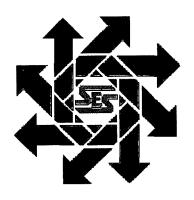
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SEP 0 1 2010 HOBBSOCD

XTO Energy, Inc. HOBBSOCD EMSU-B #923 Township 20 South, Range 36 East, Section 24 Lea County, New Mexico

Delineation Report

August 27, 2010



Prepared for:

XTO Energy, Inc. 200 North Lorraine, Suite 800 Midland, Texas 79701

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510 epproved w/condition that; Excavete to 23 © 1 BH#1-Enlarge diameter eron 20 per sidewall Samples Samples Samples Samples Environmental Engr. NMOCD-Hobbs

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I. Company Contacts

Name	Company	Telephone	E-mail
Jeff Raines	XTO Energy, Inc.	432.557.3159	Jeff Raines@xtoenergy.com
Bob Allen	SESI	575-390-7063	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by XTO Energy, Inc. to perform clean-up services at the EMSU-B #923 spill site. This is an area with old hard pan staining that resulted from previous operators activities. The contaminants of concern at the site appear to be crude oil and possibly produced water.

XTO Energy, Inc. Inc. acquired these leases in September 2004. There has not been any facilities, pipeline, or flow lines operated on or nearby any of these subject sites by XTO Energy, Inc. However, a search of the New Mexico Oil Conservation Division (NMOCD) online database, the well files revealed the leases were held by the following companies:

Lease #	Year	Company
EMSU-B #923	1943-1976	Continental Oil
	1979	Conoco Inc
	1990	Chevron USA Inc.
	2004	XTO Energy, Inc. Inc.

III. Surface and Ground Water

The closest groundwater of record with the Office of the State Engineer is located in Township 20 South, Range 36 East, and Section 26. The depth of water in this well was 170' in July1954.

IV. Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Characterization

The target cleanup levels are reached by the application of the "Unlined Surface Impoundment Closure Guidelines New Mexico Oil Conservation Division (NMOCD) – February, 1993 to this site is 5,000 parts per million (ppm) Total Petroleum Hydrocarbons (TPH). Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below:

Depth to Ground Water:		
(Vertical distance from contaminants to	Less than 50 feet	20 points
seasonal high water elevation of	f 50 feet to 99 feet	10 points
groundwater)	>100 feet	0 points X
Wellhead Protection Area:		
(Less than 200 feet from a private domesti	Yes	20 points
water source; or less than 1000 feet from a	l No	0 points X
other water sources)		

Distance to Surface Water:							
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points					
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points					
canals and ditches)	>1000 feet	0 points	Χ				
	RANKING SCORE (TO	TAL POINTS)	0				

SESI is of the opinion that the groundwater in the vicinity of the site is in excess of 100' below the vertical extent of contamination at the site. The borehole that was drilled in search of groundwater on June 25, 2010 was terminated at a depth of 76' with no signs of groundwater. In addition, the New Mexico State Engineer's online database identified a water well located approximately 1.08 miles to the southwest of the site and records a depth to groundwater of 170' in a 400' well drilled in July 1954. In light of the absence of groundwater, the target cleanup level of this site should be 5,000 ppm TPH.

IV. Work Performed

On October 8, 2009, SESI was onsite with Diamondback Disposal Services Inc. to install seven (7) test trenches from excavated area to determine vertical extent. The area has already been excavated to a depth of 6 to 8 ft. below ground surface (bgs). The test trenches were installed to depths ranging from 8 to 18 ft. bgs.

Samples were retrieved at depths ranging from 3 feet to 5 feet intervals and were properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), and Total Petroleum Hydrocarbons (EPA method 8015 M).

The results of the analysis are as follows:

Sample	GRO	DRO	Benzene	Toluene	Ethyl	Total
ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	(mg/kg)	(mg/kg)	Benzene	Xylenes
	(mg/kg)	(mg/kg)			(mg/kg)	(mg/kg)
TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	< 0.300
TT #2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
TT #3 14'	11.6	545	0.060	0.145	0.283	0.946
TT #3 18'	459	1,890	< 0.050	0.249	< 0.050	2.94
TT #4 11'	1,120	2,620	0.763	0.878	1.94	6.21
TT #4 15'	971	1,690	0.439	0.876	1.61	4.95
TT #5 10'	30.0	720	<0.050	0.137	< 0.050	1.39
TT #5 15'	109	2,200	<0.050	<0.050	< 0.050	0.936
TT #5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
TT #6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	< 0.300
TT #6 12'	<10.0	<10.0	<0.050	<0.050	< 0.050	< 0.300
TT #7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
TT #7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
TT #7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300

On December 9, 2009, SESI was onsite to obtain an 11 point composite on floor bottom. The sample was analyzed for Chlorides (EPA Method 4500-CI-B) sample was taken at a depth of 8 ft. bgs.

The results of the analysis are as follows:

Sample ID	Cl (mg/kg)	
Bottom 8' Composite		<16

On December 18, 2009, SESI was onsite with Gene Hudson, XTO representative, Dave Boyer, Hydro-geologist, and Diamondback Disposal. There were three areas with standing water (labeled N, E, S see figure 2).

The north area puddle (N) between TT#2 and TT#6 is located slightly away from the north end of the excavation and shows no sign of another source of water other than runoff from the excavation sides. Slightly elevated bottom areas were observed adjacent to the puddle.

The south area puddle (S) is located against the south edge of the excavation with ice covering a portion. It is close to TT#7. Erosion channels in the bottom of the excavation can be seen leading to the puddle and indicate it receives snowmelt and runoff from the higher portion of the excavation. No other source of water was observed.

The northeast area puddle (E) was excavated to a depth of 3 ½ ft bgs to determine if shallow groundwater was present as a source of the puddle. The excavations were dry and left open for several hours to see if water would seep into the trench. At the end of this time, it remained dry with no sidewall or bottom seepage and was backfilled.

On January 11, 2010, Dave Boyer, Hydro-geologist with SESI was onsite. Mr. Boyer observed that the puddles had decreased in size (as evidenced by higher elevation "bathtub rings) and stated that the remaining fluid in these areas is no more than precipitation/runoff water ponded by the clayey sediments at the bottom of the excavation. These will evaporate with decreasing precipitation and warmer weather.

Test trench #4 was re-excavated December 18 to determine to depth of hydrocarbon impacts, especially BTEX. The trench was excavated by a trackhoe to a depth of 22 ft. bgs. Samples were retrieved at 2 ft. bgs intervals and were properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), Total Petroleum Hydrocarbons (EPA method 8015 M), and a Chloride (EPA Method 4500-CI-B) sample was taken at a depth of 22 ft. bgs.

The results of the analysis are as follows:

Sample ID	CI (mg/kg)	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT #4 16'	_	<10.0	76.4	<0.050	0.127	0.058	0.556
TT #4 18'	-	398	1,730	<0.050	0.559	0.535	3.77

TT #4 20'	-	282	1,520	<0.050	0.573	0.435	3.17
TT #4 22'	<16	563	2,190	<0.050	0.433	0.433	3.74

On May 7, 2010, at 9 AM David Boyer with Safety and Environmental Solutions, Inc. (SESI) was onsite with Geoffrey Leking, New Mexico Oil Conservation Division (NMOCD), David Paschal, XTO Energy, Inc., and Clay Tom Cooper, land owner, to install three (3) test trenches in the north and southeast corners of the excavated area.

