP2)**

Source: 7A30003-10

Prepared: 01/30/07 Analyzed: 01/31/07

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 97.5 |  | % |  | 97.1 |  |  | 0.411 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

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Page 6 of 7

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

Project: Jalmat 22A  
Project Number: 2000-10614  
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.

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: 2/9/2007

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.

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 7 of 7



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Date: Plains  
 Date/ Time: 1/29/07 17:35  
 ID #: 7A29024 <sup>OK</sup> 7A30001  
 Initials: OK

### Sample Receipt Checklist

Client Initials

|  |                |    |                           |  |
|--|----------------|----|---------------------------|--|
| Temperature of container/ cooler?                      | Yes            | No | 2.5 °C                    |  |
| Shipping container in good condition?                  | <del>Yes</del> | No |                           |  |
| Custody Seals intact on shipping container/ cooler?    | Yes            | No | <del>Not Present</del>    |  |
| Custody Seals intact on sample bottles/ container?     | Yes            | No | <del>Not Present</del>    |  |
| Chain of Custody present?                              | <del>Yes</del> | No |                           |  |
| Sample instructions complete of Chain of Custody?      | <del>Yes</del> | No |                           |  |
| Chain of Custody signed when relinquished/ received?   | <del>Yes</del> | No |                           |  |
| Chain of Custody agrees with sample label(s)?          | <del>Yes</del> | No | ID written on Cont./ Lid  |  |
| Container label(s) legible and intact?                 | <del>Yes</del> | No | Not Applicable            |  |
| Sample matrix/ properties agree with Chain of Custody? | <del>Yes</del> | No |                           |  |
| Containers supplied by ELOT?                           | <del>Yes</del> | No |                           |  |
| Samples in proper container/ bottle?                   | <del>Yes</del> | No | See Below                 |  |
| Samples properly preserved?                            | <del>Yes</del> | No | See Below                 |  |
| Sample bottles intact?                                 | <del>Yes</del> | No |                           |  |
| Preservations documented on Chain of Custody?          | <del>Yes</del> | No |                           |  |
| Containers documented on Chain of Custody?             | <del>Yes</del> | No |                           |  |
| Sufficient sample amount for indicated test(s)?        | <del>Yes</del> | No | See Below                 |  |
| All samples received within sufficient hold time?      | <del>Yes</del> | No | See Below                 |  |
| Subcontract of sample(s)?                              | <del>Yes</del> | No | <del>Not Applicable</del> |  |
| VOC samples have zero headspace?                       | <del>Yes</del> | 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

**Jeanne McMurrey**

---

**From:** "kcody" <kcody@sdgenv.com>  
**To:** "Jeanne McMurrey" <jeanne@elabtxas.com>  
**Sent:** Friday, February 09, 2007 9:06 AM  
**Subject:** RE: Jalmat 22A Landfarm 7A30001

Jeanne,

This report should be for Jalmat 22A and not Jalmat 22A Landfarm. They both have the same SRS number but different names.

Thanks

-----Original Message-----

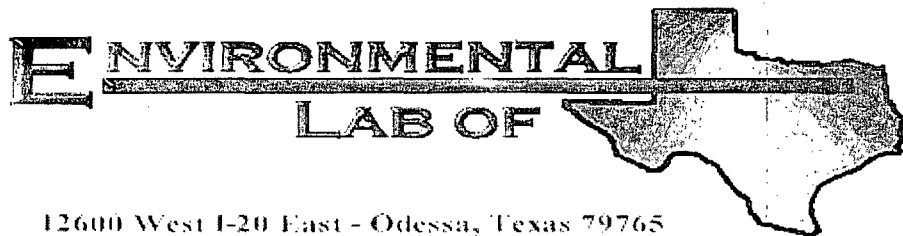
**From:** Jeanne McMurrey [mailto:jeanne@elabtxas.com]  
**Sent:** Monday, February 05, 2007 5:13 PM  
**To:** Kellie Carter; Daniel M. Bryant; Camille Reynolds  
**Cc:** Kenneth Cody  
**Subject:** RE: Jalmat 22A Landfarm 7A30001

Jeanne McMurrey  
Environmental Lab of Texas I, Ltd.  
12600 West I-20 East  
Odessa, Texas 79765  
432-563-1800

