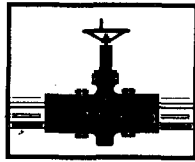


1R - 468

WORK PLAN

DATE:

JULY, 2006



PLAINS
PIPELINE, L.P.

IR - 468
Work Plan
July, 2006

July 24, 2006

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

Re: Plains Pipeline, L.P.
Document Submittal
Clay Osborn Ranch – Rocky Top #1 Site Remediation Work Plan
Clay Osborn Ranch – Jalmat #22B and TM 0245-2 Site Remediation Plan —
Jal, Lea County, New Mexico

Dear Mr. Stone:

IR
GW-468

Plains Pipeline, L.P. (Plains) is pleased to submit the attached Site Investigation Report and Site-Specific Remediation Work Plans for two of the soil remediation project sites located on the Osborn's Rocky Top Ranch in Jal, Lea County, New Mexico. These documents include the results of an additional soil investigation conducted at the site and the remediation plan are based on the General Remediation Work Plan recently submitted to the New Mexico Oil Conservation Commission (NMOCD) by Plains.

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: Rocky Top #1 and Jalmat #22B Site Investigation Report and Site-Specific Remediation Work Plans

File: n/jeff-files/Osborn-RockyTopRanch/RockyTop-1 CovrLtr.doc

JUL 24 2006

**SITE INVESTIGATION REPORT
and
SITE-SPECIFIC REMEDIATION WORK PLAN**

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

**SW1/4 NW1/4 UL-E, Section 18, Township 25 North, Range 37 East
Latitude 32° 07' 55" North, Longitude 103° 12' 38" West
Lea County, New Mexico**

PLAINS PIPELINE, L.P. SRS ID: 2000-10616

Prepared For:

Plains Pipeline, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:

SDG Environmental Services
6611 Vialinda, Suite 204
Houston, Texas 77083

July 2006


Kenneth Cody
SDG Environmental Services

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1.0 INTRODUCTION

SDG Environmental Services (SDG) was retained by Plains Pipeline, L.P. (Plains) to evaluate historical information, conduct additional investigation, and develop a site-specific remediation work plan for the Jalmat #22B and TM-0245-2 release site located on the Clay Osborne Rocky Top Ranch in Lea County, New Mexico. Plains is the owner/operator of several pipelines present on the Clay Osborne Rocky Top Ranch located near Jal, New Mexico.

This site is located in Unit Letter-E, in the SW¼ NW ¼ of Section 7, Township 25 North, Range 37 East, approximately 1-mile northwest of Jal, Lea County, New Mexico. A topographic Site Location Map is provided as Figure 1. The latitude is 32° 07' 55" North, and Longitude 103° 12' 38" West. The site is characterized by a right-of-way for the pipeline in a pasture. The pipeline is currently not in operation.

The hydrocarbon impacted area is the result of a historical release and the date of the release as well as the volume of crude oil released and recovered is not known. The visually stained area of the Jalmat #22B site is approximately 14,000 ft². In June 2005, a surface soil sample was collected by others at the site identified as TM-0245-2 located at the southern edge of the Jalmat #22B site. Due to the two areas being contiguous, these two sites have been combined for the purpose of remediation.

The Jalmat #22B site was originally investigated in August 2000 by Environmental Plus, Inc. (EPI) but was not fully delineated at that time. In the EPI report dated December 2001, groundwater was estimated to be 70 feet below ground surface (bgs) and hydrocarbon soil impacts were indicated at depths to 15 feet bgs but were not vertically delineated. In the May 2006 investigation conducted by SDG, no groundwater was encountered in a boring installed to 75 feet bgs and the vertical extent of hydrocarbon impacted soils were determined to be less than 15 feet bgs. A summary of site activities is provided in Section 2.0.

Plains prepared and submitted a General Remediation Work Plan dated April 2006 to address the release sites located on the Rocky Top Ranch. The objective of the General Remediation Work Plan was to remediate crude oil impacted sites at the Rocky Top Ranch, consistent with the remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) "NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, August 13, 1993." The General Remediation Work Plan proposed appropriate risk-based thresholds for contaminants of concern (CoCs) based on relative risk posed by the CoC residuals to local groundwater, area water wells, surface water bodies and impacts on surface reclamation.

The General Remediation Work Plan proposed remediation strategies for sites would be developed under the following three scenarios.

1. Surface Restoration Sites (Scenario 1)

This scenario was developed for sites 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.

2. Total Excavation (Scenario 2)

For sites where data indicates that soil impacts are limited in vertical extent (i.e. 10 to 15 feet in depth) and total excavation of the impacted soil is practical.

3. Limited Excavation and Risk-based Closure (scenario 3)

For sites where data indicates that soil impacts in the source area extend to between 10 feet and 45 feet below ground surface (bgs) and excavation of all the impacted soil to below NMOCD guidelines is not practical.

The General Remediation Work Plan was conditionally approved by the NMOCD in a letter to Plains dated May 30, 2006.

The soil analytical data in the EPI December 2001 Jalmat #22B Site Investigation Report as well as the visual observations, field photoionization detector (PID) measurement, and soil analytical data from a site investigation conducted in May 2006 by SDG was used in development of this Site Specific Remediation Work Plan.

2.0 SUMMARY OF SITE ACTIVITIES

On 04 through 10 August 2000, initial subsurface horizontal and vertical delineation was conducted by EPI with the installation of twenty two (22) soil borings installed at the site. Each soil boring was installed to a depth of 15 feet bgs and are identified in Figure 2 as BH-1 through BH-22. Soil samples were collected at depths of 2, 5, 10, and 15 feet bgs, field screened with a PID and the soil samples were 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 sixty-four (64) soil samples. Laboratory results indicated that TPH-GRO/DRO concentrations exceed 1000 mg/kg TPH for five (5) soil samples and the remaining fifty-nine (59) soil samples were either below NMOCD regulatory standards or were not detected above laboratory method detection limits. The highest concentrations were exhibited in samples collected from BH-1 and BH-16. A table of the analytical results from the August 2000 investigation report is provided in Appendix D.

On 29 June 2005, one surface soil sample was collected of observed surface staining by others at the site identified as TM-0245-2. The sample identified as OTS 19 was 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. Laboratory results indicated a TPH-GRO/DRO concentration sample OTS 19 of 863 mg/kg.

On 23 May 2006, SDG conducted an additional soil investigation in an effort to determine the vertical and horizontal extent of impacts at the Jalmat #22B and an adjacent suspected historical release site TM-0245-2. The TM-0245-2 site was located based on the latitude and longitude provided and a visible lack of vegetation, there was no obvious visible surface staining. The TM-0245-2 site is located adjacent to and just south of the Jalmat #22B site. The soil borings installed to delineate the historical TM-0245-2 site also serve to delineate the southern edge of the Jalmat #22B site; and therefore these sites are combined for the purposes of delineation and remediation.

Three soil borings were installed in the TM-0245-2 area and are identified in Figure 2 as TM2-SB1, TM2-SB2, and TM2-SB3.

In order to further define the extent of impacted soils associated with Jalmat #22B site, three soil borings were installed. One boring JM22B-SB1 was installed adjacent to the southeastern edge of impacted soils in the vicinity of soil boring BH-22. Soil borings JM22B-SB2, and JM22B-SB3 were installed at the locations of previous soil borings BH-16 and BH-1 in an effort to provide vertical delineation of impacted soils.

Soil boring JM22B-SB1 was installed to 75 feet bgs and no groundwater was encountered.

Soil borings were installed by Straub Corporation, Stanton, Texas utilizing an air rotary drill rig. Soil samples were typically collected at 2 ft, 5 ft, 10 ft, 15 ft, and 20 ft depths using a core sampler. Soil samples were collected from some borings at deeper intervals and at intervals above and below a sandstone layer encountered at approximately 20 ft bgs. Soil samples were split for headspace analysis to screen for total volatile organic vapor concentrations in soils. A one quart zip-lock bag was filled one-half full of soil and sealed leaving the remainder of the bag filled with air. The sample was allowed to volatilize for five to ten minutes. One end of the bag was opened and the PID probe inserted carefully into the bag and the bag re-sealed around the probe as much as possible to prevent vapors from escaping. The peak measurement associated with the sample was recorded. The peak PID measurements are provided on the soil boring logs included in Appendix C.

3.0 NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

The December 8, 2001 Site Investigation Report estimated the depth to water at the site of 70 ft bgs. Based on soil boring (LM22B-SB1) installed during the May 2006 investigation the depth to water at the site is greater than 75 ft. Based on the analytical results of soil samples from borings installed during the May 2006 investigation, impacted soil is limited to soils shallower than 20 feet bgs, therefore, at

least 55 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 ft 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 storm water runoff from the land farm located east of the site. The retention basin is located approximately 890 feet southeast of the site. At the time of the May 2006 investigation, there was no water in the basin. Although the retention basin may contain seasonal storm water, it was constructed to manage storm water from the land farm area which has a soil treatment standard of 1000 mg/kg TPH. 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 of 10-19, which establish the following remediation levels:

Benzene: 10 mg/kg

BTEX: 50 mg/kg

TPH: 1000 mg/kg

4.0 DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The estimated area of soils impacted above NMOCD Standards is shown in Figure 3. The vertical extent of soils impacted above NMOCD standards based on the data obtained in the 25 May 2006 subsurface sampling is limited to 5 to 10 feet bgs. The impacted area is estimated to be approximately 24,000 square feet, 14,000 square feet of which are identifiable with some visible staining or lack of vegetation.

On 25 May 2006, an air rotary drill rig, operated by Straub Corporation, Stanton, Texas, was utilized to delineate the vertical extent of crude oil impacted soil at the site. Soil samples were collected in the subsurface from the soil boring at 5 foot intervals; field screened with a PID and selected soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory data sheets and chain-of-custody forms are attached (Appendix B). No visual observations of free phase hydrocarbons were encountered during the installation of the soil borings. Soil boring logs are provided in Appendix C.

Soil Boring TM2-SB1 was installed at the location of a historical release site. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH

GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the samples. Analytical results indicated that TPH concentrations exceeded the NMOCD standard of 1000 mg/kg at 2 feet bgs and that TPH was not detected above the laboratory detection limits in soil samples collected at 5, 10, 15, and 20 feet bgs.

Soil Boring TM2-SB2 was installed at a location downgradient of TM2-SB1 and within the possible spill path of the reported historical release TM-0245-2. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in the samples except for the sample collected at 5 feet bgs which had an estimated M,P-xylenes concentration of 0.0223 mg/kg which is estimated because it is above the method detection limit but below the laboratory reporting limit. Analytical results indicated that TPH concentrations were not detected above the laboratory method detection limits in any of the samples.

Soil Boring TM2-SB3 was installed at a location downgradient of TM2-SB1. The soil boring was installed to 20 feet bgs and samples were collected at 2, 5, 10, 15, and 20 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the samples. Analytical results indicated that TPH concentrations were below the NMOCD standard of 1000 mg/kg at 2, 5, and 20 feet bgs with TPH concentrations of 107, 666, and 65.6 mg/kg, respectively. Laboratory results of soil samples collected at 10 and 15 feet bgs indicated that TPH-GRO/DRO concentrations were not detected above the laboratory method detection limits.

Soil Boring JM22B-SB1 was installed at a location near the southeast corner of the impacted area associated with the Jalmat #22B release. The soil boring was installed to 75 feet bgs and samples were collected at 2, 5, 10, 15, 18, 28, and 40 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the seven (7) samples. Analytical results indicated that TPH concentrations were below the NMOCD standard of 1000 mg/kg at 2, 5, 10, and 15 feet bgs with TPH concentrations of 244, 390, 49.1 and 194 mg/kg, respectively. Analytical results indicated that TPH concentrations were not detected above the laboratory method detection limits at 18, 28, and 40 feet bgs.

Soil Boring JM22B-SB2 was installed at the location of the previously installed soil boring BH-16. This location was selected because the results of August 2000 sampling indicated impacted soils above the NMOCD standard of 1000 mg/kg at 15 feet bgs. The purpose of soil boring JM22B-SB2 was to verify the previous results and to obtain a vertical delineation of impacted soils at this location. JM22B-SB2 was

installed to 30 feet bgs and samples were collected at 2, 5, 10, 15, 20, and 30 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the six (6) samples. . Analytical results indicated that TPH concentrations were below the NMOCD standard of 1000 mg/kg at 2 and 5 feet bgs with TPH concentrations of 20.2 and 616 mg/kg, respectively. Analytical results indicated that TPH concentrations were not detected above the laboratory method detection limits at 10, 15, 20, and 30 feet bgs.

Soil Boring JM22B-SB3 was installed at the location of the previously installed soil boring BH-1. This location was selected because the results of August 2000 sampling indicated impacted soils above the NMOCD standard of 1000 mg/kg at 15 feet bgs. The purpose of soil boring JM22B-SB3 was to verify the previous results and to obtain a vertical delineation of impacted soils at this location. JM22B-SB2 was installed to 40 feet bgs and samples were collected at 2, 5, 10, 15, 20, 33, and 40 feet bgs, field screened with a PID and submitted for laboratory analysis of TPH GRO/DRO and BTEX. Analytical results indicated that constituent concentrations of BTEX were not detected above the laboratory method detection limits in any of the seven (7) samples. . Analytical results indicated that TPH concentrations were above the NMOCD standard of 1000 mg/kg at 5 feet bgs with TPH concentrations of 2130 mg/kg. Analytical results indicated that TPH concentrations were below the NMOCD standard of 1000 mg/kg at 2, 10, and 20 feet bgs with TPH concentrations of 61.2, 206, and 71.4 mg/kg, respectively. Analytical results indicated that TPH concentrations were not detected above the laboratory method detection limits at 15, 33, and 40 feet bgs.

