District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Plains Marketing, LP	Contact Daniel Bryant
Address 6 Desta Drive Ste. 6600 Midland, Tx 79705	Telephone No. (432) 557-5865
Facility Name Scharb Station Overflow	Facility Type Tank Battery

Surface Owner Chris Northcutt	Mineral Owner	Lease No.

API 30-025-12803

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	19S	35E					Lea

Latitude N 32.68700000° **Longitude** W 103.47095000°

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 18 bbls	Volume Recovered 3 bbls
Source of Release Tank at Scharb Truck Station	Date and Hour of Occurrence 08/09/2008	Date and Hour of Discovery 08/09/2008 @ 01:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson (left message)	
By Whom? Daniel Bryant	Date and Hour 08/11/2008 @ 09:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
OCT 27 2010
HOBBSOCD

Describe Cause of Problem and Remedial Action Taken.*
Crude oil was released when the tank was overfilled by a transport unlading at the facility.

Describe Area Affected and Cleanup Action Taken.*

Please see the attached Basin Environmental Service Technologies Remediation Summary and Site Closure Request for details of the remedial activities conducted at the site.

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

Signature: Daniel Bryant	OIL CONSERVATION DIVISION
Printed Name: Daniel Bryant	Approved by District Supervisor: S Johnson ENVIRONMENTAL ENGINEER
Title: Environmental R/C Specialist	Approval Date: 10-27-10 Expiration Date: —
E-mail Address: dmbryant@paalp.com	Conditions of Approval: — Attached ☐
Date: 10/27/10 Phone: (432) 557-5865	

* Attach Additional Sheets If Necessary

1RP-1936

nLWJ 1031633132
pLWJ 1031633373

Basin Environmental Service Technologies, LLC

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

REMEDIATION SUMMARY

AND SITE CLOSURE REQUEST

PLAINS MARKETING, L.P. (231735)
Scharb Station Overflow
Lea County, New Mexico
Plains SRS # 2008-210
UNIT LTR "P" (SE ¼ /SE ¼), Section 5, Township 19 South, Range 35 East
Latitude 32.68700000° North, Longitude 103.47095000° West
NMOCD Reference # 1RP-1936

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC
2800 Plains Highway
Lovington, New Mexico 88260

October 2010

Camille J. Bryant

Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P. (Plains), has prepared this Remediation Summary Site Closure Request for the release site known as Scharb Station Overflow (SRS # 2008-210). The legal description of the release site is Unit Letter "P" (SE ¼ SE ¼), Section 5, Township 19 South, Range 35 East, in Lea County, New Mexico. The landowner of the affected property is Mr. Chris Northcutt. The release site GPS coordinates are 32.68700000° North and 103.47095000° West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site and Sample Location Map. General photographs of the site are provided as Appendix C.

On August 9, 2008, Plains discovered a crude oil release had occurred at the Plains Scharb Station. A five hundred (500) barrel tank was overfilled by a transport truck unloading at the facility. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on August 11, 2008. The release was contained inside the secondary containment at the facility. Approximately eighteen (18) barrels of crude oil was released with approximately three (3) barrels recovered. The Release Notification a Corrective Action Form is provided as Appendix E.

2.0 NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), depth to groundwater is estimated to be sixty-seven (67) feet below ground surface (bgs). Four (4) groundwater monitor wells (MW-1, MW-2, MW-3 and MW-4) were installed by Plains to evaluate the status of the underlying groundwater at the site. Groundwater was encountered at approximately thirty-five (35) to thirty-seven (37) feet bgs in the on-site monitor wells. The analytical results of the soil samples collected during the advancement of groundwater monitor well MW-4, indicated hydrocarbon impact exceeding the NMOCD regulatory standard, was present at approximately twenty (20) feet bgs. The depth of hydrocarbon impact results in a score of twenty (20) points being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Scharb Station Overflow release site has an initial ranking score of twenty (20). Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

Benzene – 10 mg/Kg (ppm)
BTEX – 50 mg/Kg (ppm)
TPH – 100 mg/Kg (ppm)

3.0 SUMMARY OF SOIL ACTIVITIES

On August 11, 2008, excavation of the hydrocarbon impacted soil began at the site. Excavated soil was stockpiled on-site pending final disposition. Final dimensions of the excavation were approximately sixty (60) feet in length, approximately fifteen (15) feet in width and ranging in depth from approximately two (2) feet bgs to seventeen (17) feet bgs north to south and approximately fifty-five (55) feet in length, approximately fifteen (15) feet in width and ranging in depth from approximately five (5) feet bgs to seventeen (17) feet bgs east to west.

On August 12, 2008, one (1) soil sample (Floor @ 6') was collected from the floor of the excavation at approximately six (6) feet bgs. The soil sample was submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX) and total petroleum hydrocarbons (TPH) concentrations using EPA SW-846 8021b and SW-846 8015M, respectively. The analytical results indicated a benzene concentration of 16.94 mg/Kg, a BTEX concentration of 2,445.02 mg/Kg and a TPH concentration of 2,465 mg/Kg. Table 1 summarizes the Concentrations of Benzene, BTEX and TPH in Soil. Laboratory analytical reports are provided as Appendix B.

On March 9, 2010, four (4) groundwater monitor wells (MW-1, MW-2, MW-3 and MW-4) were installed at the Scharb Station Overflow release site. The groundwater monitor wells were installed to evaluate the status of the underlying groundwater. Soil boring logs are provided as Appendix A. Soil samples were collected at five (5) foot drilling intervals and field screened using a Photo-Ionization Detector (PID). Selected soil samples were submitted to the laboratory for determination of concentrations of BTEX and TPH.

Monitor well MW-1 was located north of the release point and was advanced to a total depth of approximately forty-five (45) feet bgs. Soil samples collected at five (5) feet, ten (10) feet, twenty-five (25) feet and thirty (30) feet bgs were submitted to the laboratory for analysis. The laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory method detection limit (MDL) in each of the submitted soil samples.

Monitor well MW-2 was located east of the release point and was advanced to a total depth of approximately forty-five (45) feet bgs. Soil samples collected at surface, five (5) feet, ten (10) feet, and thirty (30) feet bgs were submitted to the laboratory for analysis. The laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory method detection limit (MDL) for the soil samples collected at five (5) feet, ten (10) feet and thirty (30) feet bgs to 0.005 mg/Kg for the soil sample collected at surface. BTEX concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at ten (10) feet and thirty (30) feet bgs to 0.0553 mg/Kg for the soil sample collected at the surface. TPH concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at ten (10) feet and thirty (30) feet bgs to 449 mg/Kg for the soil sample collected at the surface.

Monitor well MW-3 was located southeast of the release point and was advanced to a total depth of approximately forty-five (45) feet bgs. Soil samples collected at five (5) feet, ten (10) feet and thirty (30) feet bgs were submitted to the laboratory for analysis. The laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for each submitted soil sample.

Monitor well MW-4 was advanced adjacent to the release point to a total depth of approximately forty-three (43) feet bgs. Soil samples collected at the surface, five (5) feet, ten (10) feet, fifteen (15) feet, twenty (20) feet, twenty-five (25) feet and thirty (30) feet bgs were submitted to the laboratory for analysis. The laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples, with the exception of the soil sample collected at the surface, which exhibited a concentration of 0.0024 mg/Kg. BTEX concentrations ranged from less than the appropriate laboratory MDL for the soil samples collected at ten (10) feet, fifteen (15) feet, twenty (20) feet, twenty-five (25) feet and thirty (30) feet bgs to 0.2045 mg/Kg for the soil sample collected at the surface. TPH concentrations ranged from less than the appropriate laboratory MDL for the soil sample collected at twenty-five (25) feet bgs to 9,590 mg/Kg for the soil sample collected at the surface.

On April 14, 2010, the NMOCD Hobbs District Office directed Plains to conduct limited excavation activities to remove impacted soils at the site. Since the release location occurred inside an active facility and analytical results indicated groundwater had not been impacted, it was agreed excavation activities would be limited in scope to the readily accessible impacted soils that could be safely removed without compromising the integrity of the active facility.

On May 14, 2010, seven (7) soil samples (NSW-1, ESW-1, NSW-2, ESW-2, SSW-1, WSW-2 and WSW-1) were collected from the sidewalls of the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, BTEX and TPH. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL for soil samples NSW-1, NSW-2, ESE-2 and WSW-2 to 52.29 mg/Kg for soil sample ESW-1. TPH concentrations ranged from less than the laboratory MDL for soil sample NSW-1 to 8,526 mg/Kg for soil sample ESW-1. Based on the analytical results further excavation was conducted in the areas of soil samples ESW-1 and WSW-1.

Three (3) soil samples (Floor-1, Floor-2 and Floor-3) were collected from the floor of the excavation, at depths ranging from two and half (2.5) feet bgs to four (4) feet bgs, and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. BTEX concentrations ranged from 0.004 mg/Kg for soil sample Floor-1 to 20.61 mg/Kg for soil sample Floor-3. TPH concentrations ranged from 71 mg/Kg for soil sample Floor-1 to 4,379 mg/Kg for soil sample Floor-3. Based on the analytical results further excavation was conducted in the areas of soil samples Floor-2 and Floor-3.

On June 7, 2010, four (4) soil samples (WSW-1A, ESW-1A, Floor-2A and Floor-3A) were collected from the excavation and submitted to the laboratory for TPH analysis. Soil sample ESW-1A was also analyzed for BTEX concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were less than the laboratory MDL for soil sample ESW-1A. TPH concentrations ranged from 90 mg/Kg for soil sample WSW-1A to 2,249 mg/Kg for soil sample Floor-2A. Based on the analytical results further excavation was conducted in the area of soil sample Floor-2A.

On June 21, 2010, one (1) soil sample (Floor-2B) was collected from the excavation and submitted to the laboratory for analysis. The laboratory analytical results indicated a TPH

concentration of 2,084 mg/Kg for the soil sample Floor-2B. Based on the analytical results further excavation was conducted in the area of soil sample Floor-2B.

On August 4, 2010, one (1) soil sample (Floor-2C) was collected from the excavation and submitted to the laboratory for analysis. The laboratory analytical results indicated a TPH concentration of 184 mg/Kg for soil sample Floor-2C.

During May and July 2010, approximately eight hundred thirty-four (834) cubic yards of impacted material was transported to the Plains Lea Station Landfarm (NMOCD Permit # GW-351), near Monument, New Mexico. The excavation was backfilled with locally purchased soil and compacted in twelve (12) inch lifts. Following backfilling activities the impacted area was contoured to fit the surrounding topography.

4.0 SUMMARY OF GROUNDWATER ACTIVITIES

On March 30, 2010, the on-site monitor wells (MW-1 through MW-4) were gauged and purged of a minimum of three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon bailers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer mounted polystyrene tank and disposed of at an approved disposal in Monument, New Mexico.

The analytical results of the March 30, 2010, groundwater sampling event indicate all BTEX constituent concentrations were less than the laboratory MDL in all four (4) on-site monitor wells. The analytical results indicate chloride concentrations ranged from 24.4 mg/L in monitor well MW-1 to 157 mg/L in monitor well MW-3. The results further indicate total dissolved solids (TDS) concentrations ranged from 476 mg/L in monitor well MW-1 to 802 mg/L in monitor well MW-3.

On April 14, 2010, the NMOCD Hobbs District Office granted verbal approval to plug and abandon the four (4) on-site monitor wells. On April 31, 2010, monitor wells MW-1, MW-2, MW-3 and MW-4 were plugged and abandoned by a State of New Mexico licensed water well driller. The plugging reports are provided as Appendix D.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc. in Odessa, Texas for BTEX and/or TPH analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH within fourteen days following the collection date.

The soil samples were analyzed as follows:

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

5.2 Groundwater Sampling

The groundwater monitor wells were developed utilizing the Environmental Protection Agency (EPA) protocol of nine (9) well volumes of groundwater or until the monitoring wells are dry using an electrical Grundfos Pump. Within forty-eight hours of development and during subsequent quarterly groundwater sampling events, the monitor wells were measured and purged of approximately three (3) well volumes utilizing an electrical Grundfos Pump. Groundwater samples were collected using a disposable Teflon sampler and the groundwater samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at an NMOCD approved disposal facility. Groundwater samples were delivered to Xenco Laboratories in Odessa, Texas, for analysis of BTEX concentrations using the method described below. All samples were analyzed within approved holding times following the collection date.

The groundwater samples are analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030

5.3 Decontamination of Equipment

Cleaning of drilling equipment is the responsibility of the drilling company. In general, the cleaning procedures consist of using high-pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each boring. Prior to use, the sampling equipment is cleaned with Liqui-Nox detergent and rinsed with distilled water.

5.4 Laboratory Protocol

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

6.0 SITE CLOSURE REQUEST

Based on the remediation activities conducted at the site, Basin recommends Plains provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant site closure to the Scharb Station Overflow release site.

7.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, 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. Basin Environmental Service Technologies, LLC, has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, 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 Marketing, 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 Basin Environmental Service Technologies, LLC, and/or Plains Marketing, L.P.