--

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2/9/2007



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 22A Landfarm

Project Number: 2000-10614

Location: Clay Osborn Ranch

Lab Order Number: 7B03006

Report Date: 02/12/07

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID  | Laboratory ID | Matrix | Date Sampled   | Date Received    |
|------------|---------------|--------|----------------|------------------|
| 22A-SP3A   | 7B03006-01    | Soil   | 02/02/07 09:05 | 02-02-2007 16:50 |
| 22A-SP3B   | 7B03006-02    | Soil   | 02/02/07 09:10 | 02-02-2007 16:50 |
| 22A-SP3C   | 7B03006-03    | Soil   | 02/02/07 09:12 | 02-02-2007 16:50 |
| 22A-SP2B   | 7B03006-04    | Soil   | 02/02/07 09:25 | 02-02-2007 16:50 |
| 22A-F10-15 | 7B03006-05    | Soil   | 02/02/07 11:00 | 02-02-2007 16:50 |



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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                           | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A-SP3A (7B03006-01) Soil</b> |        |                    |           |          |         |          |          |           |       |
| 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 |        | 68.4 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene   |        | 79.0 %             | 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             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 105 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 103 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-SP3B (7B03006-02) Soil</b> |        |                    |           |          |         |          |          |           |       |
| 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 |        | 66.0 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene   |        | 74.0 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| Carbon Ranges C6-C12              | 17.1   | 10.0               | mg/kg dry | 1        | EB70503 | 02/05/07 | 02/08/07 | EPA 8015M |       |
| Carbon Ranges C12-C28             | 222    | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35             | 44.8   | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbons                | 284    | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane         |        | 110 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane     |        | 115 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-SP3C (7B03006-03) Soil</b> |        |                    |           |          |         |          |          |           |       |
| 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 |        | 66.8 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene   |        | 84.8 %             | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12              | 23.3   | 10.0               | mg/kg dry | 1        | EB70616 | 02/06/07 | 02/08/07 | EPA 8015M |       |

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                  | Result      | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|-------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>22A-SP3C (7B03006-03) Soil</b>        |             |                    |           |          |         |          |          |           |       |
| <b>Carbon Ranges C12-C28</b>             | <b>215</b>  | 10.0               | mg/kg dry | 1        | EB70616 | 02/06/07 | 02/08/07 | EPA 8015M |       |
| <b>Carbon Ranges C28-C35</b>             | <b>46.8</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Total Hydrocarbons</b>                | <b>286</b>  | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctane</i>         |             | 101 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i>     |             | 105 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-SP2B (7B03006-04) Soil</b>        |             |                    |           |          |         |          |          |           |       |
| 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> |             | 70.8 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| <i>Surrogate: 4-Bromofluorobenzene</i>   |             | 63.2 %             | 80-120    |          | "       | "        | "        | "         | S-04  |
| <b>Carbon Ranges C6-C12</b>              | <b>15.2</b> | 10.0               | mg/kg dry | 1        | EB70616 | 02/06/07 | 02/08/07 | EPA 8015M |       |
| <b>Carbon Ranges C12-C28</b>             | <b>430</b>  | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Carbon Ranges C28-C35</b>             | <b>77.1</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Total Hydrocarbons</b>                | <b>522</b>  | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctane</i>         |             | 82.4 %             | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i>     |             | 88.2 %             | 70-130    |          | "       | "        | "        | "         |       |
| <b>22A-F10-15 (7B03006-05) Soil</b>      |             |                    |           |          |         |          |          |           |       |
| <b>Carbon Ranges C6-C12</b>              | <b>144</b>  | 10.0               | mg/kg dry | 1        | EB70616 | 02/06/07 | 02/07/07 | EPA 8015M |       |
| <b>Carbon Ranges C12-C28</b>             | <b>1070</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Carbon Ranges C28-C35</b>             | <b>155</b>  | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <b>Total Hydrocarbons</b>                | <b>1370</b> | 10.0               | "         | "        | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctane</i>         |             | 113 %              | 70-130    |          | "       | "        | "        | "         |       |
| <i>Surrogate: 1-Chlorooctadecane</i>     |             | 114 %              | 70-130    |          | "       | "        | "        | "         |       |