The extent of hydrocarbon impacted soils has been delineated vertically. The horizontal extent of impacted soils has been defined to the north and east. Hydrocarbon impacted soils have not been fully delineated to the west of the surface stained area and JM22B-SB3 and TM2-SB1. However, based on the results of the soil samples collected and analyzed from surrounding soil borings, it is likely that the horizontal impact in these areas is limited in extent.

5.0 DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

No saturated conditions were observed in any of the borings. Soil boring JM22B-SB1 was installed to 75 feet bgs and no groundwater was encountered. The depth of hydrocarbon impacted soils above 1000 mg/kg TPH is limited to less than 10 feet bgs based on the recent investigation. Therefore, there is no indication that hydrocarbons from the historical release have impacted the saturated zone.

6.0 RECOMMENDATIONS FOR REMEDIATION

Based on the results of the horizontal and vertical soil boring investigation conducted at the site, it appears that hydrocarbon impacted soils are present to depths of less

than 15 feet bgs. Given the NMOCD guideline cleanup standard of 1000 mg/kg TPH, an estimated 4,000 cubic yards of impacted soil and segregated clean overburden will require excavation. Because the horizontal impacts have not been fully defined, delineation samples will be collected commensurate with excavation and/or cleanup confirmation sampling activities.

The area with observed staining and where laboratory analytical results indicate that surface impacts do not extend to below 2 feet bgs will be addressed under the General Work Plan Scenario 1 involving the following procedures as were outlined in the approved General Remediation Work Plan and approved by NMOCD in the May 2006 NMOCD approval letter:

- 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.

Because the impacts greater than 1000 mg/kg TPH are limited in vertical extent (i.e. 10 to 15 feet in depth) these soils will be remediated under the General Work Plan Scenario 2 (surface restoration) involving the following procedures as were outlined in the approved General Remediation Work Plan and includes NMOCD conditions presented in the May 2006 NMOCD approval letter.

- Excavation of impacted soils to between 5 to 10 feet bgs or until site remediation standards are met.
- Collect and analyze soil samples from the walls and floor of the excavation to confirm that the remediation has met the site remediation standards.
- Relocation of the 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 the site guidelines.
- Backfill the excavation with soil treated to 1000 mg/kg TPH and restore the area to as close as possible to pre-spill conditions.

Should impacted soils be determined to be limited in extent based on additional delineation samples collected commensurate with excavation activities, the soils may be blended on site and stockpiled adjacent to the excavation pending approval of the NMOCD Project Manager.

Additionally, should areas where vertical hydrocarbon impacted soils extend below 15 feet bgs be determined based on analytical results commensurate with excavation activities, Plains recommends that the approved General Work Plan Closure Scenario 3 be applied. Under this scenario, an impermeable barrier consisting of an oversized 20-mil polyethylene liner will be permanently installed at a minimum depth of 10 feet to inhibit vertical migration of contaminants in soil left in place below the cap. A 3-foot wide clean area buffer will be established around the impacted soil in the floor of the excavation. The buffer extent will be determined using a calibrated

PID and confirmed by laboratory analysis of grab samples collected around the perimeter of the excavation. The liner shall be cushioned above and below with a 3 to 4-inch layer of sand or geotextile to protect it from puncture and tearing during the backfilling process. Installation of the 20-mil polyethylene liner at a minimum depth of 10 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminants in the soil.

The clean overburden and impacted soils be blended and utilized as backfill. Soil samples will be collected at a rate of one sample per 500 cubic yards to verify constituent concentrations of BTEX are below NMOCD guidelines and TPH-GRO/DRO are below 1000 mg/kg as approved for backfill over liners. Once the excavation has been confirmed to meet NMOCD standards or the installation of the 20-mil poly liner is completed, backfilling of the excavation will be initiated with the blended soil. The backfilled excavation will be contoured to the original grade surrounding the site and reseeded with approved grass seed.

A request for closure will be submitted to the NMOCD, upon completion of backfilling activities. Plains is requesting approval from NMOCD to implement these proposed final remediation and site closure activities.

7.0 QA/QC PROCEDURES

Soil Sampling

Soil samples will be delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil samples will be analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples will be analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox[®] detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

8.0 LIMITATIONS

SDG Environmental Services has prepared this Preliminary Investigation Report and Remediation Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

SDG Environmental Services has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. SDG Environmental Services has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. SDG Environmental Services has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. SDG Environmental Services also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Pipeline, L.P. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of SDG Environmental Services and Plains Pipeline, L.P.

DISTRIBUTION

Copy 1: Jeff Dann
Plains All American
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 2: Camille Reynolds
Plains All American
3112 W. Highway 82
Lovington, New Mexico 88260
cjreynolds@paalp.com

Copy 3: Mr. Ben Stone
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 88240
ed.martin@state.nm.us

Copy 6: Kenneth Cody
SDG Environmental Services
6611 Vialinda, Suite 204
Houston, Texas 77083
kcody@sdgenv.com

TABLE 1

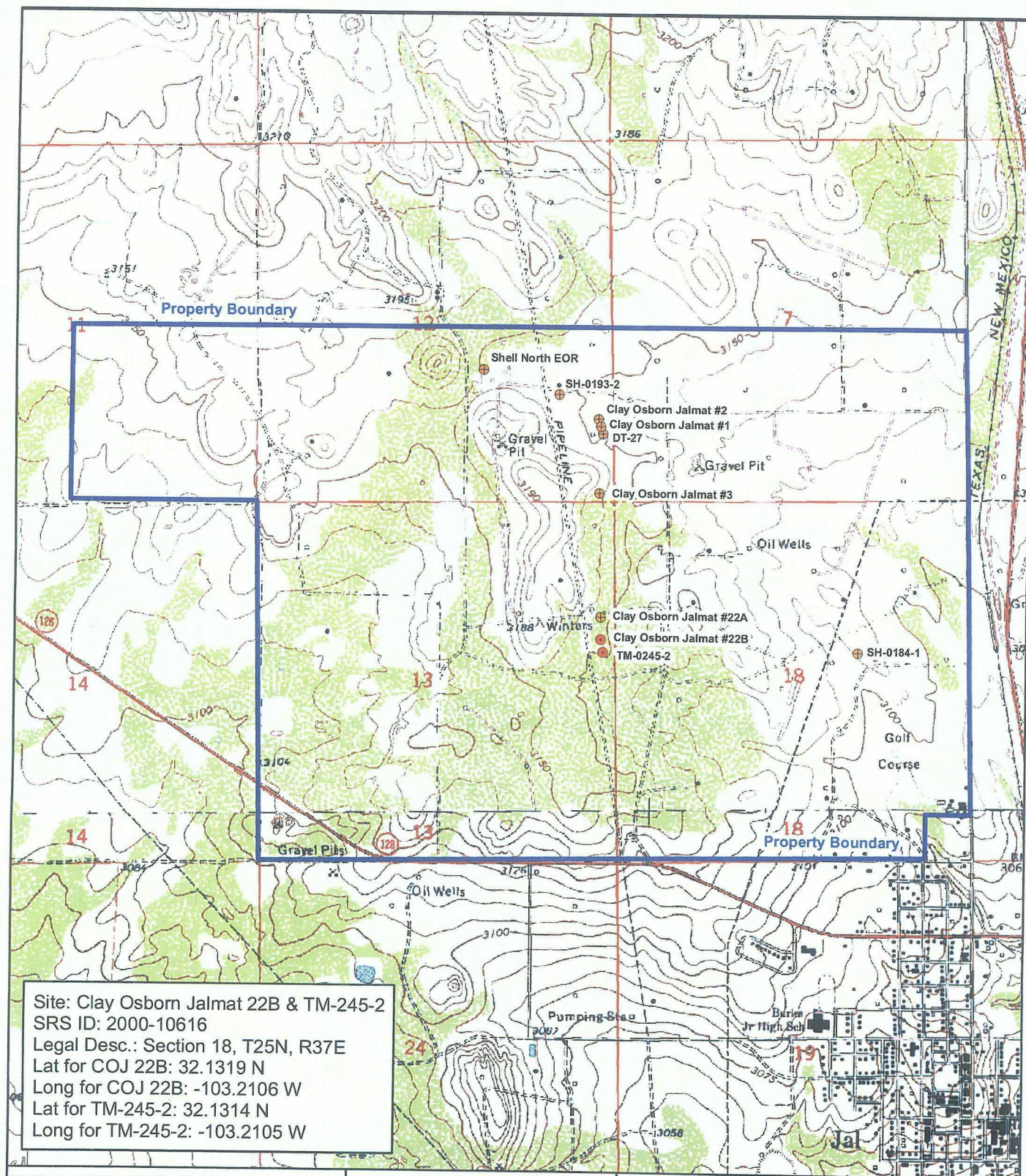
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

PLAINS PIPELINE, L. P.
Jalinal #22B and TM-0245-2
LEA COUNTY, NEW MEXICO
PLAINS SRS ID: 2000-10616

| SAMPLE LOCATION | DEPTH ft bgs | SAMPLE DATE | LABORATORY I.D. | METHOD: EPA SW 846-4021B, 5030 | | | | | METHOD: 8015M | | | | | TOTAL TPH |
|-----------------|--------------|-------------|-----------------|--------------------------------|-----------------|------------------------|----------------------|------------------|----------------|-----------------|-----------------|----------------|--|-----------|
| | | | | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL- BENZENE (mg/kg) | M.P. XYLENES (mg/kg) | O-XYLENE (mg/kg) | C6-C12 (mg/kg) | C12-C28 (mg/kg) | C28-C35 (mg/kg) | C6-C35 (mg/kg) | | |
| JM22B-SB1-2 | 2' | 05/23/06 | 6E24001-01 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 188 | 56.3 | 244 | | |
| JM22B-SB1-5 | 5' | 05/23/06 | 6E24001-02 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 336 | 54.3 | 390 | | |
| JM22B-SB1-10 | 10' | 05/23/06 | 6E24001-03 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 49.1 | <10 | 49.1 | | |
| JM22B-SB1-15 | 15' | 05/23/06 | 6E24001-04 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 171 | 22.6 | 194 | | |
| JM22B-SB1-18 | 18' | 05/23/06 | 6E24001-05 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB1-28 | 28' | 05/23/06 | 6E24001-06 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB1-40 | 40' | 05/23/06 | 6E24001-07 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB2-2 | 2' | 05/23/06 | 6E24001-08 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 20.2 | 5.53 J | 20.2 | | |
| JM22B-SB2-5 | 5' | 05/23/06 | 6E24001-09 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 50.1 | 115 | 616 | | |
| JM22B-SB2-10 | 10' | 05/23/06 | 6E24001-10 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB2-15 | 15' | 05/23/06 | 6E24001-11 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB2-20 | 20' | 05/23/06 | 6E24001-12 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB2-30 | 30' | 05/23/06 | 6E24001-13 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB3-2 | 2' | 05/23/06 | 6E24001-14 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 50.2 | 11 | 61.2 | | |
| JM22B-SB3-5 | 5' | 05/23/06 | 6E24001-15 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 1540 | 554 | 2130 | | |
| JM22B-SB3-10 | 10' | 05/23/06 | 6E24001-16 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | 14 | 170 | 23.6 | 206 | | |
| JM22B-SB3-15 | 15' | 05/23/06 | 6E24001-17 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB3-20 | 20' | 05/23/06 | 6E24001-18 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 71.4 | 8.77 J | 71.4 | | |
| JM22B-SB3-33 | 33' | 05/23/06 | 6E24001-19 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| JM22B-SB2-40 | 40' | 05/23/06 | 6E24001-20 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB1-2 | 2' | 05/22/06 | 6E24002-01 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | 56.4 | 3290 | 860 | 4210 | | |
| TM2-SB1-5 | 5' | 05/22/06 | 6E24002-02 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB1-10 | 10' | 05/22/06 | 6E24002-03 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB1-15 | 15' | 05/22/06 | 6E24002-04 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB1-20 | 20' | 05/22/06 | 6E24002-05 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB2-2 | 2' | 05/22/06 | 6E24002-06 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB2-5 | 5' | 05/22/06 | 6E24002-07 | <0.0250 | <0.0250 | <0.0250 | 0.0223 J | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB2-10 | 10' | 05/22/06 | 6E24002-08 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB2-15 | 15' | 05/22/06 | 6E24002-09 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB2-20 | 20' | 05/22/06 | 6E24002-10 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB3-2 | 2' | 05/22/06 | 6E26004-12 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 78 | 29.3 | 107 | | |
| TM2-SB3-5 | 5' | 05/22/06 | 6E26004-13 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 445 | 221 | 666 | | |
| TM2-SB3-10 | 10' | 05/22/06 | 6E26004-14 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB3-15 | 15' | 05/22/06 | 6E26004-15 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | <10 | <10 | <10 | | |
| TM2-SB3-20 | 20' | 05/22/06 | 6E26004-16 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <0.0250 | <10 | 65.6 | <10 | 65.6 | | |

