



SOUTH ENVIRONMENTAL SERVICES, INC.

P.O BOX 11064
MIDLAND, TEXAS 79702
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FAX: (432) 682-4182

30-041-20414

September 9, 2010

Mr. Geoffrey Leking
Oil Conservation Division, District 1
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: Remediation Work Plan
Peterson Penn Storage System Leak Site,
Excavation and Remediation of Crude Impacted Soil
Roosevelt County, New Mexico

Mr. Leking,

South Environmental Services, Inc. (SES), on behalf of Endeavor Energy, Inc. (Endeavor Energy), is please to submit this Remediation Work Plan to the Oil Conservation Division of New Mexico (OCD) for the remediation of crude oil impacted soil at the above reference site.

Scope of Work

SES proposes that the following activities be completed to achieve compliance with Oil Conservation Division of New Mexico Statewide Rule for Total Petroleum Hydrocarbons (TPH) (<1,000 mg/kg), Chlorides (<500ppm), and Benzene (<50.0 mg/kg), as set out below:

- Mobilized SES personnel and equipment to the site,
- Excavate approximately 1,200 cubic yards of impacted soil down to clean bottom,
- Blend and treat with bio-enhancement nutrients and surfactants in onsite land farm stockpile on plastic app: 2' depth,
- Perform excavation bottom hole confirmation sampling event to verify remedial levels, TPH <1,000 mg/kg (ppm), Chlorides <500 mg/kg (ppm), and Benzene < 50 mg/kg (ppm),
- Backfill excavation areas with clean remediated soil, based on analytical verification meeting OCD requirements,
- Perform stockpile Characterization sampling event to verify attainment of remedial levels of TPH (<1,000 ppm), Chlorides (<500 ppm), and Benzene (<50 mg/kg),
- Preparation of a Site Remediation and Closure Report for submittal to the OCD, as required to resolve the enforcement action regulatory requirements as set out below.

Distribution of Hydrocarbons in Soil

The distribution of hydrocarbons in the unsaturated zone will be determined by utilizing the following techniques:

1. Visual observations of soil during trenching and/or excavation during remediation;
2. Visual observations of soil during the following excavation;
3. Visual observations of soil samples; and
4. Laboratory analyses of the above samples.

Following excavation of impacted soil, conformation soil samples will be collected from the base of the excavation, based on a minimum of one (1) discrete sample for each 500 square feet of surface feet of surface area. Following conformation sampling, any area still exhibiting TPH concentrations >1,000 mg/kg will be over-excavated and resample to confirm attainment of remedial goals. All samples will be submitted for laboratory analysis for TPH and/or BTEX, and Chlorides as referenced above.

QA/QC Procedures-Soil Sampling

Samples of subsurface and treated soils will be obtained utilizing proper EPA protocols and/or standards. Representative soil samples will be collected using clean, disposable gloves and clean sampling tools. The soil sample will then be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container will be filled to capacity to limit the amount of head-space present. Each container will be labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling and transportation process.

Soil samples will be delivered to Xenco Laboratories, The Environmental Lab of Odessa, Texas for TPH, Chlorides, and BTEX analysis using the methods described below. Soil samples will be analyzed for BTEX, TPH, and Chlorides within fourteen days following the collection date.

The soil samples were analyzed as follows:

1. BTEX concentrations in accordance with EPA Method 8021B.
2. TPH concentrations in accordance with modified SW-846. *8015 OR*
3. Chlorides concentrations in accordance with EPA 300.1 *8015*

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

Regulatory Reporting

Following completion of the remedial actions, in compliance with the criteria set forth in Oil Conservation Division of New Mexico, South Environmental will develop and submit a Site Remediation and Closure Report to the OCD's office in Hobbs, New Mexico.

Upon OCD approval, the site will be restored as near as possible to the original site conditions.

Thank you for your assistance in this matter. If you have any questions or require additional information, please contact me at 432-425-8454.

