

December 16, 2009

Mr. Larry Johnson Environmental Engineer New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240 RECEIVED

DEC 17 2009

HOBBSOCD

RE:

1RP-09-11-2359, Investigation Report and Remediation Plan, XTO Energy, Inc., Buckeye Gathering Station, Lea County, New Mexico, December 16, 2009

Dear Larry,

Please find enclosed investigation report and remediation plan for the above-referenced remediation project number (1RP-09-11-2359). Your approval of the remediation plan is requested. Attachment C presents the initial C-141. Please contact me with questions or concerns at 432.687.0901.

Sincerely,

LARSON & ASSOCIATES, INC.

Mark J. Larson, P.G., C.P.G., C.G.W.P.

Sr. Project Manager/President mark@laenvironmental.com

Enclosure

CC

Mr. Earl Richardson, XTO Energy, Midland Mr. Dudley McMinn, XTO Energy, Midland

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DEC 1 7 2009 HOBBSOCD

1RP-09-11-2359 Investigation Report Remediation Plan Buckeye Gathering Station Crude Oil Spill Lea County, New Mexico

LAI Project No. 9-0139

December 16, 2009

Prepared for: XTO Energy, Inc. 200 North Loraine Street, Suite 800 Midland, Texas 79701

Prepared by:
Mark J. Larson, CPG
Certified Professional Geologist No. 10490

Larson & Associates, Inc. 507 North Marienfeld, Suite 200

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1.0 Executive Summary

This report presents the investigation of a crude oil spill that occurred at the XTO Energy, Inc., Buckeye Gathering System Station located in Unit P (SE/SE), Section 31, Township 17 South, Range 35 East, in Lea County, New Mexico. The spill occurred on November 17, 2009, and was reported to the New Mexico Oil Conservation Division District 1 office the same day. Approximately 420 barrels of crude oil was released and 410 barrels was recovered.

On November 30, 2009, Larson & Associates, Inc. supervised collecting soil samples at nine (9) locations (BH-1 through BH-9) using an air rotary rig and jam tube sampler. The soil samples were analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), total petroleum hydrocarbons (TPH) and chloride. The recommended remediation action levels (RRAL) for the Site are 10 mg/Kg for benzene, 50 mg/Kg for BTEX and 1,000 mg/Kg for TPH. The RRAL for benzene, BTEX and TPH was exceeded in soil samples from approximately 0 to 1 foot below ground surface at locations BH-5, BH-7, BH-8 and BH-9. The RRAL for TPH was also exceeded in soil samples from 3 to 4 feet below ground surface at locations BH-5 and BH-9, and 7 to 8 feet below ground surface at location BH-7. The maximum chloride concentration was 780 mg/Kg (BH-5, 5 to 6 feet).

XTO proposes to excavate soil inside the containment (firewall) to about 1 foot below ground surface, with additional soil excavation to about 5 feet below ground surface near the southeast corner of the containment (BH-9). The contaminated soil will be hauled to an OCD approved landfarm or disposal facility. Six (6) 5-spot composite soil samples will be collected from the bottom of the excavation and analyzed for TPH by method 8015. The excavation will be filled with clean soil. A final report will be submitted to the OCD following completion of the project.

2.0 Introduction

This report was prepared by Larson & Associates, Inc. (LAI) for submittal to the New Mexico Oil Conservation Division (OCD) on behalf of XTO Energy, Inc. (XTO) for the investigation of a crude oil spill (release) at the Buckeye Gathering System Station (Site) location in Unit P (SE/Se), Section 31, Township 17 South, Range 35 East, in rural Lea County, New Mexico. The Site's geodetic position is North 32° 47′ 08.4″ and West 103° 29′ 22.1″. Figure 1 presents a topographic and depth to groundwater map. Figure 2 presents an aerial image. Figure 3 presents a Site drawing.

3.0 Chronology

The release was discovered at about 3:00 pm (MST) and verbally reported to the OCD at about 5:00 pm (MST) on November 17, 2009. XTO submitted Form C-141 on November 19, 2009. The OCD issued remediation project number 1RP-09-11-2359 for the incident. Form C-141 reported that the release was due to equipment upset and call-out system failure. XTO reported that approximately 420 barrels

(bbl) of crude oil was released and approximately 410 bbl was recovered. The net loss was about 10 bbl and was contained by the earthen firewall. The recovered oil was returned to the Buckeye Gathering System. A roustabout crew used a backhoe to scrape soil from the surface and disposed approximately 260 cubic yards of contaminated soil at CRI (OCD Permit R9166) located between Hobbs and Carlsbad, New Mexico.

4.0 Soil Samples and Laboratory Results

On November 30, 2009, LAI geologist John Fergersen supervised Scarborough Drilling, Inc., which collected soil samples at nine (9) locations (BH-1 through BH-9) using a truck-mounted air-rotary rig. A jam tube sampler was used to collect samples at the surface (0 to 1 foot), 3, 5, 7, 10, and 15 feet below ground surface (bgs). The samples were collected for field headspace analysis and laboratory analysis for total petroleum hydrocarbons (TPH) by method 8015 including gasoline range hydrocarbons (GRO) and diesel range hydrocarbons (DRO) and chloride by method 300. Samples that reported field headspace readings over 100 parts per million (ppm) were analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), in addition to TPH and chloride. The jam tube sampler was cleaned with a solution of Alkonox® and water and rinsed with distilled water between samples. Drill cutting were placed on the ground adjacent to the borings until disposal is arranged. Table 1 presents a summary of the BTEX laboratory analysis. Table 2 presents a summary of the TPH and chloride laboratory results. Appendix A presents the laboratory report. Appendix B presents photographs.

The recommended remediation action levels (RRAL) for the Site are as follows:

Criteria	Result	Ranking Score
Depth-to-Groundwater (Vertical Feet)	50 - 99	10
Wellhead Protection Area	No	0
Distance to Surface Water Body (Horizontal Feet)	>1000	0
		Total: 10

The following RRALs have been assigned to the Site:

Benzene Total BTEX 10 mg/kg 50 mg/kg

TPH

1,000 mg/kg

The following soil samples exceed the RRAL for benzene:

Location	Depth	Benzene
	(Feet BGS)	(mg/Kg)
BH-5	0-1	13.57
BH-8	0-1	19.01

Figure 4 presents the maximum benzene concentrations reported in soil samples.

The following soil samples exceed the RRAL for BTEX:

Location	Depth (Feet BGS)	BTEX (mg/Kg)
BH-5	0-1	142.98
BH-7	0-1	395.10
BH-8	0-1	202.80
BH-9	0-1	77.59

Figure 5 presents the maximum BTEX concentrations reported in soil samples.

The following soil samples exceed the RRAL for TPH:

Location	Depth (Feet BGS)	GRO (mg/Kg)	DRO (mg/Kg)	TPH (mg/Kg)
BH-5	0-1	3,220	11,800	15,020
	3 - 4	236	939	1,175
BH-7	0 - 1	1,930	3,730	5,660
	7 - 8	304	860	1,164
BH-8	0-1	2,890	4,320	7,210
BH-9	0-1	3,240	4,850	8,090
	3 - 4	898	3,090	3,988

Figure 5 presents the maximum TPH concentrations reported in soil samples.

The maximum chloride concentration was reported in sample BH-5, 5 to 6 feet bgs (780 mg/Kg). The vertical extent of chloride in soil was delineated to 250 mg/Kg. Figure 7 presents the maximum chloride concentrations reported in soil samples.

5.0 Remediation Plan

XTO will excavate soil to about 1 foot bgs inside the earthen firewall to reduce the benzene, BTEX and TPH below the RRAL. Additional soil will also be removed to about 5 feet bgs near the southeast corner (BH-9) of the Site to reduce the TPH below the RRAL. Six (6) 5-spot composite samples will be collected from the bottom of the excavation and analyzed for TPH by method 8015 for GRO and DRO. The OCD will be notified at least 24 hours prior to collecting the composite samples. The excavated soil will be hauled to an OCD permitted landfarm or disposal facility and the remediation area will be backfilled with clean soil. A final report will be submitted to the OCD upon completion of the project. Appendix B presents the initial C-141.

Tables

Table 1 XTO Energy, Inc. 1RP-09-11-2359 Soil Analytical Data Summary Buckey Gathering Station Lea County, New Mexico

Sample ID	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
New Mexico Regulatory Limit		10				50	
BH-1	0 - 1	11/30/2009	0.0756	1.424	0.4119	1.1804	3.092
BH-5	0-1	11/30/2009	13.57	53.47	35.06	40.88	142.98
	3 - 4	11/30/2009	0.0086	0.1616	1.279	0.7903	2.2395
BH-6	0 - 1	11/30/2009	<0.0011	<0.0021	<0.0011	0.0014	0.0014
BH-7	0 - 1	11/30/2009	6.058	126.2	123.7	139.15	395.10
1	3 - 4	11/30/2009	<0.0213	<0.0426	0.2565	0.5896	0.8461
ŀ	7-8	11/30/2009	0.0092	1.082	5.189	5.804	12.084
	10 - 11	11/30/2009	<0.0010	<0.0021	0.0028	0.0056	0.0084
BH-8	0 - 1	11/30/2009	19.01	75.50	45.43	62.84	202.8
<u>.</u>	5 - 6	11/30/2009	0.0598	1.543	4.357	5.775	11.735
BH-9	0-1	11/30/2009	2.256	35.47	12.95	26.92	77.59
1	3 - 4	11/30/2009	0.0803	0.6206	0.6484	3.877	5.226
	7-8	11/30/2009	<0.0011	0.0047	0.0266	0.0590	0.0903

Notes

Benzene, Toluene, Ethylbenzene and Xylenes analyzed via EPA SW Method 8021B.

All values reported in Milligrams per Kilogram - dry (mg/Kg, parts per million).

Bold indicates the analyte was detected.

Bold and blue indicates the value exceeds NMOCD requirements.