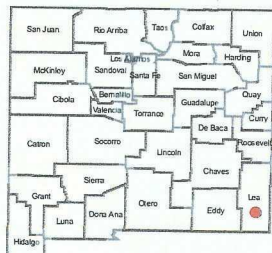
< indicates the constituent was not detected

J indicates estimated value (detected below method reporting limit)



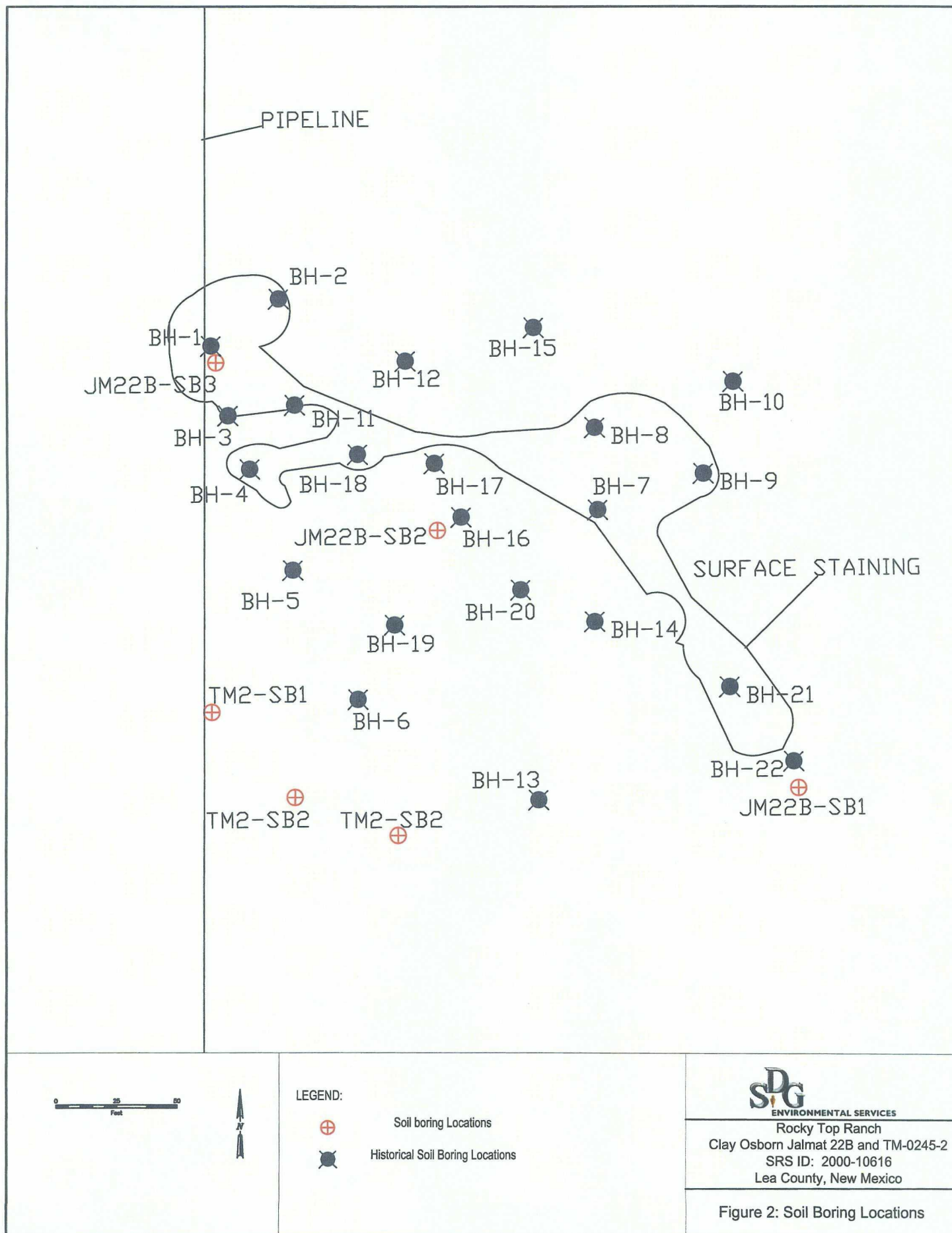
Map Source: USGS, Jal NW New Mexico Topographic Map, 1980.

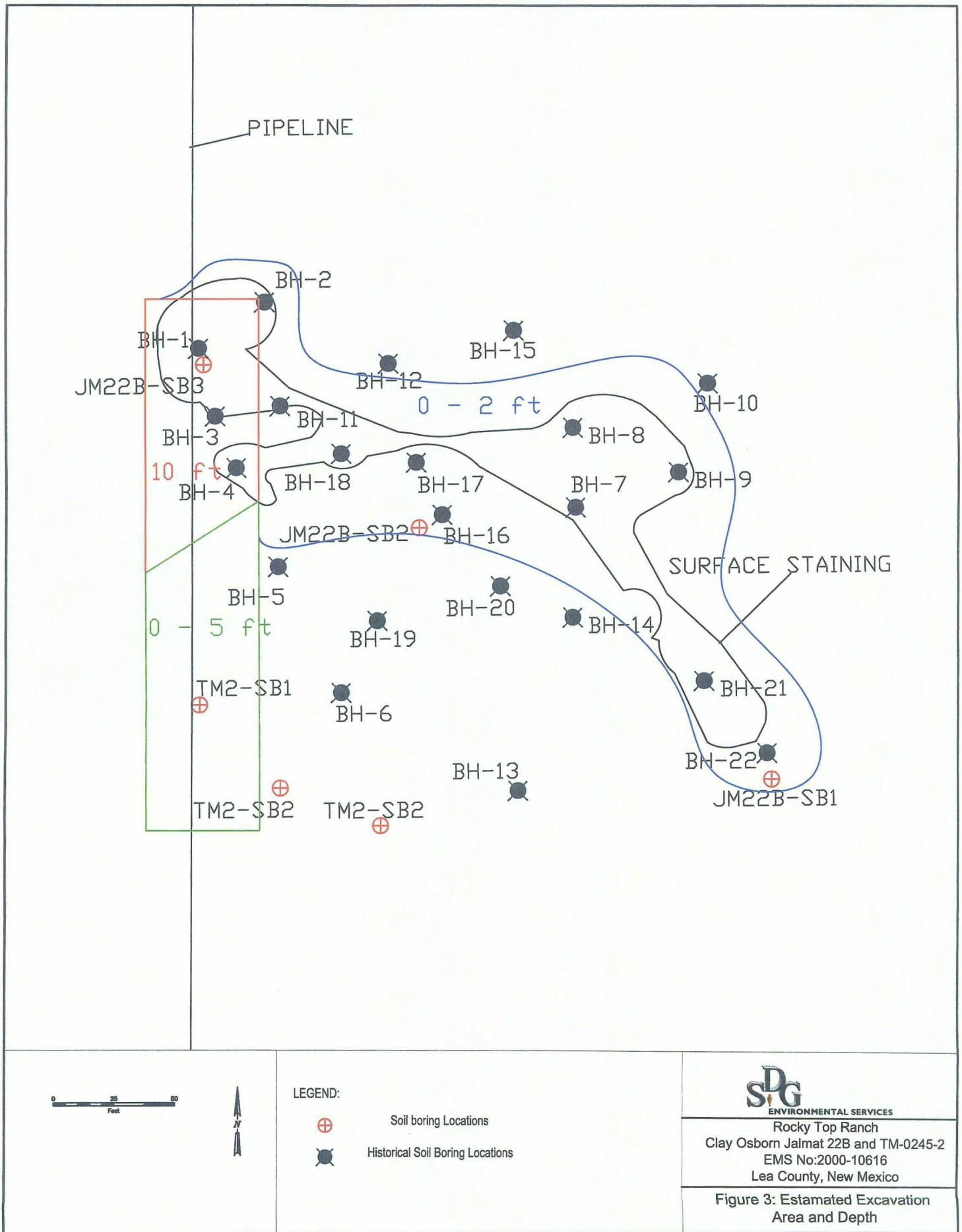
0 1,000 2,000
 Feet



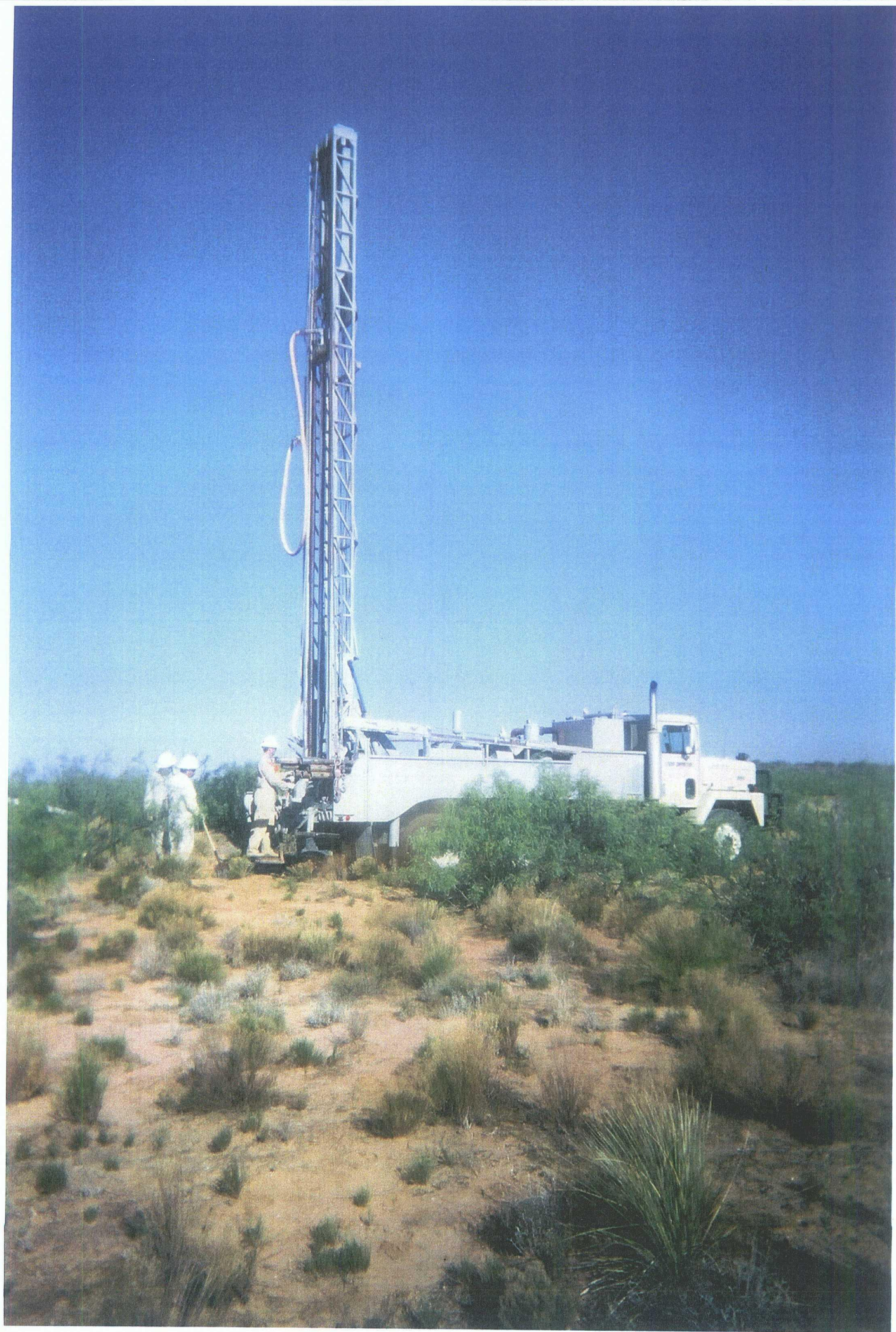
Clay Osborn Jalmat 22B & TM-245-2
 SRS ID: 2000-10616
 Plains Marketing L.P.
 Lea County, New Mexico

