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 1RP-2723

OPERATOR

☐ Initial Report ☒ **Final Report**

Name of Company	**Plains Pipeline, LP**	Contact	**Jason Henry**
Address	**2530 State Hwy. 214, Denver City, TX 79323**	Telephone No.	**(575) 441-1099**
Facility Name	**Scharb Meter Sump Overflow**	Facility Type	**Crude Oil Storage**

Surface Owner **Plains Pipeline, L.P.**	Mineral Owner	Lease No.

LOCATION OF RELEASE API #30-025-12803

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	**34**	**20S**	**34E**					**Lea**

Latitude N 32.5334° Longitude W 103.5457°

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **23 bbls**	Volume Recovered **6 bbls**
Source of Release **Sump overflow**	Date and Hour of Occurrence **07/01/2011 @ 04:30**	Date and Hour of Discovery **07/01/2011 @ 04:30**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Verbal notification to Geoff Leking (Voice mail)**	
By Whom? **Jason Henry**	Date and Hour **07/01/2011 @ 14:00**	
Was a Watercourse Reached? ☐ Yes ☒ **No**	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

HOBBS OCD

MAR 22 2012

GW=90'

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

Check meter at Lynch Station locked down and relieved to the sump. The sump was operating but couldn't keep up and the sump overflowed. A vacuum truck was utilized to recover the crude oil that pooled on the surface.

Describe Area Affected and Cleanup Action Taken.*

Please see the attached Basin Environmental *Remediation Summary and Site Closure Request* for details regarding 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: Jason Henry

Printed Name: **Jason Henry**

Title: **Remediation Coordinator**

E-mail Address: **jhenry@paalp.com**

Date: 03/22/2012 Phone: **(575) 441-1099**

OIL CONSERVATION DIVISION

Approved by ~~District Supervisor~~ ENV SPECIALIST: Jeff Leking

Approval Date: 3-22-12 Expiration Date: —

Conditions of Approval: —

Attached ☐

1RP-7-11-2723

* Attach Additional Sheets If Necessary

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST

PLAINS MARKETING, LP
SCHARB METER SUMP OVERFLOW
Plains SRS #2011-106
Lea County, New Mexico
Unit Letter "B" (NW/NE), Section 34, Township 20 South, Range 34 East
Latitude 32. 5334° North, Longitude 103.5457° West
NMOCD Reference #1RP-07-11-2723

Prepared For:

Plains Pipeline, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

December 2011

Ben J. Arguijo
Project Manager

Approved
Geoffrey Leking
Env. Specialist
NMOCD-HOBBS
3/22/12

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, LP (Plains), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Scharb Meter Sump Overflow. The legal description of the release site is Unit Letter "B" (NW/NE), Section 34, Township 20 South, Range 34 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.5334° North latitude and 103.5457° West longitude. The property affected by the release is owned by Plains Pipeline, LP. A "Site Location Map" is provided as Figure 1.

On July 1, 2011, Plains discovered a release had occurred at the truck station known as Lynch Station. A check meter at Lynch Station locked down, and the flow of crude oil was diverted to the Scharb Meter Sump. The sump pump was functioning normally but was not designed to operate at the capacity required under those conditions. The sump overflowed, resulting in a release of crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately twenty-three barrels (23 bbls) of crude oil was released, with six barrels (6 bbls) recovered. During initial response activities, a vacuum truck was utilized to recover free-standing fluids on the ground surface. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 34, Township 20 South, Range 34 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately ninety -five feet (95') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Scharb Meter Sump Overflow release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 18, 2011, following initial response activities, excavation of impacted soil commenced at the site. A Photo-Ionization Detector (PID) was used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The excavated soil was blended on-site with non-impacted material and stockpiled, pending final disposition.

On July 26, 2011, eleven (11) soil samples (North Wall #1, North Wall #2, North Wall #3, South Wall #1, South Wall #2, South Wall #3, East Wall #1, West Wall #1, Floor #1, Floor #2, and Floor #3) were collected from the floor and sidewalls of the excavations. The soil samples were submitted to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of total petroleum hydrocarbons (TPH) and/or benzene, ethylbenze, toluene, and xylene (BTEX) concentrations using EPA Methods SW 846-8015M and SW 846-8021b, respectively. Soil sample Floor #2 was also analyzed for chloride concentrations using EPA Method 300.1. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples North Wall #1, North Wall #2, North Wall #3, South Wall #1, South Wall #2, South Wall #3, East Wall #1, Floor #1, and Floor #2 to 455 mg/Kg in soil sample West Wall #1. Benzene concentrations were less than the laboratory MDL in all soil samples submitted. BTEX concentrations ranged from less than the laboratory MDL in soil sample Floor #3 to 0.0190 mg/Kg in soil sample West Wall #1. The chloride concentration in soil sample Floor #2 was 9.4 mg/Kg. Review of laboratory analytical results indicated TPH, Benzene, BTEX, and chloride concentrations were less than NMOCD regulatory standards in all submitted soil samples.

Two (2) five-point composite soil samples (North Stockpile and South Stockpile) were collected from the stockpiled material and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from 6,320 mg/Kg in soil sample North Stockpile to 11,200 mg/Kg in soil sample South Stockpile.

On August 11 and August 12, 2011, approximately four hundred and eight cubic yards (408 yd^3) of soil represented by soil sample South Stockpile was transported to the Lazy Ace Landfarm (NMOCD Permit #NM 01-0041) for disposal.

From August 15 through August 23, 2011, soil represented by soil sample North Stockpile was treated with a water/fertilizer mix and aerated to facilitate bioremediation.

On August 23, 2011, one (1) five-point composite soil sample (Stockpile) was collected from the stockpiled material and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated the TPH concentration in soil sample Stockpile was 3,460 mg/Kg.

On September 12 and September 13, 2011, soil represented by soil sample Stockpile was treated with a water/fertilizer mix and aerated to facilitate bioremediation.

On September 23, 2011, one (1) five-point composite soil sample (North Stockpile) was collected from the stockpiled material and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated the TPH concentration in soil sample North Stockpile was 2,530 mg/Kg.

From October 10 through October 12, 2011, approximately two hundred cubic yards (200 yd^3) of impacted soil was separated from the stockpiled material and blended on-site with non-impacted soil.

On October 12, 2011, one (1) five-point composite soil sample (North Stockpile #2) was collected from the stockpiled material and submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated the TPH concentration in soil sample North Stockpile #2 was 1,580 mg/Kg.

On October 20 and October 21, 2011, approximately two hundred and seventy-six cubic yards (276 yd^3) of impacted soil was transported to the Lazy Ace Landfarm for disposal.

On October 25, 2011, the stockpiled material was blended on-site with non-impacted soil. One (1) five-point composite soil sample (North Stockpile #3) was collected from the blended material and submitted to the laboratory for analysis of TPH and BTEX concentrations. Laboratory analytical results indicated the TPH concentration in soil sample North Stockpile #3 was 652 mg/Kg, and BTEX constituent concentrations were less than the appropriate laboratory MDL. Soil represented by soil sample North Stockpile #3 was deemed suitable for use as backfill material.

On November 4, 2011, a Plains representative met with a representative of the NMOCD Hobbs District Office to request permission to backfill the excavation using the blended soil. The request was approved by the NMOCD representative.

Based on laboratory analytical results, and with NMOCD approval, on November 7 through November 9, 2011, the excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were approximately one hundred and seventy-five feet (175') in length, ranging in width from approximately sixteen feet (16') to forty feet (40'), and ranging in depth from approximately three and one-half feet (3.5') to approximately ten feet (8.5').

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of BTEX, TPH, and/or chloride concentrations using the methods described below. Soil samples were analyzed for BTEX, TPH, and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method SW 846-8021b
- TPH concentrations in accordance with modified EPA Method SW 846-8015M
- Chloride concentrations in accordance with EPA Method 300.1

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the Scharb Meter Sump Overflow excavation were analyzed by an NMOCD-approved laboratory, and concentrations of Benzene, BTEX, TPH, and chlorides were below the remediation action levels established for the site. Based on these laboratory analytical results, Basin recommends Plains provide the NMOCD Hobbs District Office and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Scharb Meter Sump Overflow release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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, LP. 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, LP.