Table 2 XTO Energy, Inc. 1Rp-09-11-2359

Soil Boring Analytical Data Summary Buckeye Gathering Station Lea County, New Mexico

Canada ID	D45	5.4	GRO	DRO	TPH	Chlorides	
Sample ID	Depth	Date	C6-C12	C12-C28	C6-C28	Cinoriaes	
New Mexico Regu	latory Limit				1,000	250	
BH-1	0 - 1	11/30/2009	139	490	629	9.67	
	3 - 4	11/30/2009	81.7	331	412.7	8.99	
	5-6	11/30/2009	<15.8	19.5	19.5	83.5	
BH-2	0-1	11/30/2009	<16.2	19.9	19.9	35.4	
	3 - 4	11/30/2009	<15.9	19.5	19.5	29.7	
	5-6	11/30/2009	<15.8	<15.8	<15.8	24.3	
BH-3	0-1	11/30/2009	<16.0	23.9	<16.0	32.0	
	3 - 4	11/30/2009	<15.9	17.6	17.6	12.1	
	5-6	11/30/2009	<15.6	36.4	36.4	7.25	
BH-4	0 - 1	11/30/2009	<16.6	59.7	59.7	438	
	3 - 4	11/30/2009	<16.1	37.8	37.8	73.5	
	7-8	11/30/2009	<16.4	54.2	54.2	22.0	
BH-5	0 - 1	11/30/2009	3,220	11,800	15,020	84.9	
	3 - 4	11/30/2009	236	939	1,175	694	
	5 - 6	11/30/2009	16.6	41.6	58.2	780	
	7 - 8	11/30/2009	<16.2	<16.2	<16.2	27.4	
BH-6	0-1	11/30/2009	<16.0	41.4	41.4	104	
	3 - 4	11/30/2009	17.4	34.4	51.8	40.1	
	5 - 6	11/30/2009	<16.3	<16.3	<16.3	29.8	
BH-7	0 - 1	11/30/2009	1,930	3,730	5,660	13.4	
	3 - 4	11/30/2009	191	523	714	8.32	
	7 - 8	11/30/2009	304	860	1,164	6.42	
	10 - 11	11/30/2009	58.2	262	320.2	4.85	
	15 - 16	11/30/2009	<15.8	17.4	17.4	7.88	
BH-8	0 - 1	11/30/2009	2,890	4,320	7,210	6.28	
	5 - 6	11/30/2009	303	593	896	139	
	7 - 8	11/30/2009	<16.4	20.4	20.4	22.2	
ВН-9	0 - 1	11/30/2009	3,240	4,850	8,090	87.2	
	3 - 4	11/30/2009	898	3,090	3,988	29.5	
	7-8	11/30/2009	44.1	89.5	133.6	24.4	
	10 - 11	11/30/2009	<16.0	18.7	18.7	27.8	

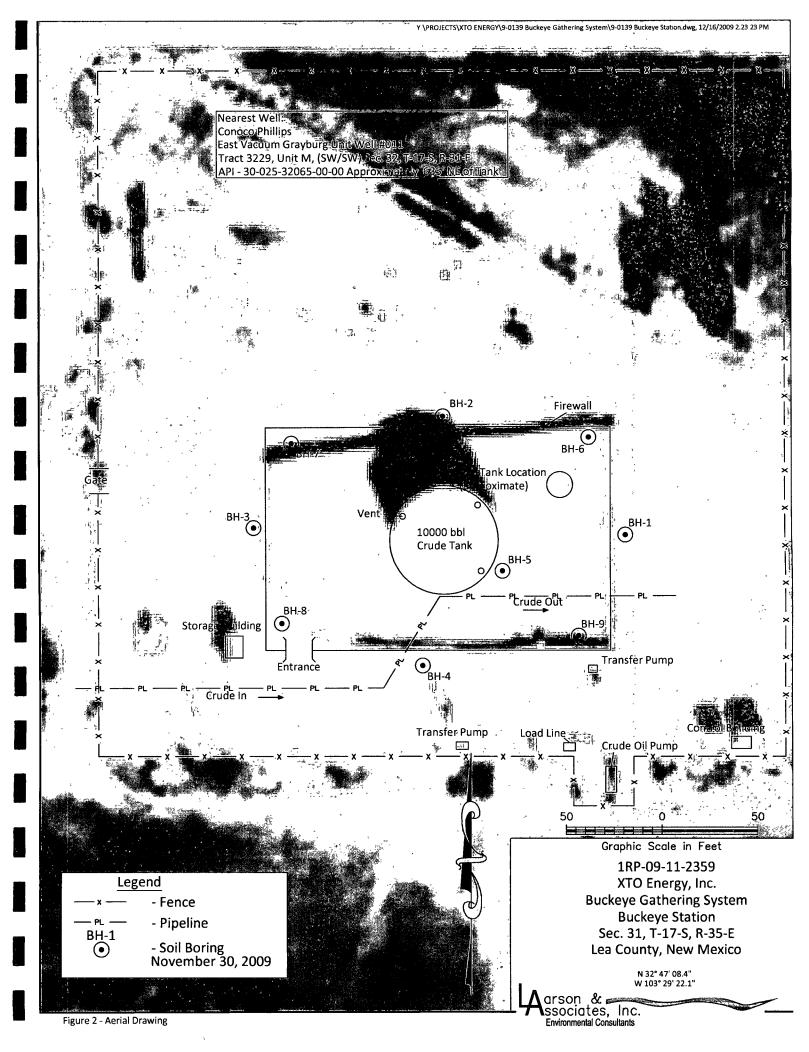
Notes

Total Petroleum Hydrocarbons analyzed via EPA SW Method 8015 Mod.

All values reported in Milligrams per Kilogram - dry (mg/Kg, parts per million).

Bold indicates the analyte was detected.

Bold and blue indicates the value exceeds NMOCD requirements.