Test trench #1 was installed in the southeast corner to five (5) feet inside excavated area, two (2) samples were retrieved from soil pile and one (1) sample was retrieved from a clod of soil from excavation. Test trench #2 was installed in the northeast corner at four feet eight inches (4'8") inside excavated area; one (1) sample was retrieved from soil pile. Test trench #3 was installed sixty-five (65) feet west of test trench #2 to a depth of four feet eight inches (4'8") inside excavated area; one (1) sample was retrieved from soil pile.

The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), Total Petroleum Hydrocarbons (EPA method 8015 M), and Chloride (EPA Method 4500-Cl-B).

The results of the analysis are as follows:

Sample ID	CI ⁻ (mg/kg)	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT #1 Soil Pile	_						
Bottom	16	<10.0	173	<0.050	<0.050	<0.050	<0.300
TT #1 Soil							
Clod	32	67.2	1,100	<0.050	0.559	0.075	0.460
TT #1 Soil Pile							
Bottom	32	<10.0	254	<0.050	<0.050	0.166	1.20
TT #2 Soil Pile						-	
Bottom	<16	87.5	1,560	<0.050	<0.050	0.119	0.706
TT #3 Soil Pile							
Bottom	<16	64.3	463	<0.050	<0.050	<0.050	<0.300

Each of the three (3) test trenches were left opened until 3 pm when Bob Allen and David Boyer with Safety and Environmental Solutions, Inc., Rick Wilson with XTO Energy, Inc., Clay Tom Cooper, Land owner, and Geoffrey Leking, NMOCD to verify no standing water in the test trenches.

On June 25, 2010, SESI was onsite with Eco/Enviro Drilling to install a monitor well on the south side of the location area. The first foot of the area has been excavated and from 1' to 8' is backfill soil from inside excavated area to build a ramp to set drilling rig.

Geoffrey Leking, NMOCD, Clay Cooper, landowner, and David Paschal, XTO, were onsite to witness drilling. Mr. Cooper and Mr. Paschal were in and offsite throughout the day.

The borehole was drilled to a depth of seventy-six (76) feet bgs; water was not encountered at that depth. Mr. Leking requested to leave the well open over the weekend to determine if any water comes in. The monitor well was left open with tape around auger and sample labels to show if any signs of tampering. On Monday, no water had come into the borehole. The monitor well was plugged with thirty-eight (38) bags of bentonite and hydrated. (See Appendix B Site Photographs)

On August 18, 2010, SESI was onsite with Eco Enviro Drilling to delineate the affected area. A total of three (3) boreholes were installed from depths of 38' to 43' below ground surface (bgs). Samples were collected in intervals of 5'. The samples were properly preserved and transported under chain of custody to Cardinal Labs of Hobbs, New Mexico.

The samples were analyzed for Total Petroleum Hydrocarbons (EPA Method 8015M) and BTEX (EPA Method SW-846-8021B) and Chloride (EPA Method 4500-Cl⁻B).

The results of the analysis are as follows:

Sample ID	CI (mg/kg)	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
BH #1 18'	48.0	642	2260	1.41	8.66	3.87	16.0
BH #1 23'	-	1500	4500	1.09	10.8	5.01	21.5
BH #1 28'	_	1810	5020	1.09	17.7	7.92	34.5
BH #1 33'	-	1880	5030	0.396	8.04	2.41	17.9
BH #1 38'	_	<10.0	42.3	<0.050	<0.050	<0.050	<0.150
BH #1 43'	368	<10.0	17.5	<0.050	0.143	<0.050	0.347
BH #2 13'	-	14.3	414	<0.050	0.314	0.107	0.754
BH #2 18'	-	32.9	490	<0.050	0.204	0.081	0.613
BH #2 23'	_	110	921	<0.050	0.706	0.277	1.77
BH #2 28'	-	71.4	403	<0.050	1.66	0.592	3.63
BH #2 33'	-	<10.0	52.6	<0.050	0.319	0.125	0.853
BH #2 38'	_	<10.0	<10.0	<0.050	0.085	<0.050	0.229
BH #2 43'	<16.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
BH #3 13'	-	<10.0	62.7	<0.050	0.158	<0.050	0.557
BH #3 18'	_	23.2	443	<0.050	0.477	0.254	1.21
BH #3 23'	-	79.3	958	<0.050	0.403	0.206	1.34
BH #3 28'	-	<10.0	111	<0.050	<0.050	0.195	1.57
BH #3 33'	-	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
BH #3 38'	<16.0	<10.0	<10.0	<0.050	0.066	<0.050	0.258

After samples are retrieved the soil borings were backfilled from total depth to surface with bentonite and hydrated.

V. Closure Plan

The site has been excavated to a depth ranging from 8 to 10 feet below the original ground surface. The source material (most highly contaminated) has been removed and disposed of at South Monument Surface Waste Facility L.L.C., an approved New Mexico

Oil Conservation Division (NMOCD) facility which is within a quarter mile of this site. The vertical extent of TPH contamination has been determined in all areas of the pit and only three (3) samples taken from BH #1 at the depths of 23' to 33' bgs exceed the guideline target of 5,000 ppm.

XTO proposes that the bottom of the excavation be ripped to a depth of two to three feet to allow the site to aerate. After aeration, the bottom of the excavation will be sampled to document any contaminants being left in place, at which point the sides of the excavation will be pushed in toward the middle and contoured. In addition, the highly contaminated sides in the SE and NW parts of the existing excavation will be removed and sent to Monument Surface Waste Facility LLC for disposal.

VI. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Appendix A – Analytical Results
Appendix B – Site Photos
Appendix C – C-141