7.0 DISTRIBUTION:

Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us

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

Copy 3: Jason Henry
Plains Pipeline, LP
2530 State Highway 214
Denver City, Texas 79323
jhenry@paalp.com

Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260

Figures

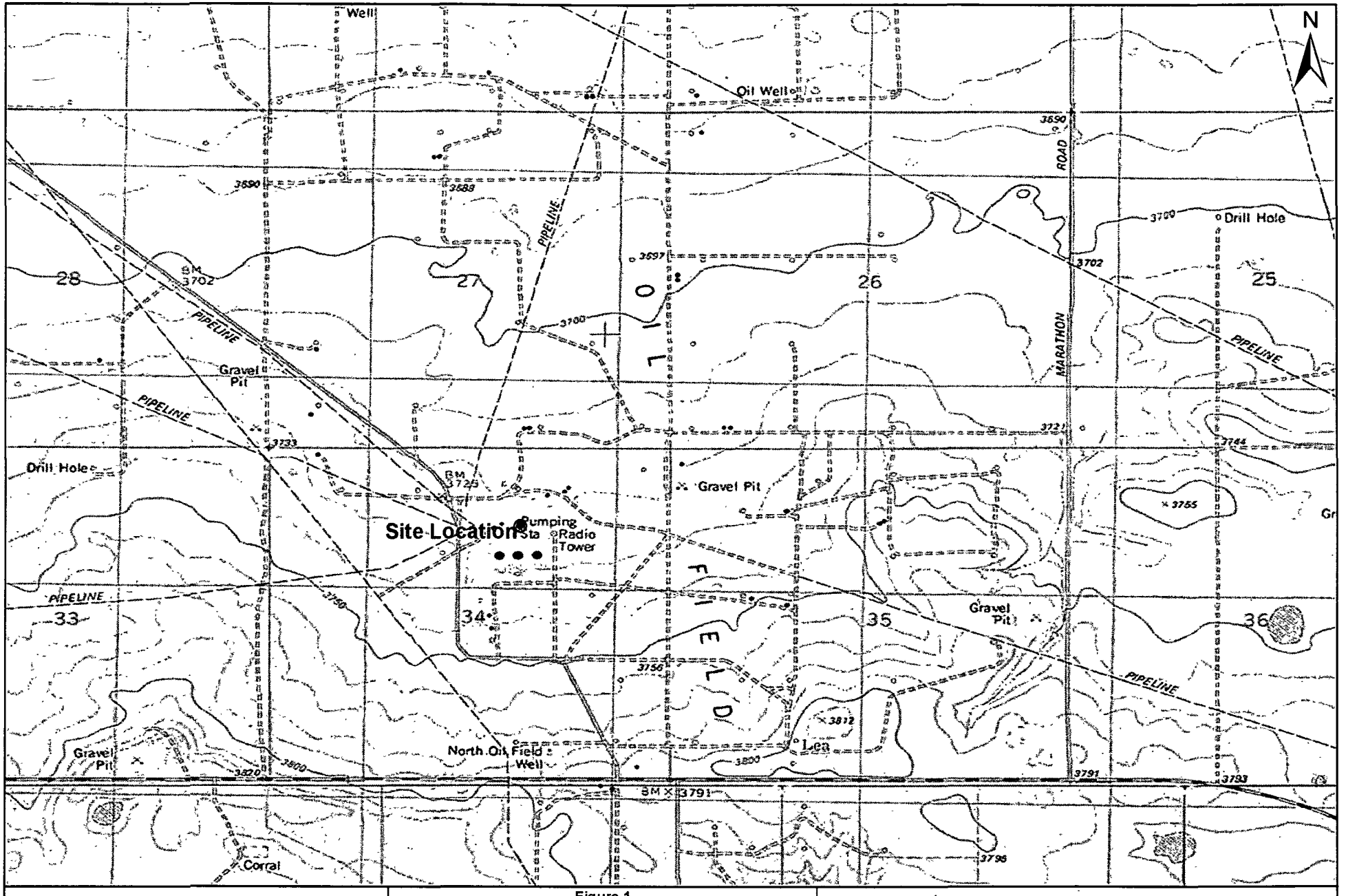
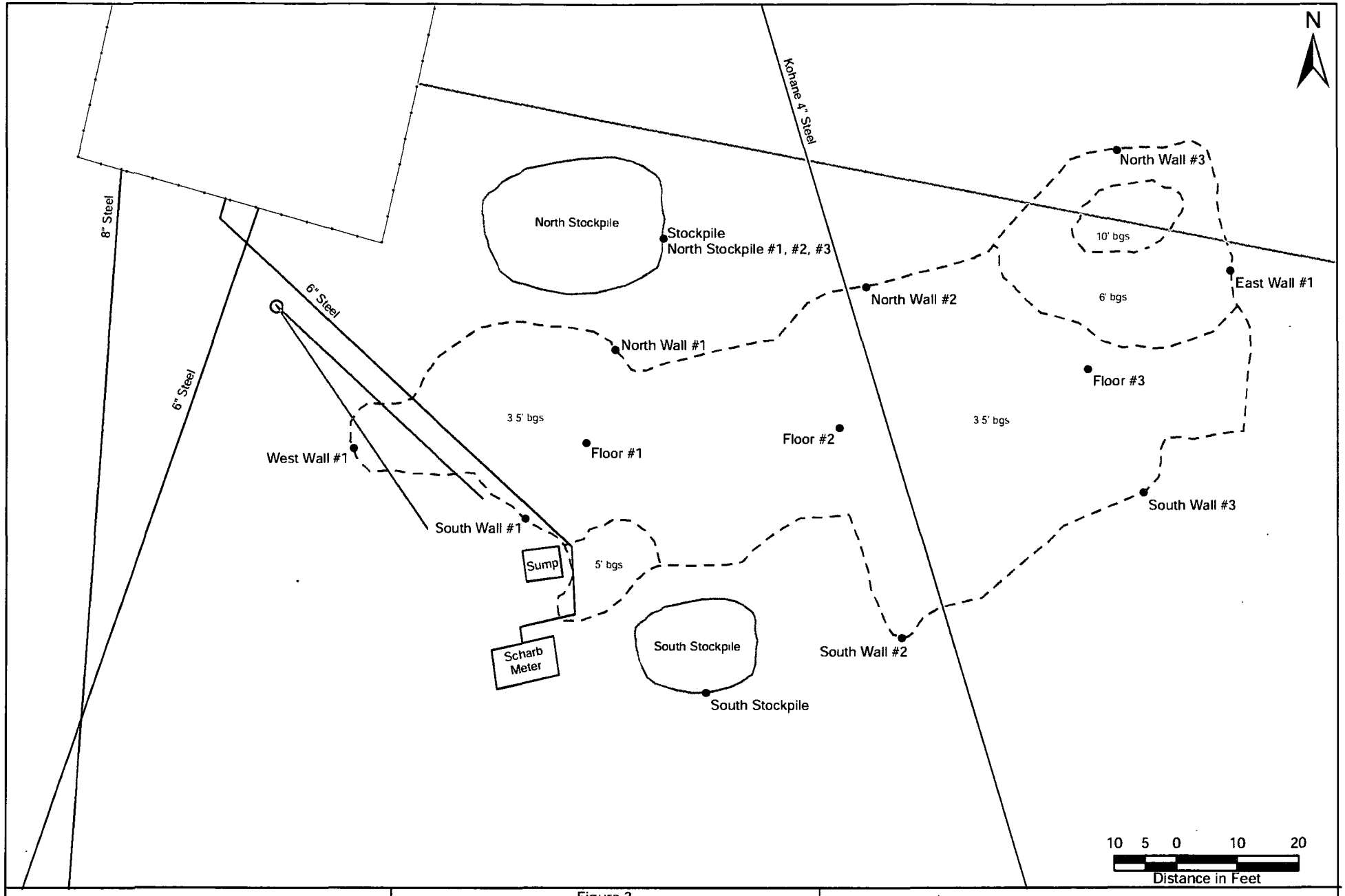


Figure 1
Site Location Map
Plains Pipeline, LP
Scharb Meter Sump Overflow
Lea County, New Mexico
SRS #: 2011-106
NMOCD Ref. #: 1RP-07-11-2723

Basin Environmental Service Technologies
Effective Solutions

Basin Environmental Service Technologies, LLC
3100 Plains Hwy
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
November 3, 2011	Scale: 1" = 2000'



Legend:

- Excavation
- Pipeline
- Fence
- Stockpile
- Electrical Conduit
- Communication Line
- Sample Location

Figure 2
Site & Sample Location Map
Plains Pipeline, LP
Scharb Meter Sump Overflow
Lea County, New Mexico
SRS #: 2011-106
NMOCD Ref. #: 1RP-07-11-2723

Basin Environmental Service Technologies, LLC
3100 Plains Hwy
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
November 3, 2011	Scale: 1" = 20'

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

PLAINS PIPELINE, L.P.
SCHARB METER SUMP OVERFLOW
LEA COUNTY, NEW MEXICO
SRS #: 2011-106
NMOCD REFERENCE #: 1RP-7-11-2723

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M			TOTAL TPH	E 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (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)	C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
North Wall #1	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<15.8	<15.8	<15.8	<15.8	-
North Wall #2	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<15.2	<15.2	<15.2	<15.2	-
North Wall #3	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<19.1	<19.1	<19.1	<19.1	-
South Wall #1	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<15.5	<15.5	<15.5	<15.5	-
South Wall #2	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<16.9	<16.9	<16.9	<16.9	-
South Wall #3	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<17.2	<17.2	<17.2	<17.2	-
East Wall #1	2'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<15.8	<15.8	<15 8	<15 8	-
West Wall #1	2'	7/26/2011	In-Situ	<0 0010	<0.0021	0.00512	0.00907	0 00477	0.0138	0.0190	<15.5	436	19.1	455	-
Floor #1	3.5'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<15 5	<15.5	<15.5	<15.5	-
Floor #2	3.5'	7/26/2011	In-Situ	-	-	-	-	-	-	-	<16 0	<16.0	<16.0	<16.0	9 4
Floor #3	3.5'	7/26/2011	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0 0021	<0.0021	<16.0	16.1	<16.0	16.1	-
North Stockpile	N/A	7/26/2011	In-Situ	-	-	-	-	-	-	-	1,130	5,190	<78.7	**6,320**	-
South Stockpile	N/A	7/26/2011	In-Situ	-	-	-	-	-	-	-	2,300	8,920	<80.2	**11,200**	-
Stockpile	N/A	8/23/2011	Blended	-	-	-	-	-	-	-	446	2,880	129	**3,460**	-
North Stockpile	N/A	9/23/2011	Blended	-	-	-	-	-	-	-	201	2,180	145	**2,530**	-
North Stockpile #2	N/A	10/12/2011	Blended	-	-	-	-	-	-	-	90 6	1,360	133	1,580	-
North Stockpile #3	N/A	10/25/2011	Backfill	<0.0010	<0.0020	<0.0010	<0 0020	<0.0010	<0 0020	<0.0020	44.7	491	116	652	-
NMOCD Standard				10						50				1,000	