Environmental Consultants

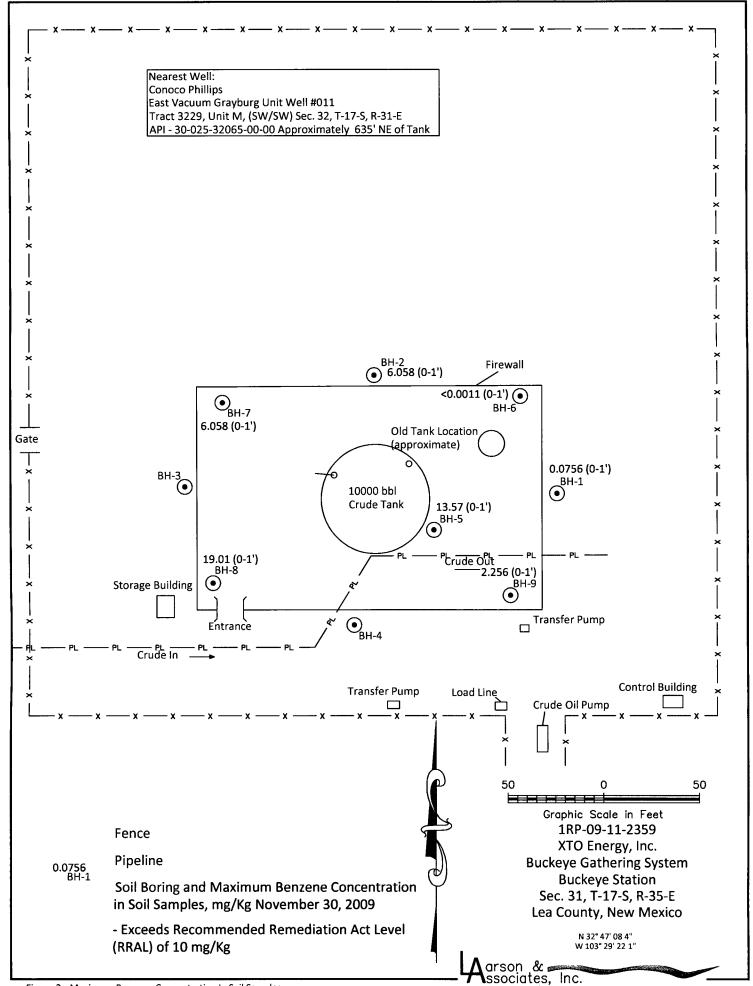


Figure 3 - Maximum Benzene Concentration In Soil Samples

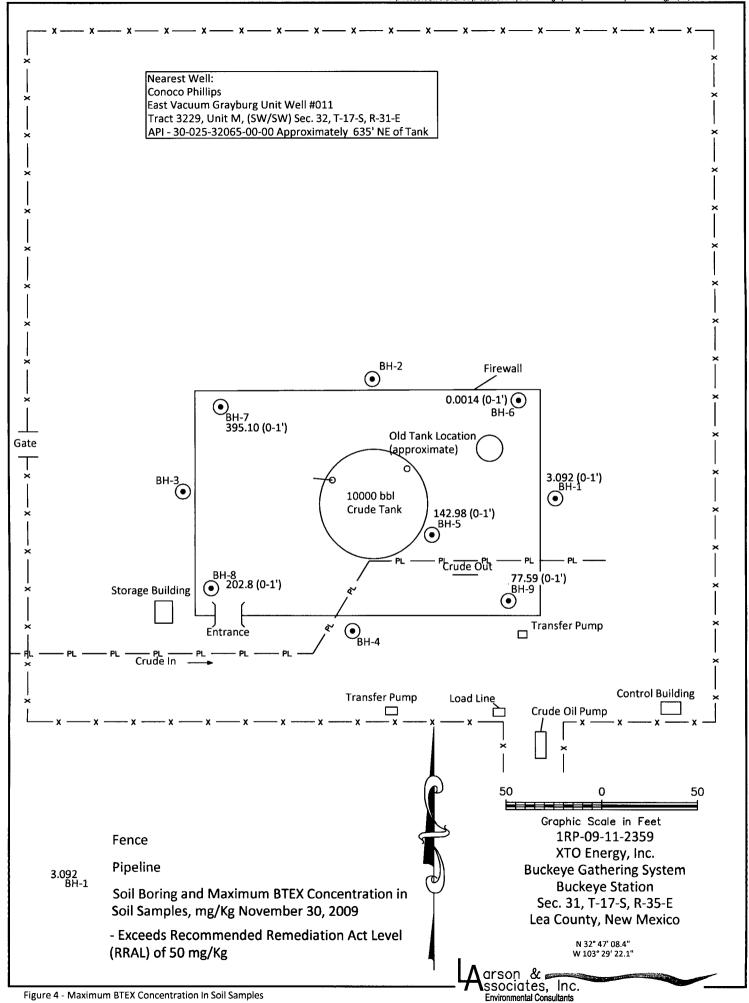


Figure 4 - Maximum BTEX Concentration In Soil Samples

Environmental Consultants

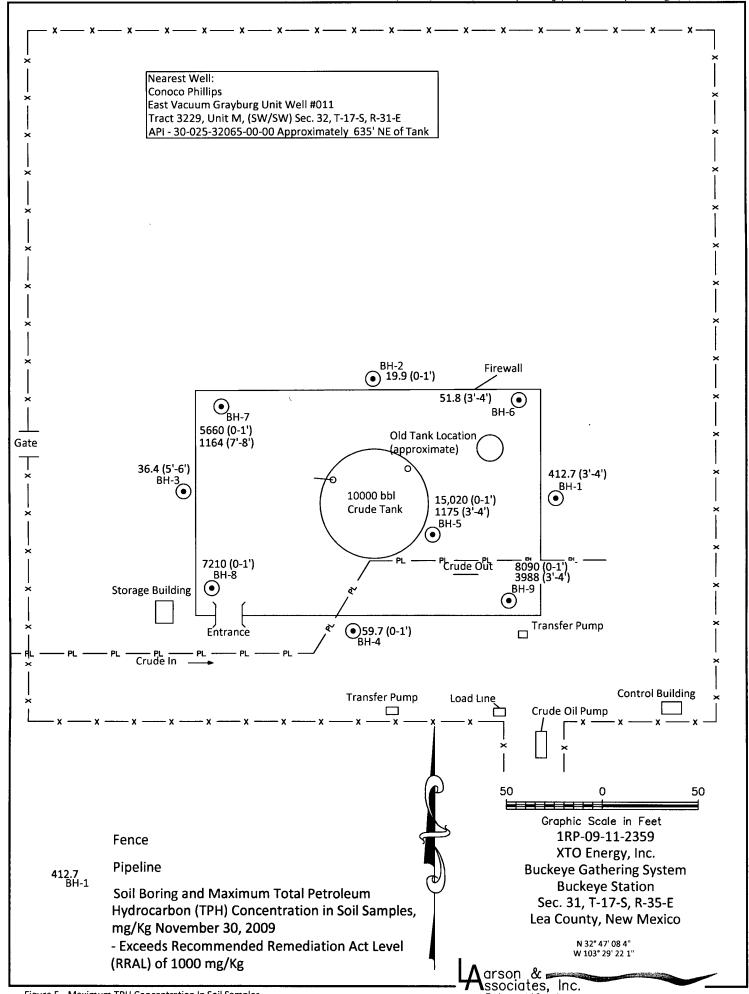
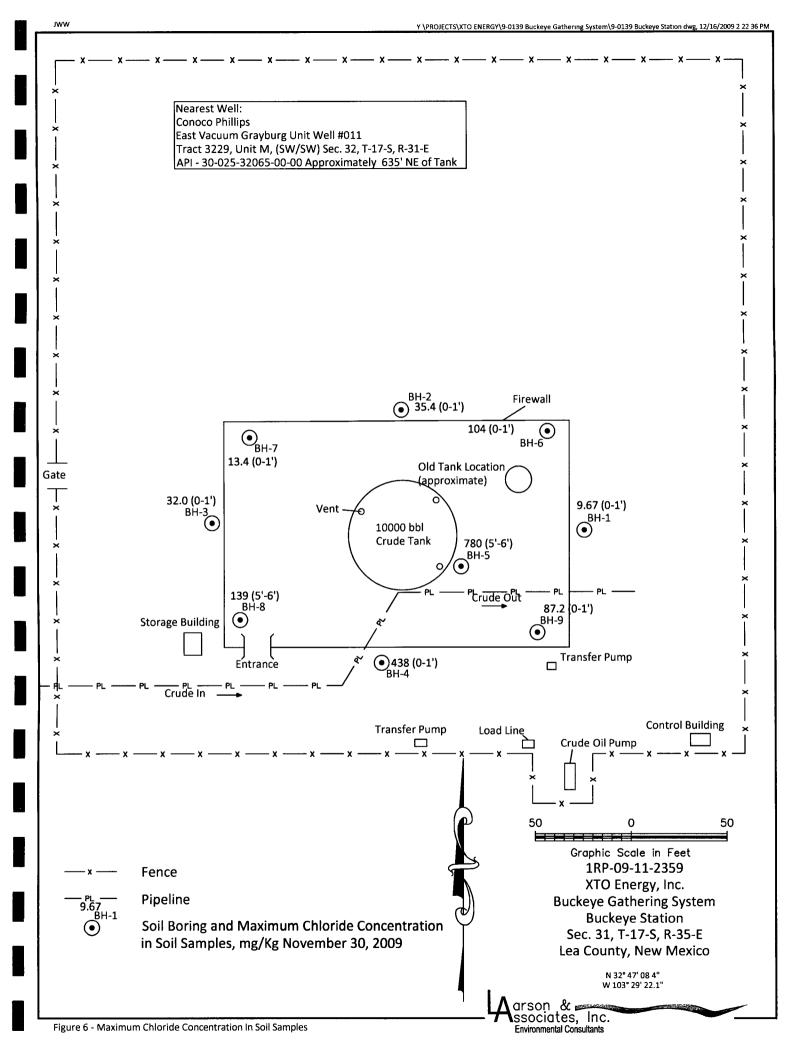


Figure 5 - Maximum TPH Concentration In Soil Samples



Environmental Consultants

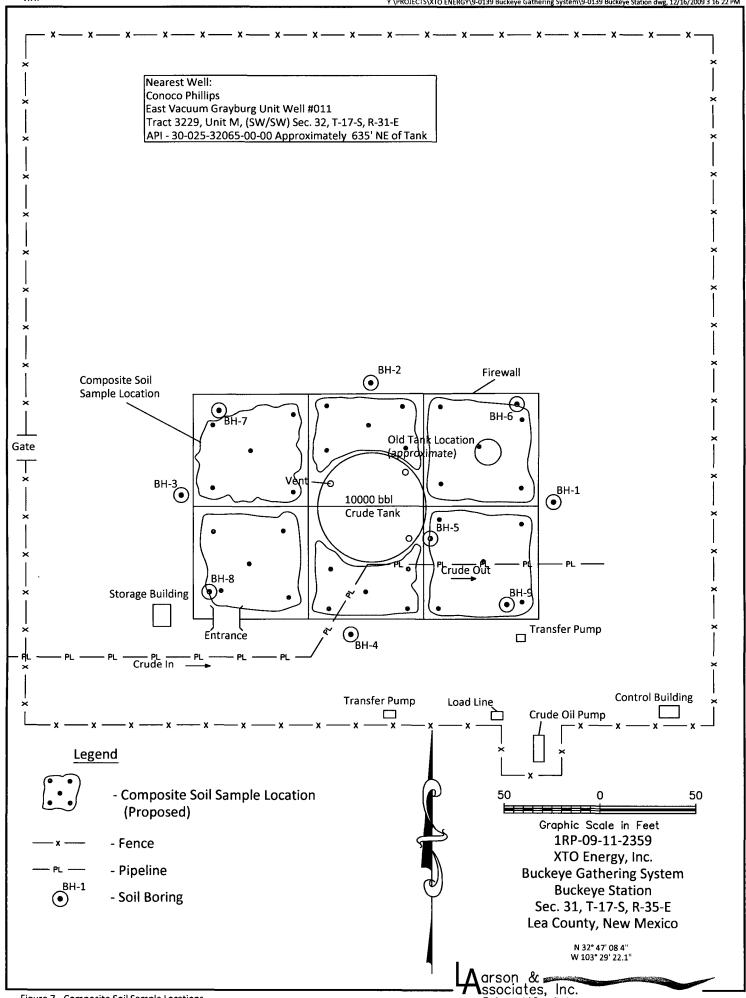


Figure 7 - Composite Soil Sample Locations

Appendix A

Laboratory Report

Analytical Report 353862

for

Larson & Associates

Project Manager: Michelle Green

XTO - Buckeye Station 9-0139

11-DEC-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)



11-DEC-09

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 353862

XTO - Buckeye Station

Project Address:

Michelle Green:

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 353862. 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. 353862 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 353862



Larson & Associates, Midland, TX

XTO - Buckeye Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (0-1')	S	Nov-30-09 10:30	0 - 1 ft	353862-001
BH-1 (3-4')	S	Nov-30-09 10:35	3 - 4 ft	353862-002
BH-1 (5-6')	S	Nov-30-09 10:40	5 - 6 ft	353862-003
BH-2 (0-1')	S	Nov-30-09 11:10	0 - 1 ft	353862-004
BH-2 (3-4')	S	Nov-30-09 11:15	3 - 4 ft	353862-005
BH-2 (5-6')	S	Nov-30-09 11:20	5 - 6 ft	353862-006
BH-3 (0-1')	S	Nov-30-09 11:50	0 - 1 ft	353862-007
BH-3 (3-4')	S	Nov-30-09 11:55	3 - 4 ft	353862-008
BH-3 (5-6')	S	Nov-30-09 12:00	5 - 6 ft	353862-009
BH-4 (0-1')	S	Nov-30-09 12:25	0 - 1 ft	353862-010
BH-4 (3-4')	S	Nov-30-09 12:30	3 - 4 ft	353862-011
BH-4 (7-8')	S	Nov-30-09 12:40	7 - 8 ft	353862-012
BH-5 (0-1')	S	Nov-30-09 13:45	0 - 1 ft	353862-013
BH-5 (3-4')	S	Nov-30-09 13:50	3 - 4 ft	353862-014
BH-5 (5-6')	S	Nov-30-09 13:55	5 - 6 ft	353862-015
BH-5 (7-8')	S	Nov-30-09 14:00	7 - 8 ft	353862-016
BH-6 (0-1')	S	Nov-30-09 14:35	0 - 1 ft	353862-017
BH-6 (3-4')	S	Nov-30-09 14:40	3 - 4 ft	353862-018
BH-6 (5-6')	S	Nov-30-09 14:45	5 - 6 ft	353862-019
BH-7 (0-1')	S	Nov-30-09 15:15	0 - 1 ft	353862-020
BH-7 (3-4')	S	Nov-30-09 15:20	3 - 4 ft	353862-021
BH-7 (7-8')	S	Nov-30-09 15:30	7 - 8 ft	353862-022
BH-7 (10-11')	S	Nov-30-09 15:35	10 - 11 ft	353862-023
BH-7 (15-16')	S	Nov-30-09 15:40	15 - 16 ft	353862-024
BH-8 (0-1')	S	Nov-30-09 16:30	0 - 1 ft	353862-025
BH-8 (5-6')	S	Nov-30-09 16:35	5 - 6 ft	353862-026
BH-8 (7-8')	S	Nov-30-09 16:40	7 - 8 ft	353862-027
BH-9 (0-1')	S	Nov-30-09 16:55	0 - 1 ft	353862-028
BH-9 (3-4')	S	Nov-30-09 17:00	3 - 4 ft	353862-029
BH-9 (7-8')	S	Nov-30-09 17:10	7 - 8 ft	353862-030
BH-9 (10-11')	S	Nov-30-09 17:15	10 - 11 ft	353862-031

CASE NARRATIVE



Client Name: Larson & Associates
Project Name: XTO - Buckeye Station

Project ID: 9-0139 Work Order Number: 353862 Report Date: 11-DEC-09 Date Received: 12/01/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-784105 Percent Moisture

None

Batch: LBA-784108 Percent Moisture

None

Batch: LBA-784111 Anions by E300

None

Batch: LBA-784114 Anions by E300

None

Batch: LBA-784443 TPH By SW8015 Mod

SW8015MOD_NM

Batch 784443, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 353862-023.