Figure 1: Site Location Map

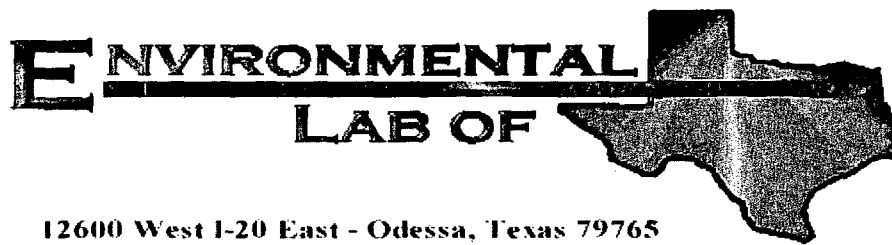




**APPENDIX A
SITE PHOTOGRAPHS**



APPENDIX B
ENVIRONMENTAL LABORATORY OF TEXAS
ANALYTICAL RESULTS



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 Clay Osborne #22B

Project Number: 2000-10616

Location: TM-0245-2

Lab Order Number: 6E24002

Report Date: 06/01/06

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|----------------|
| TM2- SB1- 2 | 6E24002-01 | Soil | 05/23/06 09:05 | 05/24/06 08:00 |
| TM2- SB1- 5 | 6E24002-02 | Soil | 05/23/06 09:10 | 05/24/06 08:00 |
| TM2- SB1- 10 | 6E24002-03 | Soil | 05/23/06 09:15 | 05/24/06 08:00 |
| TM2- SB1- 15 | 6E24002-04 | Soil | 05/23/06 09:20 | 05/24/06 08:00 |
| TM2- SB1- 20 | 6E24002-05 | Soil | 05/23/06 09:30 | 05/24/06 08:00 |
| TM2- SB2- 2 | 6E24002-06 | Soil | 05/23/06 10:15 | 05/24/06 08:00 |
| TM2- SB2- 5 | 6E24002-07 | Soil | 05/23/06 10:25 | 05/24/06 08:00 |
| TM2- SB2- 10 | 6E24002-08 | Soil | 05/23/06 10:35 | 05/24/06 08:00 |
| TM2- SB2- 15 | 6E24002-09 | Soil | 05/23/06 10:45 | 05/24/06 08:00 |
| TM2- SB2- 20 | 6E24002-10 | Soil | 05/23/06 10:55 | 05/24/06 08:00 |
| TM2- SB3- 2 | 6E24002-11 | Soil | 05/23/06 11:10 | 05/24/06 08:00 |
| TM2- SB3- 5 | 6E24002-12 | Soil | 05/23/06 11:15 | 05/24/06 08:00 |
| TM2- SB3- 10 | 6E24002-13 | Soil | 05/23/06 11:20 | 05/24/06 08:00 |
| TM2- SB3- 15 | 6E24002-14 | Soil | 05/23/06 11:25 | 05/24/06 08:00 |
| TM2- SB3- 20 | 6E24002-15 | Soil | 05/23/06 11:35 | 05/24/06 08:00 |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB1- 2 (6E24002-01) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 83.8 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | 56.4 | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 3290 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 860 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 4210 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 102 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 109 % | 70-130 | | " | " | " | " | |
| TM2- SB1- 5 (6E24002-02) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 94.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 92.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 82.4 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 85.6 % | 70-130 | | " | " | " | " | |
| TM2- SB1- 10 (6E24002-03) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 105 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |

Environmental Lab of Texas

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

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB1- 10 (6E24002-03) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 95.6 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 97.4 % | 70-130 | | " | " | " | " | |
| TM2- SB1- 15 (6E24002-04) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 106 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 108 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 99.2 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 103 % | 70-130 | | " | " | " | " | |
| TM2- SB1- 20 (6E24002-05) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 104 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 100 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 104 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB2- 2 (6E24002-06) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 95.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 94.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 117 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 120 % | 70-130 | | " | " | " | " | |
| TM2- SB2- 5 (6E24002-07) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | J [0.0223] | 0.0250 | " | " | " | " | " | " | J |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 97.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 105 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 25.8 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 131 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 98.2 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 102 % | 70-130 | | " | " | " | " | |
| TM2- SB2- 10 (6E24002-08) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 97.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB2- 10 (6E24002-08) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 95.4 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 97.4 % | 70-130 | | " | " | " | " | |
| TM2- SB2- 15 (6E24002-09) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 101 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 94.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 127 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 130 % | 70-130 | | " | " | " | " | |
| TM2- SB2- 20 (6E24002-10) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 72.2 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 73.6 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB3- 2 (6E24002-11) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 92.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 94.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 78.0 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 29.3 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 107 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 121 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 126 % | 70-130 | | " | " | " | " | |
| TM2- SB3- 5 (6E24002-12) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 94.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 87.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 445 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 221 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 666 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 129 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 130 % | 70-130 | | " | " | " | " | |
| TM2- SB3- 10 (6E24002-13) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 108 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| TM2- SB3- 10 (6E24002-13) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 89.2 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 93.8 % | 70-130 | | " | " | " | " | |
| TM2- SB3- 15 (6E24002-14) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 106 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 129 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 130 % | 70-130 | | " | " | " | " | |
| TM2- SB3- 20 (6E24002-15) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.8 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 89.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62506 | 05/25/06 | 05/29/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 65.6 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 65.6 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 98.6 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 103 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| TM2- SB1- 2 (6E24002-01) Soil | | | | | | | | | |
| % Moisture | 3.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB1- 5 (6E24002-02) Soil | | | | | | | | | |
| % Moisture | 1.6 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB1- 10 (6E24002-03) Soil | | | | | | | | | |
| % Moisture | 9.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB1- 15 (6E24002-04) Soil | | | | | | | | | |
| % Moisture | 2.4 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB1- 20 (6E24002-05) Soil | | | | | | | | | |
| % Moisture | 2.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB2- 2 (6E24002-06) Soil | | | | | | | | | |
| % Moisture | 10.4 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB2- 5 (6E24002-07) Soil | | | | | | | | | |
| % Moisture | 13.4 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB2- 10 (6E24002-08) Soil | | | | | | | | | |
| % Moisture | 12.0 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB2- 15 (6E24002-09) Soil | | | | | | | | | |
| % Moisture | 1.9 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB2- 20 (6E24002-10) Soil | | | | | | | | | |
| % Moisture | 24.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB3- 2 (6E24002-11) Soil | | | | | | | | | |
| % Moisture | 1.3 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| TM2- SB3- 5 (6E24002-12) Soil | | | | | | | | | |
| % Moisture | 6.7 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB3- 10 (6E24002-13) Soil | | | | | | | | | |
| % Moisture | 2.4 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB3- 15 (6E24002-14) Soil | | | | | | | | | |
| % Moisture | 5.6 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| TM2- SB3- 20 (6E24002-15) Soil | | | | | | | | | |
| % Moisture | 0.8 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE62506 - Solvent Extraction (GC)

Blank (EE62506-BLK1)

Prepared: 05/25/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| 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 Hydrocarbon nC6-nC35 | ND | 10.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 49.2 | | mg/kg | 50.0 | | 98.4 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 53.5 | | " | 50.0 | | 107 | 70-130 | | | |

LCS (EE62506-BS1)

Prepared: 05/25/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|--|
| Carbon Ranges C6-C12 | 567 | 10.0 | mg/kg wet | 500 | | 113 | 75-125 | | | |
| Carbon Ranges C12-C28 | 562 | 10.0 | " | 500 | | 112 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1130 | 10.0 | " | 1000 | | 113 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 54.4 | | mg/kg | 50.0 | | 109 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 50.5 | | " | 50.0 | | 101 | 70-130 | | | |

Calibration Check (EE62506-CCV1)

Prepared: 05/25/06 Analyzed: 05/29/06

| | | | | | | | | | | |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 271 | | mg/kg | 250 | | 108 | 80-120 | | | |
| Carbon Ranges C12-C28 | 290 | | " | 250 | | 116 | 80-120 | | | |
| Total Hydrocarbon nC6-nC35 | 561 | | " | 500 | | 112 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 47.2 | | " | 50.0 | | 94.4 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 46.4 | | " | 50.0 | | 92.8 | 70-130 | | | |

Matrix Spike (EE62506-MS1)

Source: 6E24002-15

Prepared: 05/25/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|------|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 486 | 10.0 | mg/kg dry | 504 | ND | 96.4 | 75-125 | | | |
| Carbon Ranges C12-C28 | 540 | 10.0 | " | 504 | 65.6 | 94.1 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1030 | 10.0 | " | 1010 | 65.6 | 95.5 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 48.4 | | mg/kg | 50.0 | | 96.8 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 46.1 | | " | 50.0 | | 92.2 | 70-130 | | | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EE62506 - Solvent Extraction (GC)

Matrix Spike Dup (EE62506-MSD1)

Source: 6E24002-15

Prepared: 05/25/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|------|------|--------|------|----|--|
| Carbon Ranges C6-C12 | 479 | 10.0 | mg/kg dry | 504 | ND | 95.0 | 75-125 | 1.45 | 20 | |
| Carbon Ranges C12-C28 | 526 | 10.0 | " | 504 | 65.6 | 91.3 | 75-125 | 2.63 | 20 | |
| Total Hydrocarbon nC6-nC35 | 1000 | 10.0 | " | 1010 | 65.6 | 92.5 | 75-125 | 2.96 | 20 | |
| Surrogate: 1-Chlorooctane | 47.8 | | mg/kg | 50.0 | | 95.6 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.3 | | " | 50.0 | | 90.6 | 70-130 | | | |

Batch EE63013 - EPA 5030C (GC)

Blank (EE63013-BLK1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.0250 | " | | | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | | | |
| Xylene (p/m) | ND | 0.0250 | " | | | | | | | |
| Xylene (o) | ND | 0.0250 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 38.3 | | ug/kg | 40.0 | | 95.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 38.5 | | " | 40.0 | | 96.2 | 80-120 | | | |

LCS (EE63013-BS1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | 1.15 | 0.0250 | mg/kg wet | 1.25 | | 92.0 | 80-120 | | | |
| Toluene | 1.14 | 0.0250 | " | 1.25 | | 91.2 | 80-120 | | | |
| Ethylbenzene | 1.18 | 0.0250 | " | 1.25 | | 94.4 | 80-120 | | | |
| Xylene (p/m) | 2.61 | 0.0250 | " | 2.50 | | 104 | 80-120 | | | |
| Xylene (o) | 1.28 | 0.0250 | " | 1.25 | | 102 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.3 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.2 | | " | 40.0 | | 103 | 80-120 | | | |

Calibration Check (EE63013-CCV1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene | 42.5 | | ug/kg | 50.0 | | 85.0 | 80-120 | | | |
| Toluene | 42.5 | | " | 50.0 | | 85.0 | 80-120 | | | |
| Ethylbenzene | 48.2 | | " | 50.0 | | 96.4 | 80-120 | | | |
| Xylene (p/m) | 95.0 | | " | 100 | | 95.0 | 80-120 | | | |
| Xylene (o) | 49.4 | | " | 50.0 | | 98.8 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.6 | | " | 40.0 | | 109 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 43.6 | | " | 40.0 | | 109 | 80-120 | | | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE63013 - EPA 5030C (GC)

| Matrix Spike (EE63013-MS1) | | Source: 6E24002-04 | | | Prepared & Analyzed: 05/30/06 | | | | | |
|-----------------------------------|------|--------------------|-----------|------|-------------------------------|------|--------|--|--|--|
| Benzene | 1.09 | 0.0250 | mg/kg dry | 1.28 | ND | 85.2 | 80-120 | | | |
| Toluene | 1.10 | 0.0250 | " | 1.28 | ND | 85.9 | 80-120 | | | |
| Ethylbenzene | 1.21 | 0.0250 | " | 1.28 | ND | 94.5 | 80-120 | | | |
| Xylene (p/m) | 2.62 | 0.0250 | " | 2.56 | ND | 102 | 80-120 | | | |
| Xylene (o) | 1.31 | 0.0250 | " | 1.28 | ND | 102 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 41.1 | | ug/kg | 40.0 | | 103 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.8 | | " | 40.0 | | 112 | 80-120 | | | |

| Matrix Spike Dup (EE63013-MSD1) | | Source: 6E24002-04 | | | Prepared & Analyzed: 05/30/06 | | | | | |
|-----------------------------------|------|--------------------|-----------|------|-------------------------------|------|--------|-------|----|--|
| Benzene | 1.08 | 0.0250 | mg/kg dry | 1.28 | ND | 84.4 | 80-120 | 0.943 | 20 | |
| Toluene | 1.09 | 0.0250 | " | 1.28 | ND | 85.2 | 80-120 | 0.818 | 20 | |
| Ethylbenzene | 1.21 | 0.0250 | " | 1.28 | ND | 94.5 | 80-120 | 0.00 | 20 | |
| Xylene (p/m) | 2.59 | 0.0250 | " | 2.56 | ND | 101 | 80-120 | 0.985 | 20 | |
| Xylene (o) | 1.29 | 0.0250 | " | 1.28 | ND | 101 | 80-120 | 0.985 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 43.0 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.7 | | " | 40.0 | | 112 | 80-120 | | | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:02

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

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

Batch EE62502 - General Preparation (Prep)

Blank (EE62502-BLK1) Prepared: 05/24/06 Analyzed: 05/25/06

% Solids 100 %

Duplicate (EE62502-DUP1) Source: 6E24002-01 Prepared: 05/24/06 Analyzed: 05/25/06

% Solids 96.3 % 96.5 0.207 20

Duplicate (EE62502-DUP2) Source: 6E24001-06 Prepared: 05/24/06 Analyzed: 05/25/06

% Solids 91.8 % 90.5 1.43 20

Duplicate (EE62502-DUP3) Source: 6E24006-07 Prepared: 05/24/06 Analyzed: 05/25/06