Appendices

Appendix A

Release Notification &

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 Pipeline, LP	Contact	Jason Henry
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Scharb Meter Sump Overflow	Facility Type	Crude Oil Storage

Surface Owner Plains Pipeline, L.P.	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	34	20S	34E					Lea

Latitude N 32.5334° Longitude W 103.5457°

NATURE OF RELEASE

GW = 90'

Type of Release Crude Oil	Volume of Release 23 bbls	Volume Recovered 6 bbls
Source of Release Sump overflow	Date and Hour of Occurrence 07/01/2011 @ 04:30	Date and Hour of Discovery 07/01/2011 @ 04:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Verbal notification to Geoff Leking (Voice mail)	
By Whom? Jason Henry	Date and Hour 07/01/2011 @ 14:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

~~HOBBS OCD~~

JUL 11 2011

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Check meter at Lynch Station locked down and relieved to the sump. The sump was operating but couldn't keep up and the sump overflowed. A vacuum truck was utilized to recover the crude oil that pooled on the surface.

Describe Area Affected and Cleanup Action Taken.*

The impacted surface soil and caliche will be excavated, stockpiled, and remediated. Confirmation samples will be collected from the excavated area and the stockpile(s).

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.

OIL CONSERVATION DIVISION

Signature: Jason Henry

Printed Name: Jason Henry

Approved by ~~District Supervisor~~ ENV ENGINEER: Geoff Leking

Title: Remediation Coordinator

Approval Date: 07/11/11 Expiration Date: 09/11/11

E-mail Address: jlhenry@paalp.com

Conditions of Approval: SUBMIT FINAL C-141 BY 09/11/11

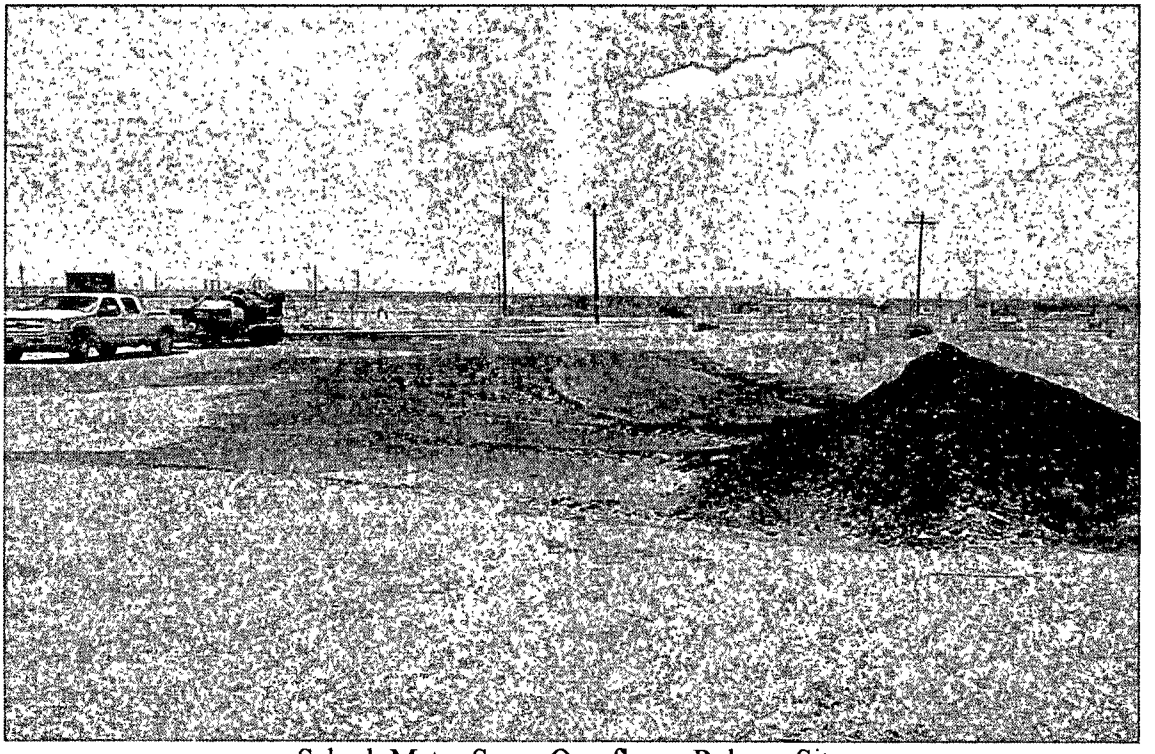
Attached ☐ IRP-07-11-2723

Date: 07/11/2011 Phone: (575) 441-1099

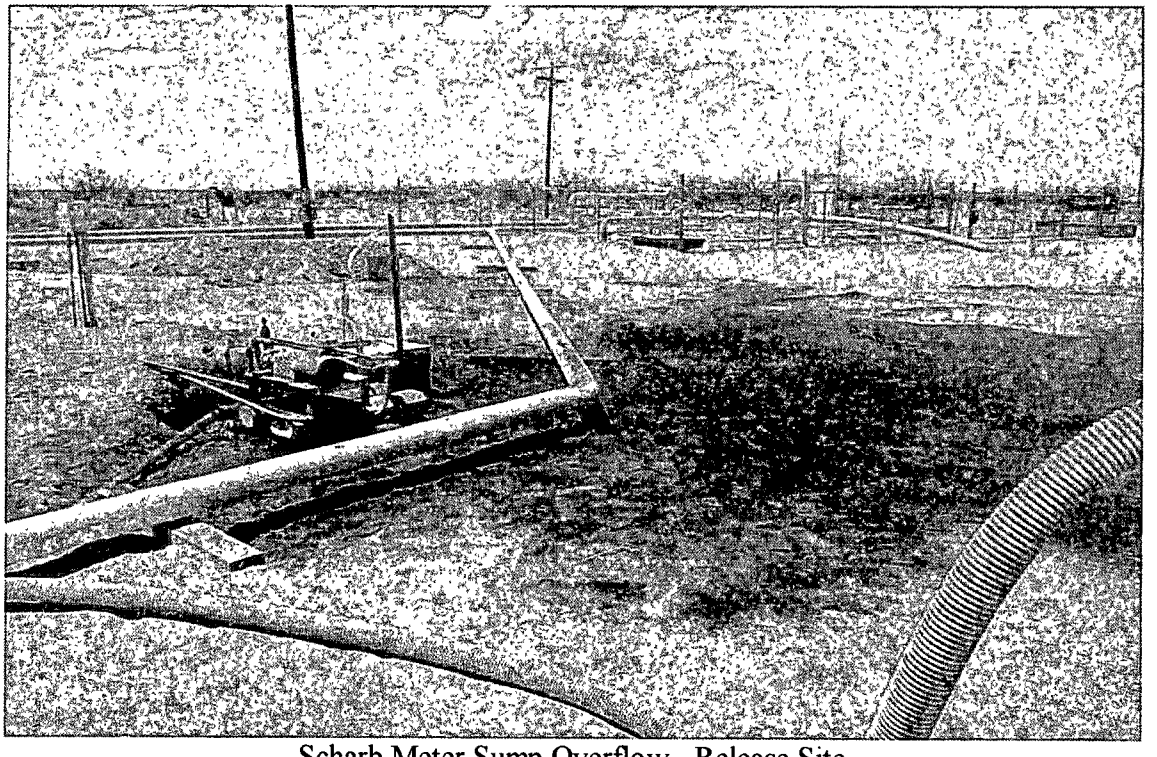