Final Ver. 1.000

CASE NARRATIVE



Client Name: Larson & Associates Project Name: XTO - Buckeye Station

 Project ID:
 9-0139
 Report Date:
 11-DEC-09

 Work Order Number:
 353862
 Date Received:
 12/01/2009

Batch: LBA-784510 TPH By SW8015 Mod

SW8015MOD_NM

Batch 784510, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 353862-001, -018, -005, -006, -002, -008, -007, -015, -019, -012, -013, -014, -017, -004, -009, -016, -011, -003, -010.

The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

SW8015MOD_NM

Batch 784510, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 353862-013,353862-002.

Batch: LBA-784779 BTEX by EPA 8021B

SW8021BM

Batch 784779, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 353862-001.

1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 353862-022,353862-013.

SW8021BM

Batch 784779, Benzene, Toluene, Ethylbenzene, m,p-Xylenes, o-Xylene RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 353862-001, -020, -026, -014, -013, -022, -025, -030, -028.

SW8021BM

Batch 784779, o-Xylene was detected in the method blank just above the QC limit. Because the results in the sample are greater than 5 to 10 times that found in the blank, the samples are reported as analyzed. Samples affected are: 353862-001, -020, -026, -014, -013, -022, -025, -030, -028.

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CASE NARRATIVE



Client Name: Larson & Associates Project Name: XTO - Buckeye Station

Project ID: 9-0139 Work Order Number: 353862 Report Date: 11-DEC-09 Date Received: 12/01/2009

Batch: LBA-785118 BTEX by EPA 8021B

SW8021BM

Batch 785118, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 353862-025.

1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 353862-025,353862-028,353862-029.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 353862-022.

SW8021BM

Batch 785118, Ethylbenzene and m,p-Xylene were detected in the method blank just above the QC limit. Because the results in the samples were either greater than 5 to 10 times that found in the blank, or non-detect, the samples are reported as analyzed. Samples affected are 353862--014, -017, -021, -022, -025, -028, -029.

Batch: LBA-785339 BTEX by EPA 8021B

SW8021BM

Batch 785339, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; QC data not confirmed by re-analysis Samples affected are: 354812-002 S.

SW8021BM

Batch 785339, Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 353862-023.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits

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Larson & Associates, Midland, TX

Project Id: 9-0139
Contact: Michelle Green

Project Name: XTO - Buckeye Station

Project Location:

Date Received in Lab: Tue Dec-01-09 02:55 pm

Report Date: 11-DEC-09
Project Manager: Brent Barron, II

								i i uject Miai	lager.	brem barron,	11 ,		
	Lab Id:	353862-0	001	353862-0	02	353862-0	03	353862-0	04	353862-0	05	353862-0	06
Analysis Requested	Field Id:	BH-1 (0-1')		BH-1 (3-4') BH-1 (5-6')		BH-2 (0-1')		BH-2 (3-4')		BH-2 (5-6')			
Anatysis Kequestea	Depth:	0-1 ft		3-4 ft		5-6 ft		0-1 ft		3-4 ft		5-6 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-30-09	10 30	Nov-30-09	10 35	Nov-30-09	10 40	Nov-30-09	11 10	Nov-30-09	11 15	Nov-30-09 1	11 20
Anions by E300	Extracted:												
	Analyzed:	Dec-02-09	13 12	Dec-02-09 1	3 12	Dec-02-09 1	13 12	Dec-02-09	13 12	Dec-02-09	13 12	Dec-02-09 1	3 12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		9 67	4 50	8 99	4 41	83 5	4 42	35 4	4 55	29 7	4 47	24 3	4 43
BTEX by EPA 8021B	Extracted:	Dec-07-09	15 00										
	Analyzed:	Dec-07-09	23 42										
	Units/RL:	mg/kg	RL										
Benzene		0 0756	0 0536										
Toluene		1 424	0 1073										
Ethylbenzene		0 4119	0 0536										
m,p-Xylenes		0 9986	0 1073										
o-Xylene		0 1818											
Total Xylenes		1 1804	0 0536										
Total BTEX		3 092	0 0536										
Percent Moisture	Extracted:												
	Analyzed:	Dec-02-09	17 00	Dec-02-09 1	7 00	Dec-02-09 1	17 00	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09 1	7 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6 77	1 00	4 77	1 00	4 96	1 00	7 66	1 00	5 95	1 00	5 21	1 00
TPH By SW8015 Mod	Extracted:	Dec-02-09	10 30	Dec-02-09 1	0 30	Dec-02-09 1	10 30	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09 1	0 30
Analyzed:		Dec-06-09	08 26	Dec-06-09 08 53		Dec-06-09 09 19		Dec-06-09 09 46		Dec-06-09 10.13		Dec-06-09 1	0 40
	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		139	16 1	81 7	15 8	ND	15 8	ND	16 2	ND	15 9	ND	15 8
C12-C28 Diesel Range Hydrocarbons		490	16 1	331	15 8	19 5	15 8	199	16 2	19 5	15 9	ND	15 8
C28-C35 Oil Range Hydrocarbons		43 4	16 1	29 5	15 8	ND	15 8	ND	16 2	ND	15 9	ND	15 8
Total TPH		672	16 1	442	15 8	19 5	15 8	199	16 2	19 5	15 9	ND	15 8

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Brent Barron, II Odessa Laboratory Manager

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Larson & Associates, Midland, TX Project Name: XTO - Buckeye Station

Project Id: 9-0139
Contact: Michelle Green

Date Received in Lab: Tue Dec-01-09 02:55 pm

Project Location:

Report Date: 11-DEC-09
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	353862-007	353862-008	353862-009	353862-010	353862-011	353862-012
	Field Id:	BH-3 (0-1')	BH-3 (3-4')	BH-3 (5-6')	BH-4 (0-1')	BH-4 (3-4')	BH-4 (7-8')
	Depth:	0-1 ft	3-4 ft	5-6 ft	0-1 ft	3-4 ft	7-8 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-30-09 11 50	Nov-30-09 11 55	Nov-30-09 12 00	Nov-30-09 12 25	Nov-30-09 12 30	Nov-30-09 12 40
Anions by E300	Extracted:						

	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-30-09	11 50	Nov-30-09	11 55	Nov-30-09	12 00	Nov-30-09 1	2 25	Nov-30-09	12 30	Nov-30-09 1	12 40
Anions by E300	Extracted:												
	Analyzed:	Dec-02-09	13 12	Dec-02-09	13 12	Dec-02-09 1	13 12	Dec-02-09 1	3 12	Dec-02-09	13 12	Dec-02-09 1	3 12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		32 0	4 48	12 1	4 48	7 25	4 37	438	18 6	73 5	4 52	22 0	4 63
Percent Moisture	Extracted:												
	Analyzed:	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09 1	17 00	Dec-02-09 1	7 00	Dec-02-09	17.00	Dec-02-09 1	7 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6 19	1 00	6 25	1 00	3 95	1 00	9 56	1 00	7 07	1 00	9 23	1 00
TPH By SW8015 Mod	Extracted:	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09 1	10 30	Dec-02-09 1	0 30	Dec-02-09	10 30	Dec-02-09 1	0 30
	Analyzed:	Dec-06-09	11 07	Dec-06-09	11 35	Dec-06-09 1	12 02	Dec-06-09 1	2 56	Dec-06-09	13 23	Dec-06-09 1	3 50
	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	160	ND	15 9	ND	156	ND	16 6	ND	16 1	ND	16 4
C12-C28 Diesel Range Hydrocarbons		23 9	160	176	15 9	36 4	15 6	59 7	16 6	37 8	16 1	54 2	164
C28-C35 Oil Range Hydrocarbons		ND	160	ND	15 9	ND	156	ND	16 6	ND	16 1	ND	16 4
Total TPH		23 9	16 0	17 6	15 9	36 4	15 6	59 7	16 6	37 8	16 1	54.2	164

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Odessa Laboratory Manager

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Larson & Associates, Midland, TX Project Name: XTO - Buckeye Station

Project Id: 9-0139

Contact: Michelle Green

Date Received in Lab: Tue Dec-01-09 02:55 pm

Report Date: 11-DEC-09

Project Location:

oject Location:								Project Mar	nager:	Brent Barron,	II		
	Lab Id:	353862-0	13	353862-0)14	353862-0	15	353862-0	16	353862-0	17	353862-0	18
Analysis Daguested	Field Id:	BH-5 (0-	1')	BH-5 (3-	·4')	BH-5 (5-6	5')	BH-5 (7-	8')	BH-6 (0-	1')	BH-6 (3-4	1 ')
Analysis Requested	Depth:	0-1 ft		3-4 ft		5-6 ft		7-8 ft		0-1 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	H-6 (0-1') BF O-1 ft SOIL -30-09 14 35 Nov-3 -02-09 13 12 Dec-0 g/kg RL mg/l 104 9 01 -09-09 15 45 -10-09 01-04 g/kg RL ND 0 0011 ND 0 0021 ND 0 0021 ND 0 0011 O014 0 0011 -0014 0 0011 -0014 0 0011 -0014 0 0011 -002-09 17 00 Dec-0 % RL % 6 72 1 00 -02-09 10 30 Dec-0 -06-09 16 05 Dec-0 g/kg RL ND 16 0 ND 16 0 ND 16 0 ND 16 0	SOIL	
	Sampled:	Nov-30-09	13 45	Nov-30-09	13 50	Nov-30-09 1	3 55	Nov-30-09	14 00	Nov-30-09	14 35	Nov-30-09 1	4 40
Anions by E300	Extracted:	-											
	Analyzed:	Dec-02-09	13 12	Dec-02-09	13 12	Dec-02-09 1	3 12	Dec-02-09 1	13 12	Dec-02-09	13 12	Dec-02-09 1	3 12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		84 9	4 67	694	8 78	780	9 00	27 4	4 54	104	9 01	40 1	4 37
BTEX by EPA 8021B	Extracted:	Dec-07-09	15 00	Dec-07-09	15 00					Dec-09-09	15 45		
	Analyzed:	Dec-08-09	00 05	Dec-07-09	22 36					Dec-10-09	01.04		
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL		
Benzene		13 57	0 2773	0 0086	0 0010					ND	0 0011		
Toluene		53 47	0 5546	0.1616	0 0021	1 11 11 11 11 11				ND	0 0021		
Ethylbenzene		35 06	0 2773	1 279 D	0 0209					ND	0 0011		
m,p-Xylenes		28 33	0 5546	0 6063	0 0021								
o-Xylene			0 2773	0 1840									
Total Xylenes		40 88		0 7903									
Total BTEX		142 98	0 2773	2 2395	0 0010					0 0014	0 0011		
Percent Moisture	Extracted:												
	Analyzed:	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09 1	7 00	Dec-02-09 1	17 00	Dec-02-09	17 00	Dec-02-09 1	7 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10 0	1 00	4 30	1 00	6 66	1.00	7 57	1 00	6 72	1 00	3 91	1.00
TPH By SW8015 Mod	Extracted:	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09 1	0 30	Dec-02-09 1	10 30	Dec-02-09	10 30	Dec-02-09 1	0 30
	Analyzed:	Dec-06-09	14 18	Dec-06-09	14 45	Dec-06-09 1	5 12	Dec-06-09 1	15 39	Dec-06-09	16 05	Dec-06-09 1	6 32
	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		3220	333	236	78 4	16 6	16 0	ND	16 2	ND	16 0	174	15 6
C12-C28 Diesel Range Hydrocarbons		11800	333	939	78 4	41 6	160	ND	16 2			34 4	15 6
C28-C35 Oil Range Hydrocarbons		1170	333	ND	78 4	ND	16 0	ND	16 2			ND	15 6
Total TPH		16190	333	1175	78 4	58 2	160	ND	16 2	414	160	51 8	15 6