Sincerely,
SOUTH ENVIRONMENTAL SERVICES, INC

Ronnie W. Nickell
Sr. Project Manager



Cc: Endeavor Energy, Inc., Midland, Texas

Analytical Report 387390

for
Endeavor Energy

Project Manager: Ronnie Nickell

Midland Odessa Standard List of prices

Peterson Penn Storage System

01-SEP-10



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: 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), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



01-SEP-10

Project Manager: **Ronnie Nickell**
Endeavor Energy
110 N. Marienfeld, Suite 200

Midland, TX 79701

Reference: XENCO Report No: **387390**
Midland Odessa Standard List of prices
Project Address: Roosevelt County, NM

Ronnie Nickell:

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 387390. 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. 387390 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

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Sample Cross Reference 387390

Endeavor Energy, Midland, TX
Midland Odessa Standard List of prices

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TB1-001	S	Aug-26-10 13:00	0 - 12 In	387390-001
TB2-001	S	Aug-26-10 13:03	0 - 12 In	387390-002
TB3-001	S	Aug-26-10 13:05	0 - 12 In	387390-003



CASE NARRATIVE

Client Name: Endeavor Energy
Project Name: Midland Odessa Standard List of prices



Project ID: Peterson Penn Storage Sys
Work Order Number: 387390

Report Date: 01-SEP-10
Date Received: 08/27/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-820668 Soil pH by EPA 9045C

None

Batch: LBA-820734 Percent Moisture

None

Batch: LBA-820781 TPH By SW8015 Mod

None

Batch: LBA-820841 Inorganic Anions by EPA 300/300.1

None

Batch: LBA-821086 BTEX by EPA 8021B
SW8021BM

Batch 821086, Benzene, Ethylbenzene, Toluene, m,p-Xylenes , o-Xylene RPD was outside QC limits.

Samples affected are: 387390-003

SW8021BM

Batch 821086, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 387020-001 S.

SW8021BM

Batch 821086, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 387390-003.

The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits



CASE NARRATIVE

Client Name: Endeavor Energy

Project Name: Midland Odessa Standard List of prices



Project ID: Peterson Penn Storage Sys
Work Order Number: 387390

Report Date: 01-SEP-10
Date Received: 08/27/2010

Batch: LBA-821168 BTEX by EPA 8021B
SW8021BM

Batch 821168, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 387390-002, -001.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 821168, 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; Sample data confirmed by re-analysis

Samples affected are: 387390-001.

1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected; QC data not confirmed by re-analysis

Samples affected are: 387390-002 SD.

SW8021BM

Batch 821168, Benzene, Toluene RPD was outside QC limits.

Samples affected are: 387390-002, -001

Certificate of Analysis Summary 387390
Endeavor Energy, Midland, TX



Project Id: Peterson Penn Storage System

Contact: Ronnie Nickell

Project Location: Roosevelt County, NM

Project Name: Midland Odessa Standard List of prices

Date Received in Lab: Fri Aug-27-10 08:18 am

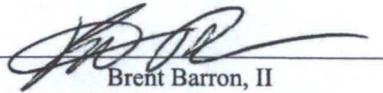
Report Date: 01-SEP-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	387390-001	387390-002	387390-003			
	<i>Field Id:</i>	TB1-001	TB2-001	TB3-001			
	<i>Depth:</i>	0-12 In	0-12 In	0-12 In			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Aug-26-10 13:00	Aug-26-10 13:03	Aug-26-10 13:05			
BTEX by EPA 8021B	<i>Extracted:</i>	Aug-31-10 13:00	Aug-31-10 13:00	Aug-30-10 08:00			
	<i>Analyzed:</i>	Aug-31-10 17:58	Aug-31-10 19:30	Aug-31-10 13:17			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		0.1194 0.0241	ND 0.0014	ND 0.0013			
Toluene		0.3889 0.0482	ND 0.0028	ND 0.0027			
Ethylbenzene		0.2974 0.0241	ND 0.0014	ND 0.0013			
m,p-Xylenes		1.767 0.0482	ND 0.0028	ND 0.0027			
o-Xylene		1.499 0.0241	ND 0.0014	ND 0.0013			
Total Xylenes		3.266 0.0241	ND 0.0014	ND 0.0013			
Total BTEX		4.072 0.0241	ND 0.0014	ND 0.0013			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-27-10 09:31	Aug-27-10 09:31	Aug-27-10 09:31			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		296 12.1	51.2 6.96	57.8 6.69			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-28-10 09:09	Aug-28-10 09:09	Aug-28-10 09:09			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		17.6 1.00	28.2 1.00	25.3 1.00			
Soil pH by EPA 9045C	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-27-10 11:11	Aug-27-10 11:11	Aug-27-10 11:11			
	<i>Units/RL:</i>	SU RL	SU RL	SU RL			
pH		7.80	8.67	8.87			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Brent Barron, II
 Odessa Laboratory Manager