* Attach Additional Sheets If Necessary

Appendix B

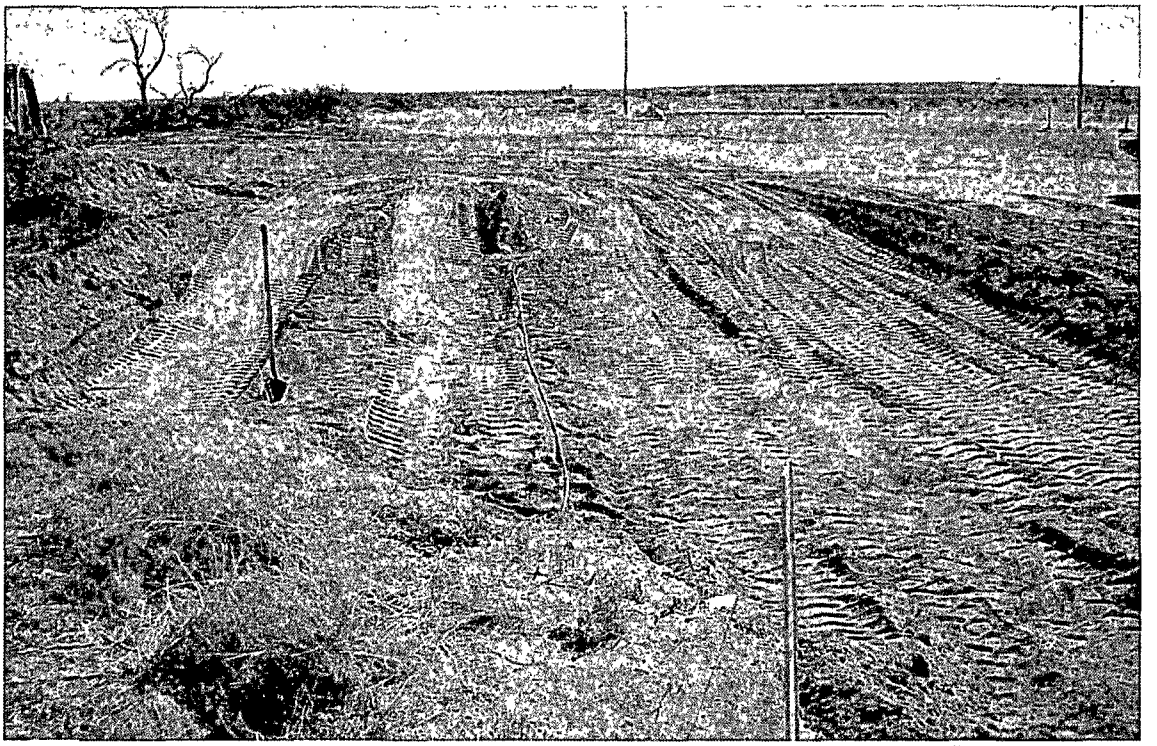
Photographs



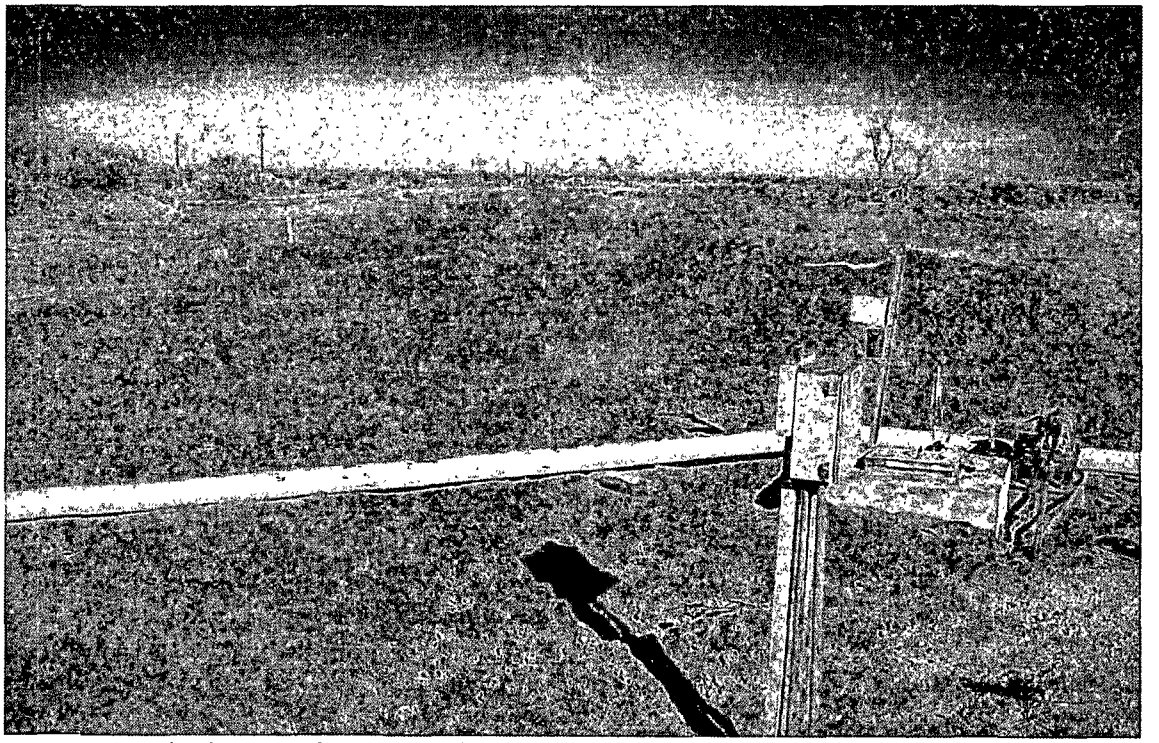
Scharb Meter Sump Overflow - Release Site



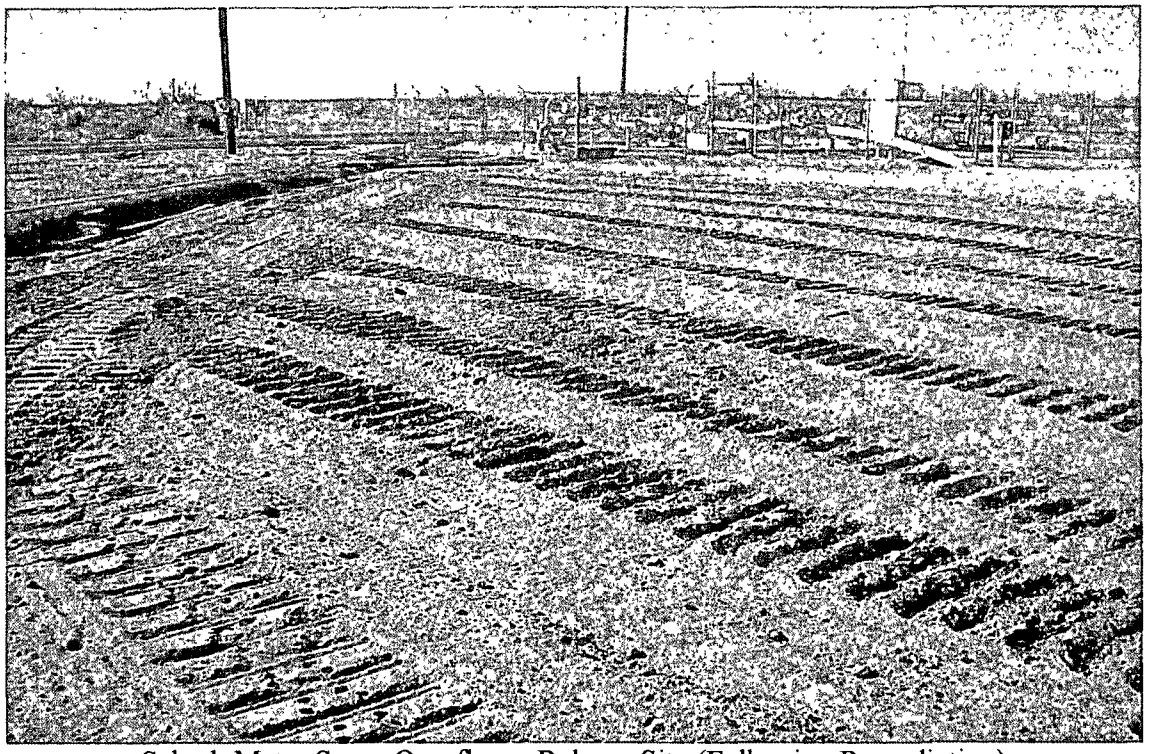
Scharb Meter Sump Overflow - Release Site



Scharb Meter Sump Overflow - Excavation (Following Backfill)



Scharb Meter Sump Overflow - Release Site (Following Remediation)



Scharb Meter Sump Overflow - Release Site (Following Remediation)

Appendix C

Laboratory Analytical Reports

Analytical Report 424398

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Meter Sump

2011-106

10-AUG-11

Collected By: Client

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 (T104704215-10-6-TX), Arizona (AZ0765), 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: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

10-AUG-11

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

Reference: XENCO Report No: **424398**
Scharb Meter Sump
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 424398. 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. 424398 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

XENCO Laboratories

Sample Cross Reference 424398

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Meter Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East Wall # 1	S	07-26-11 14:00		424398-001
North Wall # 3	S	07-26-11 14:15		424398-002
North Wall # 2	S	07-26-11 14:30		424398-003
North Wall # 1	S	07-26-11 14:45		424398-004
West Wall # 1	S	07-26-11 15:00		424398-005
South Wall # 3	S	07-26-11 15:15		424398-006
South Wall # 2	S	07-26-11 15:30		424398-007
South Wall # 1	S	07-26-11 15:45		424398-008
Floor # 3	S	07-26-11 16:00		424398-009
Floor # 2	S	07-26-11 16:15		424398-010
Floor # 1	S	07-26-11 16:30		424398-011
South Stockpile	S	07-26-11 16:35		424398-012
North Stockpile	S	07-26-11 16:40		424398-013