Figure 1 Vicinity Map

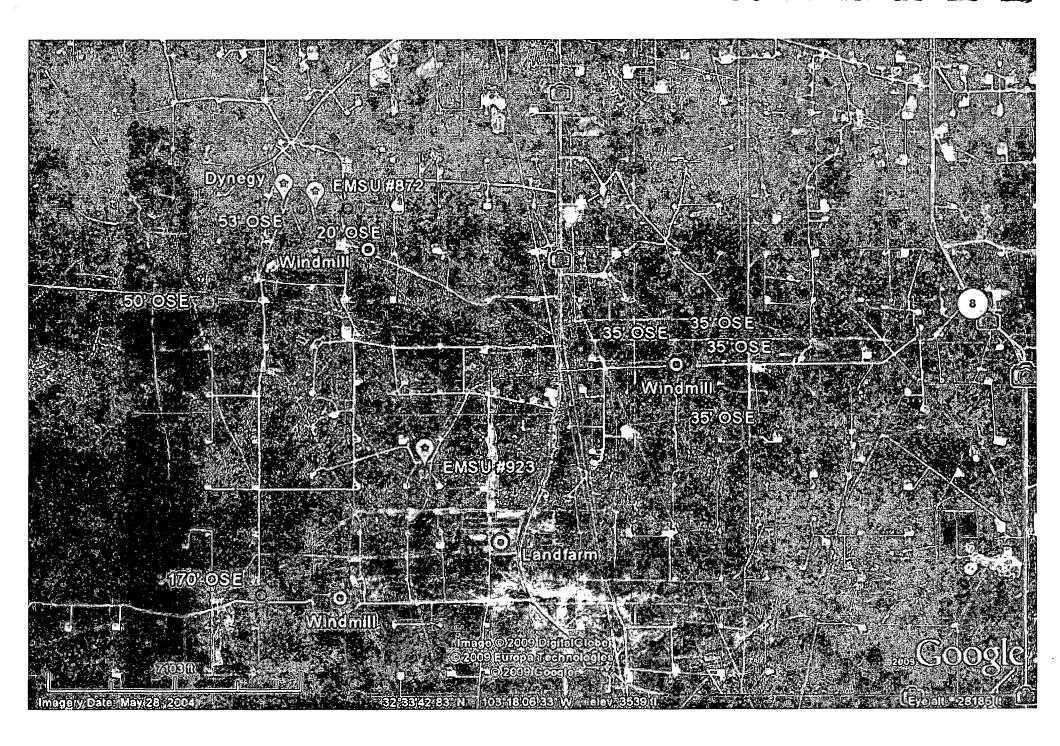
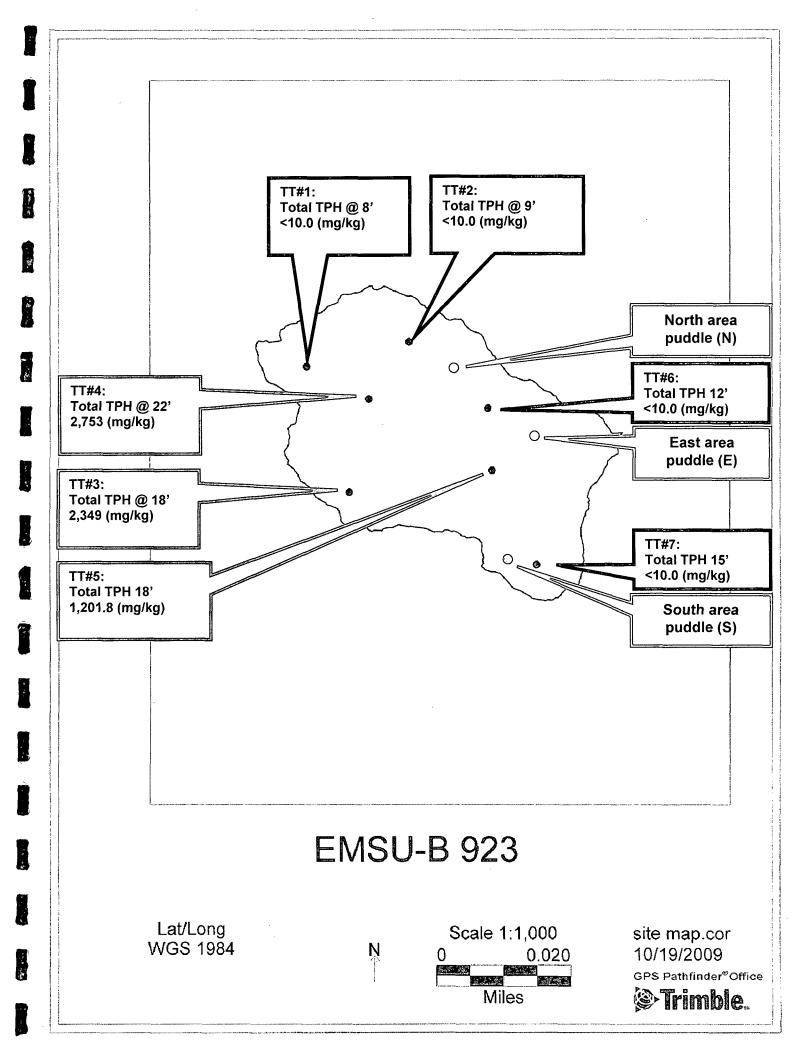
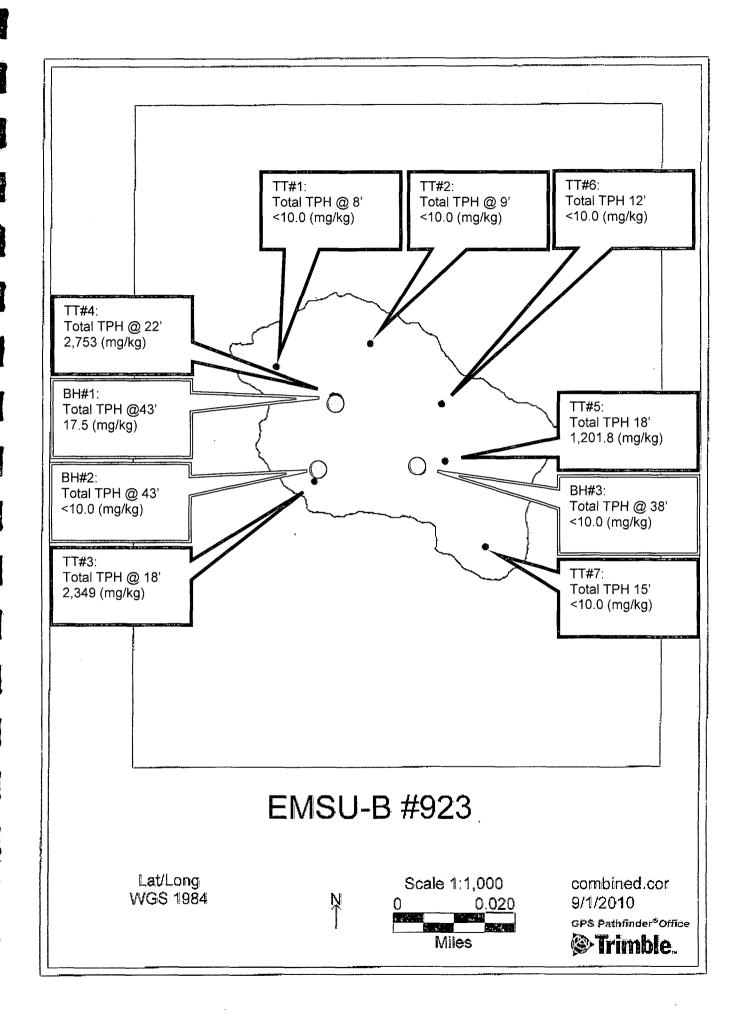
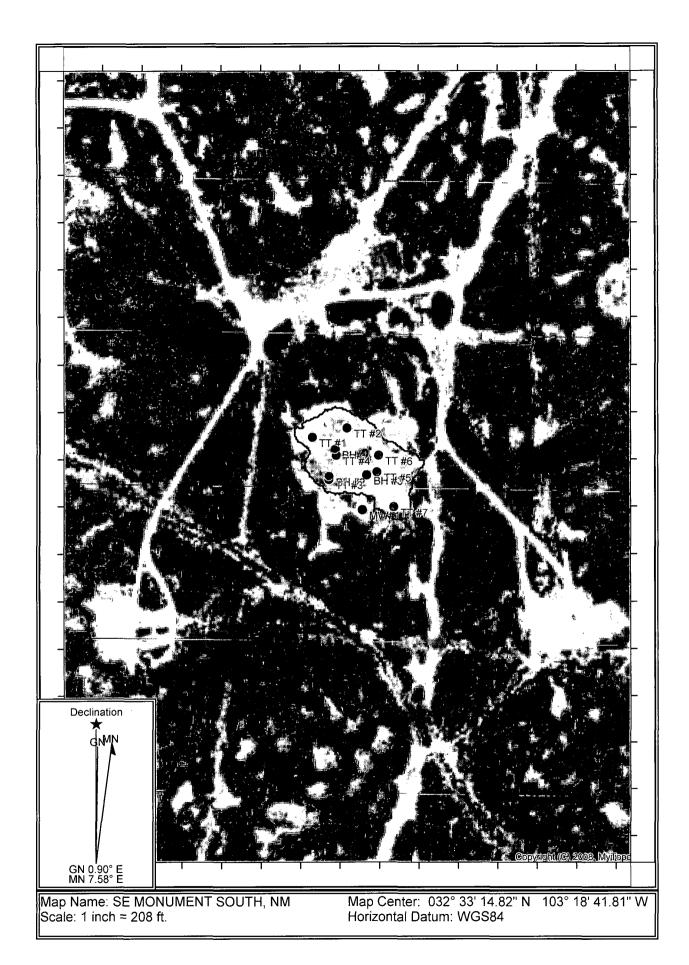