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Larson & Associates, Midland, TX

Project Name: XTO - Buckeye Station

Date Received in Lab: Tue Dec-01-09 02:55 pm

Report Date: 11-DEC-09

Project Location:

Project Id: 9-0139

Contact: Michelle Green

Project Manager: Brent Barron, II

								1 Tojece Wia	<u></u>	Brent Barron,	. 		
	Lab Id:	353862-0	19	353862-0	020	353862-0	21	353862-0	022	353862-0)23	353862-0)24
Analysis Requested	Field Id:	BH-6 (5-	6')	BH-7 (0-	-1')	BH-7 (3-	4')	BH-7 (7-	·8')	BH-7 (10-	-11')	BH-7 (15-	16')
Anatysis Kequestea	Depth:	5-6 ft		0-1 ft		3-4 ft		7-8 ft		10-11	ft	15-16 f	t
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-30-09	14 45	Nov-30-09	15 15	Nov-30-09	15 20	Nov-30-09	15 30	Nov-30-09	15 35	Nov-30-09	15 40
Anions by E300	Extracted:	***************************************											
	Analyzed:	Dec-02-09	13 12	Dec-02-09	13 12	Dec-02-09	18 42	Dec-02-09	18 42	Dec-02-09	18 42	Dec-02-09	18 42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		29 8	4 58	13 4	4 59	8 32	4 47	6 42	4 38	4 85	4 35	7 88	4 41
BTEX by EPA 8021B	Extracted:			Dec-07-09	15 00	Dec-09-09	15 45	Dec-07-09	15 00	Dec-10-09	14 00		
	Analyzed:			Dec-08-09	00 27	Dec-10-09	02 54	Dec-08-09	01 11	Dec-11-09	09 59		
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene				6 058	0 5448	ND	0 0213	0 0092			0 0010		
Toluene				126 2	1 090		0 0426		0 0104		0 0021		
Ethylbenzene					0 5448	0 2565		5 189 D	0 0209	0 0028			
m,p-Xylenes				99 70	1 090	0 3629	0 0426	3 905	0 0104	0 0033	0 0021		
o-Xylene				39 45	0 5448	0 2267	0 0213	1 899	0 0052	0 0023	0 0010		
Total Xylenes				139 15	0 5448	0 5896	0 0213	5 804	0 0052	0 0056	0 0010		
Total BTEX				395 1	0 5448	0 8461	0 0213	12 084	0 0052	0 0084	0 0010		
Percent Moisture	Extracted:												
	Analyzed:	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09	17 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8 23	1 00	8 41	1 00	6 04	1 00	4.08	1 00	3 51	1 00	4 85	1 00
TPH By SW8015 Mod	Extracted:	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09	10 30
	Analyzed:	Dec-06-09	16 59	Dec-05-09	19 41	Dec-05-09 2	20 08	Dec-05-09	20 34	Dec-05-09	21 01	Dec-05-09 2	21 27
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16 3	1930	16 3	191	15 9	304	15 6	58 2	15 5	ND	15 8
C12-C28 Diesel Range Hydrocarbons		ND	16 3	3730	16 3	523	15 9	860	15 6	262	15 5	174	15 8
C28-C35 Oil Range Hydrocarbons		ND	16 3	175	16 3	28 3	15 9	46 2	15 6	ND	15 5	ND	15 8
Total TPH		ND	16 3	5835	16 3	742	15 9	1210	15 6	320	15 5	17 4	15 8

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Brent Barron, II Odessa Laboratory Manager

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Larson & Associates, Midland, TX

Project Id: 9-0139
Contact: Michelle Green

Project Name: XTO - Buckeye Station

Project Location:

Date Received in Lab: Tue Dec-01-09 02:55 pm

Report Date: 11-DEC-09

Project Manager: Brent Barron, II

								1 Toject Wia	lager.	Dient Danon,	**		
	Lab Id:	353862-0	25	353862-0	26	353862-0	27	353862-0	28	353862-0)29	353862-0	030
Analysis Daguested	Field Id:	BH-8 (0-	1')	BH-8 (5-	6')	BH-8 (7-	8')	BH-9 (0-	1')	BH-9 (3-	-4')	BH-9 (7-	-8')
Analysis Requested	Depth:	0-1 ft		5-6 ft		7-8 ft		0-1 ft		3-4 ft		7-8 ft	:
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-30-09	16 30	Nov-30-09	16 35	Nov-30-09 1	16 40	Nov-30-09	16 55	Nov-30-09	17 00	Nov-30-09	17 10
Anions by E300	Extracted:												
	Analyzed:	Dec-02-09	18 42	Dec-02-09	18 42	Dec-02-09 1	8 42	Dec-02-09	18 42	Dec-02-09	18 42	Dec-02-09	18 42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6 28	4 67	139	9 00	22 2	4 59	87 2	10 1	29 5	4 50	24 4	4 57
BTEX by EPA 8021B	Extracted:	Dec-07-09	15 00	Dec-07-09	15 00			Dec-07-09	15 00	Dec-09-09	15 45	Dec-07-09	15 00
	Analyzed:	Dec-08-09	01 56	Dec-08-09 (3 25			Dec-08-09 (3 47	Dec-10-09	04 44	Dec-07-09	23 20
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		19 01	0 1106	0 0598	0 0534			2 256 D	0 2403	0 0803	0 0535	ND	0 0011
Toluene	i i	75 50 D	1 112	1 543	0 1068			35 47 D	0 4805	0 6206	0 1071	0.0047	0 0022
Ethylbenzene		45 43 D	0 5562	4 357	0 0534			12 95 D		0 6484	0 0535	0 0266	0 0011
m,p-Xylenes		45 30	0 2211	3 938	0 1068			18 72 D	0 4805	2 505	0 1071	0 0364	0 0022
o-Xylene		17 54	0 1106	1 837	0 0534			8 195			0 0535	0 0226	0 0011
Total Xylenes		62 84	0 1106	5 775	0 0534			26 92	0 0240	3 877	0 0535	0 0590	0 0011
Total BTEX		202 8	0 1106	11 735	0 0534			77 59	0 0240	5.226	0 0535	0 0903	0 0011
Percent Moisture	Extracted:												
	Analyzed:	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09 1	7 00	Dec-02-09	17 00	Dec-02-09	17 00	Dec-02-09	17 00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10 1	1 00	6 71	1 00	8 43	1 00	16 8	1 00	6 62	1 00	8 01	1 00
TPH By SW8015 Mod	Extracted:	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09 1	0 30	Dec-02-09	10 30	Dec-02-09	10 30	Dec-02-09	10 30
	Analyzed:	Dec-05-09	21 54	Dec-05-09 2	22 20	Dec-05-09 2	22 47	Dec-05-09	23 13	Dec-05-09	23 39	Dec-06-09	00 32
	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		2890	167	303	16 1	ND	16 4	3240	358	898	161	44 1	16 3
C12-C28 Diesel Range Hydrocarbons		4320	167	593	16 1	20 4	16 4	4850	358	3090	161	89 5	16 3
C28-C35 Oil Range Hydrocarbons		353	167	37 5	16 1	17 5	16 4	520	358	239	161	ND	16 3
Total TPH		7563	167	934	161	37 9	16 4	8610	358	4227	161	133 6	16 3

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Brent Barron, II Odessa Laboratory Manager

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Larson & Associates, Midland, TX

Project Id: 9-0139

Project Name: XTO - Buckeye Station

Date Received in Lab: Tue Dec-01-09 02:55 pm

Contact: Michelle Green

Report Date: 11-DEC-09

Project Location:

Project Manager: Brent Barron, II

	Lab Id:	353862-031	1				
Analysis Requested	Field Id:	BH-9 (10-11	!')				i
Analysis Kequesieu	Depth:	10-11 ft					
	Matrix:	SOIL					1
	Sampled:	Nov-30-09 17	15				
Anions by E300	Extracted:						
	Analyzed:	Dec-02-09 18	42				
	Units/RL:	mg/kg	RL				
Chloride		27 8	4 50				
Percent Moisture	Extracted:						
	Analyzed:	Dec-02-09 17	00				
	Units/RL:	%	RL				j
Percent Moisture		6 62	1 00				
TPH By SW8015 Mod	Extracted:	Dec-02-09 10	30			-	
	Analyzed:	Dec-06-09 00	58				
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	160				
C12-C28 Diesel Range Hydrocarbons		18 7	16 0				
C28-C35 Oil Range Hydrocarbons		ND	160				
Total TPH		18 7	160				
					 		_

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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
- * Outside XENCO's scope of NELAC Accreditation.