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Meter Sump

Project ID:	*2011-106*	*Report Date:*	*10-AUG-11*
Work Order Number:	*424398*	*Date Received:*	*07/27/2011*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None
Analytical non nonformances and comments:
Batch: LBA-866813 BTEX by EPA 8021
SW8021BM

Batch 866813, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 424398-009, -005.
The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 424398

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Wed Jul-27-11 11:30 am
Report Date: 10-AUG-11
Project Manager: Brent Barron II

Analysis Requested	*Lab Id:*	424398-001		424398-002		424398-003		424398-004		424398-005		424398-006	
	Field Id:	East Wall # 1		North Wall # 3		North Wall # 2		North Wall # 1		West Wall # 1		South Wall # 3	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-26-11 14:00		Jul-26-11 14:15		Jul-26-11 14:30		Jul-26-11 14:45		Jul-26-11 15:00		Jul-26-11 15:15	
BTEX by EPA 8021	*Extracted:*									Aug-09-11 11:05			
	Analyzed:									Aug-09-11 13:34			
	Units/RL:									mg/kg	RL		
Benzene										ND	0 00103		
Toluene										ND	0 00207		
Ethylbenzene										0 00512	0 00103		
m_p-Xylenes										0 00907	0 00207		
o-Xylene										0.00477	0 00103		
Xylenes, Total										0 0138	0 00103		
Total BTEX										0 0190	0 00103		
Percent Moisture	*Extracted:*												
	Analyzed:	Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.36	1 00	21.5	1.00	1.16	1.00	4.39	1.00	3 55	1.00	13.3	1.00
TPH by SW8015 Mod	*Extracted:*	Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45	
	Analyzed:	Jul-27-11 16:01		Jul-27-11 16:29		Jul-27-11 16:57		Jul-27-11 17:25		Jul-27-11 17:54		Jul-27-11 18:22	
	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	15.8	ND	19.1	ND	15.2	ND	15.8	ND	15.5	ND	17.2
C12-C28 Diesel Range Hydrocarbons		ND	15.8	ND	19.1	ND	15.2	ND	15.8	436	15.5	ND	17.2
C28-C35 Oil Range Hydrocarbons		ND	15.8	ND	19.1	ND	15.2	ND	15.8	19.1	15.5	ND	17.2
Total TPH		ND	15.8	ND	19.1	ND	15.2	ND	15.8	455	15.5	ND	17.2

Brent Barron II
Odessa Laboratory Manager

Certificate of Analysis Summary 424398

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Wed Jul-27-11 11:30 am
Report Date: 10-AUG-11
Project Manager: Brent Barron II

Analysis Requested	*Lab Id:*	424398-007		424398-008		424398-009		424398-010		424398-011		424398-012	
	Field Id:	South Wall # 2		South Wall # 1		Floor # 3		Floor # 2		Floor # 1		South Stockpile	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-26-11 15:30		Jul-26-11 15:45		Jul-26-11 16:00		Jul-26-11 16:15		Jul-26-11 16:30		Jul-26-11 16:35	
BTEX by EPA 8021	*Extracted:*					Aug-09-11 11:05							
	Analyzed:					Aug-09-11 13:58							
	Units/RL:					mg/kg	RL						
Benzene						ND	0 00105						
Toluene						ND	0 00211						
Ethylbenzene						ND	0 00105						
m_p-Xylenes						ND	0 00211						
o-Xylene						ND	0 00105						
Xylenes, Total						ND	0 00105						
Total BTEX						ND	0 00105						
Inorganic Anions In Soil by E300	*Extracted:*												
	Analyzed:							Jul-27-11 16 46				Jul-27-11 16.46	
	Units/RL:							mg/kg	RL			mg/kg	RL
Chloride								9.40	5.34			9.51	5.34
Percent Moisture	*Extracted:*												
	Analyzed:	Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00		Jul-27-11 14:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.6	1.00	2.94	1.00	5.95	1.00	6.40	1.00	3.24	1.00	6.43	1.00
TPH by SW8015 Mod	*Extracted:*	Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45		Jul-27-11 14:45	
	Analyzed:	Jul-27-11 18:50		Jul-28-11 08:55		Jul-28-11 09:22		Jul-28-11 09:49		Jul-28-11 10:17		Jul-28-11 10:44	
	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	16.9	ND	15.5	ND	16 0	ND	16.0	ND	15 5	2300	80.2
C12-C28 Diesel Range Hydrocarbons		ND	16.9	ND	15.5	16 1	16 0	ND	16.0	ND	15.5	8920	80.2
C28-C35 Oil Range Hydrocarbons		ND	16.9	ND	15.5	ND	16.0	ND	16.0	ND	15.5	ND	80.2
Total TPH		ND	16.9	ND	15.5	16.1	16.0	ND	16.0	ND	15.5	11200	80.2

Brent Barron II
Odessa Laboratory Manager

Certificate of Analysis Summary 424398

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Wed Jul-27-11 11:30 am
Report Date: 10-AUG-11
Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	424398-013						
	Field Id:	North Stockpile						
	Depth:							
	Matrix:	SOIL						
	Sampled:	Jul-26-11 16:40						
Inorganic Anions In Soil by E300	*Extracted:*							
	Analyzed:	Jul-27-11 16:46						
	Units/RL:	mg/kg	RL					
Chloride		11.0	5.27					
Percent Moisture	*Extracted:*							
	Analyzed:	Jul-27-11 14:00						
	Units/RL:	%	RL					
Percent Moisture		5.05	1.00					
TPH by SW8015 Mod	*Extracted:*	Jul-27-11 14:45						
	Analyzed:	Jul-28-11 11:12						
	Units/RL:	mg/kg	RL					
C6-C12 Gasoline Range Hydrocarbons		1130	78.7					
C12-C28 Diesel Range Hydrocarbons		5190	78.7					
C28-C35 Oil Range Hydrocarbons		ND	78.7					
Total TPH		6320	78.7					

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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 **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 424398,

Project ID: 2011-106

Lab Batch #: 865532 **Sample:** 424398-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 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	100	101	99	70-135	
o-Terphenyl	49.6	50.3	99	70-135	

Lab Batch #: 865532 **Sample:** 424398-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 16:29

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 865532 **Sample:** 424398-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 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	133	100	133	70-135	
o-Terphenyl	65 6	50.2	131	70-135	

Lab Batch #: 865532 **Sample:** 424398-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 17:25

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	54.7	50.2	109	70-135	

Lab Batch #: 865532 **Sample:** 424398-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 17:54

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.6	109	70-135	
o-Terphenyl	54.3	49.8	109	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 Meter Sump

Work Orders : 424398,

Project ID: 2011-106

Lab Batch #: 865532 **Sample:** 424398-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 18:22

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	54.2	49.9	109	70-135	

Lab Batch #: 865532 **Sample:** 424398-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 18:50

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99 8	113	70-135	
o-Terphenyl	55.4	49 9	111	70-135	

Lab Batch #: 865532 **Sample:** 424398-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 08:55

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	51.4	50.1	103	70-135	

Lab Batch #: 865532 **Sample:** 424398-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 09:22

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.3	100	96	70-135	
o-Terphenyl	47.7	50.2	95	70-135	

Lab Batch #: 865532 **Sample:** 424398-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 09:49

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	51.8	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.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 424398,

Project ID: 2011-106

Lab Batch #: 865532 **Sample:** 424398-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 10:17

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.7	106	70-135	
o-Terphenyl	51.7	49.9	104	70-135	

Lab Batch #: 865532 **Sample:** 424398-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 10:44

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	51 7	50.1	103	70-135	

Lab Batch #: 865532 **Sample:** 424398-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/28/11 11:12

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	99.6	122	70-135	
o-Terphenyl	35.7	49.8	72	70-135	

Lab Batch #: 866813 **Sample:** 424398-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/09/11 13:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 866813 **Sample:** 424398-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/09/11 13:58

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 0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	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 Meter Sump

Work Orders : 424398,

Project ID: 2011-106

Lab Batch #: 865532 **Sample:** 608891-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/27/11 13:39

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.7	107	70-135	
o-Terphenyl	53.2	49.9	107	70-135	

Lab Batch #: 866813 **Sample:** 609590-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/09/11 13:11

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 0294	0.0300	98	80-120	

Lab Batch #: 865532 **Sample:** 608891-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/27/11 12:43

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	50.1	50.3	100	70-135	

Lab Batch #: 866813 **Sample:** 609590-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/09/11 11:39

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 865532 **Sample:** 608891-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/27/11 13:11

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	47.6	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 Meter Sump

Work Orders : 424398,

Project ID: 2011-106

Lab Batch #: 866813 **Sample:** 609590-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/09/11 12:03

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	0.0301	0.0300	100	80-120	

Lab Batch #: 866813 **Sample:** 424398-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/09/11 17:52

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 866813 **Sample:** 424398-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/09/11 18:15

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 865532 **Sample:** 424335-001 D / MD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/27/11 15:04

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.3	99.8	99	70-135	
o-Terphenyl	57.6	49.9	115	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 Meter Sump