Figure 2 Site Plan







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Appendix A Analytical Results



October 13, 2009

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #102 Hobbs, NM 88240

Re: XTO Energy (XTO-09-004)

Enclosed are the results of analyses for sample number H18446, received by the laboratory on 10/08/09 at 3:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene

Laboratory Director



ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 10/08/09 Reporting Date: 10/13/09

Project Owner: XTO ENERGY (XTO-09-004)

Project Name: EMSU - B 923

Project Location: MONUMENT, NM

Sampling Date: 10/08/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4.5°C

Sample Received By: CK

Analyzed By: AB/ZL

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C_6-C_{10})	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

	. 0 0,		, ,			
ANALYSIS DATE:	10/13/09	10/13/09	10/12/09	10/12/09	10/12/09	10/12/09
H18446-1 TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-2 TT#2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-3 TT#3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
H18446-4 TT#3 14'	11.6	545	0.060	0.145	0.283	0.946
H18446-5 TT#3 18'	459	1,890	<0.050	0.249	<0.050	2.94
H18446-6 TT#4 11'	1,120	2,620	0.763	0.878	1.94	6.21
H18446-7 TT#4 15'	971	1,690	0.439	0.876	1.61	4.95
H18446-8 TT#5 10'	30.0	720	<0.050	0.137	<0.050	1.39
H18446-9 TT#5 15'	109	2,200	<0.050	<0.050	<0.050	0.936
H18446-10 TT#5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
H18446-11 TT#6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-12 TT#6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-13 TT#7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
H18446-14 TT#7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
H18446-15 TT#7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
Quality Control	440	512	0.049	0.047	0.048	0.141
True Value QC	500	500	0.050	0.050	0.050	0.150
% Recovery	88.0	102	98.0	94.0	96.0	94.0
Relative Percent Difference	2.9	0.6	13.3	13.5	7.7	14.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO.

Lab Director/

10/13/09 Date

H18446 TPHBTEX SESI

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(575) 393-2326 Fax (575) 393-2476		1 490
Company Name: SESE	BILL TO	ANALYSIS REQUEST
Project Manager: Bob Alleg	P.O. #:	
Address: 703 E Clinton	Company:	
City: 140665 State: 11 Zip: 88240	Attn:	
Phone #: 575-398-0510 Fax #:	Address: Sime	
Project #: X70-05-004 Project Owner: X70	City:	
Project Name: X70 EmSU-B1523	State: Zip:	
Project Name: X70 EMSU-B, 523 Project Location: Monument, na	Phone #:	
Sampler Name: Zsage Kincaid	Fax #:	1 7
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in confra-		
analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing a service. In no event shall Cardmal be liable for incidental or consequental damages, including without limitation, business interruptions		
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim Sampler Relinguished: Date: //Received By:	m is based upon any of the above stated reasons or otherw Phone Ri	
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	No (KIN)	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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Page 201 2

Company Name: SESE	BILL TO	ANALYSIS REQUEST
Project Manager: Bob Allca	P.O. #:	
Project Manager: Bob Allen Address: 70 3 E Clinfon	Company:	
City: 4065 State: NM Zip: 88240	Attn:	
Phone #: 575-357-051 @ Fax #:	Address: Same	
Project #: X70-05-004 Project Owner: X70	City:	
Project #: X70-05-004 Project Owner: X70 Project Name: EMSU - 923 Project Location: MONUMENT NM	State: Zip:	
Project Location: MONUMAR, MM	Phone #:	
Sampler Name: ISAAC Incaid	Fax #:	$\mathcal{I}_{I}}}}}}}}}}$
FOR CHRUSE ONLY Lab D Sample D Lab D Sample D	PRESERV SAMPLING OTHER: OTHER: OTHER: OTHER: OFFICIAL OFFICI	44 20. 44 80.
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Delivered By: (Circle One) Temp. Sample Cond	dition CHECKED BY:	
Sampler - UPS - Bus - Other:	t (Inigals) Yes (W)	



December 14, 2009

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #102 Hobbs, NM 88240

Re: EMSU # 923 (XTO-09-004)

Enclosed are the results of analyses for sample number H18845, received by the laboratory on 12/09/09 at 4:15 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D/Keene

Laboratory Director



Project Name: EMSU #923

ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 12/09/09

Reporting Date: 12/10/09

Sampling Date: 12/10/09

Sampling Date: 12/09/09

Sampling Date: 12/09/09

Project Number: XTO-09-004 Sample Type: SOIL

Project Location: MONUMENT, NM Sample Received By: ML

Analyzed By: HM

Sample Condition: INTACT @ 22.5°C

		CI
LAB NO.	SAMPLE ID	(ppm)
H18845-1	BOTTOM 8' COMPOSITE	< 16
Quality Conti	rol	500
True Value C	<u> </u>	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist

12/14/09
Date



(575) 393-2326 Fav (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		Page of
	BILL TO	ANALYSIS REQUEST
Company Name: SESE Project Manager: 186 Allen	P.O. #:	
Address: 703 F /inten	Company:	
City: 140665 State: 1M Zip: 88240	Attn:	
Phone #: 575 - 367 - 0510 Fax #:	Address:	
Project #: y70-09-004 Project Owner:	City:	
Project #: y70-09-004 Project Owner: Project Name: En Su 4923	State: Zip:	
Project Location: Monument nu	Phone #:	
Sampler Name: TSacc Kincad	Fax #:	
HISSAP OR CONTAINERS SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOI	PRESERV SAMPLING COLUMN COLU	Manual Control of the
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contra analyses. All claims including those for negligence and any other cause whatsoever shall be deemed worked unless made in writing a service. In no everil shall Cardinal be liable for incidantal or consequental damages, including without limitation, business interruption affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim Sampler Relinquished By: Time: Received By:	and received by Cardinal within 30 days after completion of ns, loss of use, or loss of profits incurred by client, its subsidi-	the applicable
Delivered By: (Circle One) Sample Cond Cool Intact Yes Y Yes Y Yes	t ! (Initials# /)	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



December 22, 2009

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #102 Hobbs, NM 88240

Re: EMSU # 923 (XTO-09-004)

Enclosed are the results of analyses for sample number H18912, received by the laboratory on 12/18/09 at 2:30 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely,

Celey D. Reene Laboratory Director



ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 12/18/09

Reporting Date: 12/22/09

Project Owner: XTO ENERGY (XTO-09-004)

Project Name: EMSU # 923

Project Location: MONUMENT, NM

Sampling Date: 12/18/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: NF

Analyzed By: AB/CK

GRO

DRO

 (C_6-C_{10})

 $(>C_{10}-C_{28})$

LAB NUMBER SAMPLE ID

(mg/kg)

(mg/kg)

ANALYSIS DATE:	12/20/09	12/20/09
H18912-1 TT #4 16' BGS	<10.0	76.4
H18912-2 TT #4 18' BGS	398	1,730
H18912-3 TT #4 20' BGS	282	1,520
H18912-4 TT #4 22' BGS	563	2,190
Quality Control	551	567
True Value QC	500	500
% Recovery	110	113
Relative Percent Difference	<0.1	2.8

METHOD: SW-846 8015 M. Reported on wet weight. Not accredited

through NELAP for GRO/DRO.