% Solids 89.7 % 90.9 1.33 20

Environmental Lab of Texas

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:02

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

6/1/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

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

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

Client: SDG / Plains

Date/Time: 5/24/06 8:00

Order #: 10E240

Initials: CK

Sample Receipt Checklist

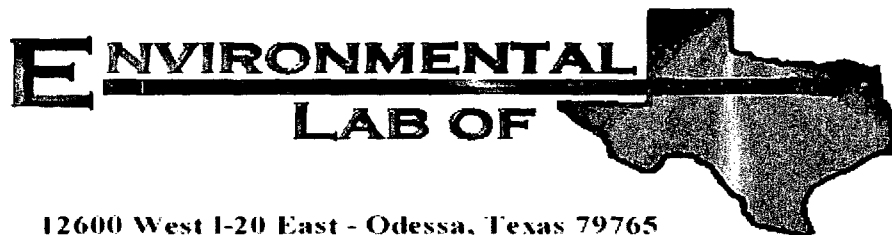
| | | | |
|---|------------|----|--------------------|
| Temperature of container/cooler? | Yes | No | <u>0.0</u> C |
| Shipping container/cooler in good condition? | <u>Yes</u> | No | |
| Custody Seals intact on shipping container/cooler? | <u>Yes</u> | No | Not present |
| Custody Seals intact on sample bottles? | Yes | No | <u>Not present</u> |
| Chain of custody present? | <u>Yes</u> | No | |
| Sample Instructions complete on Chain of Custody? | <u>Yes</u> | No | |
| Chain of Custody signed when relinquished and received? | <u>Yes</u> | No | |
| Chain of custody agrees with sample label(s) | <u>Yes</u> | No | |
| Container labels legible and intact? | <u>Yes</u> | No | |
| Sample Matrix and properties same as on chain of custody? | <u>Yes</u> | No | |
| Samples in proper container/bottle? | <u>Yes</u> | No | |
| Samples properly preserved? | <u>Yes</u> | No | |
| Sample bottles intact? | <u>Yes</u> | No | |
| Preservations documented on Chain of Custody? | <u>Yes</u> | No | |
| Containers documented on Chain of Custody? | <u>Yes</u> | No | |
| Sufficient sample amount for indicated test? | <u>Yes</u> | No | |
| All samples received within sufficient hold time? | <u>Yes</u> | No | |
| QC samples have zero headspace? | <u>Yes</u> | No | Not Applicable |

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Jalmat Clay Osborne #22B

Project Number: 2000-10616

Location: Jalmat 22B

Lab Order Number: 6E24001

Report Date: 06/01/06

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|----------------|----------------|
| JM22B- SB1- 2 | 6E24001-01 | Soil | 05/23/06 12:10 | 05/24/06 08:00 |
| JM22B- SB1- 5 | 6E24001-02 | Soil | 05/23/06 12:15 | 05/24/06 08:00 |
| JM22B- SB1- 10 | 6E24001-03 | Soil | 05/23/06 12:20 | 05/24/06 08:00 |
| JM22B- SB1- 15 | 6E24001-04 | Soil | 05/23/06 12:25 | 05/24/06 08:00 |
| JM22B- SB1- 18 | 6E24001-05 | Soil | 05/23/06 12:30 | 05/24/06 08:00 |
| JM22B- SB1- 28 | 6E24001-06 | Soil | 05/23/06 12:50 | 05/24/06 08:00 |
| JM22B- SB1- 40 | 6E24001-07 | Soil | 05/23/06 14:45 | 05/24/06 08:00 |
| JM22B- SB2- 2 | 6E24001-08 | Soil | 05/23/06 16:20 | 05/24/06 08:00 |
| JM22B- SB2- 5 | 6E24001-09 | Soil | 05/23/06 16:25 | 05/24/06 08:00 |
| JM22B- SB2- 10 | 6E24001-10 | Soil | 05/23/06 16:30 | 05/24/06 08:00 |
| JM22B- SB2- 15 | 6E24001-11 | Soil | 05/23/06 16:32 | 05/24/06 08:00 |
| JM22B- SB2- 20 | 6E24001-12 | Soil | 05/23/06 16:35 | 05/24/06 08:00 |
| JM22B- SB2- 30 | 6E24001-13 | Soil | 05/23/06 16:50 | 05/24/06 08:00 |
| JM22B- SB3- 2 | 6E24001-14 | Soil | 05/23/06 17:30 | 05/24/06 08:00 |
| JM22B- SB3- 5 | 6E24001-15 | Soil | 05/23/06 17:35 | 05/24/06 08:00 |
| JM22B- SB3- 10 | 6E24001-16 | Soil | 05/23/06 17:40 | 05/24/06 08:00 |
| JM22B- SB3- 15 | 6E24001-17 | Soil | 05/23/06 17:45 | 05/24/06 08:00 |
| JM22B- SB3- 20 | 6E24001-18 | Soil | 05/23/06 17:50 | 05/24/06 08:00 |
| JM22B- SB3- 33 | 6E24001-19 | Soil | 05/23/06 18:10 | 05/24/06 08:00 |
| JM22B- SB3- 40 | 6E24001-20 | Soil | 05/23/06 18:20 | 05/24/06 08:00 |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB1- 2 (6E24001-01) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.8 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 94.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 20.0 | mg/kg dry | 2 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 188 | 20.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 56.3 | 20.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 244 | 20.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 45.0 % | 70-130 | | " | " | " | " | S-06 |
| Surrogate: 1-Chlorooctadecane | | 46.2 % | 70-130 | | " | " | " | " | S-06 |
| JM22B- SB1- 5 (6E24001-02) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 97.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 89.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 336 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 54.3 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 390 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 111 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 113 % | 70-130 | | " | " | " | " | |
| JM22B- SB1- 10 (6E24001-03) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 83.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB1- 10 (6E24001-03) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | 49.1 | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 49.1 | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 93.0 % | 70-130 | | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 96.0 % | 70-130 | | " | " | " | " | |
| JM22B- SB1- 15 (6E24001-04) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 101 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 99.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 171 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 22.6 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 194 | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 95.8 % | 70-130 | | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 98.8 % | 70-130 | | " | " | " | " | |
| JM22B- SB1- 18 (6E24001-05) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 99.0 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 90.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 104 % | 70-130 | | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 103 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB1- 28 (6E24001-06) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62608 | 05/26/06 | 05/31/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 99.0 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 97.0 % | 70-130 | | " | " | " | " | |
| JM22B- SB1- 40 (6E24001-07) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 102 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 97.0 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 100 % | 70-130 | | " | " | " | " | |
| JM22B- SB2- 2 (6E24001-08) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 96.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 91.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|----------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB2- 2 (6E24001-08) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | 20.2 | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | J [5.53] | 10.0 | " | " | " | " | " | " | J |
| Total Hydrocarbon nC6-nC35 | 20.2 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 90.6 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 94.2 % | 70-130 | | " | " | " | " | |
| JM22B- SB2- 5 (6E24001-09) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 89.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 501 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 115 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 616 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 93.8 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 97.8 % | 70-130 | | " | " | " | " | |
| JM22B- SB2- 10 (6E24001-10) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 89.0 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 97.8 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 100 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB2- 15 (6E24001-11) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 102 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 90.4 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 93.8 % | 70-130 | | " | " | " | " | |
| JM22B- SB2- 20 (6E24001-12) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 97.2 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 88.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 97.0 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 100 % | 70-130 | | " | " | " | " | |
| JM22B- SB2- 30 (6E24001-13) Soil | | | | | | | | | |
| Benzene | J [0.00816] | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/29/06 | EPA 8021B | J |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 106 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 93.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB2- 30 (6E24001-13) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 95.4 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 98.0 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 2 (6E24001-14) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 111 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 93.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 50.2 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 11.0 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 61.2 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 97.0 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 100 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 5 (6E24001-15) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 82.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | 37.3 | 20.0 | mg/kg dry | 2 | EE62508 | 05/25/06 | 05/25/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 1540 | 20.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 554 | 20.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 2130 | 20.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 45.6 % | 70-130 | | " | " | " | " | S-06 |
| Surrogate: 1-Chlorooctadecane | | 47.0 % | 70-130 | | " | " | " | " | S-06 |

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB3- 10 (6E24001-16) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 100 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 87.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | 13.4 | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/26/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | 170 | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | 23.0 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | 206 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 91.8 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 94.2 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 15 (6E24001-17) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 95.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 95.5 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/26/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 87.4 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 90.4 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 20 (6E24001-18) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 98.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 95.2 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/26/06 | EPA 8015M | |

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|----------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| JM22B- SB3- 20 (6E24001-18) Soil | | | | | | | | | |
| Carbon Ranges C12-C28 | 71.4 | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/26/06 | EPA 8015M | |
| Carbon Ranges C28-C35 | J [8.77] | 10.0 | " | " | " | " | " | " | J |
| Total Hydrocarbon nC6-nC35 | 71.4 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 91.6 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 97.4 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 33 (6E24001-19) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE62604 | 05/29/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 93.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/30/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 90.8 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 94.0 % | 70-130 | | " | " | " | " | |
| JM22B- SB3- 40 (6E24001-20) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EE63013 | 05/30/06 | 05/30/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 99.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 82.8 % | 80-120 | | " | " | " | " | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EE62508 | 05/25/06 | 05/30/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon nC6-nC35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 93.0 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 95.8 % | 70-130 | | " | " | " | " | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| JM22B- SB1- 2 (6E24001-01) Soil | | | | | | | | | |
| % Moisture | 2.6 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 5 (6E24001-02) Soil | | | | | | | | | |
| % Moisture | 9.8 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 10 (6E24001-03) Soil | | | | | | | | | |
| % Moisture | 2.9 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 15 (6E24001-04) Soil | | | | | | | | | |
| % Moisture | 3.0 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 18 (6E24001-05) Soil | | | | | | | | | |
| % Moisture | 10.9 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 28 (6E24001-06) Soil | | | | | | | | | |
| % Moisture | 9.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB1- 40 (6E24001-07) Soil | | | | | | | | | |
| % Moisture | 7.0 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB2- 2 (6E24001-08) Soil | | | | | | | | | |
| % Moisture | 2.8 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB2- 5 (6E24001-09) Soil | | | | | | | | | |
| % Moisture | 13.2 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB2- 10 (6E24001-10) Soil | | | | | | | | | |
| % Moisture | 18.1 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB2- 15 (6E24001-11) Soil | | | | | | | | | |
| % Moisture | 3.4 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| JM22B- SB2- 20 (6E24001-12) Soil | | | | | | | | | |
| % Moisture | 4.9 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB2- 30 (6E24001-13) Soil | | | | | | | | | |
| % Moisture | 8.1 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 2 (6E24001-14) Soil | | | | | | | | | |
| % Moisture | 6.6 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 5 (6E24001-15) Soil | | | | | | | | | |
| % Moisture | 7.1 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 10 (6E24001-16) Soil | | | | | | | | | |
| % Moisture | 12.1 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 15 (6E24001-17) Soil | | | | | | | | | |
| % Moisture | 4.1 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 20 (6E24001-18) Soil | | | | | | | | | |
| % Moisture | 1.8 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 33 (6E24001-19) Soil | | | | | | | | | |
| % Moisture | 8.0 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |
| JM22B- SB3- 40 (6E24001-20) Soil | | | | | | | | | |
| % Moisture | 9.5 | 0.1 | % | 1 | EE62502 | 05/24/06 | 05/25/06 | % calculation | |

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE62508 - Solvent Extraction (GC)

Blank (EE62508-BLK1)

Prepared & Analyzed: 05/25/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| 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 Hydrocarbon nC6-nC35 | ND | 10.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 44.0 | | mg/kg | 50.0 | | 88.0 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 46.1 | | " | 50.0 | | 92.2 | 70-130 | | | |

LCS (EE62508-BS1)

Prepared & Analyzed: 05/25/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 539 | 10.0 | mg/kg wet | 500 | | 108 | 75-125 | | | |
| Carbon Ranges C12-C28 | 481 | 10.0 | " | 500 | | 96.2 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1020 | 10.0 | " | 1000 | | 102 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 47.6 | | mg/kg | 50.0 | | 95.2 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 44.0 | | " | 50.0 | | 88.0 | 70-130 | | | |

Calibration Check (EE62508-CCV1)

Prepared: 05/25/06 Analyzed: 05/26/06

| | | | | | | | | | | |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 283 | | mg/kg | 250 | | 113 | 80-120 | | | |
| Carbon Ranges C12-C28 | 295 | | " | 250 | | 118 | 80-120 | | | |
| Total Hydrocarbon nC6-nC35 | 578 | | " | 500 | | 116 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 48.0 | | " | 50.0 | | 96.0 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 47.6 | | " | 50.0 | | 95.2 | 70-130 | | | |

Matrix Spike (EE62508-MS1)

Source: 6E24001-07

Prepared & Analyzed: 05/25/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 578 | 10.0 | mg/kg dry | 538 | ND | 107 | 75-125 | | | |
| Carbon Ranges C12-C28 | 462 | 10.0 | " | 538 | ND | 85.9 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1040 | 10.0 | " | 1080 | ND | 96.3 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 51.6 | | mg/kg | 50.0 | | 103 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 48.3 | | " | 50.0 | | 96.6 | 70-130 | | | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EE62508 - Solvent Extraction (GC)

Matrix Spike Dup (EE62508-MSD1)

Source: 6E24001-07

Prepared & Analyzed: 05/25/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|----|------|--------|------|----|--|
| Carbon Ranges C6-C12 | 586 | 10.0 | mg/kg dry | 538 | ND | 109 | 75-125 | 1.37 | 20 | |
| Carbon Ranges C12-C28 | 471 | 10.0 | " | 538 | ND | 87.5 | 75-125 | 1.93 | 20 | |
| Total Hydrocarbon nC6-nC35 | 1060 | 10.0 | " | 1080 | ND | 98.1 | 75-125 | 1.90 | 20 | |
| Surrogate: 1-Chlorooctane | 52.3 | | mg/kg | 50.0 | | 105 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 48.7 | | " | 50.0 | | 97.4 | 70-130 | | | |

Batch EE62604 - EPA 5030C (GC)

Blank (EE62604-BLK1)

Prepared: 05/26/06 Analyzed: 05/29/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.0250 | " | | | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | | | |
| Xylene (p/m) | ND | 0.0250 | " | | | | | | | |
| Xylene (o) | ND | 0.0250 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 40.5 | | ug/kg | 40.0 | | 101 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 39.7 | | " | 40.0 | | 99.2 | 80-120 | | | |