Work Order #: 424398 **Project ID:** 2011-106

Analyst: ASA **Date Prepared:** 08/09/2011 **Date Analyzed:** 08/09/2011

Lab Batch ID: 866813 **Sample:** 609590-1-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	<0 00100	0.100	0.117	117	0.100	0.114	114	3	70-130	35	
Toluene	<0.00200	0.100	0.103	103	0.100	0.101	101	2	70-130	35	
Ethylbenzene	<0.00100	0.100	0.114	114	0.100	0.110	110	4	71-129	35	
m_p-Xylenes	<0 00200	0.200	0.232	116	0.200	0.222	111	4	70-135	35	
o-Xylene	<0.00100	0 100	0.107	107	0.100	0.102	102	5	71-133	35	

Analyst: BRB **Date Prepared:** 07/27/2011 **Date Analyzed:** 07/27/2011

Lab Batch ID: 865561 **Sample:** 865561-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions In Soil by E300 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
Chloride	<1.00	20.0	21.2	106	20.0	21.3	107	0	75-125	20	

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

XENCO Laboratories

BS / BSD Recoveries

Project Name: Scharb Meter Sump

Work Order #: 424398 **Project ID:** 2011-106

Analyst: BEV **Date Prepared:** 07/27/2011 **Date Analyzed:** 07/27/2011

Lab Batch ID: 865532 **Sample:** 608891-1-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	<15.1	1010	1030	102	1000	959	96	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.1	1010	930	92	1000	870	87	7	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 Recoveries

Project Name: Scharb Meter Sump

Work Order #: 424398

Lab Batch #: 865561

Project ID: 2011-106

Date Analyzed: 07/27/2011

Date Prepared: 07/27/2011

Analyst: BRB

QC- Sample ID: 424335-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

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	15.0	103	117	99	75-125	

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 Meter Sump

Work Order # : 424398 **Project ID:** 2011-106

Lab Batch ID: 866813 **QC- Sample ID:** 424398-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/09/2011 **Date Prepared:** 08/09/2011 **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	<0.00103	0.103	0.0860	83	0.103	0.0831	81	3	70-130	35	
Toluene	<0.00207	0.103	0.0701	68	0.103	0.0663	64	6	70-130	35	X
Ethylbenzene	0.00512	0.103	0.0721	65	0.103	0.0670	60	7	71-129	35	X
m_p-Xylenes	0.00907	0.207	0.139	63	0.207	0.128	57	8	70-135	35	X
o-Xylene	0 00477	0.103	0.0630	57	0.103	0.0567	50	11	71-133	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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Scharb Meter Sump

Work Order #: 424398

Lab Batch #: 865561 **Project ID:** 2011-106

Date Analyzed: 07/27/2011 14:07 **Date Prepared:** 07/27/2011 **Analyst:** BRB

QC- Sample ID: 424335-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions In Soil by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	15.0	15.6	4	20	

Lab Batch #: 865638

Date Analyzed: 07/27/2011 14:00 **Date Prepared:** 07/27/2011 **Analyst:** WRU

QC- Sample ID: 424398-001 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	4.36	4.56	4	20	

Lab Batch #: 865532

Date Analyzed: 07/27/2011 15:04 **Date Prepared:** 07/27/2011 **Analyst:** BEV

QC- Sample ID: 424335-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

TPH by SW8015 Mod	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	1690	1600	5	35	
C12-C28 Diesel Range Hydrocarbons	13800	13200	4	35	
C28-C35 Oil Range Hydrocarbons	<76.9	<76.9	0	35	

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

REQUEST FOR ADDITIONS / CORRECTIONS FORM

No. 424398

_____ 11381 Meadowglen, Suite L, Houston, TX 77082 (281) 589-0692
_____ 9701 Harry Hines Blvd , Dallas, TX (972) 481-9999
_____ 5332 Blackberry Drive, San Antonio, TX 78238 (210) 509-3334
_____ 5757 N W 158th St , Miami Lakes, FL 33014 (305) 823-8555
_____ 2618 South Falkenburg Rd , Riverview, FL 33569 (813) 620-2000
X 12600 West I-20 East Odessa, Texas 79765 (432-563-1899)

This form is a supplement to

COC No: _____

This information should be taken from the original COC

Contractor	Phone
Plains	
Project Name: *Scharb Meter Sump*	Project Manager: *Jason Henry*
Project Location: *Lea County, NM*	
Project No.: *2011-106*	

[X] Addition
[ ] Correction
[ ] Hold
[ ] Cancellation
[ ] No Addition

Requested By: Ben Arguijo D/T 8/5/2011 15:10

TAT
[ ] 24 HOURS
[ ] 48 HOURS
[ ] 3 DAYS
[X] 5 DAYS
[ ] 7-days

Lab ID	Field ID	Date/Time	Depth	Matrix	Sample Description	SW8021B	Hold Time Expires.		Hold Time Expires		Hold Time Expires		Hold Time Expires.		Hold Time Expires	Remarks
424398-005	West Wall # 1	7/27/2011 15 00		S		x										
424398-009	Floor # 3	7/27/2011 16 00		S		X										

Comments:

		Matrix Legend			
Samples Received in Lab by:	**Lisa Murdock**	S = Solid	P = Product	Add Received By:	**Amy Hernandez** D/T: **8/5/2011 15:10**
		L = Liquid	Sl = Sludge	Add Assigned By	D/T
Date/Time:	**7/27/2011 11:30**	A = Air	O =	Add Processed By	D/T

Office\Forms\Request For Additions Corrections Form 062001

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: e-mail: bjarguijo@basinenv.com

Project Name: Scharb Meter Sump
Project #: 2011-106
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 424398

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 (TCLP / TOTAL)	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
001	East Wall #1			7/27/2011	1400		1	X								Soil	X													X
002	North Wall #3			7/27/2011	1415		1	X								Soil	X													X
003	North Wall #2			7/27/2011	1430		1	X								Soil	X													X
004	North Wall #1			7/27/2011	1445		1	X								Soil	X													X
005	West Wall #1			7/27/2011	1500		1	X								Soil	X													X
006	South Wall #3			7/27/2011	1515		1	X								Soil	X													X
007	South Wall #2			7/27/2011	1530		1	X								Soil	X													X
008	South Wall #1			7/27/2011	1545		1	X								Soil	X													X
009	Floor #3			7/27/2011	1600		1	X								Soil	X													X
010	Floor #2			7/27/2011	1615		1	X								Soil	X												X	X
011	Floor #1			7/27/2011	1630		1	X								Soil	X													X
012	South Stockpile			7/27/2011	1635		1	X								Soil	X												X	X
013	North Stockpile			7/27/2011	1640		1	X								Soil	X												X	X

Special Instructions:
Run TPH, Hold for BTEX

Relinquished by	Date	Time	Received by:	Date	Time
Shannon Brown	7-27-11	8:00AM	Dakotah Ward	7-27-11	8:00AM
Dakotah Ward	7-27-11	11:30	Received by	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Lisa Hunsaker	7-27-11	11:30

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N NA
Labels on container(s) Y N
Custody seals on container(s) Y N NA
Custody seals on cooler(s) Y N NA
Sample Hand Delivered Y N
by Sampler/Client Rep ? by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.0 2.9 C 5.1 °C

Prelogin / Nonconformance Report - Sample Log-In

Client: Plains
Date/Time: 7-27-11 11:30
Lab ID # : 424398
Initials: LM

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	5.1 °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 426482

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Meter Sump

2011-106

31-AUG-11

Collected By: Client

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 (T104704215-10-6-TX), Arizona (AZ0765), 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 Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

31-AUG-11

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

Reference: XENCO Report No: **426482**
Scharb Meter Sump
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 426482. 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. 426482 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 426482

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Meter Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile	S	08-23-11 14:40		426482-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Meter Sump

Project ID:	*2011-106*	*Report Date:*	*31-AUG-11*
Work Order Number:	*426482*	*Date Received:*	*08/25/2011*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 426482

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Aug-25-11 11:10 am
Report Date: 31-AUG-11
Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	426482-001						
	Field Id:	Stockpile						
	Depth:							
	Matrix:	SOIL						
	Sampled:	Aug-23-11 14:40						
Percent Moisture	*Extracted:*							
	Analyzed:	Aug-25-11 14:30						
	Units/RL:	%	RL					
Percent Moisture		7.17	1.00					
TPH by SW8015 Mod	*Extracted:*	Aug-25-11 16:45						
	Analyzed:	Aug-27-11 05:34						
	Units/RL:	mg/kg	RL					
C6-C12 Gasoline Range Hydrocarbons		446	16.2					
C12-C28 Diesel Range Hydrocarbons		2880	16.2					
C28-C35 Oil Range Hydrocarbons		129	16.2					
Total TPH		3460	16.2					

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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 **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 426482,

Project ID: 2011-106

Lab Batch #: 868658 **Sample:** 426482-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/27/11 05:34

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.1	100	99	70-135	
o-Terphenyl	54.4	50.0	109	70-135	

Lab Batch #: 868658 **Sample:** 610633-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/26/11 18:46

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.2	100	87	70-135	
o-Terphenyl	42.7	50.0	85	70-135	

Lab Batch #: 868658 **Sample:** 610633-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/26/11 17:43