8.0 DISTRIBUTION:

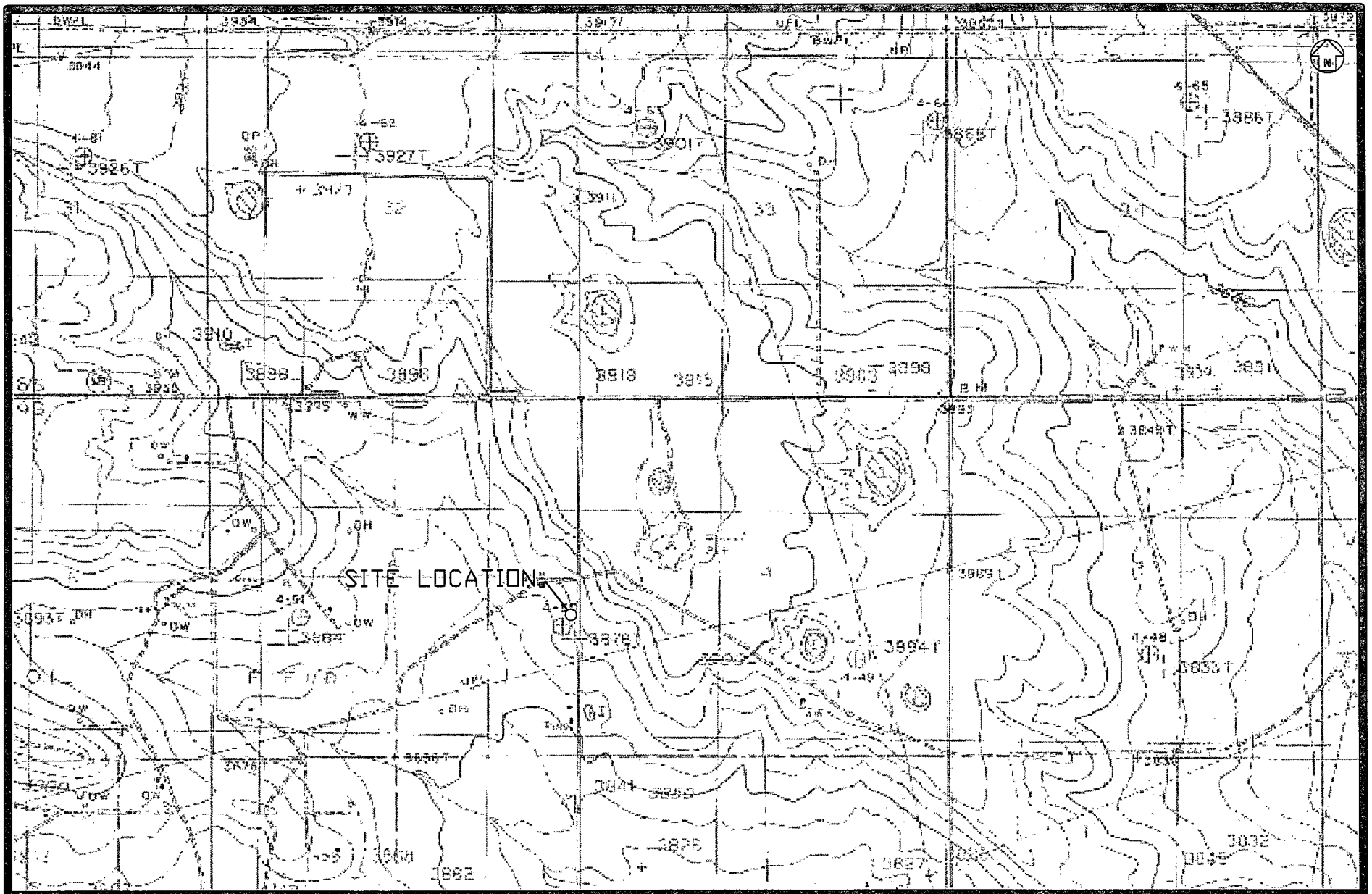
Copy 1: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: Jeff Dann
Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 3: Daniel Bryant
Plains Marketing, L.P.
P.O. Box 3119
Midland, Texas 79702
dmbryant@paalp.com

Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 381
Lovington, New Mexico 88260

Figures



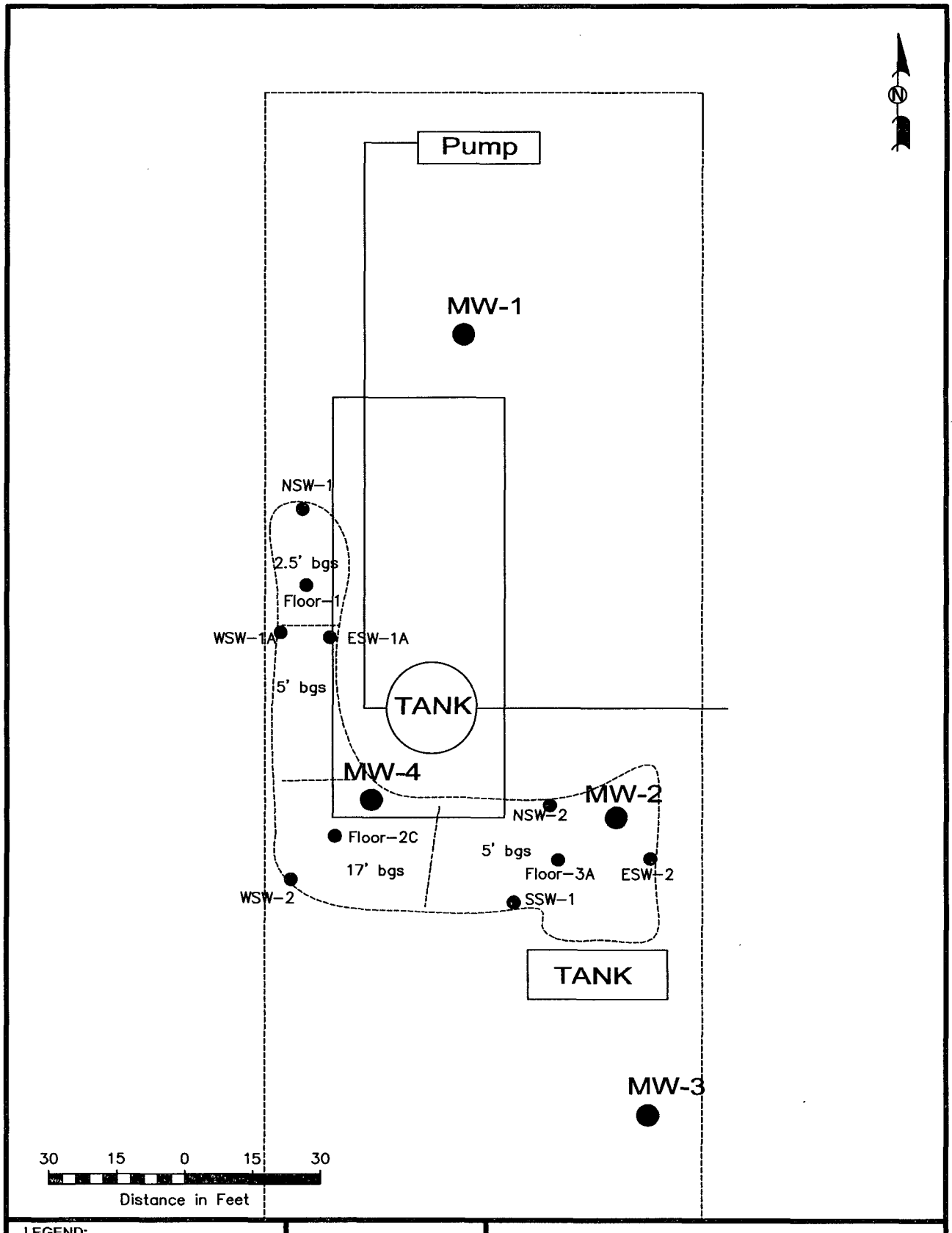
2500 1250 0 1250 2500

Distance in Feet

Figure 1
Site Location Map
Plains Marketing, L.P.
Scharb Station Overflow
Lea County, New Mexico
SRS# 2008-210
NMOCD Ref 1RP-1936

Basin Environmental Service Technologies

Prep By: JWL	Checked By: BJA
October 18, 2010	Scale 1"=2,500'



LEGEND:

- Excavation Extent
- Fire Wall
- Pipeline
- Sample Location
- Monitor Well Location

Figure 2
Site Location Map
Plains Marketing LP
Scharb Station Overflow
Lea County, NM
NMOCD Ref # 1RP-1936

Basin Environmental Service Technologies

Scale: 1" = 50'	Drawn By: JWL	Checked By: CJB
October 18, 2010		

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
SCHARB STATION OVERFLOW
LEA COUNTY, NEW MEXICO
SRS: 2008-210
NMOCD REFERENCE NO: 1RP-1936

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	
Floor @ 6'	6 Feet	08/12/08	In-Situ	**16.94**	123.100	73.88	1690	541.1	**2,445.02**	854	1,490	121	2,465
MW-1 @ 5'	5 Feet	03/09/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.5	<17.5	<17.5	<17.5
MW-1 @ 10'	10 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<17.2	<17.2	<17.2	<17.2
MW-1 @ 25'	25 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	<15.5	<15.5	<15.5
MW-1 @ 30	30 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.6	<16.6	<16.6	<16.6
MW-2 @ Surface	Surface	3/9/2010	In-Situ	0.005	0.0039	0.0157	0.0213	0.0094	0.0553	138	286	25	449
MW-2 @ 5'	5 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	0.0047	0.0097	0.0083	0.0227	<16.6	37	<16.6	37
MW-2 @ 10'	10 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<19.1	<19.1	<19.1	<19.1
MW-2 @ 30'	30 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<18.1	<18.1	<18.1	<18.1
MW-3 @ 5'	5 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.3	<16.3	<16.3	<16.3
MW-3 @ 10'	10 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.7	<16.7	<16.7	<16.7
MW-3 @ 30	30 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.0	<16.0	<16.0	<16.0
MW-4 @ Surface	Surface	3/9/2010	In-Situ	0.0024	0.007	0.1343	0.0099	0.0509	0.2045	995	8,020	575	9,590
MW-4 @ 5'	5 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	0.017	<0.0020	0.0088	0.0258	114	561	33.1	708.1
MW-4 @ 10'	10 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	22.1	336	17.2	375.3
MW-4 @ 15'	15 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.5	215	<15.5	215
MW-4 @ 20'	20 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.9	131	<15.9	131
MW-4 @ 25'	25 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.8	<15.8	<15.8	<15.8
MW-4 @ 30'	30 Feet	3/9/2010	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.7	41.7	<16.7	41.7
NSW-1	2 Feet	5/14/2010	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7
ESW-1	3 Feet	5/14/2010	Excavated	<0.5379	1.076	8.257	38.62	5.412	**52.29**	3,310	4,460	756	8,526
NSW-2	3.5 Feet	5/14/2010	In-Situ	<0.0012	<0.0025	<0.0012	<0.0025	<0.0012	<0.0025	<93.3	521.0	114	635.0
ESW-2	3 Feet	5/14/2010	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	108.0	32	140.0
SSW-1	3 Feet	5/14/2010	In-Situ	<0.0012	<0.0023	<0.0012	0.0037	<0.0012	0.0037	<17.5	34.4	<17.5	34.4
WSW-2	3.5 Feet	5/14/2010	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	241	46.6	287.6
WSW-1	2 Feet	5/14/2010	Excavated	<0.0110	0.1384	0.3897	4.723	1.265	6.516	602	1,230	72.1	1,904.1
Floor-1	2.5 Feet	5/14/2010	In-Situ	<0.0011	<0.0022	<0.0011	0.0025	0.0015	0.004	<16.8	71	<16.8	71
Floor-2	4 Feet	5/14/2010	Excavated	<0.0234	0.1633	2.132	9.211	2.216	13.722	848	725	<87.4	1,573
Floor -3	3.5 Feet	5/14/2010	Excavated	<0.5533	1.107	3.591	14.56	2.462	20.61	1,280	2,800	299	4,379
WSW-1A	2 Feet	6/7/2010	In-Situ	-	-	-	-	-	-	<15.9	90	<15.9	90
ESW- 1A	3 Feet	6/7/2010	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0020	<15.6	767	93	860
Floor -2A	6 Feet	6/7/2010	Excavated	-	-	-	-	-	-	561	1,580	108	2,249

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
SCHARB STATION OVERFLOW
LEA COUNTY, NEW MEXICO
SRS: 2008-210
NMOCD REFERENCE NO: 1RP-1936

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	
Floor -3A	5 Feet	6/7/2010	In-Situ	-	-	-	-	-	-	118	781	66	965
Floor -2B	10 Feet	6/21/2010	Excavated	-	-	-	-	-	-	385	1,600	99	2,084
Floor- 2C	17 feet	8/4/2010	In-Situ	-	-	-	-	-	-	22	162	<16.5	184

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, CHLORIDES AND TOTAL DISSOLVED SOLIDS IN GROUNDWATER

PLAINS MARKETING, L.P.
SCHARB STATION OVERFLOW
LEA COUNTY, NEW MEXICO
PLAINS SRS NO. 2008-210
NMOCD REFERENCE NO: 1RP-1936

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030						CHLORIDES (mg/L)	TDS (mg/L)
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL BTEX (mg/L)		
MW-1	03/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	24.4	476
MW-2	03/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	82.4	764
MW-3	03/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	157	802
MW-4	03/30/10	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	32.5	502
NMOCD CRITERIA		0.01	0.75	0.75	TOTAL XYLENES 0.62			250	10,000

TABLE 3

2010 GROUNDWATER ELEVATION DATA

PLAINSMARKETING, L.P.
SCHARB STATION OVERFLOW
LEA COUNTY, NEW MEXICO
PLAINS SRS NO:
NMOCD REF NO: 1RP

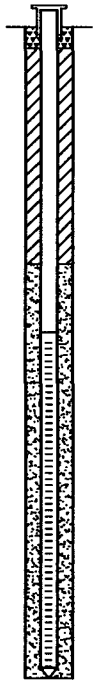
WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	03/30/10			37.19	0.00	
MW-2	*03/30/10*		-	35.62	0.00	
MW-3	*03/30/10*		-	35.75	0.00	
MW-4	*03/30/10*		-	35.11	0.00	

Appendices

Appendix A
Soil Boring and Monitor Well Logs

Monitor Well MW-1

Drilling Depth	Soil Columns	PID Field Screen	Petroleum Odor	Petroleum Stain	Soil Description
0			Slight	None	0-4' - Sand with caliche nodules, slightly moist
5		4.9	None	None	4-14' - Caliche, tannish yellow, poorly sorted, dry
10		5.3	None	None	
15		3.4	None	None	14-25' - Sand, brown, very fine grained, moderate silt, moist
20		7.0	None	None	
25		8.4	None	None	
30 ▼		5.1	None	None	25-45' - Sand, light-brown, very fine grained, moderate clay, moderate pebble sized clast, damp
35			None	None	
40			None	None	
45					



Monitor Well MW-1

Date Drilled March 9, 2010
Thickness of Bentonite Seal 18 Ft
Depth of Exploratory Boring 45 Ft bgs
Depth to Groundwater 30 Ft bgs
Ground Water Elevation

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on March 9, 2010
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Grout Surface Seal
Bentonite Pellet Seal
Sand Pack
Screen

Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.