LCS (EE62604-BS1)

Prepared: 05/26/06 Analyzed: 05/29/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | 1.13 | 0.0250 | mg/kg wet | 1.25 | | 90.4 | 80-120 | | | |
| Toluene | 1.12 | 0.0250 | " | 1.25 | | 89.6 | 80-120 | | | |
| Ethylbenzene | 1.22 | 0.0250 | " | 1.25 | | 97.6 | 80-120 | | | |
| Xylene (p/m) | 2.58 | 0.0250 | " | 2.50 | | 103 | 80-120 | | | |
| Xylene (o) | 1.29 | 0.0250 | " | 1.25 | | 103 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.0 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 43.9 | | " | 40.0 | | 110 | 80-120 | | | |

Calibration Check (EE62604-CCV1)

Prepared: 05/26/06 Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|--------|--|-----------|--------|--|------|--------|--|--|--|
| Benzene | 0.0458 | | mg/kg wet | 0.0500 | | 91.6 | 80-120 | | | |
| Toluene | 0.0457 | | " | 0.0500 | | 91.4 | 80-120 | | | |
| Ethylbenzene | 0.0471 | | " | 0.0500 | | 94.2 | 80-120 | | | |
| Xylene (p/m) | 0.104 | | " | 0.100 | | 104 | 80-120 | | | |
| Xylene (o) | 0.0514 | | " | 0.0500 | | 103 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.3 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.2 | | " | 40.0 | | 103 | 80-120 | | | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE62604 - EPA 5030C (GC)

Matrix Spike (EE62604-MS1)

Source: 6E24001-01

Prepared: 05/26/06 Analyzed: 05/30/06

| | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|--|--|
| Benzene | 1.26 | 0.0250 | mg/kg dry | 1.28 | ND | 98.4 | 80-120 | | |
| Toluene | 1.18 | 0.0250 | " | 1.28 | ND | 92.2 | 80-120 | | |
| Ethylbenzene | 1.28 | 0.0250 | " | 1.28 | ND | 100 | 80-120 | | |
| Xylene (p/m) | 2.72 | 0.0250 | " | 2.57 | ND | 106 | 80-120 | | |
| Xylene (o) | 1.36 | 0.0250 | " | 1.28 | ND | 106 | 80-120 | | |
| Surrogate: a,a,a-Trifluorotoluene | 45.8 | | ug/kg | 40.0 | | 114 | 80-120 | | |
| Surrogate: 4-Bromofluorobenzene | 44.5 | | " | 40.0 | | 111 | 80-120 | | |

Matrix Spike Dup (EE62604-MSD1)

Source: 6E24001-01

Prepared: 05/26/06 Analyzed: 05/30/06

| | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|-------|----|
| Benzene | 1.25 | 0.0250 | mg/kg dry | 1.28 | ND | 97.7 | 80-120 | 0.714 | 20 |
| Toluene | 1.17 | 0.0250 | " | 1.28 | ND | 91.4 | 80-120 | 0.871 | 20 |
| Ethylbenzene | 1.29 | 0.0250 | " | 1.28 | ND | 101 | 80-120 | 0.995 | 20 |
| Xylene (p/m) | 2.72 | 0.0250 | " | 2.57 | ND | 106 | 80-120 | 0.00 | 20 |
| Xylene (o) | 1.35 | 0.0250 | " | 1.28 | ND | 105 | 80-120 | 0.948 | 20 |
| Surrogate: a,a,a-Trifluorotoluene | 39.0 | | ug/kg | 40.0 | | 97.5 | 80-120 | | |
| Surrogate: 4-Bromofluorobenzene | 42.5 | | " | 40.0 | | 106 | 80-120 | | |

Batch EE62608 - Solvent Extraction (GC)

Blank (EE62608-BLK1)

Prepared: 05/26/06 Analyzed: 05/31/06

| | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|
| 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 Hydrocarbon nC6-nC35 | ND | 10.0 | " | | | | | | |
| Surrogate: 1-Chlorooctane | 47.6 | | mg/kg | 50.0 | | 95.2 | 70-130 | | |
| Surrogate: 1-Chlorooctadecane | 43.9 | | " | 50.0 | | 87.8 | 70-130 | | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE62608 - Solvent Extraction (GC)

LCS (EE62608-BS1)

Prepared: 05/26/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 585 | 10.0 | mg/kg wet | 500 | | 117 | 75-125 | | | |
| Carbon Ranges C12-C28 | 565 | 10.0 | " | 500 | | 113 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1150 | 10.0 | " | 1000 | | 115 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 55.9 | | mg/kg | 50.0 | | 112 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.0 | | " | 50.0 | | 90.0 | 70-130 | | | |

Calibration Check (EE62608-CCV1)

Prepared: 05/26/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|--|-------|------|--|-----|--------|--|--|--|
| Carbon Ranges C6-C12 | 297 | | mg/kg | 250 | | 119 | 80-120 | | | |
| Carbon Ranges C12-C28 | 299 | | " | 250 | | 120 | 80-120 | | | |
| Total Hydrocarbon nC6-nC35 | 596 | | " | 500 | | 119 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 63.9 | | " | 50.0 | | 128 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 62.4 | | " | 50.0 | | 125 | 70-130 | | | |

Matrix Spike (EE62608-MS1)

Source: 6E25029-23

Prepared: 05/26/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|------|------|--------|--|--|--|
| Carbon Ranges C6-C12 | 609 | 10.0 | mg/kg dry | 549 | 6.70 | 110 | 75-125 | | | |
| Carbon Ranges C12-C28 | 598 | 10.0 | " | 549 | 48.4 | 100 | 75-125 | | | |
| Total Hydrocarbon nC6-nC35 | 1210 | 10.0 | " | 1100 | 48.4 | 106 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 55.4 | | mg/kg | 50.0 | | 111 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 44.7 | | " | 50.0 | | 89.4 | 70-130 | | | |

Matrix Spike Dup (EE62608-MSD1)

Source: 6E25029-23

Prepared: 05/26/06 Analyzed: 05/31/06

| | | | | | | | | | | |
|-------------------------------|------|------|-----------|------|------|------|--------|-------|----|--|
| Carbon Ranges C6-C12 | 606 | 10.0 | mg/kg dry | 549 | 6.70 | 109 | 75-125 | 0.494 | 20 | |
| Carbon Ranges C12-C28 | 603 | 10.0 | " | 549 | 48.4 | 101 | 75-125 | 0.833 | 20 | |
| Total Hydrocarbon nC6-nC35 | 1210 | 10.0 | " | 1100 | 48.4 | 106 | 75-125 | 0.00 | 20 | |
| Surrogate: 1-Chlorooctane | 55.5 | | mg/kg | 50.0 | | 111 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.2 | | " | 50.0 | | 90.4 | 70-130 | | | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE63013 - EPA 5030C (GC)

Blank (EE63013-BLK1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.0250 | " | | | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | | | |
| Xylene (p/m) | ND | 0.0250 | " | | | | | | | |
| Xylene (o) | ND | 0.0250 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 38.3 | | ug/kg | 40.0 | | 95.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 38.5 | | " | 40.0 | | 96.2 | 80-120 | | | |

LCS (EE63013-BS1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | 1.15 | 0.0250 | mg/kg wet | 1.25 | | 92.0 | 80-120 | | | |
| Toluene | 1.14 | 0.0250 | " | 1.25 | | 91.2 | 80-120 | | | |
| Ethylbenzene | 1.18 | 0.0250 | " | 1.25 | | 94.4 | 80-120 | | | |
| Xylene (p/m) | 2.61 | 0.0250 | " | 2.50 | | 104 | 80-120 | | | |
| Xylene (o) | 1.28 | 0.0250 | " | 1.25 | | 102 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.3 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.2 | | " | 40.0 | | 103 | 80-120 | | | |

Calibration Check (EE63013-CCV1)

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene | 42.5 | | ug/kg | 50.0 | | 85.0 | 80-120 | | | |
| Toluene | 42.5 | | " | 50.0 | | 85.0 | 80-120 | | | |
| Ethylbenzene | 48.2 | | " | 50.0 | | 96.4 | 80-120 | | | |
| Xylene (p/m) | 95.0 | | " | 100 | | 95.0 | 80-120 | | | |
| Xylene (o) | 49.4 | | " | 50.0 | | 98.8 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 43.6 | | " | 40.0 | | 109 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 43.6 | | " | 40.0 | | 109 | 80-120 | | | |

Matrix Spike (EE63013-MS1)

Source: 6E24002-04

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|--|--|--|
| Benzene | 1.09 | 0.0250 | mg/kg dry | 1.28 | ND | 85.2 | 80-120 | | | |
| Toluene | 1.10 | 0.0250 | " | 1.28 | ND | 85.9 | 80-120 | | | |
| Ethylbenzene | 1.21 | 0.0250 | " | 1.28 | ND | 94.5 | 80-120 | | | |
| Xylene (p/m) | 2.62 | 0.0250 | " | 2.56 | ND | 102 | 80-120 | | | |
| Xylene (o) | 1.31 | 0.0250 | " | 1.28 | ND | 102 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 41.1 | | ug/kg | 40.0 | | 103 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.8 | | " | 40.0 | | 112 | 80-120 | | | |

Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EE63013 - EPA 5030C (GC)

Matrix Spike Dup (EE63013-MSD1)

Source: 6E24002-04

Prepared & Analyzed: 05/30/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|-------|----|--|
| Benzene | 1.08 | 0.0250 | mg/kg dry | 1.28 | ND | 84.4 | 80-120 | 0.943 | 20 | |
| Toluene | 1.09 | 0.0250 | " | 1.28 | ND | 85.2 | 80-120 | 0.818 | 20 | |
| Ethylbenzene | 1.21 | 0.0250 | " | 1.28 | ND | 94.5 | 80-120 | 0.00 | 20 | |
| Xylene (p/m) | 2.59 | 0.0250 | " | 2.56 | ND | 101 | 80-120 | 0.985 | 20 | |
| Xylene (o) | 1.29 | 0.0250 | " | 1.28 | ND | 101 | 80-120 | 0.985 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 43.0 | | ug/kg | 40.0 | | 108 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.7 | | " | 40.0 | | 112 | 80-120 | | | |

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

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

Fax: (432) 687-4914

Reported:
06/01/06 15:21

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|---------------------------------------|------------------|---------------------------------------|----------------|-------|--------------|-------|
| Batch EE62502 - General Preparation (Prep) | | | | | | | | | | |
| Blank (EE62502-BLK1) | | | | Prepared: 05/24/06 Analyzed: 05/25/06 | | | | | | |
| % Solids | 100 | | % | | | | | | | |
| Duplicate (EE62502-DUP1) | | | | Source: 6E24002-01 | | Prepared: 05/24/06 Analyzed: 05/25/06 | | | | |
| % Solids | 96.3 | | % | | 96.5 | | | 0.207 | 20 | |
| Duplicate (EE62502-DUP2) | | | | Source: 6E24001-06 | | Prepared: 05/24/06 Analyzed: 05/25/06 | | | | |
| % Solids | 91.8 | | % | | 90.5 | | | 1.43 | 20 | |
| Duplicate (EE62502-DUP3) | | | | Source: 6E24006-07 | | Prepared: 05/24/06 Analyzed: 05/25/06 | | | | |
| % Solids | 89.7 | | % | | 90.9 | | | 1.33 | 20 | |

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

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

Fax: (432) 687-4914
Reported:
06/01/06 15:21

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.