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	48 9	50.0	98	70-135	

Lab Batch #: 868658 **Sample:** 610633-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/26/11 18:14

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.7	100	82	70-135	
o-Terphenyl	41 1	50.0	82	70-135	

Lab Batch #: 868658 **Sample:** 426323-007 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/27/11 06:35

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.5	100	91	70-135	
o-Terphenyl	46.7	50 0	93	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 Meter Sump

Work Orders : 426482,

Project ID: 2011-106

Lab Batch #: 868658 **Sample:** 426323-007 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/27/11 07:08

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	44.0	50.0	88	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 Meter Sump

Work Order #: 426482
Analyst: BBH
Lab Batch ID: 868658
Sample: 610633-1-BKS
Units: mg/kg

Date Prepared: 08/25/2011
Batch #: 1

Project ID: 2011-106
Date Analyzed: 08/26/2011
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	<15.0	1000	819	82	1000	772	77	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15 0	1000	945	95	1000	863	86	9	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 Meter Sump

Work Order # 426482 **Project ID:** 2011-106

Lab Batch ID: 868658 **QC- Sample ID:** 426323-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/27/2011 **Date Prepared:** 08/25/2011 **Analyst:** BBH

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	<16.8	1120	934	83	1120	888	79	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.8	1120	965	86	1120	935	83	3	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

Final 1.000

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Scharb Meter Sump

Work Order # 426482

Lab Batch #: 868397 **Project ID:** 2011-106

Date Analyzed: 08/25/2011 14:30 **Date Prepared:** 08/25/2011 **Analyst:** BRB

QC- Sample ID: 426477-005 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	<1.00	<1 00	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

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: Troy Hall e-mail: bjarguijo@basinenv.com

Project Name: Scharb Meter Sump
Project #: 2011-106
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 426482

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: TPH 418.1 / 8015M / 8015B	TCLP: TPH TX 1005 / TX 1006	TCLP: Cations (Ca, Mg, Na, K)	TCLP: Anions (Cl, SO4, Alkalinity)	TCLP: SAR / ESP / CEC	TCLP: Metals As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Stockpile			8/23/2011	1440		1	X								Soil	X								X					X

Special Instructions:
Run TPH, Hold for BTEX

Relinquished by:	Date	Time	Received by:	Date	Time
Troy Hall	8/23/11	1750		8/23/11	1730
	8/25/11	0700		8/25/11	0700
	8/25/11	11:10	J. Hernandez (ELOT)	8/25/11	11:10

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
4025
Temperature Upon Receipt: 5.6 °C

Final 1.000

XENCO Laboratories

XENCO Laboratories
Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
Document No.: SYS-SRC
Revision/Date: No. 01, 5/27/2010
Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Plains
Date/Time: 8/25/11 11:10
Lab ID # : 426482
Initials: AH

Sample Receipt Checklist

	Blue	Water	No	
1. Samples on ice?				
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	5.6 °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 428215

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Meter Sump

2011-106

29-SEP-11

Collected By: Client

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 (T104704215-10-6-TX), Arizona (AZ0765), 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 Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

29-SEP-11

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

Reference: XENCO Report No: **428215**
Scharb Meter Sump
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 428215. 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. 428215 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 428215

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Meter Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Stockpile	S	09-23-11 08:45		428215-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Meter Sump

Project ID:	*2011-106*	*Report Date:*	*29-SEP-11*
Work Order Number:	*428215*	*Date Received:*	*09/23/2011*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 428215

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Fri Sep-23-11 12:09 pm
Report Date: 29-SEP-11
Project Manager: Brent Barron II

Analysis Requested							
	Lab Id:	428215-001					
	Field Id:	North Stockpile					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Sep-23-11 08:45					
Percent Moisture	*Extracted:*						
	Analyzed:	Sep-23-11 15:25					
	Units/RL:	%	RL				
Percent Moisture		7.37	1.00				
TPH By SW8015 Mod	*Extracted:*	Sep-23-11 15:40					
	Analyzed:	Sep-27-11 20:52					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		201	16.2				
C12-C28 Diesel Range Hydrocarbons		2180	16.2				
C28-C35 Oil Range Hydrocarbons		145	16.2				
Total TPH		2530	16.2				

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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 **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 428215, **Project ID:** 2011-106

Lab Batch #: 871071 **Sample:** 428215-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/27/11 20:52

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.8	123	70-135	
o-Terphenyl	55.9	49.9	112	70-135	

Lab Batch #: 871071 **Sample:** 611983-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/27/11 17:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	49.6	50.1	99	70-135	

Lab Batch #: 871071 **Sample:** 611983-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/27/11 17:00

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	52.9	50.0	106	70-135	

Lab Batch #: 871071 **Sample:** 611983-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/27/11 17:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	101	109	70-135	
o-Terphenyl	48.4	50 3	96	70-135	

Lab Batch #: 871071 **Sample:** 428218-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/28/11 02:23

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	50 7	50.1	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 Meter Sump

Work Orders : 428215,

Project ID: 2011-106

Lab Batch #: 871071 **Sample:** 428218-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/28/11 02:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	132	100	132	70-135	
o-Terphenyl	53 1	50.2	106	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 Meter Sump

Work Order #: 428215
Analyst: BBH
Lab Batch ID: 871071
Sample: 611983-1-BKS
Units: mg/kg

Date Prepared: 09/23/2011
Batch #: 1

Project ID: 2011-106
Date Analyzed: 09/27/2011
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	<15.0	999	860	86	1010	861	85	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	941	94	1010	935	93	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 Meter Sump

Work Order # : 428215 **Project ID:** 2011-106

Lab Batch ID: 871071 **QC- Sample ID:** 428218-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/28/2011 **Date Prepared:** 09/23/2011 **Analyst:** BBH

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	<17.6	1170	1080	92	1170	1190	102	10	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.6	1170	1160	99	1170	1240	106	7	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 Meter Sump

Work Order #: 428215

Lab Batch #: 870853 **Project ID:** 2011-106

Date Analyzed: 09/23/2011 10:30 **Date Prepared:** 09/23/2011 **Analyst:** BRB

QC- Sample ID: 428170-021 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	3.50	3.70	6	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

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: [signature]
e-mail: bjarguijo@basinenv.com

Project Name: Scharb Meter Sump
Project #: 2011-106
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 428215

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: TCLP / TOTAL: 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	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	North Stockpile			09/23/11	0845		1	X								Soil	X													X

Special Instructions:
Run TPH, Hold for BTEX

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	09/23/11	1209			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Elam	9.23.11	12:09

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
4 oz glass
Temperature Upon Receipt: 2.0 °C

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains

Date/Time: 9.23.11 12:09

Lab ID # : 428215

Initials: AE

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	2.0 °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 429403

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Meter Sump

2011-106

19-OCT-11

Collected By: Client

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 (T104704215-10-6-TX), Arizona (AZ0765), 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 Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

19-OCT-11

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

Reference: XENCO Report No: **429403**
Scharb Meter Sump
Project Address: Lea County, New Mexico

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 429403. 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. 429403 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 429403

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Meter Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Stockpile #2	S	10-12-11 10:00		429403-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Meter Sump

Project ID:	*2011-106*	*Report Date:*	*19-OCT-11*
Work Order Number:	*429403*	*Date Received:*	*10/12/2011*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872539 TPH by SW8015 Mod
SW8015MOD_NM

Batch 872539, 1-Chlorooctane recovered below QC limits Data not confirmed by re-analysis.
Samples affected are: 612809-1-BLK.

Certificate of Analysis Summary 429403

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, New Mexico

Date Received in Lab: Wed Oct-12-11 03:10 pm
Report Date: 19-OCT-11
Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	429403-001						
	Field Id:	North Stockpile #2						
	Depth:							
	Matrix:	SOIL						
	Sampled:	Oct-12-11 10:00						
Percent Moisture	***Extracted:***							
	Analyzed:	Oct-13-11 13:00						
	Units/RL:	%	RL					
Percent Moisture		3.10	1.00					
TPH by SW8015 Mod	***Extracted:***	Oct-13-11 14:10						
	Analyzed:	Oct-15-11 19:30						
	Units/RL:	mg/kg	RL					
C6-C12 Gasoline Range Hydrocarbons		90.6	15.5					
C12-C28 Diesel Range Hydrocarbons		1360	15.5					
C28-C35 Oil Range Hydrocarbons		133	15.5					
Total TPH		1580	15.5					

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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 **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 429403,

Project ID: 2011-106

Lab Batch #: 872539 **Sample:** 429403-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/15/11 19:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.7	100	85	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 872539 **Sample:** 612809-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/15/11 18:16

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	67.2	99.5	68	70-135	*
o-Terphenyl	42.9	49.8	86	70-135	

Lab Batch #: 872539 **Sample:** 612809-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/15/11 17:28

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.8	99.8	74	70-135	
o-Terphenyl	38 1	49 9	76	70-135	

Lab Batch #: 872539 **Sample:** 612809-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/15/11 17:52

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75 6	100	76	70-135	
o-Terphenyl	39.7	50.2	79	70-135	

Lab Batch #: 872539 **Sample:** 429429-008 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/16/11 03:57

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	101	91	70-135	
o-Terphenyl	44.5	50.3	88	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 Meter Sump

Work Orders : 429403,

Project ID: 2011-106

Lab Batch #: 872539 **Sample:** 429429-008 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/16/11 04:24

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96 4	100	96	70-135	
o-Terphenyl	48.6	50.1	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.