2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

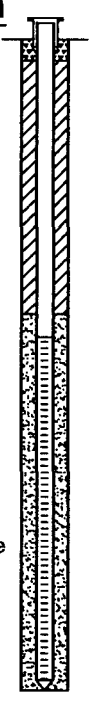
Boring Log Details
Monitor Well MW-1
Scharb Station Overflow
Lea County, New Mexico
Plains Marketing

Basin Environmental Service Technologies

Prep By: JWL	Checked By: CJB
June 21, 2010	

Monitor Well MW-2

Drilling Depth	Soil Columns	PID Field Screen	Petroleum Odor	Petroleum Stain	Soil Description
0					0-5' - Sand with caliche nodules, slightly moist
5		71	Moderate	Moderate	
10		12.6	Slight	Slight	5-14' - Caliche, tannish yellow, poorly sorted, dry
15		21.6	None	None	
20		16.1	None	None	14-25' - Sand, brown, very fine grained, moderate silt, moist
25		25	None	None	
30		13	None	None	
35					25-45' - Sand, light-brown, very fine grained, moderate clay, damp
40					
45					



Monitor Well MW-2

Date Drilled March 9, 2010
Thickness of Bentonite Seal 18 Ft
Depth of Exploratory Boring 45 Ft bgs
Depth to Groundwater 30 Ft bgs
Ground Water Elevation

▼ Indicates the PSH level measured on _____
▼ Indicates the groundwater level measured on March 9, 2010
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Grout Surface Seal
Bentonite Pellet Seal
Sand Pack
Screen

Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.

2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

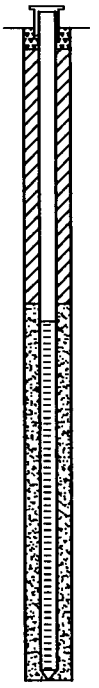
Boring Log Details
Monitor Well MW-2
Scharb Station Overflow
Lea County, New Mexico
Plains Marketing

Basin Environmental Service Technologies

Prep By: JWL	Checked By: CJB
June 21, 2010	

Monitor Well MW-3

Drilling Depth	Soil Columns	PID Field Screen	Petroleum Odor	Petroleum Stain	Soil Description
0					
5		39	Slight	Moderate	0-3' - Sand with caliche nodules, slightly moist
10		16	Slight	Slight	3-13' - Caliche, tannish yellow, poorly sorted, dry
15		13	None	None	
20		5.7	None	None	13-25' - Sand, brown, very fine grained, moderate silt, moist
25		11.6	None	None	
30		13.2	None	None	
35		– –	None	None	25-45' - Sand, light-brown, very fine grained, moderate clay, damp
40			None	None	
45			None	None	



Monitor Well MW-3

Date Drilled March 9, 2010
Thickness of Bentonite Seal 18 Ft
Depth of Exploratory Boring 45 Ft bgs
Depth to Groundwater 30 Ft bgs
Ground Water Elevation

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on March 9, 2010
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Grout Surface Seal
Bentonite Pellet Seal
Sand Pack
Screen

Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.

2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

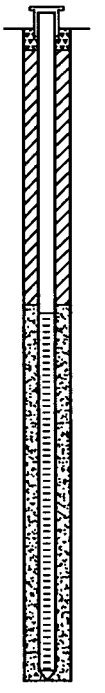
Boring Log Details
Monitor Well MW-3
Scharb Station Overflow
Lea County, New Mexico
Plains Marketing

Basin Environmental Service Technologies

Prep By: JWL	Checked By: CJB
June 21, 2010	

Monitor Well MW-4

Drilling Depth	Soil Columns	PID Field Screen	Petroleum Odor	Petroleum Stain	Soil Description
0					0-4' - Sand with caliche nodules, slightly moist
5		4.9	Strong	Heavy	
10		5.3	Slight	None	4-14' - Caliche, tannish yellow, poorly sorted, dry
15		3.4	Slight	None	
20		7.0	Slight	None	14-25' - Sand, brown, very fine grained, moderate silt, moderate pebble sized clast, moist
25		8.4	None	None	
30		5.1	Faint	None	
35					25-43' - Sand, light-brown, very fine grained, moderate clay, damp
40					
45					



Monitor Well MW-4

Date Drilled: March 9, 2010
Thickness of Bentonite Seal: 18 Ft
Depth of Exploratory Boring: 43.5 Ft bgs
Depth to Groundwater: 30 Ft bgs
Ground Water Elevation:

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on March 9, 2010
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Grout Surface Seal
Bentonite Pellet Seal
Sand Pack
Screen

Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.

2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Boring Log Details
Monitor Well MW-4
Scharb Station Overflow
Lea County, New Mexico
Plains Marketing

Basin Environmental Service Technologies

Prep By: JWL	Checked By: CJB
June 21, 2010	

Appendix B
Analytical Reports

Analytical Report 310165

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Scharb Station Overflow

2008-210

18-AUG-08

E84880

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

18-AUG-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **310165**
Scharb Station Overflow
Project Address: Lea County, NM

Daniel Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 310165. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 310165 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 310165

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 6 Feet bgs	S	Aug-12-08 14:30		310165-001

Certificate of Analysis Summary 310165

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Thu Aug-14-08 04:45 pm
Report Date: 18-AUG-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	310165-001					
	Field Id:	Floor @ 6 Feet bgs					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Aug-12-08 14:30					
BTEX by EPA 8021B	*Extracted:*	Aug-15-08 15:30					
	Analyzed:	Aug-16-08 01:40					
	Units/RL:	mg/kg	RL				
Benzene		16.94	2.871				
Toluene		123.1	5.743				
Ethylbenzene		73.88	2.871				
m,p-Xylenes		1690	5.743				
o-Xylene		541.1	2.871				
Total Xylenes		2231.1					
Total BTEX		2445.02					
Percent Moisture	*Extracted:*						
	Analyzed:	Aug-15-08 17:00					
	Units/RL:	%	RL				
Percent Moisture		12.9					
TPH By SW8015 Mod	*Extracted:*	Aug-15-08 16:45					
	Analyzed:	Aug-16-08 20:08					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		854	17.2				
C12-C28 Diesel Range Hydrocarbons		1490	17.2				
C28-C35 Oil Range Hydrocarbons		121	17.2				
Total TPH		2465					

Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Order #: 310165 **Project ID:** 2008-210

Lab Batch #: 731303 **Sample:** 310165-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0542	0.0300	181	80-120	**
4-Bromofluorobenzene	0.0962	0.0300	321	80-120	**

Lab Batch #: 731303 **Sample:** 310166-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 731303 **Sample:** 310166-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 731303 **Sample:** 514022-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 731303 **Sample:** 514022-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Order #: 310165 **Project ID:** 2008-210

Lab Batch #: 731303 **Sample:** 514022-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 731290 **Sample:** 310165-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	100	92	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 731290 **Sample:** 310167-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.4	100	78	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

Lab Batch #: 731290 **Sample:** 310167-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Lab Batch #: 731290 **Sample:** 514017-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Order #: 310165 **Project ID:** 2008-210

Lab Batch #: 731290 **Sample:** 514017-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.7	100	83	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 731290 **Sample:** 514017-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.5	100	80	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 310165 **Project ID:** 2008-210

Analyst: ASA **Date Prepared:** 08/15/2008 **Date Analyzed:** 08/15/2008

Lab Batch ID: 731303 **Sample:** 514022-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1124	112	0.1	0.0997	100	12	70-130	35	
Toluene	ND	0.1000	0.1126	113	0.1	0.0991	99	13	70-130	35	
Ethylbenzene	ND	0.1000	0.1200	120	0.1	0.1084	108	10	71-129	35	
m,p-Xylenes	ND	0.2000	0.2508	125	0.2	0.2234	112	12	70-135	35	
o-Xylene	ND	0.1000	0.1153	115	0.1	0.1020	102	12	71-133	35	

Analyst: IRO **Date Prepared:** 08/15/2008 **Date Analyzed:** 08/16/2008

Lab Batch ID: 731290 **Sample:** 514017-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	844	84	1000	835	84	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	851	85	1000	839	84	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # 310165 **Project ID:** 2008-210

Lab Batch ID: 731303 **QC- Sample ID:** 310166-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/16/2008 **Date Prepared:** 08/15/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1062	0.0828	78	0.1062	0.0873	82	5	70-130	35	
Toluene	ND	0.1062	0.0810	76	0.1062	0.0844	79	4	70-130	35	
Ethylbenzene	ND	0.1062	0.0855	81	0.1062	0.0905	85	5	71-129	35	
m,p-Xylenes	ND	0.2124	0.1768	83	0.2124	0.1863	88	6	70-135	35	
o-Xylene	ND	0.1062	0.0781	74	0.1062	0.0832	78	5	71-133	35	

Lab Batch ID: 731290 **QC- Sample ID:** 310167-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/17/2008 **Date Prepared:** 08/15/2008 **Analyst:** IRO

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1160	915	79	1160	960	83	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1160	906	78	1160	954	82	5	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order # 310165

Lab Batch #: 731187 **Project ID:** 2008-210

Date Analyzed: 08/15/2008 **Date Prepared:** 08/15/2008 **Analyst:** JLG

QC- Sample ID: 310167-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	10.1	9.53	6	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Curt Stanley PAGE 01 OF 01 Project Name: Scharb Station Overflow

Company Name: Basin Environmental Service Technologies, LLC Project #: 2008-210

Company Address: 2800 Plains Hwy Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Curt D Stanley Bobby Blackwood e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 310165

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl (VOA x 2)	H2SO4	NaOH	Na2S2O3	None (PAH)	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge GW - Groundwater S - Soil/Solid NP - Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 1005 TX 1005 TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	PAH	EPA Paint Filter Test	Chlorides E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Floor @ 6 feet bgs			8/12/2008	1430		1	X								Soil	X							X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	8/14/08	16:45			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	8-14-08	16:45

Laboratory Comments:

Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered by Sampler/Client Rep. ?	(N)
by Courier? UPS DHL FedEx Lone Star	
Temperature Upon Receipt: 4.0 3.9 5.5 °C	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. | Plains

Date/ Time: 8.14.08 16:45

Lab ID #: 310165

Initials: CL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

Analytical Report 365219

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Scharb Station Overflow

2008-210

17-MAR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

17-MAR-10

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **365219**
Scharb Station Overflow
Project Address: Lea County, NM

Daniel Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 365219. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 365219 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 365219

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-3 @ 5'	S	Mar-09-10 09:00		365219-001
MW-3 @ 10'	S	Mar-09-10 09:10		365219-002
MW-3 @ 30'	S	Mar-09-10 09:25		365219-003
MW-2 @ Surface	S	Mar-09-10 10:40		365219-004
MW-2 @ 5'	S	Mar-09-10 10:50		365219-005
MW-2 @ 10'	S	Mar-09-10 11:00		365219-006
MW-2 @ 30'	S	Mar-09-10 11:40		365219-007
MW-1 @ 5'	S	Mar-09-10 13:00		365219-008
MW-1 @ 10'	S	Mar-09-10 13:10		365219-009
MW-1 @ 25'	S	Mar-09-10 13:45		365219-010
MW-1 @ 30'	S	Mar-09-10 14:00		365219-011
MW-4 Surface	S	Mar-09-10 15:30		365219-012
MW-4 @ 5'	S	Mar-09-10 15:40		365219-013
MW-4 @ 10'	S	Mar-09-10 15:50		365219-014
MW-4 @ 15'	S	Mar-09-10 16:10		365219-015
MW-4 @ 20'	S	Mar-09-10 16:30		365219-016
MW-4 @ 25'	S	Mar-09-10 16:50		365219-017
MW-4 @ 30'	S	Mar-09-10 17:10		365219-018

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Station Overflow

Project ID:	*2008-210*	*Report Date:*	*17-MAR-10*
Work Order Number:	*365219*	*Date Received:*	*03/11/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-798145 TPH by SW8015 Mod
None

Batch: LBA-798281 BTEX by EPA 8021
SW8021BM

Batch 798281, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 365219-004,365219-012,365219-013,365219-005.