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

6/1/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

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

Environmental Lab of Texas

Variance / Corrective Action Report -- Sample Log-In

Client: SDG / Hains

Date/Time: 5/24/06 8:00

Order #: 10E240

Initials: CK

Sample Receipt Checklist

| | | | | |
|---|------------|----|--------------------|---|
| Temperature of container/cooler? | Yes | No | 0,0 | C |
| Shipping container/cooler in good condition? | <u>Yes</u> | No | | |
| Custody Seals intact on shipping container/cooler? | <u>Yes</u> | No | Not present | |
| Custody Seals intact on sample bottles? | Yes | No | <u>Not present</u> | |
| Chain of custody present? | <u>Yes</u> | No | | |
| Sample Instructions complete on Chain of Custody? | <u>Yes</u> | No | | |
| Chain of Custody signed when relinquished and received? | <u>Yes</u> | No | | |
| Chain of custody agrees with sample label(s) | <u>Yes</u> | No | | |
| Container labels legible and intact? | <u>Yes</u> | No | | |
| Sample Matrix and properties same as on chain of custody? | <u>Yes</u> | No | | |
| Samples in proper container/bottle? | <u>Yes</u> | No | | |
| Samples properly preserved? | <u>Yes</u> | No | | |
| Sample bottles intact? | <u>Yes</u> | No | | |
| Preservations documented on Chain of Custody? | <u>Yes</u> | No | | |
| Containers documented on Chain of Custody? | <u>Yes</u> | No | | |
| Sufficient sample amount for indicated test? | <u>Yes</u> | No | | |
| All samples received within sufficient hold time? | <u>Yes</u> | No | | |
| VOC samples have zero headspace? | <u>Yes</u> | No | Not Applicable | |

Other observations:

Variance Documentation:

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

Corrective Action Taken:

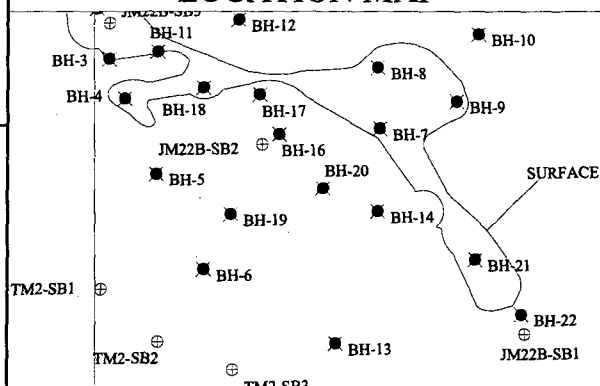
APPENDIX C
SOIL BORING LOGS



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER TM2-SB1
PROJECT 2000-10616 LOCATION Jal, N.M.
TOTAL BORING DEPTH 25' BOREHOLE DIA (in) 8.25"
DRILLING CO. Straub Drilling DRILLING METHOD HSA
GEOLOGIST Kenneth Cody DATE DRILLED 5/23/06
TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| INTERVAL | SAMPLE RECOVERY % | LOG | PID (ppm) | Sample | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----------|-------------------|-----|-----------|------------|--|---------------------------|
| 0 | | | | | Sand, tan, fine grained, well sorted, rounded, dry, with caliche | Faint odor No Staining |
| 2 | 100 | | 21.7 | TM2-SB1-2 | Sand, pink, fine grained, well sorted, rounded, dry, with caliche and some fine gravel | |
| 4 | 100 | | 9.6 | TM2-SB2-5 | | Faint odor No Staining |
| 6 | | | | | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | |
| 8 | | | | | | |
| 10 | 100 | | 0.0 | TM2-SB2-10 | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 12 | | | | | | |
| 14 | 100 | | 0.0 | TM2-SB2-15 | | No odor No Staining |
| 16 | | | | | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | |
| 18 | | | | | | |
| 20 | 100 | | 0.0 | TM2-SB2-20 | Gravel, fine to coarse, with sandstone, tan | No odor No Staining |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | TD= 25' | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |
| 38 | | | | | | |
| 40 | | | | | | |



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER TM2-SB2

PROJECT 2000-10616 LOCATION Jal, N.M.

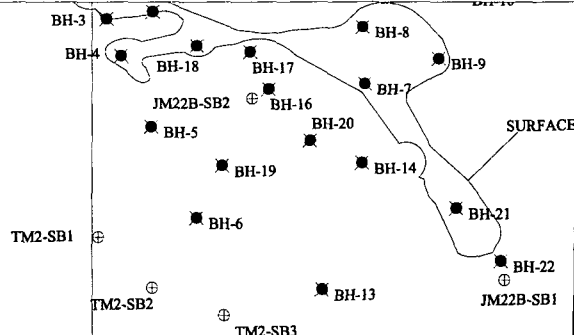
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/23/06

TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| | INTERVAL | SAMPLE RECOVERY % | LOG | PID (ppm) | Sample | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----|----------|-------------------|-----|-----------|------------|--|---------------------------|
| 0 | | | | | | Sand, tan, fine grained, well sorted, rounded, dry, with caliche | No odor No Staining |
| 2 | | 100 | | 21.7 | TM2-SB2-2 | Sand, pink, fine grained, well sorted, rounded, dry, with caliche and some fine gravel | Faint odor No Staining |
| 4 | | 100 | | 11.1 | TM2-SB2-5 | Sand, tan, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | 100 | | 7.3 | TM2-SB2-10 | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 12 | | | | | | | |
| 14 | | 100 | | 28.7 | TM2-SB2-15 | Gravel, fine to coarse, with sand, red, fine grained, well sorted, rounded, dry. | No odor No Staining |
| 16 | | | | | | | |
| 18 | | | | | | Gravel, fine to coarse, with sand, tan, fine grained, well sorted, rounded, dry. | No odor No Staining |
| 20 | | 100 | | | TM2-SB2-20 | | No odor No Staining |
| 22 | | | | | | TD= 20' | |
| 24 | | | | | | | |
| 26 | | | | | | | |
| 28 | | | | | | | |
| 30 | | | | | | | |
| 32 | | | | | | | |
| 34 | | | | | | | |
| 36 | | | | | | | |
| 38 | | | | | | | |
| 40 | | | | | | | |



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER TM2-SB3

PROJECT 2000-10616 LOCATION Jal, N.M.

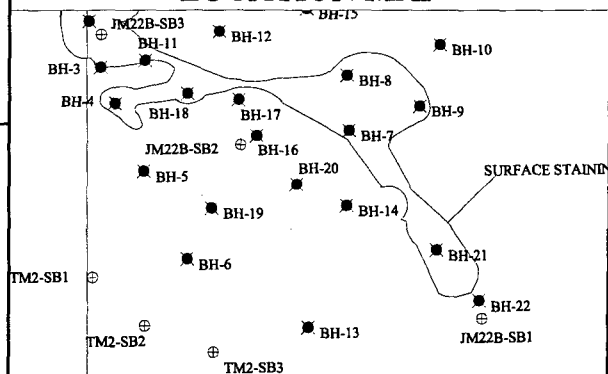
TOTAL BORING DEPTH 20' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/23/06

TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| INTERVAL | RECOVERY % | LOG | PID (ppm) | Sample | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----------|------------|-----|-----------|------------|--|----------------------------|
| 0 | | | | | Sand, tan, fine grained, well sorted, rounded, dry, with caliche | Slight odor No Staining |
| 2 | 100 | | 31.1 | TM2-SB3-2 | Sand, pink, fine grained, well sorted, rounded, dry, with caliche and some fine gravel | No odor No Staining |
| 4 | 100 | | 13.7 | TM2-SB3-5 | Sand, tan, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | 100 | | 12.5 | TM2-SB3-10 | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 12 | | | | | | |
| 14 | 100 | | 8.1 | TM2-SB3-15 | Gravel, fine to coarse, with sand, red, fine grained, well sorted, rounded, dry. | No odor No Staining |
| 16 | | | | | | |
| 18 | | | | | Sandstone, tan well consolidated | No odor No Staining |
| 20 | 100 | | | TM2-SB3-20 | | No odor No Staining |
| 22 | | | | | TD= 20' | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |
| 38 | | | | | | |
| 40 | | | | | | |



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER JM22B-SB1

PROJECT 2000-10616

LOCATION Jal, N.M.

TOTAL BORING DEPTH 75'

BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling

DRILLING METHOD HSA

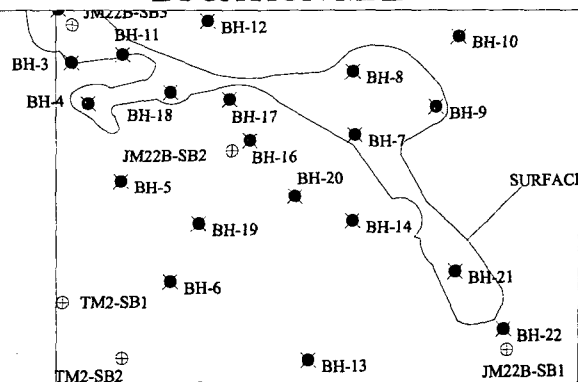
GEOLOGIST Kenneth Cody

DATE DRILLED 5/23/06

TOP OF CASING ELEV. (ft) N/A

GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| INTERVAL | SAMPLE RECOVERY % | LOG | PID (ppm) | Sample | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----------|-------------------|-----|-----------|------------|---|---------------------------|
| 0 | | | | | Sand, red, fine grained, well sorted, rounded, dry. | No odor No Staining |
| 2 | 100 | | 0.0 | TM2-SB2-2 | Sand, tan, fine grained, well sorted, rounded, dry, with caliche and some fine gravel | No odor No Staining |
| 4 | 100 | | 0.0 | TM2-SB2-5 | | No odor No Staining |
| 6 | | | | | Sand, pink, fine grained, well sorted, rounded, dry, with some fine gravel | No odor No Staining |
| 8 | | | | | | |
| 10 | 100 | | 0.0 | TM2-SB2-10 | Sand, pink, fine grained, well sorted, rounded, dry, with some fine and coarse gravel | Faint odor No Staining |
| 12 | | | | | | |
| 14 | 100 | | 0.0 | TM2-SB2-15 | Gravel and sand, red, fine grained, well sorted, rounded, dry. | |
| 16 | 0 | | | | | |
| 18 | 100 | | | TM2-SB2-18 | Sandstone, tan well consolidated | No odor No Staining |
| 20 | | | | | Sandstone, tan well consolidated, drill through | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | 100 | | | TM2-SB2-28 | Sandstone, tan well consolidated, with some fine gravel. | No odor No Staining |
| 30 | | | | | Sandstone, tan well consolidated, interbedded with sandy clay, red, dense, hard dry. | No odor No Staining |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |
| 38 | | | | | | |
| 40 | 100 | | | TM2-SB2-40 | | No odor No Staining |



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER JM22B-SB1

PROJECT 2000-10616 LOCATION Jal, N.M.

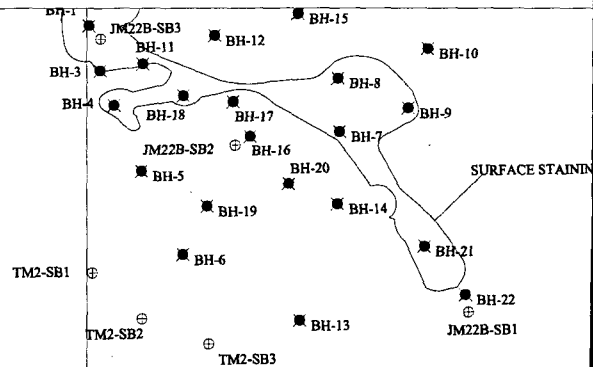
TOTAL BORING DEPTH 75' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straub Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/23/06

TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| INTERVAL | SAMPLE RECOVERY % | LOG | PID (ppm) | Sample | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----------|-------------------|-----|-----------|-------------|--|------------------------|
| 40 | 100 | | 0.0 | JM22-SB1-40 | Sandstone, tan well consolidated, interbedded with sandy clay, red, dense, hard dry. | No odor No Staining |
| 42 | | | | | | |
| 44 | | | | | | |
| 46 | | | | | | |
| 48 | | | | | | |
| 50 | | | | | Sandstone, tan well consolidated, interbedded with silty clay, red, dense, hard dry. | No odor No Staining |
| 52 | | | | | | |
| 54 | | | | | | |
| 56 | | | | | | |
| 58 | | | | | | |
| 60 | | | | | | |
| 62 | | | | | | |
| 64 | | | | | | |
| 66 | | | | | | |
| 68 | | | | | | |
| 70 | | | | | | |
| 72 | | | | | | |
| 74 | | | | | | No odor No Staining |
| 76 | | | | | TD= 75' | |
| 78 | | | | | | |
| 80 | | | | | | |



ENVIRONMENTAL SERVICES

SOIL BORING NUMBER JM22B-SB2

PROJECT 2000-10616 LOCATION Jal, N.M.

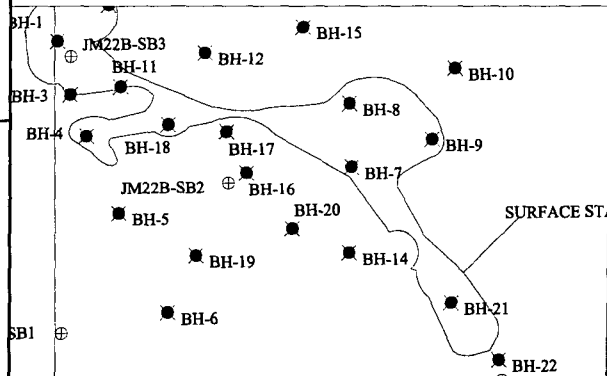
TOTAL BORING DEPTH 30' BOREHOLE DIA (in) 8.25"

DRILLING CO. Straun Drilling DRILLING METHOD HSA

GEOLOGIST Kenneth Cody DATE DRILLED 5/23/06

TOP OF CASING ELEV. (ft) N/A GROUND SURFACE ELV. (ft) N/A

LOCATION MAP



| | INTERVAL | SAMPLE RECOVERY % | LOG | PID (ppm) | SAMPLE | LITHOLOGIC DESCRIPTION/COMMENTS | REMARKS |
|----|----------|-------------------|-----|-----------|--------------|--|----------------------------|
| 0 | | | | | | | |
| 2 | | 100 | | 0.0 | JM22B-SB2-2 | Sand, pink, fine grained, well sorted, well rounded, with caliche | No odor No Staining |
| 4 | | 100 | | 14.7 | JM22B-SB2-5 | Sand, tan, fine grained, well sorted, well rounded, with caliche | Slight odor No Staining |
| 6 | | | | | | Sand, red, fine grained, well sorted, well rounded, dry. | Slight odor No Staining |
| 10 | | 100 | | 1.1 | JM22B-SB2-10 | Sand, red, fine grained, well sorted, well rounded, some fine gravel. | No odor No Staining |
| 14 | | 100 | | 0.0 | JM22B-SB2-15 | Sand, red to pink, fine grained, well sorted, well rounded, increasing gravel. | No odor No Staining |
| 20 | | 100 | | 0.0 | JM22B-SB2-20 | Gravel | No odor No Staining |
| 22 | | | | | | Tan sandstone, well consolidated | |
| 30 | | 100 | | 0.0 | JM22B-SB2-30 | Sandy clay, red, dense, strong, dry, interbedded with gravel | No odor No Staining |
| 32 | | | | | | TD= 30' | |
| 34 | | | | | | | |
| 36 | | | | | | | |
| 38 | | | | | | | |
| 40 | | | | | | | |