BS / BSD Recoveries

Project Name: Scharb Meter Sump

Work Order #: 429403
Analyst: BBH
Lab Batch ID: 872539 **Sample:** 612809-1-BKS
Units: mg/kg

Date Prepared: 10/13/2011 **Batch #:** 1

Project ID: 2011-106
Date Analyzed: 10/15/2011
Matrix: Solid

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
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	<15.0	998	707	71	1000	704	70	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	800	80	1000	758	76	5	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 Meter Sump

Work Order # : 429403 **Project ID:** 2011-106

Lab Batch ID: 872539 **QC- Sample ID:** 429429-008 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/16/2011 **Date Prepared:** 10/13/2011 **Analyst:** BBH

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	<18.0	1200	961	80	1190	1010	85	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<18.0	1200	1090	91	1190	1210	102	10	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 Meter Sump

Work Order #: 429403

Lab Batch #: 872302 **Project ID:** 2011-106

Date Analyzed: 10/13/2011 12:45 **Date Prepared:** 10/13/2011 **Analyst:** BRB

QC- Sample ID: 429439-001 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	9.06	9.03	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

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: Shannon Bower e-mail: bjarguijo@basinenv.com

Project Name: Scharb Meter Sump
Project #: 2011-106
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 429403

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: 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	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
	North Stockpile #2			10/12/2011	10:00 AM		1	X								Soil			X											X					X

Special Instructions:
Run TPH, Hold for BTEX

Relinquished by	Date	Time	Received by	Date	Time
Shannon Bower	10-12-11	3:10			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			J. Hernandez	10/12/11	3:10

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
402 Cg
Temperature Upon Receipt: 1.5 °C

Final 1.000

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Plains

Date/Time: 10/12/11 3 10

Lab ID #: 429403

Initials: AT

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	1.5 °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 430186

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Scharb Meter Sump

2011-106

27-OCT-11

Collected By: Client

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 (T104704215-10-6-TX), Arizona (AZ0765), 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 Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

27-OCT-11

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

Reference: XENCO Report No: **430186**
Scharb Meter Sump
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 430186. 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. 430186 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 430186

PLAINS ALL AMERICAN EH&S, Midland, TX

Scharb Meter Sump

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Stockpile # 3	S	10-25-11 12:00		430186-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Scharb Meter Sump

Project ID:	*2011-106*	*Report Date:*	*27-OCT-11*
Work Order Number:	*430186*	*Date Received:*	*10/25/2011*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-873193 TPH by SW8015 Mod
SW8015MOD_NM

Batch 873193, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 430186-001.

Batch: LBA-873287 BTEX by EPA 8021
SW8021BM

Batch 873287, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 430186-001.
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 430186

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Scharb Meter Sump

Project Id: 2011-106
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Tue Oct-25-11 04:02 pm
Report Date: 27-OCT-11
Project Manager: Brent Barron II

Analysis Requested							
	Lab Id:	430186-001					
	Field Id:	North Stockpile # 3					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Oct-25-11 12:00					
BTEX by EPA 8021	*Extracted:*	Oct-26-11 15:45					
	Analyzed:	Oct-27-11 02:20					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.00101				
Toluene		ND	0 00201				
Ethylbenzene		ND	0 00101				
m_p-Xylenes		ND	0 00201				
o-Xylene		ND	0 00101				
Xylenes, Total		ND	0 00101				
Total BTEX		ND	0 00101				
Percent Moisture	*Extracted:*						
	Analyzed:	Oct-25-11 16:35					
	Units/RL:	%	RL				
Percent Moisture		ND	1.00				
TPH by SW8015 Mod	*Extracted:*	Oct-25-11 16:30					
	Analyzed:	Oct-26-11 04:54					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		44.7	15.1				
C12-C28 Diesel Range Hydrocarbons		491	15.1				
C28-C35 Oil Range Hydrocarbons		116	15.1				
Total TPH		652	15.1				

Brent Barron II
Odessa Laboratory Manager

Final 1.000

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

Form 2 - Surrogate Recoveries

Project Name: Scharb Meter Sump

Work Orders : 430186,

Project ID: 2011-106

Lab Batch #: 873193 **Sample:** 430186-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/11 04:54

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.8	106	70-135	
o-Terphenyl	69.6	49.9	139	70-135	*

Lab Batch #: 873287 **Sample:** 430186-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/11 02:20

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0 0264	0.0300	88	80-120	

Lab Batch #: 873193 **Sample:** 613197-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/25/11 21:45

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.8	100	89	70-135	
o-Terphenyl	53.6	50.1	107	70-135	

Lab Batch #: 873287 **Sample:** 613245-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/11 22:33

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 0278	0 0300	93	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 873193 **Sample:** 613197-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/25/11 20:56

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.8	110	70-135	
o-Terphenyl	62.4	49.9	125	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 Meter Sump

Work Orders : 430186,

Project ID: 2011-106

Lab Batch #: 873287 **Sample:** 613245-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/11 21:02

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 0280	0.0300	93	80-120	
4-Bromofluorobenzene	0 0279	0.0300	93	80-120	

Lab Batch #: 873193 **Sample:** 613197-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/25/11 21:21

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	54.5	49.9	109	70-135	

Lab Batch #: 873287 **Sample:** 613245-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/11 21:24

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 873193 **Sample:** 430118-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/11 02:22

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	99.8	121	70-135	
o-Terphenyl	66.5	49.9	133	70-135	

Lab Batch #: 873287 **Sample:** 430158-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/11 02:43

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	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 Meter Sump

Work Orders : 430186,

Project ID: 2011-106

Lab Batch #: 873193 **Sample:** 430118-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/11 02:48

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.4	50.1	117	70-135	

Lab Batch #: 873287 **Sample:** 430158-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/11 03:06

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 0295	0.0300	98	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.

BS / BSD Recoveries

Project Name: Scharb Meter Sump

Work Order #: 430186 **Project ID:** 2011-106

Analyst: ASA **Date Prepared:** 10/26/2011 **Date Analyzed:** 10/26/2011

Lab Batch ID: 873287 **Sample:** 613245-1-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	<0.00100	0.100	0 105	105	0.100	0.103	103	2	70-130	35	
Toluene	<0.00200	0.100	0.107	107	0.100	0.105	105	2	70-130	35	
Ethylbenzene	<0.00100	0.100	0.111	111	0.100	0.109	109	2	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.222	111	0.200	0.219	110	1	70-135	35	
o-Xylene	<0.00100	0.100	0.110	110	0.100	0.109	109	1	71-133	35	

Analyst: ASA **Date Prepared:** 10/25/2011 **Date Analyzed:** 10/25/2011

Lab Batch ID: 873193 **Sample:** 613197-1-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	<15.0	998	775	78	997	737	74	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	1120	112	997	963	97	15	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 Meter Sump

Work Order # : 430186 **Project ID:** 2011-106

Lab Batch ID: 873287 **QC- Sample ID:** 430158-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/27/2011 **Date Prepared:** 10/26/2011 **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	<0.00111	0.111	0.0744	67	0.111	0.0768	69	3	70-130	35	X
Toluene	<0.00222	0.111	0.0700	63	0.111	0.0719	65	3	70-130	35	X
Ethylbenzene	<0.00111	0.111	0.0662	60	0.111	0.0694	63	5	71-129	35	X
m_p-Xylenes	<0.00222	0.222	0.126	57	0.222	0.133	60	5	70-135	35	X
o-Xylene	<0.00111	0.111	0 0589	53	0.111	0.0629	57	7	71-133	35	X

Lab Batch ID: 873193 **QC- Sample ID:** 430118-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/26/2011 **Date Prepared:** 10/25/2011 **Analyst:** ASA

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	42.0	1020	869	81	1020	856	80	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	289	1020	1660	134	1020	1590	128	4	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 Meter Sump

Work Order #: 430186

Lab Batch #: 873159 **Project ID:** 2011-106

Date Analyzed: 10/25/2011 15:50 **Date Prepared:** 10/25/2011 **Analyst:** BRB

QC- Sample ID: 430159-004 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	9.74	9.82	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

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature: Troy Nahn e-mail: bjarguijo@basinenv.com

Project Name: Scharb Meter Sump
Project #: 2011-106
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 430186

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: TPH 418.1	TPH 8015M	TPH TX 1005	TPH 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: X)	RCI	N.O.R.M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	North Stockpile #3			10/25/11	1200		1	X								Soil	X														X	* 336

Special Instructions:
Run TPH, Hold for BTEX

Relinquished by	Date	Time	Received by	Date	Time
Troy Nahn	10/25/11	1312		10/25/11	1312
Relinquished by:	Date	Time	Received by:	Date	Time
	10-25-11	16:02			
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			Andrea Elam	10-25-11	16:02

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
407961655
Temperature Upon Receipt: 4.0 °C

Final 1.000

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: 10.25.11

Lab ID # : 430186

Initials: CE

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	4.0 °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