Batch: LBA-798453 Percent Moisture
None

Certificate of Analysis Summary 365219

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Thu Mar-11-10 07:40 am
Report Date: 17-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365219-001		365219-002		365219-003		365219-004		365219-005		365219-006	
	Field Id:	MW-3 @ 5'		MW-3 @ 10'		MW-3 @ 30'		MW-2 @ Surface		MW-2 @ 5'		MW-2 @ 10'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-10 09:00		Mar-09-10 09:10		Mar-09-10 09:25		Mar-09-10 10:40		Mar-09-10 10:50		Mar-09-10 11:00	
BTEX by EPA 8021	***Extracted:***	Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00	
	Analyzed:	Mar-13-10 09:28		Mar-13-10 09:50		Mar-13-10 10:13		Mar-13-10 10:35		Mar-13-10 10:57		Mar-13-10 11:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	0.0050	0.0010	ND	0.0010	ND	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	0.0039	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	0.0157	0.0010	0.0047	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	0.0213	0.0020	0.0097	0.0020	ND	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	0.0094	0.0010	0.0083	0.0010	ND	0.0010
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	0.0307	0.0010	0.0180	0.0010	ND	0.0010
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010	0.0553	0.0010	0.0227	0.0010	ND	0.0010
Percent Moisture	***Extracted:***												
	Analyzed:	Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.30	1.00	10.7	1.00	6.22	1.00	15.2	1.00	9.64	1.00	21.7	1.00
TPH by SW8015 Mod	***Extracted:***	Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00	
	Analyzed:	Mar-15-10 17:51		Mar-15-10 18:18		Mar-15-10 18:45		Mar-15-10 19:11		Mar-15-10 19:38		Mar-15-10 20:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.3	ND	16.7	ND	16.0	138	17.7	ND	16.6	ND	19.1
C12-C28 Diesel Range Hydrocarbons		ND	16.3	ND	16.7	ND	16.0	286	17.7	37.0	16.6	ND	19.1
C28-C35 Oil Range Hydrocarbons		ND	16.3	ND	16.7	ND	16.0	25.4	17.7	ND	16.6	ND	19.1
Total TPH		ND	16.3	ND	16.7	ND	16.0	449	17.7	37.0	16.6	ND	19.1

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365219

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Thu Mar-11-10 07:40 am
Report Date: 17-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365219-007		365219-008		365219-009		365219-010		365219-011		365219-012	
	Field Id:	MW-2 @ 30'		MW-1 @ 5'		MW-1 @ 10'		MW-1 @ 25'		MW-1 @ 30'		MW-4 Surface	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-10 11:40		Mar-09-10 13:00		Mar-09-10 13:10		Mar-09-10 13:45		Mar-09-10 14:00		Mar-09-10 15:30	
BTEX by EPA 8021	*Extracted:*	Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00	
	Analyzed:	Mar-13-10 11:42		Mar-13-10 12:04		Mar-13-10 12:27		Mar-13-10 12:50		Mar-13-10 14:20		Mar-13-10 16:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0024	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0070	0.0020
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.1343	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0099	0.0020
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0509	0.0010
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0608	0.0010
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.2045	0.0010
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		16.9	1.00	14.6	1.00	13.2	1.00	3.82	1.00	10.0	1.00	6.61	1.00
TPH by SW8015 Mod	*Extracted:*	Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00	
	Analyzed:	Mar-15-10 20:31		Mar-15-10 20:58		Mar-15-10 21:51		Mar-15-10 22:18		Mar-15-10 22:44		Mar-16-10 23:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	18.1	ND	17.5	ND	17.2	ND	15.5	ND	16.6	995	161
C12-C28 Diesel Range Hydrocarbons		ND	18.1	ND	17.5	ND	17.2	ND	15.5	ND	16.6	8020	161
C28-C35 Oil Range Hydrocarbons		ND	18.1	ND	17.5	ND	17.2	ND	15.5	ND	16.6	575	161
Total TPH		ND	18.1	ND	17.5	ND	17.2	ND	15.5	ND	16.6	9590	161

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 365219

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Thu Mar-11-10 07:40 am
Report Date: 17-MAR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	365219-013		365219-014		365219-015		365219-016		365219-017		365219-018	
	Field Id:	MW-4 @ 5'		MW-4 @ 10'		MW-4 @ 15'		MW-4 @ 20'		MW-4 @ 25'		MW-4 @ 30'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-10 15:40		Mar-09-10 15:50		Mar-09-10 16:10		Mar-09-10 16:30		Mar-09-10 16:50		Mar-09-10 17:10	
BTEX by EPA 8021	*Extracted:*	Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00		Mar-13-10 07:00	
	Analyzed:	Mar-13-10 14:42		Mar-13-10 15:05		Mar-13-10 16:34		Mar-13-10 15:27		Mar-13-10 15:49		Mar-13-10 16:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Ethylbenzene		0.0170	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
o-Xylene		0.0088	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		0.0088	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		0.0258	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Percent Moisture	*Extracted:*												
	Analyzed:	Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16		Mar-16-10 15:16	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.56	1.00	7.03	1.00	3.70	1.00	5.35	1.00	5.44	1.00	10.1	1.00
TPH by SW8015 Mod	*Extracted:*	Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00		Mar-15-10 15:00	
	Analyzed:	Mar-16-10 23:37		Mar-16-10 00:04		Mar-16-10 00:30		Mar-16-10 00:57		Mar-16-10 01:24		Mar-16-10 01:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		114	16.5	22.1	16.1	ND	15.5	ND	15.9	ND	15.8	ND	16.7
C12-C28 Diesel Range Hydrocarbons		561	16.5	336	16.1	215	15.5	131	15.9	ND	15.8	41.7	16.7
C28-C35 Oil Range Hydrocarbons		33.1	16.5	17.2	16.1	ND	15.5	ND	15.9	ND	15.8	ND	16.7
Total TPH		708	16.5	375	16.1	215	15.5	131	15.9	ND	15.8	41.7	16.7

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798281 **Sample:** 558179-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/13/10 07:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 798281 **Sample:** 558179-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/13/10 07:56

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 798281 **Sample:** 558179-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/13/10 09:05

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 798281 **Sample:** 365219-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 09:28

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 798281 **Sample:** 365219-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 09:50

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798281 **Sample:** 365219-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 10:13

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

Lab Batch #: 798281 **Sample:** 365219-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 10:35

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0201	0.0300	67	80-120	*
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 798281 **Sample:** 365219-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 10:57

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0226	0.0300	75	80-120	*
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

Lab Batch #: 798281 **Sample:** 365219-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 11:20

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 798281 **Sample:** 365219-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 11:42

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0241	0.0300	80	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798281 **Sample:** 365219-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 12:04

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0240	0.0300	80	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 798281 **Sample:** 365219-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 12:27

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 798281 **Sample:** 365219-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 12:50

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 798281 **Sample:** 365219-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 14:20

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 798281 **Sample:** 365219-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 14:42

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0234	0.0300	78	80-120	*
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219, **Project ID:** 2008-210

Lab Batch #: 798281 **Sample:** 365219-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 15:05

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 798281 **Sample:** 365219-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 15:27

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0354	0.0300	118	80-120	

Lab Batch #: 798281 **Sample:** 365219-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 15:49

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 798281 **Sample:** 365219-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 16:12

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 798281 **Sample:** 365219-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 16:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798281 **Sample:** 365219-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 16:57

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0178	0.0300	59	80-120	*
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

Lab Batch #: 798281 **Sample:** 365219-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 17:19

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 798281 **Sample:** 365219-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/13/10 17:42

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 798145 **Sample:** 558095-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/15/10 15:37

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.5	50.1	131	70-135	
o-Terphenyl	79.4	100	79	70-135	

Lab Batch #: 798145 **Sample:** 558095-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/15/10 16:04

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	62.4	49.9	125	70-135	
o-Terphenyl	76.9	99.7	77	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798145 **Sample:** 558095-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/15/10 16:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	43.0	50.2	86	70-135	
o-Terphenyl	83.1	100	83	70-135	

Lab Batch #: 798145 **Sample:** 365219-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 17:51

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	43.6	50.0	87	70-135	
o-Terphenyl	84.2	99.9	84	70-135	

Lab Batch #: 798145 **Sample:** 365219-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 18:18

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	41.3	49.9	83	70-135	
o-Terphenyl	78.2	99.7	78	70-135	

Lab Batch #: 798145 **Sample:** 365219-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 18:45

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	44.2	49.9	89	70-135	
o-Terphenyl	84.6	99.8	85	70-135	

Lab Batch #: 798145 **Sample:** 365219-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 19:11

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	44.9	49.9	90	70-135	
o-Terphenyl	81.3	99.8	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798145 **Sample:** 365219-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 19:38

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	41.0	50.1	82	70-135	
o-Terphenyl	77.1	100	77	70-135	

Lab Batch #: 798145 **Sample:** 365219-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 20:04

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	44.9	49.9	90	70-135	
o-Terphenyl	87.6	99.8	88	70-135	

Lab Batch #: 798145 **Sample:** 365219-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 20:31

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	49.1	50.0	98	70-135	
o-Terphenyl	96.8	100	97	70-135	

Lab Batch #: 798145 **Sample:** 365219-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 20:58

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	44.6	49.9	89	70-135	
o-Terphenyl	85.7	99.8	86	70-135	

Lab Batch #: 798145 **Sample:** 365219-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 21:51

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	42.9	49.8	86	70-135	
o-Terphenyl	81.7	99.5	82	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798145 **Sample:** 365219-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 22:18

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	43.4	49.8	87	70-135	
o-Terphenyl	83.6	99.5	84	70-135	

Lab Batch #: 798145 **Sample:** 365219-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/15/10 22:44

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	44.0	49.9	88	70-135	
o-Terphenyl	84.2	99.7	84	70-135	

Lab Batch #: 798145 **Sample:** 365219-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 00:04

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	43.8	49.8	88	70-135	
o-Terphenyl	82.9	99.5	83	70-135	

Lab Batch #: 798145 **Sample:** 365219-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 00:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	43.8	49.9	88	70-135	
o-Terphenyl	83.3	99.7	84	70-135	

Lab Batch #: 798145 **Sample:** 365219-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 00:57

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	42.6	50.1	85	70-135	
o-Terphenyl	80.8	100	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798145 **Sample:** 365219-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 01:24

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	42.7	49.9	86	70-135	
o-Terphenyl	82.3	99.8	82	70-135	

Lab Batch #: 798145 **Sample:** 365219-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 01:51

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	45.7	50.2	91	70-135	
o-Terphenyl	91.6	100	92	70-135	

Lab Batch #: 798145 **Sample:** 365219-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 02:18

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.2	49.9	131	70-135	
o-Terphenyl	83.5	99.7	84	70-135	

Lab Batch #: 798145 **Sample:** 365219-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 02:44

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	63.1	49.9	126	70-135	
o-Terphenyl	80.9	99.8	81	70-135	

Lab Batch #: 798145 **Sample:** 365219-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 23:11

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	52.4	50.0	105	70-135	
o-Terphenyl	94.7	100	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 365219,

Project ID: 2008-210

Lab Batch #: 798145 **Sample:** 365219-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/16/10 23:37

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	48.4	49.8	97	70-135	
o-Terphenyl	90.8	99.5	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 365219 **Project ID:** 2008-210

Analyst: ASA **Date Prepared:** 03/13/2010 **Date Analyzed:** 03/13/2010

Lab Batch ID: 798281 **Sample:** 558179-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0917	92	0.1	0.0983	98	7	70-130	35	
Toluene	ND	0.1000	0.0874	87	0.1	0.0929	93	6	70-130	35	
Ethylbenzene	ND	0.1000	0.0897	90	0.1	0.0950	95	6	71-129	35	
m,p-Xylenes	ND	0.2000	0.1722	86	0.2	0.1816	91	5	70-135	35	
o-Xylene	ND	0.1000	0.0854	85	0.1	0.0902	90	5	71-133	35	

Analyst: BEV **Date Prepared:** 03/15/2010 **Date Analyzed:** 03/15/2010

Lab Batch ID: 798145 **Sample:** 558095-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1110	111	997	1050	105	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	862	86	997	884	89	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 365219 **Project ID:** 2008-210

Lab Batch ID: 798281 **QC- Sample ID:** 365219-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/13/2010 **Date Prepared:** 03/13/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.0990	0.0782	79	0.0990	0.0755	76	4	70-130	35	
Toluene	ND	0.0990	0.0753	76	0.0990	0.0719	73	5	70-130	35	
Ethylbenzene	ND	0.0990	0.0771	78	0.0990	0.0736	74	5	71-129	35	
m,p-Xylenes	ND	0.1980	0.1486	75	0.1980	0.1428	72	4	70-135	35	
o-Xylene	ND	0.0990	0.0732	74	0.0990	0.0700	71	4	71-133	35	

Lab Batch ID: 798145 **QC- Sample ID:** 365219-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/16/2010 **Date Prepared:** 03/15/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1090	1170	107	1090	1130	104	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1090	960	88	1090	981	90	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 365219

Lab Batch #: 798453 **Project ID:** 2008-210

Date Analyzed: 03/16/2010 **Date Prepared:** 03/16/2010 **Analyst:** JLG

QC- Sample ID: 365219-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Percent Moisture **Analyte**	**Parent Sample Result [A]**	**Sample Duplicate Result [B]**	**RPD**	**Control Limits %RPD**	**Flag**
Percent Moisture	8.30	8.37	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

a XENCO Laboratory Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

1 of 2

Project Manager: Camille Bryant

Company Name: Basin Consulting

Company Address: PO Box 381

City/State/Zip: Lovington, NM 88260

Telephone No: 575-605-7210 Fax No: (575) 396-1429

Sampler Signature: Camille Bryant e-mail: cjbryant@basin-consulting.com

Project Name: Scharb Station Overflow

Project #: 2008-210

Project Loc: Lea County, NM

PO #: PAA-D. Bryant

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 365219

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP:	TOTAL: TPH: 418.1	TPH: TX 1005	TPH: TX 1006	8015M	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-3 @ 5'			9-Mar-10	0900		1	X								SOIL			X										X								
02	MW-3 @ 10'			9-Mar-10	0910		1	X								SOIL			X										X								
03	MW-3 @ 30'			9-Mar-10	0925		1	X								SOIL			X										X								
04	MW-2 @ surface			9-Mar-10	1040		1	X								SOIL			X										X								
05	MW-2 @ 5'			9-Mar-10	1050		1	X								SOIL			X										X								
06	MW-2 @ 10'			9-Mar-10	1100		1	X								SOIL			X										X								
07	MW-2 @ 30'			9-Mar-10	1140		1	X								SOIL			X										X								
08	MW-1 @5'			9-Mar-10	1300		1	X								SOIL			X										X								
09	MW-1 @ 10'			9-Mar-10	1310		1	X								SOIL			X										X								
10	MW-1 @ 25'			9-Mar-10	1345		1	X								SOIL			X										X								