Lab Director

Date

12/22/09

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Leboratories.



ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 12/18/09

Reporting Date: 12/22/09

Project Owner: XTO ENERGY (XTO-09-004)

Project Name: EMSU #923

Project Location: MONUMENT, NM

Sampling Date: 12/18/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: NF

Analyzed By: ZL

LAB NO. SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:	12/21/09	12/21/09	12/21/09	12/21/09
H18912-1 TT#4 16'BGL	<0.050	0.127	0.058	0.556
H18912-2 TT#4 18'BGL	<0.050	0.559	0.535	3.77
H18912-3 TT#4 20'BGL	<0.050	0.573	0.435	3.17
H18912-4 TT#4 22'BGL	<0.050	0.433	0.433	3.74
Quality Control	0.051	0.049	0.048	0.146
True Value QC	0.050	0.050	0.050	0.150
% Recovery	102	98.0	96.0	97.3
Relative Percent Difference	3.9	2.0	4.2	3.6

METHODS: BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

Lab Director

Date

nhelog



ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 12/18/09 Reporting Date: 12/21/09

Project Number: XTO-09-004 (XTO)

Project Name: EMSU #923

Project Location: MONUMENT, NM

Analysis Date: 12/21/09

Sampling Date: 12/18/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

12/22/09

CI

Sample Received By: NF

Analyzed By: HM

	OI OI
LAB NO. SAMPLE ID	(mg/kg)
H18912-4 TT #4 22' BGS	< 16
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B

Note: Analysis performed on a 1:4 w:v aqueous extract.

Not accredited for Chloride.

Chemist

Date



101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		Page of
Company Name: SEST	BILL TO	ANALYSIS REQUEST
Project Manager: Bob Allen	P.O. #:	
Address: 763 E Climon	Company:	
City: 14065 State: 11 Zip: 48240	Attn:	
Phone #: 575 - 397-0510 Fax #:	Address:	772/72
Project #: X70-09-004 Project Owner: X70	City:	
Project Name: EMSU = 923 Project Location: MUNUMENT, pM	State: Zip:	1, 1 2
Project Location: munumeral, pm	Phone #:	
Sampler Name: I Suac Kincaid	Fax #:	
Tab I.D. Sample I.D. Sample I.D. MATRIX MASTEWATER MASTEWA	PRESERV SAMPLING STUDGE OTHERS OTHER OFFOR OFF	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in con analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unjess made in writing and no event shall Cardinal be liable for incidental or consequental damages, including without limitation; business interrupic afficiales or successors arising out of or related to use of formance of services hereunder by Cardinal, regardless of whether supfit Sampler Relinquished. Received By: Time: Date: Received By:	g and received by Cardinal within 30 days after completion of one, loss of use, or loss of profits incurred by client, its subsidialim is based upon any of the above stated reasons or other. Phone R Fax Res REMARI	the applicable
Time: Delivered By: (Circle One) Sample Corcle Inta Sampler - UPS - Bus - Other: Temp. Sample Corcle Inta Cool Inta Delivered By: (Circle One)	ct (initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

therm #26



May 11, 2010

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #103 Hobbs, NM 88240

Re: EMSU B #923 (XTO-09-004)

Enclosed are the results of analyses for sample number H19857, received by the laboratory on 05/07/10 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

(mg/kg)

Receiving Date: 05/07/10 Reporting Date: 05/11/10

Project Owner: XTO (XTO-09-004) Project Name: EMSU B #923 Project Location: MONUMENT, NM Sampling Date: 05/07/10 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: JH Analyzed By: AB/ZL/HM

(mg/kg)

DRO **GRO**

(mg/kg)

ETHYL TOTAL

(mg/kg)

LAB NO. SAMPLE ID (C_6-C_{10})

(>C₁₀-C₂₈) BENZENE TOLUENE BENZENE XYLENES

(mg/kg)

(mg/kg)

CI* (mg/kg)

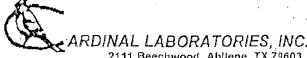
40.							
ANALYSIS DATE:	05/10/10	05/10/10	05/10/10	05/10/10	05/10/10	05/10/10	05/10/10
H19857-1 TT-1, SOIL PILE BOTTOM	<10.0	173	<0.050	<0.050	<0.050	<0.300	16
H19857-2 TT-1, SOIL CLOD	67.2	1,100	<0.050	<0.050	0.075	0.460	32
H19857-3 TT-2, SOIL PILE BOTTOM	87.5	1,560	<0.050	<0.050	0.119	0.706	< 16
H19857-4 TT-3, SOIL PILE BOTTOM	64.3	463	<0.050	<0.050	0.166	1.20	< 16
H19857-5 TT-1, SOIL PILE BOTTOM	<10.0	254	<0.050	<0.050	<0.050	<0.300	32
	Į						
							_
	ļ						
Quality Control	491	476	0.020	0.023	0.022	0.064	500
True Value QC	500	500	0.020	0.020	0.020	0.060	500
% Recovery	98.2	95.2	100	115	110	107	100
Relative Percent Difference	1.7	1.8	7.0	2.0	2.0	3.1	<0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.

H19857 TBCL SESI



† Cardinal cannot accept verbal changes. Pleast Introduction changes to 915-973-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (505) 393-2476 Company Name: SEST ANALYSIS REQUEST Project Manager: 12 Address: 703 E. CLINTON, #103 City: HOBBS State: NM Zlp: 88240 Address: Phone #: (505) 397-0510 Clly: - 1948 Project Owner: ZIp: Project Name: Phone #: Fax#: Project Location: FOR LAB USE ONLY MATRIX PRES. SAMPLINO 2010 Sample I.D. LAB I.D. TIME PLEASE HOTE: Liability and Demogras, Cardinate fability and of eri's exclusive ramed; for any claim erising whicher be red in operand or tool, and be infilled to the amount paid by the otark for the Terms and Conditions; interest will be charged on at accounts more than analyses. At claims including those for negligence and any other cause whatever shall be deemed waived unless made in willing and received by Cartinal willing that completion of the applicable 30 days past due at the rate of 24% per arriven from the original rate of involve, and all costs of collections, including attorney's fees. sandes. In no every that Cardinal be table for incidental or consequents damages, inclking without Institution, business interruptions, loss of use, or loss of profits incurred by clark, its subsidiaries, affiliates or successors arising out of or related to the performance of auntices hereunder by Cardinal, recording of whether such claim to be sedupon any of the above stated reasons or otherefee. No Additional Fax #: Phone Result 🗀 Yes Sampler Relinguished: Received By: □ Yes Fax Result: Relinquished By: Received By: [Lab Staff Delivered By: (Circle One) Sampler - UPS - Bus - Other:



August 25, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: XTO-09-004

Enclosed are the results of analyses for samples received by the laboratory on 08/18/10 16:12.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Kune



Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported: Project Name: 08/25/2010