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Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784779

Sample: 544970-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/07/09 21:06	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes	[-]	[-]	[D]					
1,4-Dıfluorobenzene	0 0343	0 0300	114	80-120				
4-Bromofluorobenzene	0 0322	0 0300	107	80-120				

Lab Batch #: 784779

Sample: 544970-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/07/09 21:29	Su	RROGATE RI	ECOVERY :	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[]	(2)	[D]	,,,,,	
1,4-Dıfluorobenzene	0 0345	0 0300	115	80-120	
4-Bromofluorobenzene	0 0331	0 0300	110	80-120	

Lab Batch #: 784779

Sample: 544970-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/07/09 22:13	SU	RROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0315	0 0300	105	80-120	
4-Bromofluorobenzene	0 0332	0 0300	111	80-120	

Lab Batch #: 784779

Sample: 353862-014 / SMP

-014 / SMP B:

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/07/09 22:36	SU	RROGATE RI	ECOVERY S	STUDY	
ВТЕХ	Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene		0 0271	0 0300	90	80-120	
4-Bromofluorobenzene		0 0643	0 0300	214	80-120	**

Lab Batch #: 784779

Sample: 353862-030 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/07/09 23:20	SU	RROGATE R	ECOVERY :	STUDY	
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Dıfluorobenzene		0 0317	0 0300	106	80-120	
4-Bromofluorobenzene		0 0413	0 0300	138	80-120	**

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784779

Sample: 353862-001 / SMP

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 12/07/09 23:42	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			{D}		
1,4-Dıfluorobenzene	0 0289	0 0300	96	80-120	
4-Bromofluorobenzene	0 0227	0 0300	76	80-120	**

Lab Batch #: 784779

Sample: 353862-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 00:05	SU	RROGATE RI	ECOVERY S	VERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analytes			[D]								
1,4-Dıfluorobenzene	0 0383	0 0300	128	80-120	**						
4-Bromofluorobenzene	0 0296	0 0300	99	80-120							

Lab Batch #: 784779

Sample: 353862-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/08/09 00:27	SURROGATE RECOVERY STUDY				
втех	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene		0 0286	0 0300	95	80-120	
4-Bromofluorobenzene	A STATE OF THE STA	0 0293	0 0300	98	80-120	

Lab Batch #: 784779

Sample: 353862-022 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 01:11	01:11 SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[2]		
1,4-Dıfluorobenzene	0 0383	0 0300	128	80-120	**
4-Bromofluorobenzene	0 0777	0 0300	259	80-120	**

Lab Batch #: 784779

Sample: 353862-025 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 01:56	8/09 01:56 SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0291	0 0300	97	80-120	
4-Bromofluorobenzene	0 0317	0 0300	106	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery $\{D\} = 100 * A / B$

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

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784779

Sample: 353862-026 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 03:25	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0305	0 0300	102	80-120	
4-Bromofluorobenzene	0 0357	0 0300	119	80-120	

Lab Batch #: 784779

Sample: 353862-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 03:47	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0298	0 0300	99	80-120	i,
4-Bromofluorobenzene	0 0482	0 0300	161	80-120	**

Lab Batch #: 784779

Sample: 353862-001 D / MD

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/08/09 07:07 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene	0 0290	0 0300	97	80-120	
4-Bromofluorobenzene	0 0297	0 0300	99	80-120	

Lab Batch #: 785118

Sample: 545171-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 12/09/09 23:36	SURROGATE RECOVERY STUDY				
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[Đ]		
1,4-Dıfluorobenzene		0 0308	0 0300	103	80-120	
4-Bromofluorobenzene	= · · · · · · · · · · · · · · · · · · ·	0 0318	0 0300	106	80-120	

Lab Batch #: 785118

Sample: 545171-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/09/09 23:58	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
-					
1,4-Dıfluorobenzene	0 0307	0 0300	102	80-120	
4-Bromofluorobenzene	0 0318	0 0300	106	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 785118

Sample: 545171-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/10/09 00:42	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0265	0 0300	88	80-120	
4-Bromofluorobenzene	0 0313	0 0300	104	80-120	

Lab Batch #: 785118

Sample: 353862-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/09 01:04	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0 0269	0 0300	90	80-120		
4-Bromofluorobenzene	0 0320	0 0300	107	80-120		

Lab Batch #: 785118

Sample: 353862-014 / DL

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/09 02:32 SURROGATE RECOVERY S						
BTEX by E		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene		0 0255	0 0300	85	80-120	
4-Bromofluorobenzene		0 0322	0 0300	107	80-120	

Lab Batch #: 785118

Sample: 353862-021 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date A	nalyzed: 12/10/09 02:54	SURROGATE RECOVERY STUDY				
BTEX by EPA		Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags
Analytes		0.0065	0.0200	1	00.100	
1,4-Dıfluorobenzene		0 0265	0 0300	88	80-120	
4-Bromofluorobenzene		0 0336	0 0300	112	80-120	

Lab Batch #: 785118

Sample: 353862-022 / DL

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/09 03:16	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0.0261	0 0300	87	80-120	
4-Bromofluorobenzene	0 0461	0.0300	154	80-120	**

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 785118

Sample: 353862-025 / DL

Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/09 04:00	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[,	(-1	[D]		
1,4-Dıfluorobenzene	0 0206	0 0300	69	80-120	**
4-Bromofluorobenzene	0 0216	0 0300	72	80-120	**

Lab Batch #: 785118

Sample: 353862-028 / DL

Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 12/10/09 04:22	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[-1	,	[D]		
1,4-Dıfluorobenzene	0 0190	0 0300	63	80-120	**
4-Bromofluorobenzene	0 0240	0 0300	80	80-120	

Lab Batch #: 785118

Sample: 353862-029 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/09 04:44	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			ושו		
1,4-Dıfluorobenzene	0 0215	0 0300	72	80-120	**
4-Bromofluorobenzene	0 0247	0 0300	82	80-120	

Lab Batch #: 785339

Sample: 545305-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/11/09 08:09	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene	0 0310	0 0300	103	80-120	
4-Bromofluorobenzene	0 0316	0 0300	105	80-120	

Lab Batch #: 785339

Sample: 545305-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 12/11/09 08:31	SURROGATE RECOVERY STUDY					
	by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Dıfluorobenzene		0 0293	0 0300	98	80-120		
4-Bromofluorobenzene		0 0304	0 0300	101	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 785339

Sample: 545305-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/11/09 09:15	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0275	0 0300	92	80-120	
4-Bromofluorobenzene	0 0316	0 0300	105	80-120	

Lab Batch #: 785339

Sample: 353862-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/11/09 09:59	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Dıfluorobenzene	0 0273	0 0300	91	80-120	
4-Bromofluorobenzene	0 0329	0 0300	110	80-120	

Lab Batch #: 785339

Sample: 354812-002 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/11/09	9 10:44 S	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Dıfluorobenzene	0 0308	0 0300	103	80-120		
4-Bromofluorobenzene	0 0394	0 0300	131	80-120	*	

Lab Batch #: 785339

Sample: 354812-002 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/11/09 1	1:06 SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		-	[D]			
1,4-Dıfluorobenzene	0 0307	0 0300	102	80-120		
4-Bromofluorobenzene	0 0342	0 0300	114	80-120		

Lab Batch #: 784443

Sample: 544775-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/05/09 18:21	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags
1-Chlorooctane	87.7	99 8	88	70-135	
o-Terphenyl	42 5	49 9	85	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784443

Sample: 544775-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/05/09 18:48	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88 4	99 6	89	70-135	
o-Terphenyl	42 2	49 8	85	70-135	

Lab Batch #: 784443

Sample: 544775-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 12/05/09 19:14	/05/09 19:14 SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		89 5	99 8	90	70-135	
o-Terphenyl		49 2	49 9	99	70-135	

Lab Batch #: 784443

Sample: 353862-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 19:41 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	101	99 5	102	70-135	
o-Terphenyl	42 0	49 8	84	70-135	

Lab Batch #: 784443

Sample: 353862-021 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 20:08	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	81 6	99 7	82	70-135		
o-Terphenyl	43 3	49 9	87	70-135		

Lab Batch #: 784443

Sample: 353862-022 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 20:34	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83 5	100	84	70-135	
o-Terphenyl	42 0	50 0	84	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784443

Sample: 353862-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 21:01 SURROGATE RECOVERY STUDY						
трн ву	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	Analytes	, ,		[D]		
1-Chlorooctane		147	100	147	70-135	**
o-Terphenyl		73 5	50 0	147	70-135	**

Lab Batch #: 784443

Sample: 353862-024 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 12/05/09 21:27	SURROGATE RECOVERY STUDY					
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		83 0	100	83	70-135		
o-Terphenyl		44 8	50 0	90	70-135		

Lab Batch #: 784443

Sample: 353862-025 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 21:54	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	50 9	50 0	102	70-135	

Lab Batch #: 784443

Sample: 353862-026 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/05/09 22:20	SU	RROGATE RI	COVERY S	STUDY	
ТРН 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		82 2	99 9	82	70-135	
o-Terphenyl		43 3	50 0	87	70-135	

Lab Batch #: 784443

Sample: 353862-027 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date A	nalyzed: 12/05/09 22:47	SU	RROGATE RI			
TPH By SW801 Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		80 0	100	80	70-135	
o-Terphenyl		44.3	50 0	89	70-135	<u></u>

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784443

Sample: 353862-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 23:13 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	110	99 4	111	70-135	
o-Terphenyl	56 5	49 7	114	70-135	

Lab Batch #: 784443

Sample: 353862-029 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/05/09 23:39 SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	93 9	100	94	70-135		
o-Terphenyl	51 1	50 0	102	70-135		

Lab Batch #: 784443

Sample: 353862-030 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 00:32	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		84 4	99 7	85	70-135	
o-Terphenyl		44 8	49 9	90	70-135	

Lab Batch #: 784443

Sample: 353862-031 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 00:58	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		•
1-Chlorooctane	82 6	99 8	83	70-135	
o-Terphenyl	45 4	49 9	91	70-135	

Lab Batch #: 784443

Sample: 353862-024 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 03:	37 SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89 1	99 5	90	70-135	
o-Terphenyl	42 5	49 8	85	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784443

Sample: 353862-024 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 04:03 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	()	[-]	[D]		
1-Chlorooctane	84.1	99.8	84	70-135	
o-Terphenyl	40 9	49 9	82	70-135	

Lab Batch #: 784510

Sample: 544822-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/06/09 06:41 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes				{D}			
1-Chlorooctane		107	99 8	107	70-135		
o-Terphenyl		45 7	49 9	92	70-135		

Lab Batch #: 784510

Sample: 544822-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	Date Analyzed: 12/06/09 07:07	SU	RROGATE R	ECOVERY :	STUDY	
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[12]		
1-Chlorooctane		107	100	107	70-135	
o-Terphenyl		46 1	50 0	92	70-135	

Lab Batch #: 784510

Sample: 544822-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/06/09 07:34	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	93 4	99 8	94	70-135			
o-Terphenyl	49 7	49 9	100	70-135			

Lab Batch #: 784510

Sample: 353862-001 / SMP

Batch: 1

Matrix: Soil

ASSES ASSESSED IN C		2000		••		
Units: mg/kg	Date Analyzed: 12/06/09 08:26	SU	RROGATE R	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		95 8	99 9	96	70-135	
o-Terphenyl		49 3	50 0	99	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784510

Sample: 353862-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 08:53	Su	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	143	100	143	70-135	**
o-Terphenyl	65 6	50 0	131	70-135	

Lab Batch #: 784510

Sample: 353862-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 09:19 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	93 7	99 9	94	70-135			
o-Terphenyl	50 0	50 0	100	70-135			

Lab Batch #: 784510

Sample: 353862-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 09:46	SU	RROGATE RI	ECOVERY :	STUDY	
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
,	Analytes			[D]		
1-Chlorooctane		84 5	99 8	85	70-135	
o-Terphenyl		46 1	49 9	92	70-135	

Lab Batch #: 784510

Sample: 353862-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 10:1	3 SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes			[10]			
1-Chlorooctane	79 0	99 8	79	70-135		
o-Terphenyl	42.8	49 9	86	70-135		