Special Instructions:

Relinquished by: Camille Bryant	Date 3/10/10	Time 1700	Received by:	Date 3/11/10	Time 1700
Relinquished by:	Date 3/11/10	Time 0640	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date 3/11/10	Time 0740

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 1.1 °C

Environmental Lab of Texas

a XENCO Laboratory Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

2 of 2

Project Manager: Camille Bryant

Project Name: Scharb Station Overflow

Company Name: Basin Consulting

Project #: 2008-210

Company Address: PO Box 381

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA-D. Bryant

Telephone No: 575-605-7210

Fax No: (575) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Camille Bryant

e-mail: cjbryant@basin-consulting.com

(lab use only)

ORDER #: 365219

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW – Drinking Water SL – Sludge; GW – Groundwater S – Soil/Solid; NP – Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 (TOTAL: X)	RCI	N.O.R.M.	CHLORIDES	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	MW-1 @ 30'			9-Mar-10	1400		1	X								SOIL	X								X					
12	MW-4 Surface			9-Mar-10	1530		1	X								SOIL	X								X					
13	MW-4 @ 5'			9-Mar-10	1540		1	X								SOIL	X								X					
14	MW-4 @ 10'			9-Mar-10	1550		1	X								SOIL	X								X					
15	MW-4 @ 15'			9-Mar-10	1610		1	X								SOIL	X								X					
16	MW-4 @ 20'			9-Mar-10	1630		1	X								SOIL	X								X					
17	MW-4 @ 25'			9-Mar-10	1650		1	X								SOIL	X								X					
18	MW-4 @ 30'			9-Mar-10	1710		1	X								SOIL	X								X					

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	3/10/10	1700		3/10/10	1700
Relinquished by:	Date	Time	Received by:	Date	Time
	3/11/10	0640			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3/10/10	0740

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin / Plains

Date/ Time: 3.11.10 0740

Lab ID # : 368219

Initials: BB / AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.1 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

Analytical Report 373107

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Station Overflow

2008-210

24-MAY-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

24-MAY-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **373107**
Scharb Station Overflow
Project Address: Lea County, NM

Jason Henry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 373107. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 373107 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 373107

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW-1	S	May-14-10 14:00	2 ft	373107-001
ESW-1	S	May-14-10 14:05	3 ft	373107-002
NSW-2	S	May-14-10 14:10	3.5 ft	373107-003
ESW-2	S	May-14-10 14:15	3 ft	373107-004
SSW-1	S	May-14-10 14:20	3 ft	373107-005
WSW-2	S	May-14-10 14:25	3.5 ft	373107-006
WSW-1	S	May-14-10 14:30	2 ft	373107-007
Floor-1	S	May-14-10 14:35	2.5 ft	373107-008
Floor-2	S	May-14-10 14:40	4 ft	373107-009
Floor-3	S	May-14-10 14:45	3.5 ft	373107-010

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Station Overflow

Project ID: 2008-210 *Report Date:* 24-MAY-10
Work Order Number: 373107 *Date Received:* 05/15/2010

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-806913 Percent Moisture
None

Batch: LBA-807128 TPH by SW8015 Mod
None

Batch: LBA-807733 BTEX by EPA 8021
SW8021BM

Batch 807733, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 373107-001, -003, -005, -006, -008, -004.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 807733, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 373107-005,373107-008,373107-006.

Batch: LBA-807744 BTEX by EPA 8021
SW8021BM

Batch 807744, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 372881-006 D,373107-007,373107-002
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 372881-006 D,373107-007,73107-002.
Samples 373107-009 and -010 were not reanalyzed due to similar matrix interferences with the surrogates noted in other samples from this site.

Certificate of Analysis Summary 373107

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Sat May-15-10 11:15 am
Report Date: 24-MAY-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	373107-001		373107-002		373107-003		373107-004		373107-005		373107-006	
	Field Id:	NSW-1		ESW-1		NSW-2		ESW-2		SSW-1		WSW-2	
	Depth:	2- ft		3- ft		3.5- ft		3- ft		3- ft		3.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-14-10 14:00		May-14-10 14:05		May-14-10 14:10		May-14-10 14:15		May-14-10 14:20		May-14-10 14:25	
BTEX by EPA 8021	*Extracted:*	May-19-10 14:58		May-21-10 11:00		May-19-10 14:58		May-19-10 14:58		May-19-10 14:58		May-19-10 14:58	
	Analyzed:	May-20-10 18:29		May-21-10 15:49		May-20-10 18:51		May-20-10 19:14		May-20-10 21:06		May-20-10 21:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.5379	ND	0.0012	ND	0.0011	ND	0.0012	ND	0.0011
Toluene		ND	0.0022	ND	1.076	ND	0.0025	ND	0.0022	ND	0.0023	ND	0.0023
Ethylbenzene		ND	0.0011	8.257	0.5379	ND	0.0012	ND	0.0011	ND	0.0012	ND	0.0011
m,p-Xylenes		ND	0.0022	38.62	1.076	ND	0.0025	ND	0.0022	0.0037	0.0023	ND	0.0023
o-Xylene		ND	0.0011	5.412	0.5379	ND	0.0012	ND	0.0011	ND	0.0012	ND	0.0011
Xylenes, Total		ND	0.0011	44.03	0.5379	ND	0.0012	ND	0.0011	0.0037	0.0012	ND	0.0011
Total BTEX		ND	0.0011	52.29	0.5379	ND	0.0012	ND	0.0011	0.0037	0.0012	ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	May-17-10 17:00		May-17-10 17:00		May-17-10 17:00		May-17-10 17:00		May-17-10 17:00		May-17-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.63	1.00	7.05	1.00	19.2	1.00	10.4	1.00	14.3	1.00	11.6	1.00
TPH by SW8015 Mod	*Extracted:*	May-17-10 14:00		May-17-10 14:00		May-17-10 14:00		May-17-10 14:00		May-17-10 14:00		May-17-10 14:00	
	Analyzed:	May-18-10 10:07		May-18-10 10:55		May-18-10 11:24		May-18-10 11:53		May-18-10 12:23		May-18-10 12:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.7	3310	162	ND	93.3	ND	16.7	ND	17.5	ND	16.9
C12-C28 Diesel Range Hydrocarbons		ND	16.7	4460	162	521	93.3	108	16.7	34.4	17.5	241	16.9
C28-C35 Oil Range Hydrocarbons		ND	16.7	756	162	114	93.3	32.0	16.7	ND	17.5	46.6	16.9
Total TPH		ND	16.7	8526	162	635	93.3	140	16.7	34.4	17.5	288	16.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 373107

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Sat May-15-10 11:15 am
Report Date: 24-MAY-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	373107-007		373107-008		373107-009		373107-010					
	Field Id:	WSW-1		Floor-1		Floor-2		Floor-3					
	Depth:	2- ft		2.5- ft		4- ft		3.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	May-14-10 14:30		May-14-10 14:35		May-14-10 14:40		May-14-10 14:45					
BTEX by EPA 8021	***Extracted:***	May-21-10 11:00		May-19-10 14:58		May-21-10 11:00		May-21-10 11:00					
	Analyzed:	May-21-10 16:12		May-20-10 22:13		May-21-10 16:35		May-21-10 16:57					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0110	ND	0.0011	ND	0.0234	ND	0.5533				
Toluene		0.1384	0.0220	ND	0.0022	0.1633	0.0467	ND	1.107				
Ethylbenzene		0.3897	0.0110	ND	0.0011	2.132	0.0234	3.591	0.5533				
m,p-Xylenes		4.723	0.0220	0.0025	0.0022	9.211	0.0467	14.56	1.107				
o-Xylene		1.265	0.0110	0.0015	0.0011	2.216	0.0234	2.462	0.5533				
Xylenes, Total		5.988	0.0110	0.0040	0.0011	11.427	0.0234	17.02	0.5533				
Total BTEX		6.516	0.0110	0.0040	0.0011	13.722	0.0234	20.61	0.5533				
Percent Moisture	***Extracted:***												
	Analyzed:	May-17-10 17:00		May-17-10 17:00		May-17-10 17:00		May-17-10 17:00					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		8.98	1.00	11.1	1.00	14.4	1.00	9.63	1.00				
TPH by SW8015 Mod	***Extracted:***	May-17-10 14:00		May-17-10 14:00		May-17-10 14:00		May-17-10 14:00					
	Analyzed:	May-18-10 13:23		May-18-10 15:02		May-18-10 15:31		May-18-10 16:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		602	16.5	ND	16.8	848	87.4	1280	82.9				
C12-C28 Diesel Range Hydrocarbons		1230	16.5	71.0	16.8	725	87.4	2800	82.9				
C28-C35 Oil Range Hydrocarbons		72.1	16.5	ND	16.8	ND	87.4	299	82.9				
Total TPH		1904	16.5	71.0	16.8	1573	87.4	4379	82.9				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107,

Project ID: 2008-210

Lab Batch #: 807733 **Sample:** 563967-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/20/10 14:22

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 807733 **Sample:** 563967-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/20/10 14:45

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 807733 **Sample:** 563967-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/20/10 15:52

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 807733 **Sample:** 373107-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 18:29

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0240	0.0300	80	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 807733 **Sample:** 373107-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 18:51

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107, **Project ID:** 2008-210

Lab Batch #: 807733 **Sample:** 373107-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 19:14

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 807733 **Sample:** 373107-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 21:06

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0230	0.0300	77	80-120	*
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 807733 **Sample:** 373107-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 21:28

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0235	0.0300	78	80-120	*
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 807733 **Sample:** 373107-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/20/10 22:13

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0232	0.0300	77	80-120	*
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 807733 **Sample:** 372870-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 01:13

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107,

Project ID: 2008-210

Lab Batch #: 807733 **Sample:** 372870-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 01:35

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 807744 **Sample:** 563977-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/21/10 13:55

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 807744 **Sample:** 563977-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/21/10 14:18

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 807744 **Sample:** 563977-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/21/10 15:26

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 807744 **Sample:** 373107-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 15:49

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0201	0.0300	67	80-120	**
4-Bromofluorobenzene	0.0402	0.0300	134	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107, **Project ID:** 2008-210

Lab Batch #: 807744 **Sample:** 373107-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 16:12

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0166	0.0300	55	80-120	**
4-Bromofluorobenzene	0.2077	0.0300	692	80-120	**

Lab Batch #: 807744 **Sample:** 373107-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 16:35

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0150	0.0300	50	80-120	**
4-Bromofluorobenzene	0.1447	0.0300	482	80-120	**

Lab Batch #: 807744 **Sample:** 373107-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/21/10 16:57

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0233	0.0300	78	80-120	**
4-Bromofluorobenzene	0.0399	0.0300	133	80-120	**

Lab Batch #: 807744 **Sample:** 372881-006 D / MD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/22/10 10:47

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0213	0.0300	71	80-120	**
4-Bromofluorobenzene	0.0519	0.0300	173	80-120	**

Lab Batch #: 807128 **Sample:** 563591-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/17/10 17:15

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.0	99.9	88	70-135	
o-Terphenyl	39.4	50.0	79	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107, **Project ID:** 2008-210

Lab Batch #: 807128 **Sample:** 563591-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/17/10 17:44

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.7	100	88	70-135	
o-Terphenyl	39.6	50.2	79	70-135	

Lab Batch #: 807128 **Sample:** 563591-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 05/17/10 18:15

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.3	100	79	70-135	
o-Terphenyl	44.1	50.1	88	70-135	

Lab Batch #: 807128 **Sample:** 373107-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 10:07

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.0	101	73	70-135	
o-Terphenyl	40.7	50.3	81	70-135	

Lab Batch #: 807128 **Sample:** 373107-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 10:55

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	42.5	50.1	85	70-135	

Lab Batch #: 807128 **Sample:** 373107-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 11:24

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.6	101	85	70-135	
o-Terphenyl	48.5	50.3	96	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107,

Project ID: 2008-210

Lab Batch #: 807128 **Sample:** 373107-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 11:53

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.7	99.7	79	70-135	
o-Terphenyl	43.8	49.9	88	70-135	

Lab Batch #: 807128 **Sample:** 373107-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 12:23

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.6	99.7	72	70-135	
o-Terphenyl	38.7	49.9	78	70-135	

Lab Batch #: 807128 **Sample:** 373107-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 12:53

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.7	99.7	76	70-135	
o-Terphenyl	41.2	49.9	83	70-135	

Lab Batch #: 807128 **Sample:** 373107-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 13:23

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.8	100	81	70-135	
o-Terphenyl	43.4	50.1	87	70-135	

Lab Batch #: 807128 **Sample:** 373107-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 15:02

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.1	99.8	74	70-135	
o-Terphenyl	41.6	49.9	83	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 373107, **Project ID:** 2008-210

Lab Batch #: 807128 **Sample:** 373107-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 15:31

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.2	99.7	77	70-135	
o-Terphenyl	36.9	49.9	74	70-135	

Lab Batch #: 807128 **Sample:** 373107-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 16:01

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	99.9	94	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

Lab Batch #: 807128 **Sample:** 373155-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 16:32