Certificate of Analysis Summary 387390

Endeavor Energy, Midland, TX

Project Name: Midland Odessa Standard List of prices



Project Id: Peterson Penn Storage System

Contact: Ronnie Nickell

Project Location: Roosevelt County, NM

Date Received in Lab: Fri Aug-27-10 08:18 am

Report Date: 01-SEP-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	387390-001	387390-002	387390-003			
	Field Id:	TB1-001	TB2-001	TB3-001			
	Depth:	0-12 In	0-12 In	0-12 In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-26-10 13:00	Aug-26-10 13:03	Aug-26-10 13:05			
TPH By SW8015 Mod	Extracted:	Aug-27-10 11:00	Aug-27-10 11:00	Aug-27-10 11:00			
	Analyzed:	Aug-27-10 15:42	Aug-27-10 16:01	Aug-27-10 16:21			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		1160 182	40.5 21.0	ND 20.1			
C12-C28 Diesel Range Hydrocarbons		16000 182	2400 21.0	ND 20.1			
C28-C35 Oil Range Hydrocarbons		647 182	116 21.0	ND 20.1			
Total TPH		17807 182	2557 21.0	ND 20.1			

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Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Midland Odessa Standard List of prices

Work Orders : 387390,

Project ID: Peterson Penn Storage System

Lab Batch #: 821086

Sample: 572124-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 01:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0359	0.0300	120	80-120	

Lab Batch #: 821086

Sample: 572124-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 02:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 821086

Sample: 387020-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 03:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0372	0.0300	124	80-120	**

Lab Batch #: 821086

Sample: 387020-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 04:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0353	0.0300	118	80-120	

Lab Batch #: 821086

Sample: 387390-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 13:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0351	0.0300	117	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: Midland Odessa Standard List of prices

Work Orders : 387390,

Project ID: Peterson Penn Storage System

Lab Batch #: 821168

Sample: 572172-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 14:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

Lab Batch #: 821168

Sample: 572172-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 16:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0361	0.0300	120	80-120	

Lab Batch #: 821168

Sample: 387390-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 17:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0397	0.0300	132	80-120	**

Lab Batch #: 821168

Sample: 387390-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 19:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 821168

Sample: 387390-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 19:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0354	0.0300	118	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Midland Odessa Standard List of prices

Work Orders : 387390,

Project ID: Peterson Penn Storage System

Lab Batch #: 821168

Sample: 387390-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 20:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0411	0.0300	137	80-120	*
4-Bromofluorobenzene	0.0242	0.0300	81	80-120	

Lab Batch #: 820781

Sample: 571907-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 12:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.0	99.8	95	70-135	
o-Terphenyl	55.5	49.9	111	70-135	

Lab Batch #: 820781

Sample: 571907-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 13:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.6	97	70-135	
o-Terphenyl	62.1	49.8	125	70-135	

Lab Batch #: 820781

Sample: 571907-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 13:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	100	99	70-135	
o-Terphenyl	54.2	50.1	108	70-135	

Lab Batch #: 820781

Sample: 387390-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 15:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.2	99.8	87	70-135	
o-Terphenyl	50.4	49.9	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: Midland Odessa Standard List of prices

Work Orders : 387390,

Project ID: Peterson Penn Storage System

Lab Batch #: 820781

Sample: 387390-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 16:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	57.3	50.2	114	70-135	

Lab Batch #: 820781

Sample: 387390-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 16:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	100	100	70-135	
o-Terphenyl	54.3	50.1	108	70-135	

Lab Batch #: 820781

Sample: 387390-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 19:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.5	97	70-135	
o-Terphenyl	57.8	49.8	116	70-135	

Lab Batch #: 820781

Sample: 387390-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 19:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.5	104	70-135	
o-Terphenyl	53.1	49.8	107	70-135	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Midland Odessa Standard List of prices

Work Order #: 387390

Project ID: Peterson Penn Storage System

Lab Batch #: 821086
Date Analyzed: 08/31/2010
Reporting Units: mg/kg

Sample: 572124-1-BKS
Date Prepared: 08/30/2010

Matrix: Solid
Analyst: ASA

BTEX by EPA 8021B		BLANK /BLANK SPIKE RECOVERY STUDY				
Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.0996	0.0898	90	70-130	
Toluene	ND	0.0996	0.0882	89	70-130	
Ethylbenzene	ND	0.0996	0.0918	92	71-129	
m,p-Xylenes	ND	0.1992	0.1791	90	70-135	
o-Xylene	ND	0.0996	0.0918	92	71-133	