APPENDIX D
EPI August 2000 Soil Sample Results

E.O.T.T. Energy Pipeline Clay Osborn Jalmat #22B

| Boothole | Sampling Interval (FT, BGS) ¹ | SAMPLE ID# | Date | Lithology | HEADSPACE VOC ² (ppm) | GRO ³ mg/Kg | DRO ⁴ mg/Kg | TPH ⁵ mg/Kg | BTEX mg/Kg | Benzene mg/Kg | Toluene mg/Kg | Ethyl Benzene mg/Kg | m,p-Xylene mg/Kg | o-Xylene mg/Kg |
|----------|--|--------------|----------|-----------|----------------------------------|------------------------|------------------------|------------------------|------------|---------------|---------------|---------------------|------------------|----------------|
| 1 | 2 | EC022BGP1-02 | 8/4/2000 | Sand | 1.7 | 50 | 50 | 100.0 | 0.139 | 0.025 | 0.039 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP1-05 | 8/4/2000 | Sand | 5.2 | 50 | 749 | 799.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP1-10 | 8/4/2000 | Sand | 22.0 | 114 | 2119 | 2233.0 | 0.161 | 0.025 | 0.061 | 0.025 | 0.025 | 0.025 |
| 2 | 15 | EC022BGP1-15 | 8/4/2000 | Sand | 0.2 | 107 | 2100 | 2207.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP2-02 | 8/4/2000 | Sand | 1.1 | 10 | 56 | 66.0 | 0.130 | 0.025 | 0.030 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP2-05 | 8/4/2000 | Sand | 1.1 | 10 | 11 | 21.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 3 | 10 | EC022BGP2-10 | 8/4/2000 | Sand | 0.5 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP2-15 | 8/4/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.128 | 0.025 | 0.028 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP3-02 | 8/4/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 4 | 5 | EC022BGP3-05 | 8/4/2000 | Sand | 0.0 | 10 | 100 | 110.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP3-10 | 8/4/2000 | Sand | 0.0 | 10 | 13 | 23.0 | 0.786 | 0.055 | 0.131 | 0.145 | 0.323 | 0.132 |
| | 15 | EC022BGP3-15 | 8/4/2000 | Sand | 0.0 | 10 | 31 | 41.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 5 | 2 | EC022BGP4-02 | 8/4/2000 | Sand | 0.0 | 10 | 35 | 45.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP4-05 | 8/4/2000 | Sand | 0.0 | 10 | 51 | 61.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP4-10 | 8/4/2000 | Sand | 0.0 | 10 | 1059 | 1069.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 6 | 15 | EC022BGP4-15 | 8/4/2000 | Sand | 0.0 | 10 | 809 | 819.0 | 0.133 | 0.025 | 0.033 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP5-02 | 8/4/2000 | Sand | 0.0 | 10 | 28 | 38.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP5-05 | 8/4/2000 | Sand | 0.0 | 10 | 57 | 67.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 7 | 10 | EC022BGP5-10 | 8/4/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP5-15 | 8/4/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP6-02 | 8/7/2000 | Sand | 0.0 | 50 | 50 | 100.0 | 0.213 | 0.025 | 0.103 | 0.025 | 0.032 | 0.028 |
| 8 | 5 | EC022BGP6-05 | 8/7/2000 | Sand | 0.0 | 10 | 17 | 27.0 | 0.180 | 0.025 | 0.080 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP6-10 | 8/7/2000 | Sand | 0.0 | 10 | 128 | 138.0 | 0.129 | 0.025 | 0.029 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP6-15 | 8/7/2000 | Sand | 0.0 | 10 | 139 | 149.0 | 4.860 | 0.025 | 4.760 | 0.025 | 0.025 | 0.025 |
| 9 | 2 | EC022BGP7-02 | 8/7/2000 | Sand | 0.0 | 100 | 152 | 232.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP7-05 | 8/7/2000 | Sand | 0.0 | 10 | 43 | 53.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP7-10 | 8/7/2000 | Sand | 0.0 | 10 | 259 | 269.0 | 0.202 | 0.025 | 0.079 | 0.034 | 0.025 | 0.039 |
| 10 | 15 | EC022BGP7-15 | 8/7/2000 | Sand | 0.0 | 10 | 274 | 284.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP8-02 | 8/7/2000 | Sand | 0.0 | 10 | 45 | 55.0 | 0.469 | 0.025 | 0.177 | 0.025 | 0.170 | 0.072 |
| | 5 | EC022BGP8-05 | 8/7/2000 | Sand | 0.0 | 10 | 27 | 37.0 | 0.347 | 0.028 | 0.128 | 0.053 | 0.086 | 0.052 |
| 11 | 10 | EC022BGP8-10 | 8/7/2000 | Sand | 0.0 | 10 | 26 | 36.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP8-15 | 8/7/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.269 | 0.025 | 0.118 | 0.025 | 0.063 | 0.038 |

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₈⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat #22B

| Borehole | Sampling Interval (FT, BGS ¹) | SAMPLE ID# | Date Taken | Lithology | HEADSPACE VOC ² (ppm) | GRO ³ mg/Kg | DRO ⁴ mg/Kg | TPH ⁵ mg/Kg | BTEX mg/Kg | Benzene mg/Kg | Toluene mg/Kg | Ethyl Benzene mg/Kg | m,p-Xylene mg/Kg | o-Xylene mg/Kg |
|----------|---|---------------|------------|-----------|----------------------------------|------------------------|------------------------|------------------------|------------|---------------|---------------|---------------------|------------------|----------------|
| 9 | 2 | EC022BGP9-02 | 8/7/2000 | Sand | 0.0 | 10 | 83 | 93.0 | 0.191 | 0.025 | 0.091 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP9-05 | 8/7/2000 | Sand | 0.0 | 10 | 69 | 79.0 | 0.130 | 0.025 | 0.030 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP9-10 | 8/7/2000 | Sand | 0.0 | 10 | 930 | 940.0 | 0.659 | 0.025 | 0.122 | 0.083 | 0.291 | 0.138 |
| | 15 | EC022BGP9-15 | 8/7/2000 | Sand | 0.0 | 10 | 924 | 934.0 | 0.264 | 0.025 | 0.060 | 0.034 | 0.089 | 0.056 |
| | 2 | EC022BGP10-02 | 8/7/2000 | Sand | 0.0 | 10 | 25 | 35.0 | 0.590 | 0.025 | 0.129 | 0.077 | 0.112 | 0.112 |
| 10 | 5 | EC022BGP10-05 | 8/7/2000 | Sand | 0.0 | 10 | 81 | 91.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP10-10 | 8/7/2000 | Sand | 0.0 | 10 | 67 | 77.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP10-15 | 8/7/2000 | Sand | 0.0 | 10 | 32 | 42.0 | 0.170 | 0.025 | 0.070 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP11-02 | 8/7/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.593 | 0.025 | 0.078 | 0.029 | 0.061 | 0.400 |
| | 5 | EC022BGP11-05 | 8/7/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.500 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 11 | 10 | EC022BGP11-10 | 8/7/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP11-15 | 8/7/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP12-02 | 8/9/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP12-05 | 8/9/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP12-10 | 8/9/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.126 | 0.025 | 0.026 | 0.025 | 0.025 | 0.025 |
| 12 | 15 | EC022BGP12-15 | 8/9/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP13-02 | 8/9/2000 | Sand | 0.0 | 10 | 10 | 20.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP13-05 | 8/9/2000 | Sand | 0.0 | 10 | 14 | 24.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP13-10 | 8/9/2000 | Sand | 0.0 | 10 | 512 | 522.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP13-15 | 8/9/2000 | Sand | 0.0 | 10 | 497 | 507.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 13 | 2 | EC022BGP14-02 | 8/9/2000 | Sand | 0.0 | 10 | 38 | 48.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP14-05 | 8/9/2000 | Sand | 0.0 | 10 | 26 | 36.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP14-10 | 8/9/2000 | Sand | 0.0 | 10 | 103 | 113.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP14-15 | 8/9/2000 | Sand | 0.0 | 10 | 140 | 150.0 | 0.128 | 0.025 | 0.025 | 0.025 | 0.028 | 0.025 |
| | 2 | EC022BGP15-02 | 8/9/2000 | Sand | 0.0 | 10 | 40 | 50.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 15 | 5 | EC022BGP15-05 | 8/9/2000 | Sand | 0.0 | 10 | 14 | 24.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP15-10 | 8/9/2000 | Sand | 0.0 | 10 | 275 | 285.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP15-15 | 8/9/2000 | Sand | 0.0 | 10 | 305 | 315.0 | 0.136 | 0.025 | 0.036 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP16-02 | 8/9/2000 | Sand | 0.0 | 10 | 87 | 97.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP16-05 | 8/9/2000 | Sand | 0.0 | 10 | 219 | 229.0 | 0.156 | 0.025 | 0.056 | 0.025 | 0.025 | 0.025 |
| 16 | 10 | EC022BGP16-10 | 8/9/2000 | Sand | 0.0 | 10 | 1319 | 1329.0 | 0.134 | 0.025 | 0.025 | 0.025 | 0.034 | 0.025 |
| | 15 | EC022BGP16-15 | 8/9/2000 | Sand | 0.0 | 10 | 1407 | 1417.0 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₈⁵TPH-Total Petroleum Hydrocarbon = GRO + DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat #22B

| Borehole | Sampling Interval (ft. BGS ¹) | SAMPLE ID# | Date Taken | Lithology | HEADSPACE | | GRO ¹ mg/Kg | DRO ⁴ mg/Kg | TPH ⁵ mg/Kg | BTX mg/Kg | Benzene mg/Kg | Toluene mg/Kg | Ethyl Benzene mg/Kg | m,p-Xylene mg/Kg | o-Xylene mg/Kg |
|----------|---|---------------|------------|-----------|------------------------|--|------------------------|------------------------|------------------------|-----------|---------------|---------------|---------------------|------------------|----------------|
| | | | | | VOC ² (ppm) | | | | | | | | | | |
| 17 | 2 | EC022BGP17-02 | 8/9/2000 | Sand | 0.0 | | 10 | 66 | 76,000 | 0.131 | 0.025 | 0.031 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP17-05 | 8/9/2000 | Sand | 0.0 | | 10 | 44 | 54,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP17-10 | 8/9/2000 | Sand | 0.0 | | 10 | 90 | 100,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP17-15 | 8/9/2000 | Sand | 0.0 | | 10 | 101 | 111,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP18-02 | 8/10/2000 | Sand | 0.0 | | 10 | 60 | 70,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 18 | 5 | EC022BGP18-05 | 8/10/2000 | Sand | 0.0 | | 10 | 10 | 20,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP18-10 | 8/10/2000 | Sand | 0.0 | | 10 | 20 | 30,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP18-15 | 8/10/2000 | Sand | 0.0 | | 10 | 31 | 41,000 | 0.136 | 0.035 | 0.036 | 0.035 | 0.025 | 0.025 |
| | 2 | EC022BGP19-02 | 8/10/2000 | Sand | 0.0 | | 10 | 12 | 22,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP19-05 | 8/10/2000 | Sand | 0.0 | | 10 | 25 | 35,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 19 | 10 | EC022BGP19-10 | 8/10/2000 | Sand | 0.0 | | 10 | 303 | 313,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP19-15 | 8/10/2000 | Sand | 0.0 | | 10 | 300 | 310,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP20-02 | 8/10/2000 | Sand | 0.0 | | 10 | 10 | 20,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP20-05 | 8/10/2000 | Sand | 0.0 | | 10 | 10 | 20,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP20-15 | 8/10/2000 | Sand | 0.0 | | 10 | 27 | 37,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 20 | 2 | EC022BGP21-02 | 8/10/2000 | Sand | 0.0 | | 10 | 22 | 32,000 | 0.134 | 0.025 | 0.034 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP21-05 | 8/10/2000 | Sand | 0.0 | | 10 | 21 | 31,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP21-10 | 8/10/2000 | Sand | 0.0 | | 10 | 36 | 46,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP21-15 | 8/10/2000 | Sand | 0.0 | | 10 | 10 | 20,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP22-02 | 8/10/2000 | Sand | 0.0 | | 10 | 136 | 146,000 | 0.137 | 0.025 | 0.037 | 0.025 | 0.025 | 0.025 |
| 21 | 5 | EC022BGP22-05 | 8/10/2000 | Sand | 0.0 | | 10 | 86 | 96,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 10 | EC022BGP22-10 | 8/10/2000 | Sand | 0.0 | | 10 | 21 | 31,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 15 | EC022BGP22-15 | 8/10/2000 | Sand | 0.0 | | 10 | 168 | 178,000 | 0.125 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 2 | EC022BGP23-02 | 8/10/2000 | Sand | 0.0 | | 10 | 147 | 157,000 | 0.129 | 0.025 | 0.029 | 0.025 | 0.025 | 0.025 |
| | 5 | EC022BGP23-05 | 8/10/2000 | Sand | 0.0 | | 10 | 147 | 157,000 | 0.129 | 0.025 | 0.029 | 0.025 | 0.025 | 0.025 |

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics C₆-C₁₀⁴DRO-Diesel Range Organics C₁₀-C₂₈⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTX summations.