Lab Batch #: 784510

Sample: 353862-006 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 10:40	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		74 4	99 8	75	70-135	
o-Terphenyl		41 5	49 9	83	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784510

Sample: 353862-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 11:07	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		80 4	99 9	80	70-135	
o-Terphenyl	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	43 5	50 0	87	70-135	

Lab Batch #: 784510

Sample: 353862-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 11:35	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		77 4	99 5	78	70-135	
o-Terphenyl		41 8	49 8	84	70-135	

Lab Batch #: 784510

Sample: 353862-009 / SMP

Batch:

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 12:02	st	RROGATE R	RECOVERY	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		76 8	100	77	70-135	
o-Terphenyl		41 7	50 0	83	70-135	

Lab Batch #: 784510

Sample: 353862-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09	12:56 SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	79 7	100	80	70-135	:		
o-Terphenyl	42 8	50 0	86	70-135			

Lab Batch #: 784510

Sample: 353862-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 13:23	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery Limits %R %R		Flags
1-Chlorooctane	76 6	99 8	77	70-135	
o-Terphenyl	41 7	49 9	84	70-135	-

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784510

Sample: 353862-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 13:50 SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	, ,	,	[D]		
1-Chlorooctane	83 9	99 5	84	70-135	
o-Terphenyl	45 5	49 8	91	70-135	

Lab Batch #: 784510

Sample: 353862-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 14:18	st	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	138	100	138	70-135	**			
o-Terphenyl	54 6	50 0	109	70-135				

Lab Batch #: 784510

Sample: 353862-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 14:4:									
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	92 9	100	93	70-135	4				
o-Terphenyl	50 3	50 0	101	70-135					

Lab Batch #: 784510

Sample: 353862-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 12/06/09 15:12	SURROGATE RECOVERY STUDY						
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	111111111111111111111111111111111111111	82 5	99 5	83	70-135			
o-Terphenyl		44 7	49 8	90	70-135			

Lab Batch #: 784510

Sample: 353862-016 / SMP

Batch: 1

Matrix: Soil

Date H. Total Co.									
Units: mg/kg	Date Analyzed: 12/06/09 15:39	SURROGATE RECOVERY STUDY							
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane		114	100	114	70-135				
o-Terphenyl		59 8	50 0	120	70-135				

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: XTO - Buckeye Station

Work Orders: 353862,

Project ID: 9-0139

Lab Batch #: 784510

Sample: 353862-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed	1: 12/06/09 16:05	9 16:05 SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes				[D]				
1-Chlorooctane		90 1	99 8	90	70-135			
o-Terphenyl		48 1	49 9	96	70-135			

Lab Batch #: 784510

Sample: 353862-018 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 16:32	st	RROGATE RI	ECOVERY	OVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	79 1	99 8	79	70-135					
o-Terphenyl	43 5	49 9	87	70-135					

Lab Batch #: 784510

Sample: 353862-019 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 16:59 SURROGATE RECOVERY STUDY							
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		81 7	100	82	70-135		
o-Terphenyl		44 4	50 0	89	70-135		

Lab Batch #: 784510

Sample: 353862-003 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 17	7:25 SU	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	99 8	99 8	100	70-135				
o-Terphenyl	43 2	49 9	87	70-135				

Lab Batch #: 784510

Sample: 353862-003 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/06/09 17:52 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes			[6]				
1-Chlorooctane	93 0	100	93	70-135			
o-Terphenyl	41 2	50 0	82	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits, data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: XTO - Buckeye Station

Work Order #: 353862 Project ID: 9-0139

Lab Batch #: 784111Sample: 784111-1-BKSMatrix: SolidDate Analyzed: 12/02/2009Date Prepared: 12/02/2009Analyst: LATCOR

Reporting Units: mg/kg	BLANK/BLANK SPIKE RECOVERY STUDY					
Anions by E300	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	l lei	[[0]	[C]	[D]	/ U K	
Chloride	ND	10.0	9 32	93	75-125	

Lab Batch #: 784114 Sample: 784114-1-BKS Matrix: Solid
Date Analyzed: 12/02/2009 Date Prepared: 12/02/2009 Analyst: LATCOR

Reporting Units: mg/kg B	atch #: 1	BLANK /BLANK SPIKE RECOVERY STUD				TUDY
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	10 0	10 2	102	75-125	



BS / BSD Recoveries



Project Name: XTO - Buckeye Station

Work Order #: 353862

Analyst: ASA Date Prepared: 12/07/2009

Project ID: 9-0139 Date Analyzed: 12/07/2009

Matrix: Solid

Lab Batch ID: 784779

Sample: 544970-1-BKS

Batch #: 1

Units: mg/kg BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0 1000	0 0982	98	0.1	0 0971	97	1	70-130	35	
Toluene	ND	0 1000	0 1010	101	0 1	0 1010	101	0	70-130	35	
Ethylbenzene	ND	0 1000	0 0983	98	0 1	0 0974	97	1	71-129	35	
m,p-Xylenes	ND	0 2000	0 1998	100	0 2	0 1985	99	1	70-135	35	
o-Xylene	0 0010	0 1000	0 1044	104	0 1	0 1042	104	0	71-133	35	

Analyst: ASA Date Prepared: 12/09/2009 Date Analyzed: 12/09/2009

Lab Batch ID: 785118 Sample: 545171-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	SPIKE DUPI	LICATE 1	RECOVI	ERY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk, Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0 1000	0 1052	105	0 1	0 1052	105	0	70-130	35	
Toluene	ND	0 1000	0 1046	105	0.1	0 1043	104	0	70-130	35	
Ethylbenzene	0 0010	0.1000	0 1047	105	0.1	0 1042	104	0	71-129	35	
m,p-Xylenes	0 0020	0 2000	0 2248	112	02	0 2239	112	0	70-135	35	
o-Xylene	ND	0 1000	0 1135	114	0.1	0 1132	113	0	71-133	35	

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



BS / BSD Recoveries



Project Name: XTO - Buckeye Station

Work Order #: 353862

Lab Batch ID: 785339

Analyst: ASA Date Prepared: 12/10/2009

Project ID: 9-0139

Date Analyzed: 12/11/2009

Sample: 545305-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg		BLAN	K/BLANK	SPIKE / F	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD) Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk, Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0 1000	0 0992	99	0 1	0 0934	93	6	70-130	35	
Toluene	ND	0 1000	0 0979	98	0.1	0 0921	92	6	70-130	35	
Ethylbenzene	ND	0 1000	0 0941	94	0.1	0 0868	87	8	71-129	35	
m,p-Xylenes	ND	0 2000	0 1978	99	0 2	0 1920	96	3	70-135	35	
o-Xylene	ND	0 1000	0 1034	103	0 1	0 1007	101	3	71-133	35	

Analyst: BEV

Date Prepared: 12/02/2009

Date Analyzed: 12/05/2009

Lab Batch ID: 784443

Sample: 544775-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Kesuit [r]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	998	916	92	996	923	93	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	901	90	996	869	87	4	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



BS / BSD Recoveries



Project Name: XTO - Buckeye Station

Work Order #: 353862

Analyst: BEV Date Prepared: 12/02/2009

Project ID: 9-0139

Date Analyzed: 12/06/2009 Matrix: Solid

Lab Batch ID: 784510

Sample: 544822-1-BKS

Batch #: 1

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVE	ERY STUD	•Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	998	946	95	1000	966	97	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	770	77	1000	796	80	3	70-135	35	

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



Form 3 - MS Recoveries

Project Name: XTO - Buckeye Station



Work Order #: 353862

Lab Batch #: 784111 Date Analyzed: 12/02/2009

Project ID: 9-0139

Date Prepared: 12/02/2009

Analyst: LATCOR

QC-Sample ID: 353862-001 S utina Iluita, ma/ka

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY										
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride	9 67	107	115	98	75-125						

Lab Batch #: 784114

Date Analyzed: 12/02/2009

Date Prepared: 12/02/2009

Analyst: LATCOR

QC-Sample ID: 353862-021 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	8 32	106	115	101	75-125	

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

BRL - Below Reporting Limit

Final Ver. 1.000

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Form 3 - MS / MSD Recoveries

Project Name: XTO - Buckeye Station



Work Order #: 353862 Project ID: 9-0139

Lab Batch ID: 785339 QC- Sample ID: 354812-002 S Batch #: 1 Matrix: Soil

Date Analyzed: 12/11/2009 Date Prepared: 12/10/2009 Analyst: ASA

Reporting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag		
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD			
Benzene	ND	0 1100	0 0684	62	0 1100	0 0677	62	1	70-130	35	X		
Toluene	ND	0 1100	0 0692	63	0 1100	0 0684	62	1	70-130	35	X		
Ethylbenzene	ND	0 1100	0 0753	68	0 1100	0 0744	68	1	71-129	35	X		
m,p-Xylenes	ND	0 2199	0 1656	75	0 2199	0 1651	75	0	70-135	35			
o-Xylene	ND	0 1100	0 0857	78	0 1100	0 0800	73	7	71-133	35			

Lab Batch ID: 784443 QC- Sample ID: 353862-024 S Batch #: 1 Matrix: Soil

Date Analyzed: 12/06/2009 Date Prepared: 12/02/2009 Analyst: BEV

Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY:	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1050	950	90	1050	924	88	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	17 4	1050	830	77	1050	778	72	6	70-135	35	

Lab Batch ID: 784510 QC- Sample ID: 353862-003 S Batch #: 1 Matrix: Soil

Date Analyzed: 12/06/2009 Date Prepared: 12/02/2009 Analyst: BEV

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1050	935	89	1050	878	84	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	19 5	1050	842	78	1050	740	69	13	70-135	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(C-F)/(C+F) Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery

Project Name: XTO - Buckeye Station

Work Order #: 353862

Lab Batch #: 784111

Project ID: 9-0139

Date Analyzed: 12/02/2009

Date Prepared: 12/02/2009

Analyst: LATCOR

QC- Sample ID: 353862-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE/SAMPLE DUPLICATE RECOVERY									
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag						
Analyte		[B]									
Chloride	9 67	8 57	12	20							

Lab Batch #: 784114

Date Analyzed: 12/02/2009

Date Prepared: 12/02/2009

Analyst: LATCOR

QC-Sample ID: 353862-021 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE/SAMPLE DUPLICATE RECOVERY									
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag					
Analyte		[B]								
Chloride	8 32	7 29	13	20						

Lab Batch #: 784779

Date Analyzed: 12/08/2009

Date Prepared: 12/07/2009

Analyst: ASA

QC-Sample ID: 353862-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE/SAMPLE DUPLICATE RECOVERY										
BTEX by EPA 8021B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag						
Analyte		(<i>D</i>)									
Benzene	0 0756	0 0011	194	35	F						
Toluene	1 424	0 0279	192	35	F						
Ethylbenzene	0 4119	0 0086	192	35	F						
m,p-Xylenes	0 9986	0 0218	191	35	F						
o-Xylene	0 1818	0 0041	191	35	F						