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Page 3 of 10

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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

| Analyte                             | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>22A-SP3A (7B03006-01) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| % Moisture                          | 8.1    | 0.1                | %     | 1        | EB70504 | 02/03/07 | 02/05/07 | % calculation |       |
| <b>22A-SP3B (7B03006-02) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| % Moisture                          | 7.5    | 0.1                | %     | 1        | EB70504 | 02/03/07 | 02/05/07 | % calculation |       |
| <b>22A-SP3C (7B03006-03) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| % Moisture                          | 5.9    | 0.1                | %     | 1        | EB70504 | 02/03/07 | 02/05/07 | % calculation |       |
| <b>22A-SP2B (7B03006-04) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| % Moisture                          | 7.9    | 0.1                | %     | 1        | EB70504 | 02/03/07 | 02/05/07 | % calculation |       |
| <b>22A-F10-15 (7B03006-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| % Moisture                          | 10.3   | 0.1                | %     | 1        | EB70504 | 02/03/07 | 02/05/07 | % calculation |       |

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Page 4 of 10

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**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 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EB70503 - Solvent Extraction (GC)**

|  |      |                           |           |                    |    |                    |        |      |    |  |
|--|------|---------------------------|-----------|--------------------|----|--------------------|--------|------|----|--|
| <b>Matrix Spike Dup (EB70503-MSD1)</b> |      | <b>Source: 7B03006-01</b> |           | 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)**

|                               |      |      |           |                    |  |                    |        |  |  |  |
|-------------------------------|------|------|-----------|--------------------|--|--------------------|--------|--|--|--|
| <b>Blank (EB70616-BLK1)</b>   |      |      |           | 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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Page 6 of 10

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Midland TX, 79706-4476

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Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EB70616 - Solvent Extraction (GC)**

|                                   |      |                           |           |                    |    |                    |        |  |  |  |
|-----------------------------------|------|---------------------------|-----------|--------------------|----|--------------------|--------|--|--|--|
| <b>Matrix Spike (EB70616-MS1)</b> |      | <b>Source: 7B03005-08</b> |           | 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 |  |  |  |

|  |      |                           |           |                    |    |                    |        |       |    |  |
|--|------|---------------------------|-----------|--------------------|----|--------------------|--------|-------|----|--|
| <b>Matrix Spike Dup (EB70616-MSD1)</b> |      | <b>Source: 7B03005-08</b> |           | 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)**

|                                   |      |         |           |                    |  |                    |        |  |  |  |
|-----------------------------------|------|---------|-----------|--------------------|--|--------------------|--------|--|--|--|
| <b>Blank (EB70904-BLK1)</b>       |      |         |           | 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 |  |  |  |

|                                   |        |         |           |                    |  |                    |        |  |  |  |
|-----------------------------------|--------|---------|-----------|--------------------|--|--------------------|--------|--|--|--|
| <b>LCS (EB70904-BS1)</b>          |        |         |           | 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 |  |  |  |

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

Project: Jalmat 22A Landfarm  
Project Number: 2000-10614  
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>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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|  |   |                     |
|--|---|---------------------|
| Plains All American EH & S<br>1301 S. County Road 1150<br>Midland TX, 79706-4476 | Project: Jalmat 22A Landfarm<br>Project Number: 2000-10614<br>Project Manager: Camille Reynolds | Fax: (432) 687-4914 |
|--|---|---------------------|

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EB70504 - General Preparation (Prep)**

|                                 |      |  |   |  |      |  |  |       |    |  |
|---------------------------------|------|--|---|--|------|--|--|-------|----|--|
| <b>Blank (EB70504-BLK1)</b>     |      |  |   | Prepared: 02/03/07 Analyzed: 02/05/07                    |      |  |  |       |    |  |
| % Solids                        | 98.4 |  | % |  |      |  |  |       |    |  |
| <b>Duplicate (EB70504-DUP1)</b> |      |  |   | Source: 7B03005-01 Prepared: 02/03/07 Analyzed: 02/05/07 |      |  |  |       |    |  |
| % Solids                        | 96.6 |  | % |  | 97.5 |  |  | 0.927 | 20 |  |

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Page 9 of 10



Plains All American EH & S  
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### 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).

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

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Page 10 of 10



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Plains Pipeline  
 Date/ Time: 02/02/07 6:50  
 Lab ID #: 7B03006  
 Initials: Am

### Sample Receipt Checklist

Client Initials

|     |  |            |    |                          |  |
|-----|--|------------|----|--------------------------|--|
| #1  | Temperature of container/ cooler?                      | <u>Yes</u> | No | <u>2.0</u> °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 | <u>Not Applicable</u>    |  |
| #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