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.6	94	70-135	
o-Terphenyl	42.5	49.8	85	70-135	

Lab Batch #: 807128 **Sample:** 373155-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 05/18/10 17:02

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.8	100	94	70-135	
o-Terphenyl	42.5	50.0	85	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 373107 **Project ID:** 2008-210

Analyst: ASA **Date Prepared:** 05/19/2010 **Date Analyzed:** 05/20/2010

Lab Batch ID: 807733 **Sample:** 563967-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0991	99	0.1	0.1025	103	3	70-130	35	
Toluene	ND	0.1000	0.0962	96	0.1	0.1005	101	4	70-130	35	
Ethylbenzene	ND	0.1000	0.0956	96	0.1	0.1011	101	6	71-129	35	
m,p-Xylenes	ND	0.2000	0.1882	94	0.2	0.2007	100	6	70-135	35	
o-Xylene	ND	0.1000	0.0947	95	0.1	0.1008	101	6	71-133	35	

Analyst: ASA **Date Prepared:** 05/21/2010 **Date Analyzed:** 05/21/2010

Lab Batch ID: 807744 **Sample:** 563977-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1014	101	0.1	0.1001	100	1	70-130	35	
Toluene	ND	0.1000	0.0998	100	0.1	0.0988	99	1	70-130	35	
Ethylbenzene	ND	0.1000	0.1009	101	0.1	0.1004	100	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.2016	101	0.2	0.2009	100	0	70-135	35	
o-Xylene	ND	0.1000	0.0991	99	0.1	0.0991	99	0	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 373107 **Project ID:** 2008-210

Analyst: BEV **Date Prepared:** 05/17/2010 **Date Analyzed:** 05/17/2010

Lab Batch ID: 807128 **Sample:** 563591-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	999	992	99	1000	988	99	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	815	82	1000	717	72	13	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 373107 **Project ID:** 2008-210

Lab Batch ID: 807733 **QC- Sample ID:** 372870-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 05/21/2010 **Date Prepared:** 05/19/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1040	0.0492	47	0.1040	0.0530	51	7	70-130	35	X
Toluene	ND	0.1040	0.0451	43	0.1040	0.0488	47	8	70-130	35	X
Ethylbenzene	0.0014	0.1040	0.0370	34	0.1040	0.0445	41	18	71-129	35	X
m,p-Xylenes	0.0031	0.2081	0.0372	16	0.2081	0.0406	18	9	70-135	35	X
o-Xylene	0.0023	0.1040	0.0551	51	0.1040	0.0600	55	9	71-133	35	X

Lab Batch ID: 807128 **QC- Sample ID:** 373155-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 05/18/2010 **Date Prepared:** 05/17/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	40.5	1240	1320	103	1240	1300	102	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	42.3	1240	1040	80	1240	1240	97	18	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 373107

Lab Batch #: 807744 **Project ID:** 2008-210

Date Analyzed: 05/22/2010 **Date Prepared:** 05/21/2010 **Analyst:** ASA

QC- Sample ID: 372881-006 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

BTEX by EPA 8021	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Benzene	ND	ND	NC	35	
Toluene	5.107	5.352	5	35	
Ethylbenzene	5.314	5.711	7	35	
m,p-Xylenes	52.63	58.72	11	35	
o-Xylene	14.91	17.14	14	35	

Lab Batch #: 806913

Date Analyzed: 05/17/2010 **Date Prepared:** 05/17/2010 **Analyst:** JLG

QC- Sample ID: 373107-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	9.63	10.1	4	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Camille Bryant PAGE 01 OF 01

Project Name: Scharb Station Overflow

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2008-210

Company Address: 2800 Plains Hwy

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - J. Henry

Telephone No: (575) 441-2244 Fax No: (575) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C.T.S.

e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 373107

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (VOA X 2)	H_2SO_4	NaOH	$Na_2S_2O_3$	None (PAH)	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	PAH	EPA Paint Filter Test	Chlorides E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	NSW-1	2'		5/14/2010	1400		1	X								Soil	X								X							X
-002	ESW-1	3'		5/14/2010	1405		1	X								Soil	X								X							X
-003	NSW-2	3.5'		5/14/2010	1410		1	X								Soil	X								X							X
-004	ESW-2	3'		5/14/2010	1415		1	X								Soil	X								X							X
-005	SSW-1	3'		5/14/2010	1420		1	X								Soil	X								X							X
-006	WSW-2	3.5'		5/14/2010	1425		1	X								Soil	X								X							X
-007	WSW-1	2'		5/14/2010	1430		1	X								Soil	X								X							X
-008	Floor-1	2.5'		5/14/2010	1435		1	X								Soil	X								X							X
-009	Floor-2	4'		5/14/2010	1440		1	X								Soil	X								X							X
-010	Floor-3	3.5'		5/14/2010	1445		1	X								Soil	X								X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
C.T.S.	5/15/10	11:14			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Julio Garcia	5/15/10	11:15

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Bain Environmental

Date/ Time: 5/15/10 11:15

Lab ID # : 373107

Initials: JG

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

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

Analytical Report 375792

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Station Overflow

SRS # 2008-210

09-JUN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

09-JUN-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **375792**
Scharb Station Overflow
Project Address: Lea County, NM

Jason Henry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 375792. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 375792 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 375792

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
W-SW-1A	S	Jun-07-10 09:00		375792-001
E-SW-1A	S	Jun-07-10 09:10		375792-002
Floor-2A	S	Jun-07-10 09:15		375792-003
Floor-3A	S	Jun-07-10 09:25		375792-004

Project ID: *SRS # 2008-210* *Report Date:* *09-JUN-10*
Work Order Number: *375792* *Date Received:* *06/07/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-809631 Percent Moisture
None

Batch: LBA-809635 Percent Moisture
AD2216A
Batch 809635, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.
Samples affected are: 375792-003, -004.

Batch: LBA-809722 TPH by SW8015 Mod
SW8015MOD_NM

Batch 809722, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 375792-003, -004, -002, -001.
The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-809723 BTEX by EPA 8021
SW8021BM

Batch 809723, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 375792-002.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 375792

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: SRS # 2008-210
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-07-10 12:25 pm
Report Date: 09-JUN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	375792-001		375792-002		375792-003		375792-004					
	Field Id:	W-SW-1A		E-SW-1A		Floor-2A		Floor-3A					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-07-10 09:00		Jun-07-10 09:10		Jun-07-10 09:15		Jun-07-10 09:25					
BTEX by EPA 8021	*Extracted:*			Jun-08-10 07:30									
	Analyzed:			Jun-08-10 17:12									
	Units/RL:			mg/kg	RL								
Benzene				ND	0.0010								
Toluene				ND	0.0021								
Ethylbenzene				ND	0.0010								
m,p-Xylenes				ND	0.0021								
o-Xylene				ND	0.0010								
Xylenes, Total				ND	0.0010								
Total BTEX				ND	0.0010								
Percent Moisture	*Extracted:*												
	Analyzed:	Jun-07-10 17:00		Jun-07-10 17:00		Jun-08-10 10:32		Jun-08-10 10:32					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		5.30	1.00	3.86	1.00	6.49	1.00	10.5	1.00				
TPH by SW8015 Mod	*Extracted:*	Jun-08-10 09:00		Jun-08-10 09:00		Jun-08-10 09:00		Jun-08-10 09:00					
	Analyzed:	Jun-08-10 15:07		Jun-08-10 15:35		Jun-08-10 16:03		Jun-08-10 16:31					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	15.6	561	16.0	118	16.8				
C12-C28 Diesel Range Hydrocarbons		90.0	15.9	767	15.6	1580	16.0	781	16.8				
C28-C35 Oil Range Hydrocarbons		ND	15.9	93.1	15.6	108	16.0	66.1	16.8				
Total TPH		90.0	15.9	860	15.6	2249	16.0	965	16.8				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 375792,

Project ID: SRS # 2008-210

Lab Batch #: 809723 **Sample:** 565180-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/08/10 08:32

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 809723 **Sample:** 565180-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/08/10 09:38

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 809723 **Sample:** 375775-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 10:32

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Lab Batch #: 809723 **Sample:** 375775-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 10:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 809723 **Sample:** 375792-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 17:12

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 375792,

Project ID: SRS # 2008-210

Lab Batch #: 809722 **Sample:** 565181-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/08/10 10:59

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	49.9	50.2	99	70-135	

Lab Batch #: 809722 **Sample:** 565181-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/08/10 11:26

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	99.6	120	70-135	
o-Terphenyl	47.9	49.8	96	70-135	

Lab Batch #: 809722 **Sample:** 565181-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/08/10 11:54

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	101	107	70-135	
o-Terphenyl	53.9	50.3	107	70-135	

Lab Batch #: 809722 **Sample:** 375792-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 15:07

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	100	96	70-135	
o-Terphenyl	47.6	50.2	95	70-135	

Lab Batch #: 809722 **Sample:** 375792-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 15:35

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	99.8	85	70-135	
o-Terphenyl	42.5	49.9	85	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 375792,

Project ID: SRS # 2008-210

Lab Batch #: 809722 **Sample:** 375792-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 16:03

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 809722 **Sample:** 375792-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 16:31

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	51.6	50.2	103	70-135	

Lab Batch #: 809722 **Sample:** 375792-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 18:49

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.7	117	70-135	
o-Terphenyl	46.9	49.9	94	70-135	

Lab Batch #: 809722 **Sample:** 375792-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/08/10 19:17

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	48.5	50.2	97	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Scharb Station Overflow

Work Order #: 375792 **Project ID:** SRS # 2008-210

Lab Batch #: 809723 **Sample:** 565180-1-BKS **Matrix:** Solid

Date Analyzed: 06/08/2010 **Date Prepared:** 06/08/2010 **Analyst:** ASA

Reporting Units: mg/kg **Batch #:** 1

BTEX by EPA 8021 Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.1000	0.0929	93	70-130	
Toluene	ND	0.1000	0.1031	103	70-130	
Ethylbenzene	ND	0.1000	0.1014	101	71-129	
m,p-Xylenes	ND	0.2000	0.2200	110	70-135	
o-Xylene	ND	0.1000	0.1096	110	71-133	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 375792 **Project ID:** SRS # 2008-210

Analyst: BEV **Date Prepared:** 06/08/2010 **Date Analyzed:** 06/08/2010

Lab Batch ID: 809722 **Sample:** 565181-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1130	113	996	1080	108	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1070	107	996	944	95	13	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 375792 **Project ID:** SRS # 2008-210

Lab Batch ID: 809723 **QC- Sample ID:** 375775-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/08/2010 **Date Prepared:** 06/08/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1163	0.0551	47	0.1156	0.0589	51	7	70-130	35	X
Toluene	ND	0.1163	0.0699	60	0.1156	0.0680	59	3	70-130	35	X
Ethylbenzene	ND	0.1163	0.0708	61	0.1156	0.0719	62	2	71-129	35	X
m,p-Xylenes	ND	0.2327	0.1513	65	0.2313	0.1511	65	0	70-135	35	X
o-Xylene	ND	0.1163	0.0740	64	0.1156	0.0737	64	0	71-133	35	X

Lab Batch ID: 809722 **QC- Sample ID:** 375792-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/08/2010 **Date Prepared:** 06/08/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	1090	104	1060	1140	108	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	90.0	1050	1050	91	1060	766	64	31	70-135	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 375792

Lab Batch #: 809631 **Project ID:** SRS # 2008-210

Date Analyzed: 06/07/2010 **Date Prepared:** 06/07/2010 **Analyst:** JLG

QC- Sample ID: 375647-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.6	11.6	0	20	

Lab Batch #: 809635

Date Analyzed: 06/08/2010 **Date Prepared:** 06/08/2010 **Analyst:** JLG

QC- Sample ID: 375792-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.49	8.03	21	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Bryant
Project Name: Scharb Station Overflow
Company Name: Basin Environmental Consulting, LLC
Project #: SRS# 2008-210
Company Address: P. O. Box 381
Project Loc: Lea County, NM
City/State/Zip: Lovington, NM 88260
PO #: PAA-J. Henry
Telephone No: (575)605-7210 Fax No: (505) 396-1429
Report Format: [X] Standard [ ] TRRP [ ] NPDES
Sampler Signature: e-mail: cjbryant@basin-consulting.com

(lab use only)
ORDER #: 375792

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW – Drinking Water SL – Sludge GW – Groundwater S – Soil/Sol NP – Non-Potable Specify Oth	Analyze For: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se (TCLP)	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 (TOTAL)	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	W-SW-1A			7-Jun-10	900		1	X								Soil	X												X
02	E-SW-1A			7-Jun-10	9:10		1	X								Soil	X								X				X
03	Floor-2A			7-Jun-10	9:15		1	X								Soil	X												X
04	Floor-3A			7-Jun-10	9:25		1	X								Soil	X												X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/7/2010	12:25			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	6.7.10	12:25

Laboratory Comments:
Sample Containers Intact? N
VOCs Free of Headspace? N
Labels on container(s) N
Custody seals on container(s) N
Custody seals on cooler(s) N
Sample Hand Delivered N
by Sampler/Client Rep. ? N
by Courier? UPS DHL FedEx Lone Star
4 oz glass
Temperature Upon Receipt: 4.6 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains

Date/Time: 6.7.10 12:25

Lab ID # : 375792

Initials: AL

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	4.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 378733

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Station Overflow

SRS # 2008-210

25-JUN-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

25-JUN-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **378733**
Scharb Station Overflow
Project Address: Lea County, NM

Jason Henry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 378733. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 378733 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 378733

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 2 B	S	Jun-21-10 12:30		378733-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Station Overflow

Project ID: *SRS # 2008-210*
Work Order Number: *378733*

Report Date: *25-JUN-10*
Date Received: *06/24/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-812155 Percent Moisture
None