Project Number:

XTO-09-004 EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #1 18' (H020668-01)

Di	904	CTD
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mg/l	(
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Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.41	0.100	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	8.66	0.100	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	3.87	0.100	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	16.0	0.300	08/19/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 80-120	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/19/2010	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: AB					S-06, QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	642	50.0	08/19/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	2260	50.0	08/19/2010	ND	166	83.2	200	1.59	
Surrogate: 1-Chlorooctane									

Surrogate: 1-Chlorooctadecane

20.2 %

70-130

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported:

08/25/2010

Project Name:

XTO-09-004

Project Number:

EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: BH #1 23' (H020668-02)

BTEX	8021B
	OULID

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.09	0.100	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	10.8	0.100	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	5.01	0.100	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	21.5	0.300	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

106 %

80-120

TPH 8015M	mg	/kg	Analyze	d By: AB			<u></u>		S-06, QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1500	50.0	08/19/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	4500	50.0	08/19/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

24.6 %

70-130

Surrogate: 1-Chlorooctadecane

18.5 %

70-130

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other cause whatsever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Safety & Environmental Solutions

(575) 393-4388

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

08/18/2010

Received: Reported: 08/18/2010

08/25/2010

Sampling Date: Sampling Type:

Soil

Project Name:

XTO-09-004

Sampling Condition:

Cool & Intact

EMSU-B 923

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM

Sample ID: BH #1 28' (H020668-03)

BTEX 8	B021B
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ma	,	r

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.09	0.100	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	17.7	0.100	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	7.92	0.100	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	34.5	0.300	08/19/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 80-120)						
American Control									

TPH 8015M	mg,	/kg	Analyze	d By: AB					S-06, QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1810	50.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	5020	50.0	08/20/2010	ND	166	83.2	200	1.59	
·									

Surrogate: 1-Chlorooctane	25.1 %	70-130
Surrogate: 1-Chlorooctadecane	20.1 %	70-130

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other Cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported: Project Name: 08/25/2010 XTO-09-004

Project Number:

EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #1 33' (H020668-04)

BTEX 8021B	mg/l	«g	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.396	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	8.04	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	2.41	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	17.9	0.150	08/19/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 80-120)						
ТРН 8015М	mg/l	c g	Analyze	ed By: AB					S-06, QM-07

	TPH 8015M	mg/kg	Analyzed By: AB			S-06, QM-07
GPO C6-C10 1880 50.0 08/20/2010 ND 161 80.7 200 0.710	Analyte	Result Reporting Limit	Analyzed Method Blan	nk BS % Recovery	True Value QC RPI	D Qualifier
GRO CO-CIO 1000 30.0 00/20/2010 NO 101 00.7 200 0.710	GRO C6-C10	1880 50.0	08/20/2010 ND	161 80.7	200 0.7	10
DRO >C10-C28 5030 50.0 08/20/2010 ND 166 83.2 200 1.59	DRO >C10-C28	5030 50.0	08/20/2010 ND	166 83.2	200 1.5	9

Surrogate: 1-Chlorooctane24.3 %70-130Surrogate: 1-Chlorooctadecane19.2 %70-130

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Celey D. Keine

*=Accredited Analyte



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 EMSU-B 923

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: BH #1 38' (H020668-05)

BTEX 80218	mg/kg		Analyzed By: ZL				<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2010	ND	1.04	104	1.00	4.38	
Toluene*	<0.050	0.050	08/20/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/20/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	<0.150	0.150	08/20/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 80-120							
TPH 8015M	mg/kg		Analyzed By: AB						QM-07

TPH 8015M mg/kg		Analyzed By: AB					QM-07		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	42.3	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane	93.5 %	70-130
Surrogate: 1-Chlorooctadecane	90.6 %	70-130

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Received:

08/18/2010

Reported:

08/25/2010

Project Name:

XTO-09-004

Project Number:

EMSU-B 923

Project Location:

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

MONUMENT, NM

Sample ID: BH #1 43' (H020668-06)

ma	1	k

Anal	vzed	Bv:	ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.143	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	0.347	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

113 %

80-120

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/19/2010	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: AB						QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	17.5	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

90.1%

70-130

Surrogate: 1-Chlorooctadecane

89.3 %

70-130

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Received:

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 **EMSU-B** 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH #2 13' (H020668-07)

BTEX 8021B

mg/kg

Analyzed By: ZL

									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.314	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.107	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	0.754	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

115%

80-120

TPH 8015M	mg	/kg	Analyzed By: AB					QM-07		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14.3	10.0	08/20/2010	ND	161	80.7	200	0.710		
DRO >C10-C28	414	10.0	08/20/2010	ND	166	83.2	200	1.59		

Surrogate: 1-Chlorooctane

93.1%

70-130

Surrogate: 1-Chlorooctadecane

106 %

70-130

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Kune



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

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Received:

Total Xylenes*

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 **EMSU-B 923**

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

3.11

104

Soil

3.00

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

2.51

Sample ID: BH #2 18' (H020668-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.204	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.081	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	

ND

08/19/2010

Surrogate: 4-Bromofluorobenzene (PIL

111%

0.613

80-120

0.150

TPH 8015M	mg	/kg	Analyzed By: AB				QM-07		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	32.9	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	490	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane 95.4% 70-130 Surrogate: 1-Chlorooctadecane 97.8 % 70-130

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Received:

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Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #2 23' (H020668-09)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.706	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.277	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	1.77	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

115 %

80-120

TPH 8015M	mg	/kg	Analyzed By: AB				QM-07		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	110	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	921	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

108 %

70-130

Surrogate: I-Chlorooctadecane

109 %

70-130

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Received:

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: BH #2 28' (H020668-10)

BTEX 8021B	mg/	/kg	Analyze	Analyzed By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	1.66	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.592	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	3.63	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL	116	% 80-120							
TPH 8015M	mg	/kg	Analyze	d By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	71.4	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	403	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane	94.9 %	70-130
Surrogate: 1-Chlorooctadecane	99.1 %	70-130

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Hobbs NM, 88240 Fax To:

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Received:

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 **EMSU-B** 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #2 33' (H020668-11)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.319	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.125	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	0.853	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorohenzene (PII

100 %

80-120

TPH 8015M	mg	mg/kg		Analyzed By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	52.6	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

91.4%

70-130

Surrogate: 1-Chlorooctadecane

87.6%

70-130

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Received:

08/18/2010

Reported:

08/25/2010

Project Name: Project Number: XTO-09-004 **EMSU-B 923**

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH #2 38' (H020668-12)

BTEX 8021B	mg/k	kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.085	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	0.229	0.150	08/19/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	80-120)						
TPH 8015M	mg/k	cg	Analyze	d By: AB					QM-07

TPH 8015M	mg	/kg	Analyze	d By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	<10.0	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: I-Chlorooctane	96.2 %	70-130
Surrogate: 1-Chlorooctadecane	90.9 %	70-130

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Received:

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Reported:

08/25/2010

Project Name:

XTO-09-004 EMSU-B 923

Project Number: Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #2 43' (H020668-13)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	<0.050	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	<0.150	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

110 %

80-120

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/19/2010	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyzed By: AB						QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	<10.0	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

92.7 %

70-130

Surrogate: 1-Chlorooctadecane

88.1 %

70-130

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Hobbs NM, 88240

Fax To:

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Received:

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Reported:

08/25/2010

Project Name:

XTO-09-004 **EMSU-B 923**

Project Number:

Sampling Date:

Sampling Type:

08/18/2010

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: BH #3 13' (H020668-14)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.158	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/19/2010	ND	0.965	96.5	1,00	2.46	
Total Xylenes*	0.557	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

118%

80-120

TPH 8015M	mg	/kg	Analyze	d By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	62.7	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

91.4%

70-130

Surrogate: 1-Chlorooctadecane

91.1 %

70-130

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 08/18/2010 08/25/2010

Project Name: Project Number: XTO-09-004 **EMSU-B 923**

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH #3 18' (H020668-15)

BTEX	8021B	

mg/l	Κį
------	----

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.477	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.254	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	1.21	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

112%

80-120

TPH 8015M	mg	mg/kg		Analyzed By: AB					QM-07	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	23.2	10.0	08/20/2010	ND	161	80.7	200	0.710		
DRO >C10-C28	443	10.0	08/20/2010	ND	166	83.2	200	1.59		

Surrogate: 1-Chlorooctane 95.4% 70-130 Surrogate: 1-Chlorooctadecane 99.4 % 70-130

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported: Project Name: 08/25/2010 XTO-09-004

Project Number:

EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #3 23' (H020668-16)

BTE	8021	.В

ma/ka

Analyzed By: ZL

51277 000000		3							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.403	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.206	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	1.34	0.150	08/19/2010	ND	3.11	104	3.00	2.51	
rotal Aylenes	1,34	0.130	00/13/2010	NO	5.11	101	5.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

90.9 %

80-120

TPH 8015M	mg/kg		Analyzed By: AB						QM-07	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	79.3	10.0	08/20/2010	ND	161	80.7	200	0.710		
DRO >C10-C28	958	10.0	08/20/2010	ND	166	83.2	200	1.59		

Surrogate: 1-Chlorooctane

101 %

70-130

Surrogate: 1-Chlorooctadecane

107 %

70-130

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported:

08/25/2010 XTO-09-004

Project Name: Project Number:

EMSU-B 923

Project Location:

MONUMENT, NM

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #3 28' (H020668-17)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/19/2010	ND	1.04	104	1.00	4.38	
Toluene*	<0.050	0.050	08/19/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	0.195	0.050	08/19/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	1.57	0.150	08/19/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

112 %

80-120

TPH 8015M	mg	/kg	Analyzed By: AB					QM-07	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	111	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

84.4 %

70-130

Surrogate: 1-Chlorooctadecane

88.3 %

70-130

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Safety & Environmental Solutions

Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported: Project Name: 08/25/2010 XTO-09-004

Project Number:

mber: EM

Project Location:

EMSU-B 923

MONUMENT, NM

Compling

Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #3 33' (H020668-18)

BTEX 8021B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2010	ND	1.04	104	1.00	4.38	
Toluene*	<0.050	0.050	08/20/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/20/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	<0.150	0.150	08/20/2010	ND	3.11	104	3.00	2.51	
Surrogate: 4-Bromofluorobenzene (PIL	91.2	% 80-120							
TPH 8015M	mg,	/kg	Analyze	d By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	<10.0	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane	89.3 %	70-130
Surrogate: 1-Chlorooctadecane	85.1 %	70-130

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

08/18/2010

Reported: Project Name:

08/25/2010 XTO-09-004

Project Number:

Project Location:

EMSU-B 923 MONUMENT, NM Sampling Date:

08/18/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH #3 38' (H020668-19)

BTEX 8021B

mg/kg

Analyzed By: ZL

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2010	ND	1.04	104	1.00	4.38	
Toluene*	0.066	0.050	08/20/2010	ND	0.979	97.9	1.00	4.38	
Ethylbenzene*	<0.050	0.050	08/20/2010	ND	0.965	96.5	1.00	2.46	
Total Xylenes*	0.258	0.150	08/20/2010	ND	3.11	104	3.00	2.51	

Surrogate: 4-Bromofluorobenzene (PIL

98.4%

80-120

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/19/2010	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: AB					QM-07
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2010	ND	161	80.7	200	0.710	
DRO >C10-C28	<10.0	10.0	08/20/2010	ND	166	83.2	200	1.59	

Surrogate: 1-Chlorooctane

90.2 %

70-130

Surrogate: 1-Chlorooctadecane

87.3 %

70-130

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Celev D. +



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

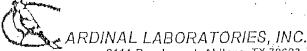
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240

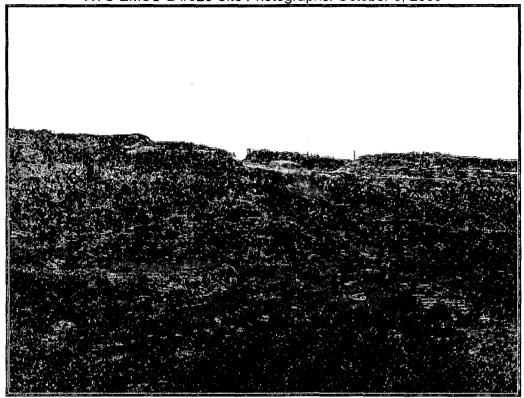
(915) 673-7001 Fax (915) 673-7020 (505)	393-2326 Fax (505) 393-2476	Page \ of \			
Company Name: SEST		ANALYSIS REQUEST			
Project Manager:	//////////////////////////////////////				
Address: 703 E. CLINION, #103	Company: SAME				
City: HOBBS State: NM ZIp: 88240	Altn:				
Phone #: (505) 397-0510	Address:				
Fax#: (505) 393-4388	c)ty:				
Project #X TO -D9-00-Project Owner: X TO	State: ZIp:				
Project Name: EMSU-B9Z3	Phone #:				
Project Location: Mowaniant, av.	Fax #:				
FOR LAB USE ONLY AMATRIX Sample 1 D Sample 1 D	PRES. SAMPLING	515 FH 8015			
GONTAB O CONTENT OUR SOIL OUR STEEM	H G V P DATE TIME				
H2D1668-1 13H#1.181 GIL X	× 5/18/100804				
2 3H#1. 23' //////	1 / 0816				
3 BH#1.28'	0835				
4 RH*1. 33'	0844				
5 RH#1.38'	0935				
6 3H#1. 43'	0950	 			
1 BH+2.13'	111 029	 			
8 BH#2. 18'	1053				
	104				
EASE HOTE: Untilty and Demages. Cardinals stability and clarify exclusive termed, for any claim additing whether has an interest. In order to the stability and clarify exclusive termed, for any claim additing whether has an interest. In one several that Cardinal has falls for incidental or consequent damages, including without intillien, business matters of successors eating out of or related to the performance of senders hereunder by Cardinal, reporters of what intillien. Business in the cardinal interest of the control of the performance of senders hereunder by Cardinal, reporters of what intillies. Date: Date: Received By: Time:	In Ailling and received by Certifinia 1988 in 30 days that on the indiantalisms, less of use, or load of 1988 in 1988 in 1989 of the store state drains in such dainful based upon any of the above state drains. Phone Re Fax Resu	mptation of the appetents 30 days past die at the fate of 24% per accum from the original tasts of through, it is utalidated, and all costs of colections, including alternacy's fees, one or otherwise. Static			
Time: Colinquished By: Colin	(Lab Stall)	S:			
The large of	Doubon				
Delivered By: (Circle One) (Sample Condi					
Sampler - UPS - Bus - Other: 0.5 Cool Intact	0 1 4 1				
† Cardinal cannot accept verbal changes. Please fax written that	ges to 915-873-7020.	Page 22 c			