Lab Batch #: 821168
Date Analyzed: 08/31/2010
Reporting Units: mg/kg

Sample: 572172-1-BKS
Date Prepared: 08/31/2010

Matrix: Solid
Analyst: ASA

BTEX by EPA 8021B		BLANK /BLANK SPIKE RECOVERY STUDY				
Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.1000	0.0939	94	70-130	
Toluene	ND	0.1000	0.0934	93	70-130	
Ethylbenzene	ND	0.1000	0.0966	97	71-129	
m,p-Xylenes	ND	0.2000	0.1883	94	70-135	
o-Xylene	ND	0.1000	0.0961	96	71-133	

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



BS / BSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 387390

Analyst: LATCOR

Date Prepared: 08/27/2010

Project ID: Peterson Penn Storage System

Date Analyzed: 08/27/2010

Lab Batch ID: 820841

Sample: 820841-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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
Analytes											
Chloride	ND	10.0	9.98	100	10	10.3	103	3	80-120	20	

Analyst: BEV

Date Prepared: 08/27/2010

Date Analyzed: 08/27/2010

Lab Batch ID: 820781

Sample: 571907-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	998	1030	103	996	1040	104	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	1000	100	996	1010	101	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 Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order #: 387390

Lab Batch #: 820841

Project ID: Peterson Penn Storage System

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Analyst: LATCOR

QC- Sample ID: 387262-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	171	201	366	97	80-120	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$
 Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order # 387390

Project ID: Peterson Penn Storage System

Lab Batch ID: 821086

QC- Sample ID: 387020-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2010

Date Prepared: 08/30/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1114	0.0350	31	0.1125	0.0618	55	55	70-130	35	XF
Toluene	ND	0.1114	0.0328	29	0.1125	0.0580	52	56	70-130	35	XF
Ethylbenzene	ND	0.1114	0.0305	27	0.1125	0.0547	49	57	71-129	35	XF
m,p-Xylenes	ND	0.2227	0.0681	31	0.2250	0.1150	51	51	70-135	35	XF
o-Xylene	ND	0.1114	0.0355	32	0.1125	0.0569	51	46	71-133	35	XF

Lab Batch ID: 821168

QC- Sample ID: 387390-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2010

Date Prepared: 08/31/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1390	0.0510	37	0.1384	0.0944	68	60	70-130	35	XF
Toluene	ND	0.1390	0.0464	33	0.1384	0.0702	51	41	70-130	35	XF
Ethylbenzene	ND	0.1390	0.0434	31	0.1384	0.0486	35	11	71-129	35	X
m,p-Xylenes	ND	0.2780	0.0787	28	0.2769	0.0784	28	0	70-135	35	X
o-Xylene	ND	0.1390	0.0378	27	0.1384	0.0394	28	4	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 Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: Midland Odessa Standard List of prices

Work Order # 387390

Project ID: Peterson Penn Storage System

Lab Batch ID: 820781

QC- Sample ID: 387390-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Analyst: BEV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	ND	1330	1420	107	1330	1480	111	4	70-135	35
C12-C28 Diesel Range Hydrocarbons	ND	1330	1370	103	1330	1420	107	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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Project Name: Midland Odessa Standard List of prices

Work Order #: 387390

Lab Batch #: 820841

Project ID: Peterson Penn Storage System

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Analyst: LACOR

QC- Sample ID: 387262-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300/300.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	171	175	2	20	

Lab Batch #: 820734

Date Analyzed: 08/28/2010

Date Prepared: 08/28/2010

Analyst: JLG

QC- Sample ID: 387388-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.5	15.4	7	20	

Lab Batch #: 820668

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Analyst: JLG

QC- Sample ID: 387388-001 D

Batch #: 1

Matrix: Soil

Reporting Units: SU

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Soil pH by EPA 9045C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
pH	8.12	8.13	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
 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: Endeavor
 Date/Time: 08-27-10 @ 0818
 Lab ID #: 387390
 Initials: JMF