Batch: LBA-812209 TPH by SW8015 Mod
None

Certificate of Analysis Summary 378733

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: SRS # 2008-210
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Jun-24-10 03:00 pm
Report Date: 25-JUN-10
Project Manager: *Brent Barron, II*

Analysis Requested							
	Lab Id:	378733-001					
	Field Id:	Floor 2 B					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Jun-21-10 12:30					
Percent Moisture	***Extracted:***						
	Analyzed:	Jun-25-10 08:28					
	Units/RL:	%	RL				
Percent Moisture		20.6	1.00				
TPH by SW8015 Mod	***Extracted:***	Jun-24-10 15:00					
	Analyzed:	Jun-25-10 09:27					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		385	18.8				
C12-C28 Diesel Range Hydrocarbons		1600	18.8				
C28-C35 Oil Range Hydrocarbons		99.0	18.8				
Total TPH		2084	18.8				

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 378733,

Project ID: SRS # 2008-210

Lab Batch #: 812209 **Sample:** 566654-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/24/10 16:03

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.9	114	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 812209 **Sample:** 566654-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/24/10 16:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	50.8	49.9	102	70-135	

Lab Batch #: 812209 **Sample:** 566654-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 06/24/10 16:57

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.9	116	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

Lab Batch #: 812209 **Sample:** 378733-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/25/10 09:27

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	99.5	128	70-135	
o-Terphenyl	63.9	49.8	128	70-135	

Lab Batch #: 812209 **Sample:** 378697-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/25/10 10:01

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 378733,

Project ID: SRS # 2008-210

Lab Batch #: 812209 **Sample:** 378697-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 06/25/10 10:28

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.9	118	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 378733 **Project ID:** SRS # 2008-210

Analyst: BEV **Date Prepared:** 06/24/2010 **Date Analyzed:** 06/24/2010

Lab Batch ID: 812209 **Sample:** 566654-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	999	1200	120	997	1150	115	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	1040	104	997	818	82	24	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Final 1.000

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 378733 **Project ID:** SRS # 2008-210

Lab Batch ID: 812209 **QC- Sample ID:** 378697-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/25/2010 **Date Prepared:** 06/24/2010 **Analyst:** BEV

Reporting Units: mg/kg

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	1010	1200	119	1010	1250	124	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1010	1020	101	1010	1010	100	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 378733

Lab Batch #: 812155 **Project ID:** SRS # 2008-210

Date Analyzed: 06/25/2010 **Date Prepared:** 06/25/2010 **Analyst:** JLG

QC- Sample ID: 378692-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.25	6.22	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Camille Bryant

Company Name: Basin Environmental Consulting, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (575)605-7210 Fax No: (505) 396-1429

Sampler Signature: (for Eb. Taylor)

Project Name: Scharb Station Overflow

Project #: SRS# 2008-210

Project Loc: Lea County, NM

PO #: PAA-J. Henry

Report Format: [X] Standard [ ] TRRP [ ] NPDES

e-mail: cjbryant@basin-consulting.com

(lab use only)
ORDER #: 378733

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Sol	NP = Non-Potable Specify Oth	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	8021B or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Floor 2B			21-Jun-10	1230		1	X								Soil			X								X				X

TCLP:
TOTAL: X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/21	15:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	6-24-10	15:00

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star
4029195

Temperature Upon Receipt: 3.0 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains

Date/Time: 6.24.10 15:00

Lab ID #: 378733

Initials: AR

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	3.0 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 384538

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Station Overflow

SRS# 2008-210

09-AUG-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

09-AUG-10

Project Manager: **Jason Henry**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **384538**
Scharb Station Overflow
Project Address: Lea County, NM

Jason Henry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 384538. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 384538 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron
Odessa Laboratory Director

Sample Cross Reference 384538

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 2C	S	Aug-04-10 15:30		384538-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Station Overflow

Project ID:	*SRS# 2008-210*	*Report Date:*	*09-AUG-10*
Work Order Number:	*384538*	*Date Received:*	*08/05/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-817871 Percent Moisture
None

Batch: LBA-817882 TPH by SW8015 Mod
None

Certificate of Analysis Summary 384538

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: SRS# 2008-210
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Aug-05-10 02:10 pm
Report Date: 09-AUG-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	384538-001					
	Field Id:	Floor 2C					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Aug-04-10 15:30					
Percent Moisture	*Extracted:*						
	Analyzed:	Aug-07-10 09:24					
	Units/RL:	%	RL				
Percent Moisture		9.30	1.00				
TPH by SW8015 Mod	*Extracted:*	Aug-06-10 13:15					
	Analyzed:	Aug-06-10 23:38					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		22.2	16.5				
C12-C28 Diesel Range Hydrocarbons		162	16.5				
C28-C35 Oil Range Hydrocarbons		ND	16.5				
Total TPH		184	16.5				

Brent Barron
Odessa Laboratory Director

Final 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 384538,

Project ID: SRS# 2008-210

Lab Batch #: 817882 **Sample:** 570025-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/06/10 21:59

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	63.9	50.0	128	70-135	

Lab Batch #: 817882 **Sample:** 570025-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/06/10 22:19

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	57.0	50.2	114	70-135	

Lab Batch #: 817882 **Sample:** 570025-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/06/10 22:39

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	57.2	50.1	114	70-135	

Lab Batch #: 817882 **Sample:** 384538-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/06/10 23:38

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	58.0	50.0	116	70-135	

Lab Batch #: 817882 **Sample:** 384564-004 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 05:53

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	47.7	50.2	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 384538,

Project ID: SRS# 2008-210

Lab Batch #: 817882 **Sample:** 384564-004 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 06:12

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	101	123	70-135	
o-Terphenyl	56.0	50.3	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 384538
Analyst: BEV
Lab Batch ID: 817882
Sample: 570025-1-BKS
Units: mg/kg

Date Prepared: 08/06/2010
Batch #: 1

Project ID: SRS# 2008-210
Date Analyzed: 08/06/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1070	107	1000	1120	112	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	877	88	1000	1000	100	13	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 384538 **Project ID:** SRS# 2008-210

Lab Batch ID: 817882 **QC- Sample ID:** 384564-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/07/2010 **Date Prepared:** 08/06/2010 **Analyst:** BEV

Reporting Units: mg/kg

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	1050	1130	108	1060	1120	106	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1050	956	91	1060	1030	97	7	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 384538

Lab Batch #: 817871 **Project ID:** SRS# 2008-210

Date Analyzed: 08/07/2010 **Date Prepared:** 08/07/2010 **Analyst:** JLG

QC- Sample ID: 384538-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	9.30	9.69	4	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Analytical Report 367418

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Scharb Station Overflow

2008-210

06-APR-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

06-APR-10

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **367418**
Scharb Station Overflow
Project Address: Lea County, NM

Daniel Bryant:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 367418. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 367418 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 367418

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Station Overflow

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-30-10 08:15		367418-001
MW-2	W	Mar-30-10 09:10		367418-002
MW-3	W	Mar-30-10 09:50		367418-003
MW-4	W	Mar-30-10 10:30		367418-004

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Station Overflow

Project ID: 2008-210 | *Report Date:* 06-APR-10
Work Order Number: 367418 | *Date Received:* 03/31/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-801032 BTEX by EPA 8021
SW8021BM

Batch 801032, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 367414-002 S.

Batch: LBA-801115 Inorganic Anions by EPA 300
None

Batch: LBA-801229 TDS by SM2540C
None

Certificate of Analysis Summary 367418

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Station Overflow

Project Id: 2008-210
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Wed Mar-31-10 09:00 am
Report Date: 06-APR-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	367418-001		367418-002		367418-003		367418-004					
	Field Id:	MW-1		MW-2		MW-3		MW-4					
	Depth:												
	Matrix:	WATER		WATER		WATER		WATER					
	Sampled:	Mar-30-10 08:15		Mar-30-10 09:10		Mar-30-10 09:50		Mar-30-10 10:30					
BTEX by EPA 8021	*Extracted:*	Apr-02-10 10:00		Apr-02-10 10:00		Apr-02-10 10:00		Apr-02-10 10:00					
	Analyzed:	Apr-02-10 14:52		Apr-02-10 15:12		Apr-02-10 15:33		Apr-02-10 15:54					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010				
Toluene		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010				
m,p-Xylenes		ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010				
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010				
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010				
Inorganic Anions In Water by E300	*Extracted:*												
	Analyzed:	Apr-05-10 10:49		Apr-05-10 10:49		Apr-05-10 10:49		Apr-05-10 10:49					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Chloride		24.4	5.00	82.4	5.00	157	5.00	32.5	5.00				
TDS by SM2540C	*Extracted:*												
	Analyzed:	Apr-05-10 16:00		Apr-05-10 16:00		Apr-05-10 16:00		Apr-05-10 16:00					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Total dissolved solids		476	5.00	764	5.00	802	5.00	502	5.00				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 367418, **Project ID:** 2008-210

Lab Batch #: 801032 **Sample:** 559837-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 11:03

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 801032 **Sample:** 559837-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 11:24

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 801032 **Sample:** 559837-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 12:26

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 801032 **Sample:** 367418-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 14:52

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 801032 **Sample:** 367418-002 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 15:12

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Scharb Station Overflow

Work Orders : 367418,

Project ID: 2008-210

Lab Batch #: 801032 **Sample:** 367418-003 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 15:33

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 801032 **Sample:** 367418-004 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 15:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 801032 **Sample:** 367414-002 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 20:22

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0204	0.0300	68	80-120	*

Lab Batch #: 801032 **Sample:** 367414-002 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 04/02/10 20:42

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0452	0.0300	151	80-120	*

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Scharb Station Overflow

Work Order #: 367418 **Project ID:** 2008-210

Lab Batch #: 801115 **Sample:** 801115-1-BKS **Matrix:** Water

Date Analyzed: 04/05/2010 **Date Prepared:** 04/05/2010 **Analyst:** LATCOR

Reporting Units: mg/L **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions In Water by E300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.95	100	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Scharb Station Overflow

Work Order #: 367418 **Project ID:** 2008-210

Analyst: ASA **Date Prepared:** 04/02/2010 **Date Analyzed:** 04/02/2010

Lab Batch ID: 801032 **Sample:** 559837-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1000	0.0890	89	0.1	0.0982	98	10	70-125	25	
Toluene	ND	0.1000	0.0878	88	0.1	0.0973	97	10	70-125	25	
Ethylbenzene	ND	0.1000	0.0889	89	0.1	0.0986	99	10	71-129	25	
m,p-Xylenes	ND	0.2000	0.1816	91	0.2	0.2020	101	11	70-131	25	
o-Xylene	ND	0.1000	0.0905	91	0.1	0.1003	100	10	71-133	25	

Analyst: WRU **Date Prepared:** 04/05/2010 **Date Analyzed:** 04/05/2010

Lab Batch ID: 801229 **Sample:** 801229-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

TDS by SM2540C	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Total dissolved solids	ND	1000	944	94	1000	928	93	2	80-120	30	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Scharb Station Overflow

Work Order #: 367418
Lab Batch #: 801115
Project ID: 2008-210
Date Analyzed: 04/05/2010
Date Prepared: 04/05/2010
Analyst: LATCOR
QC- Sample ID: 366822-001 S
Batch #: 1
Matrix: Water
Reporting Units: mg/L

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	148	100	239	91	90-110	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Scharb Station Overflow

Work Order # : 367418 **Project ID:** 2008-210

Lab Batch ID: 801032 **QC- Sample ID:** 367414-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 04/02/2010 **Date Prepared:** 04/02/2010 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0770	77	0.1000	0.0807	81	5	70-125	25	
Toluene	ND	0.1000	0.0766	77	0.1000	0.0810	81	6	70-125	25	
Ethylbenzene	ND	0.1000	0.0776	78	0.1000	0.0828	83	6	71-129	25	
m,p-Xylenes	ND	0.2000	0.1566	78	0.2000	0.1665	83	6	70-131	25	
o-Xylene	ND	0.1000	0.0801	80	0.1000	0.0839	84	5	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Scharb Station Overflow

Work Order #: 367418

Lab Batch #: 801115 **Project ID:** 2008-210

Date Analyzed: 04/05/2010 **Date Prepared:** 04/05/2010 **Analyst:** LATCOR

QC- Sample ID: 366822-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Inorganic Anions In Water by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	148	147	1	20	

Lab Batch #: 801229

Date Analyzed: 04/05/2010 **Date Prepared:** 04/05/2010 **Analyst:** WRU

QC- Sample ID: 367418-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

TDS by SM2540C	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	476	468	2	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Camille Bryant
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P. O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)605-7210 Fax No: (505) 396-1429
Sampler Signature: Camille Bryant for Cody Reynolds

Project Name: Scharb Station Overflow
Project #: 2008-210
Project Loc: Lea County, NM
PO #: PAA - D. Bryant
Report Format: [X] Standard [ ] TRRP [ ] NPDES
cjbryant@basin-consulting.com

(lab use only)
ORDER #: 367418

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge; GW=Groundwater S=Soil/Solid; NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	TDS	Chloride E 300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
																	TCLP:								X								
																	TOTAL:								X								
01	MW-1			3/30/2010	0815		4	1		3						GW									X			X	X			X
02	MW-2			3/30/2010	0910		4	1		3						GW									X			X	X			X
03	MW-3			3/30/2010	0950		4	1		3						GW									X			X	X			X
04	MW-4			3/30/2010	1030		4	1		3						GW									X			X	X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant for Cody Reynolds	3/30/10	1600		3/30/10	1600
	3/31/10	0900			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3/31/10	0900

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 5.5 °C

labels & seals

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Environmental/Plains

Date/ Time: 3/31/10 09:00

Lab ID #: 367418

Initials: AA

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	5.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