Lab Batch #: 784105

Date Analyzed: 12/02/2009

Date Prepared: 12/02/2009

Analyst: WRU

QC- Sample ID: 353862-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE/SAMPLE DUPLICATE RECOVERY											
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag							
Analyte		[B]										
Percent Moisture	6 77	7 25	7	20								



Sample Duplicate Recovery

Project Name: XTO - Buckeye Station

Work Order #: 353862

Lab Batch #: 784108

Project ID: 9-0139

Date Analyzed: 12/02/2009

Date Prepared: 12/02/2009

Analyst: WRU

QC- Sample ID: 353862-021 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Units: 70	SAMIFLE	SAMIFLE	DUPLIC	AIL REC	OVERI
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	6 04	5 73	5	20	

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Ssocia	tes, Ir	ic.																							OR		_	-	<u> </u>			
Environment	al Consulto	ants				43	2-6	87-	090)1			PROJECT LOCATION OR NAME: <u>VTO - Buckeye Station</u> LAI PROJECT #: 9-0139 COLLECTOR: JNF OR OF THE COLLECTOR COLLECTOR OF THE									<u>_</u>										
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TRRP report? ☐ Yes 【X No	S=SOIL W=WATE A=AIR	R SL=	AINT SLUDGE OTHER			PI	RES			T	1				/		100	Y /				\$\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		ANIE A				//	
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BH-2 (3-4)		11/30/09		S	1				1				1	\											V							
BH-26-6)		11/30/09		5					1				✓	\											V							
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BH-4(0-1)		11/30/09		5					V				/												\checkmark							
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BH-8 (5 7) (5	-61-20	1/30/09	1635	5	-				/		V	V	\											1								
BH-8 (7-8')		11/30/09		S	- 1							1	1								T		\top	1		П						
BH-9(0-1')	-23	11/30/09	1655	5	1				1		V	V									T			1					_			
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

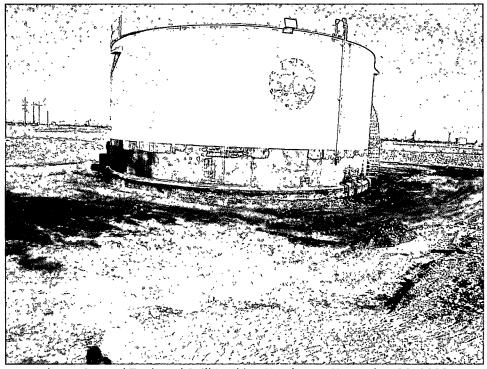
Client:	Lavson & Assoc.				
Date/ Time:	12:109 14:55				
Lab ID#:	353842				
Initials:	AL				
	Sample Receipt	Checklist		Client Initia	uls
#1 Temper	ature of container/ cooler?	Yes	No	→1.4 °C	
#2 Shipping	container in good condition?	(es)	No		
#3 Custody	Seals intact on shipping container/ cooler?	Yes	No	Not Present	_
#4 Custody	Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of	f Custody present?	(Yes)	No		
#6 Sample	instructions complete of Chain of Custody?	Yes	No		
#7 Chain o	f Custody signed when relinquished/ received?	Yes	No		
#8 Chain o	f Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9 Contain	er label(s) legible and intact?	(Pes)	No	Not Applicable	
#10 Sample	e matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Contair	ners supplied by ELOT?	Yes	No		
#12 Sample	es in proper container/ bottle?	Yes	No	See Below	
#13 Sample	es properly preserved?	Yes	No	See Below	
#14 Sample	e bottles intact?	(Yes)	No		
#15 Preser	vations documented on Chain of Custody?	(Yes)	No		
#16 Contain	ners documented on Chain of Custody?	Yes	No		
#17 Sufficie	ent sample amount for indicated test(s)?	(E)	No	See Below	
#18 All sam	ples received within sufficient hold time?	(es	No	See Below	
#19 Subco	ntract of sample(s)?	Yes	No	Not Applicable	
#20 VOCs	amples have zero headspace?	Yes	No	Not Applicable	
Contact: Regarding:	Variance Docur Contacted by:	nentation		Date/ Time:	
Corrective A	action Taken:				
Check all th	at Apply: See attached e-mail/ fax Client understands and woul Cooling process had begun	•		•	

Final Ver. 1.000

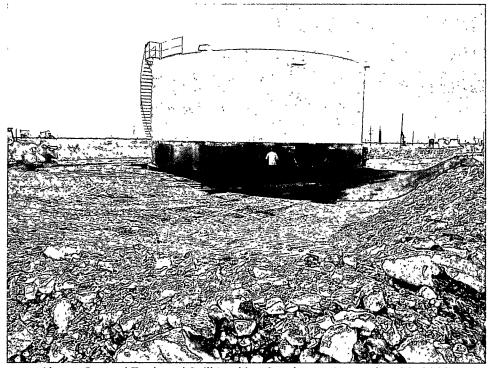
Appendix B

Photographs

Photographic Documentation

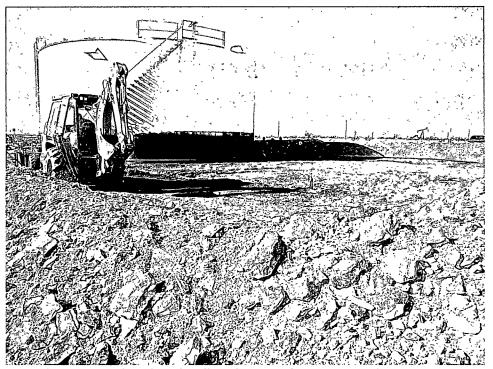


Above-Ground Tank and Spill Looking Northeast, November 20, 2009

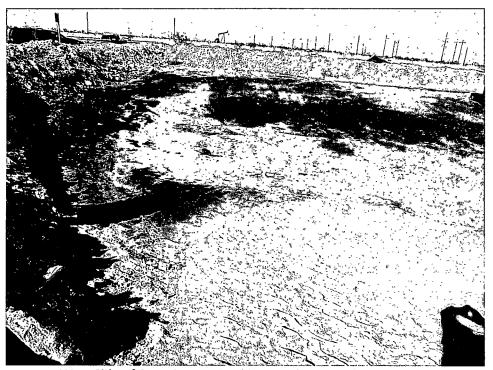


Above-Ground Tank and Spill Looking Southeast, November 20, 2009

Photographic Documentation

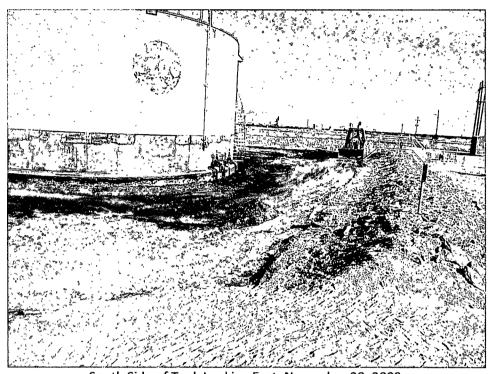


Above-Ground Tank and Spill Looking Northwest, November 20, 2009

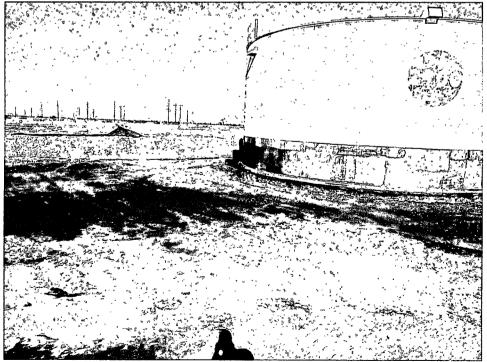


West Side of Containment Looking North, November 20, 2009

Photographic Documentation



South Side of Tank Looking East, November 20, 2009



West Side of Tank Looking North, November 20, 2009

Appendix C

Initial 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

* Attach Additional Sheets If Necessary

State of New Mexico RECEIVED

Energy Minerals and Natural Resources DEC 1 / 2009

Oil Conservation Division
1220 South St. Francis Dr.
Serte Fo. NM 93505

Form C-141 Revised October 10, 2003

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

				26	inta F	e, NM 8/5	105						
Release Notification and Corrective Action													
						OPERA'	FOR ,	🔀 Initi	al Report	Final Report			
Name of Co		XTO EN				Contact		Gallardo					
Address	, ,	200 N.	Lora	ine DR.		Telephone ì	No. 43	2- 620-4	3/5				
Facility Na	me <i>134</i> 1	CKEYE SI	ATION			Facility Typ	e SHIPPING	TAPK	·				
Surface Ow	ner			Mineral C	wner			Lease 1	Vo.				
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County				
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Was a Watero	course Reac		Yes 🔯	No		If YES, Vo	lume Impacting t						
If a Watercou	ree was Im	antad Deco-	ha Fully 4			<u> </u>							
I I W WATER COLL	120 402 1111	Jacieu, Desci	ine Lauy.										
Describe Caus	se of Proble	m and Remed	ial Action	ı Taken.+	-			· · · · · ·					
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Describe Area	Affected a	nd Cleanup A	ction Tak	en.* LEAK	COM	ון משיות	U DIKE.						
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REMOVED	60 YAN	os of l	31961	HAULED TO	CEI	OISPOSTAL.							
I hereby certif	v that the is	formation of	ven shove	is true and compl	ete to f	he hest of my	knowledge and w	nderstand that purs	vant to XIM	VD rules and			
regulations all	operators a	ire required to	report an	d/or file certain re	lease n	otifications an	d perform correct	tive actions for rele eport" does not reli	ases which	may endanger			
should their of	octations he	ive failed to a	dequately	investigate and re	mediat	e contaminatio	on that pose a thre	at to ground water	. surface was	ter, human health			
or the environ federal, state,	ment. In ad	ldition, NMO	CD accept	ance of a C-141 r	eport d	oes not relieve	the operator of r	esponsibility for co	ompliance w	ith any other			
						·	OIL CONS	SERVATION	DIVISIO	N			
Signature:	M	ty Porc	<u>.</u>					I ohu-	Ser	<u>~</u>			
		_				Approved by I	District Bungryiso	NMENTAL E	MOINEE	D			
Printed Name:		ry Pib					L.14-A 11.1 C	JAMEN AL L	INGHALL				
Title: P	ואומי	CONEMAL				Approval Date	: 12.17.0	29 Expiration I	Date: 2.	17.09			
E-mail Addres	S: MONTY	1-PIENOE	C XID	ermay, co		Conditions of	Approval:		Attached				
Date: 11-7	19-09		Phone;	806/252/4	633	SUBMIT!	FINAL CE	f1 By		09.11.2359			