Sample Receipt Checklist

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

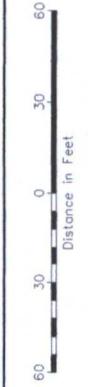
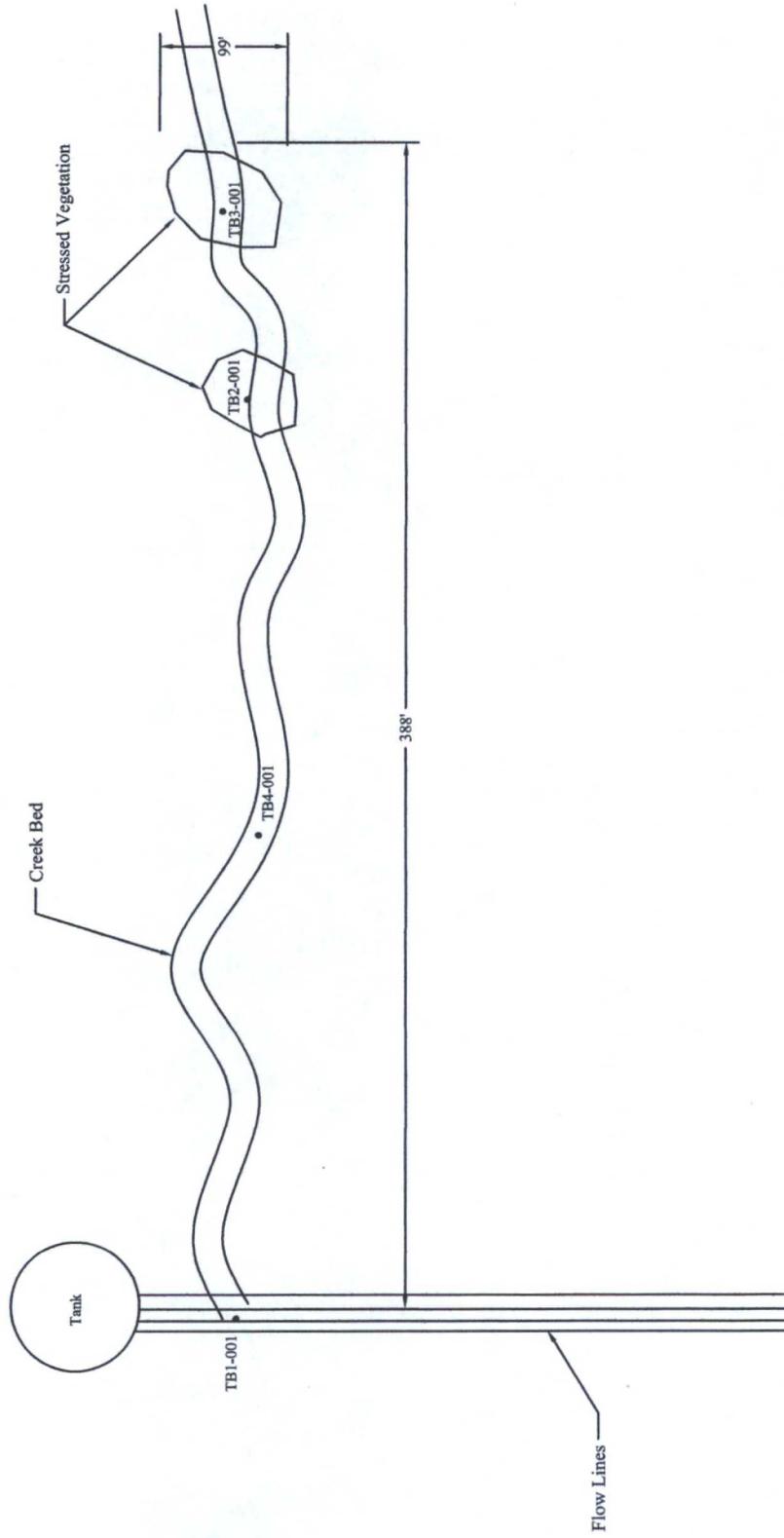
Contact: _____ Contacted by: _____ Date/Time: _____

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

DRAFT



Peterson Penn Storage System	Endeavor Energy
Roosevelt County, New Mexico	
Drawn By: JDJ	Rev: A-2
August 20, 2010	Scale: 1" = 60'

Figure 3
Site Map



South Environmental Services, Inc.