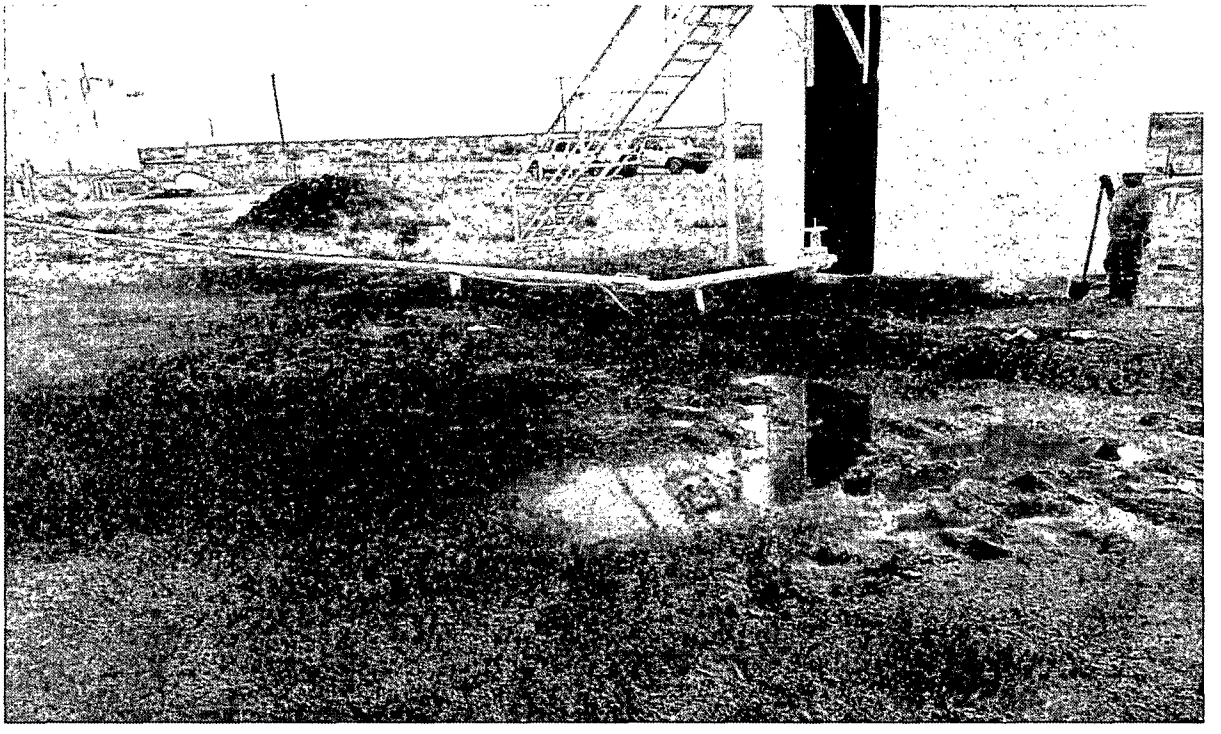
Regarding: _____

Corrective Action Taken:

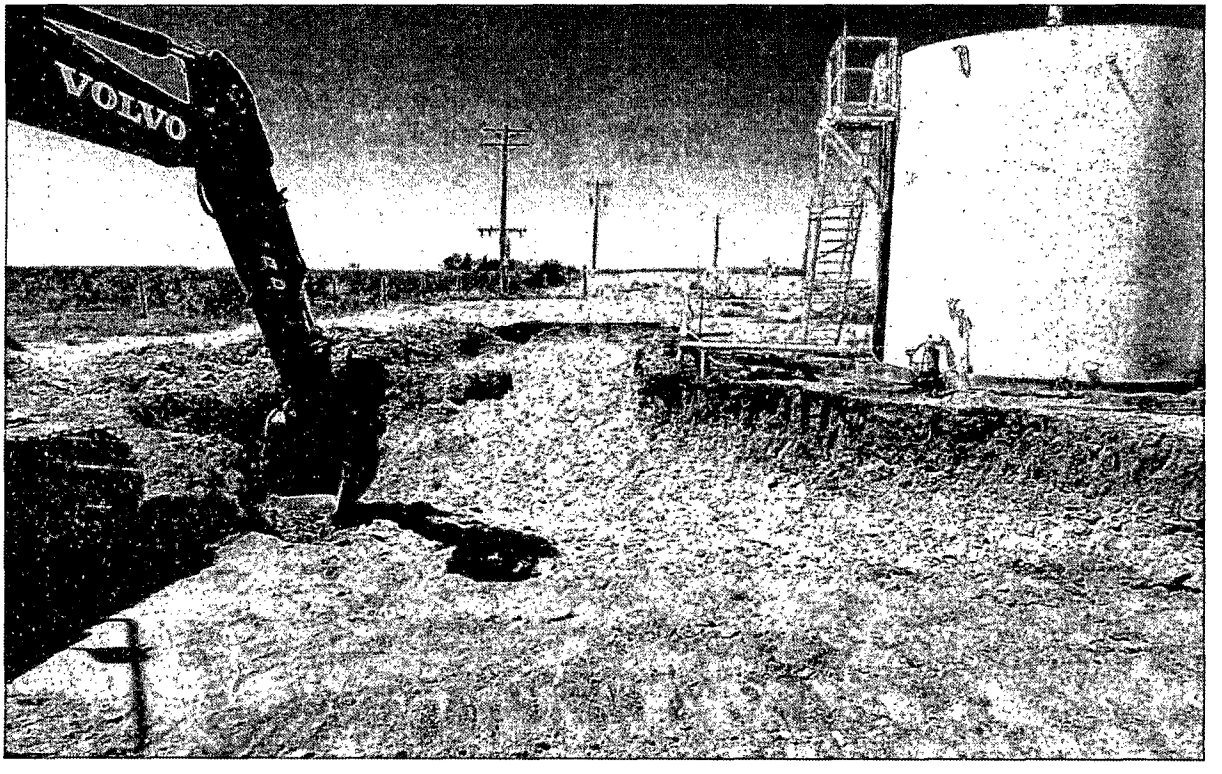
Check all that Apply:

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

Appendix C
Photographs

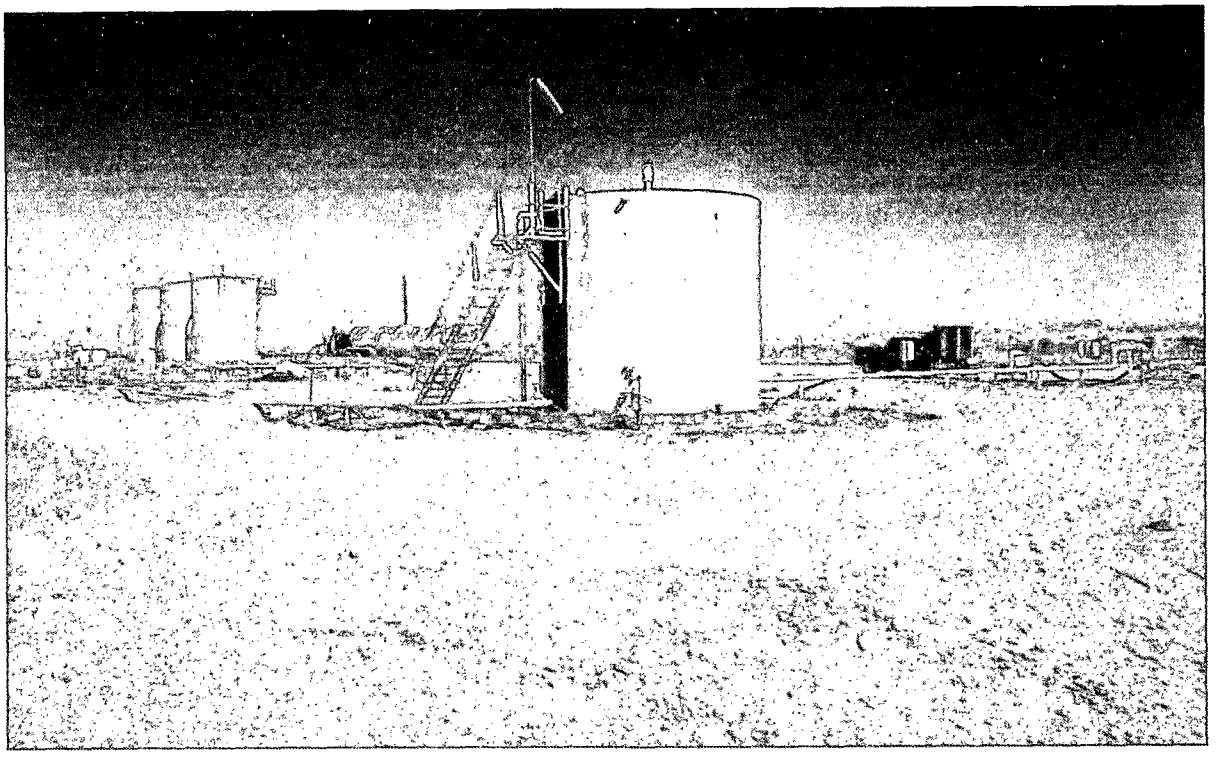


Scharb Station Overflow Initial Release



Excavation Activities at the Scharb Station Overflow Release Site

Plugging of Monitor Wells at the Scharb Station Overflow Release Site



Completion on Remediation Activities at the Scharb Station Overflow Release Site

Appendix D
Plugging Reports

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
SCHARB STATION MW-1	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
PLAINS MARKETING LP	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
333 CLAY STREET, SUITE 1600	HOUSTON / TX / 77078

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	41	1.00	N
	LONGITUDE	103	28	17.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

PEARL VALLEY ROAD OFF HWY 529 LEA COUNTY. NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	MARTIN STRAUB	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-31-10	4-31-10	45	45	

COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID ☐ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	2	45	2	1.5 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	0	2	2	1/4 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

PLUGGING REPORT
1 FT CASING REMOVED

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Martin Strahl — SIGNATURE OF DRILLER

5-5-10 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): SCHARB STATION MW-2				OSE FILE NUMBER(S):	
WELL OWNER NAME(S): PLAINS MARKETING LP				PHONE (OPTIONAL):	
WELL OWNER MAILING ADDRESS: 333 CLAY STREET, SUITE 1600				CITY: HOUSTON	STATE: TX ZIP: 77078
WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
	LATITUDE	32	41	1.00 N	
	LONGITUDE	103	28	17.00 W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: PEARL VALLEY ROAD OFF HWY 529 LEA COUNTY. NM					

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	MARTIN STRAUB	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-31-10	4-31-10	45	45	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	2	45	2	1.5 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	0	2	2	1/4 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS

PLUGGING REPORT
1 FT CASING REMOVED

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Martin Stark — SIGNATURE OF DRILLER

5-5-10 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
SCHARB STATION MW-3	
WELL OWNER NAME(S)	PHONE (OPTIONAL)
PLAINS MARKETING LP	
WELL OWNER MAILING ADDRESS	CITY / STATE / ZIP
333 CLAY STREET, SUITE 1600	HOUSTON / TX / 77078

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	41	1.00	N
	LONGITUDE	103	28	17.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

PEARL VALLEY ROAD OFF HWY 529 LEA COUNTY, NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	MARTIN STRAUB	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-31-10	4-31-10	45	45	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	2	45	2	1.5 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	0	2	2	1/4 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST
METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:
PLUGGING REPORT
1 FT CASING REMOVED

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Martin Strat — SIGNATURE OF DRILLER

5-5-10 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): SCHARB STATION MW-4		OSE FILE NUMBER(S):	
WELL OWNER NAME(S): PLAINS MARKETING LP		PHONE (OPTIONAL):	
WELL OWNER MAILING ADDRESS: 333 CLAY STREET, SUITE 1600		CITY: HOUSTON	STATE: TX ZIP: 77078

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	41	1.00	N
	LONGITUDE	103	28	17.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: PEARL VALLEY ROAD OFF HWY 529 LEA COUNTY, NM

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	MARTIN STRAUB	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-31-10	4-31-10	43	43	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

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TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	2	43	2	1.5 BAGS OF 3/8 HOLEPLUG		TOPLOAD
	0	2	2	1/4 BAG OF CEMENT		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST

METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS.

PLUGGING REPORT
1 FT CASING REMOVED

8. SIGNATURE

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Mark Stark — SIGNATURE OF DRILLER

5-5-10 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

Appendix E
Release Notification and Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Marketing, LP	Contact	Daniel Bryant
Address	P.O. Box 3119 – Midland, Tx 79702	Telephone No.	(432) 557-5865
Facility Name	Scharb Station Overfill	Facility Type	Truck Station

Surface Owner	Mineral Owner	Lease No.
E.P. Caudill		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	19S	35E					Lea

Latitude N 32.68700000° **Longitude** W 103.47095000°

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 18 bbls	Volume Recovered: 3 bbls
Source of Release: Tank at Scharb Truck Station	Date and Hour of Occurrence: 08/09/2008	Date and Hour of Discovery: 08/09/2008 01:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson (left message)	
By Whom? Daniel Bryant	Date and Hour: 08/11/2008 09:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Crude oil was released when the tank was overfilled by a transport unloading at the facility.

Describe Area Affected and Cleanup Action Taken.*
Visible staining from the release measured approx. 35' X 25'.
All released materials were contained inside the secondary containment.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Daniel Bryant	Approved by District Supervisor:	
Title: Environmental R/C Specialist	Approval Date:	Expiration Date:
E-mail Address: dmbryant@paalp.com	Conditions of Approval:	Attached ☐
Date: Phone: (432) 557-5865		

* Attach Additional Sheets If Necessary