† Cardinal cannot accept verbal changes. Please fax written changes

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240 Page 2 of 2 (505) 393-2326 Fax (505) 393-2476 (915) 073-7001 Fax (915) 673-7020 Company Name: SEST ANALYSIS REQUEST BILL 70 PO#: Project Manager: Company: SAME Address: 703 E. CLIMION, #103 State: NM Zlp: 88240 Altn: City: HOBBS Address: Phone #: (505) 397-0510 city: Fax #: (505) 393-4388 Project #: XTO -09-004 Project Owner: XTO State: Zlp: Project Name: EWSU-B923 Phone #: Fax#: Project Location: Wow went, Ne SAMPLING MATRIX PRES. FOR LAB USE ONLY Q Sample I.D. LAB I.D. TIME H20668-11 1130 314 FI. EASK HOTE: Ushfily and Damegon, Cardner's tability and dier's exclusive temedy for any oldin erieting whether based in observed or took, shed be imited to the amount paid by the classic or the Terms and Conditions: Interest will be charged on at appounds more than analyses. At distinct Including those for need conce and any other cause whateover shat be deemed walved trules a made in willing and received by Carelinal willin 30 days a flat completion of the applicable 30 days past due at the rate of 24% per anoun from the original date of involve, ustries. In no overal shall Cardinal be falls for incidental or consequental demogres, inchiting without limitalion, business intermedians, for a of us s, or loss of profits incurred by clond, its subsidiaries, and all costs of colections, including attorney's fees. amilates or successors adding out of or related to the partiamance of services hereupdar by Cardnal, repartices of whether such claim to be sed upon any of the above stated reasons or otherates. Phone Result Cl Yes I No Additional Fax #: Fax Result: 12 Yes IJ No REMARKS: Delivered By: (Circle One) Sampler - UPS - Bus - Other: Page 23 of 23 Appendix B Site Photographs XTO EMSU-B #923 Site Photographs: October 8, 2009



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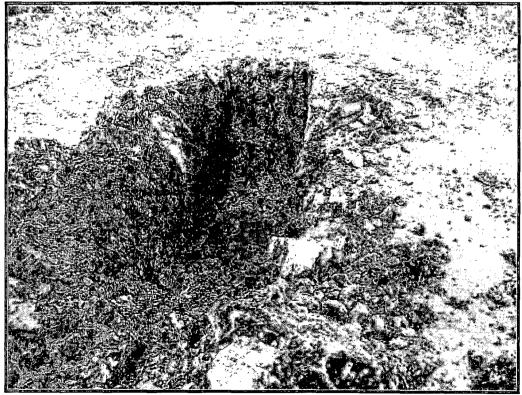
4.5.50

電池

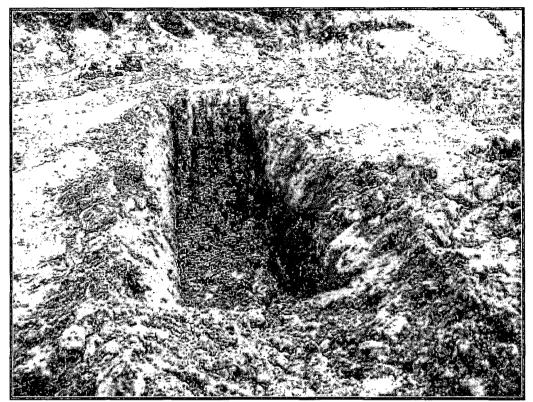
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Excavated area



Test trench #1 8'



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Test Trench #2 9



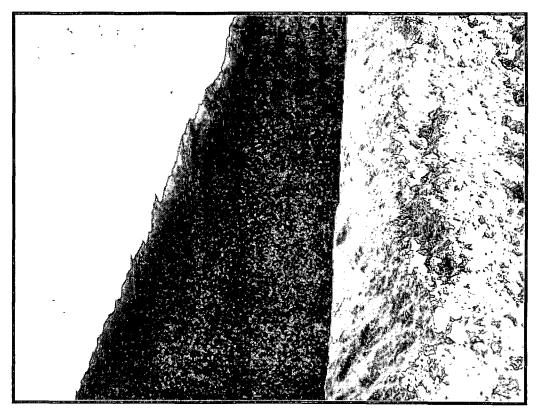
Test trench #3 10'



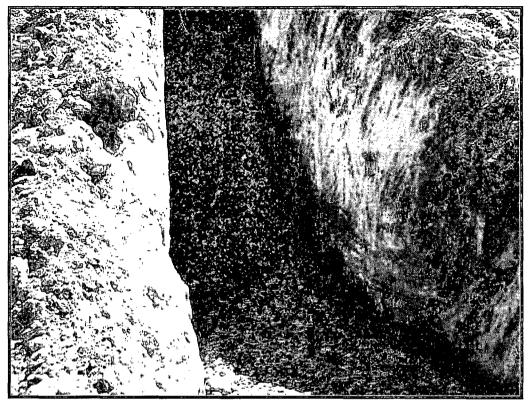
极兴趣

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Test Trench #4 11'



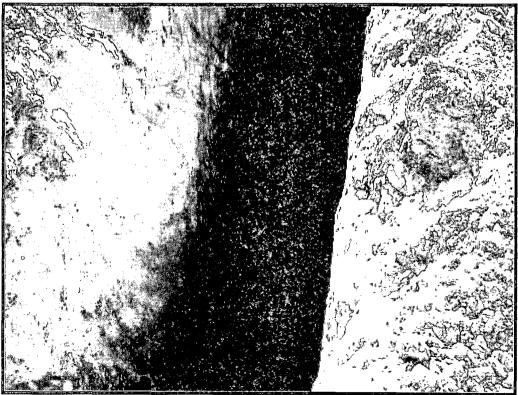
Test Trench #5 18'



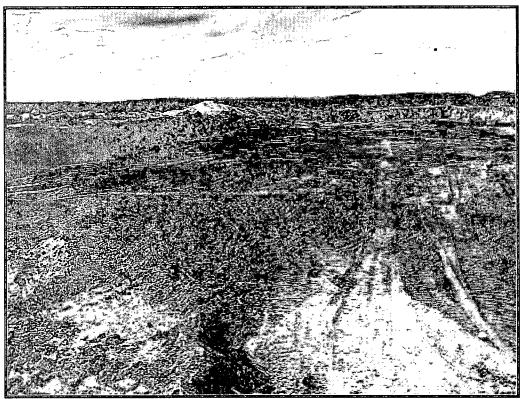
St. San St.

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Test Trench #6 12



Test Trench #7' 15



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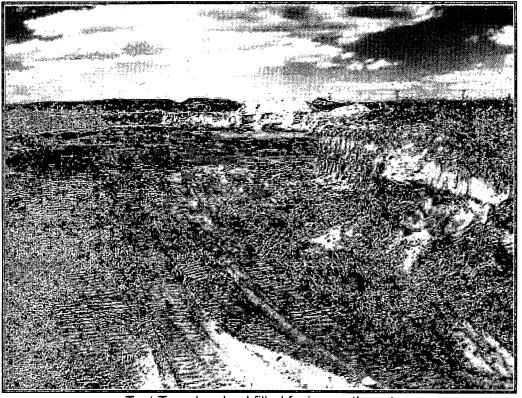
本属華

自用語句

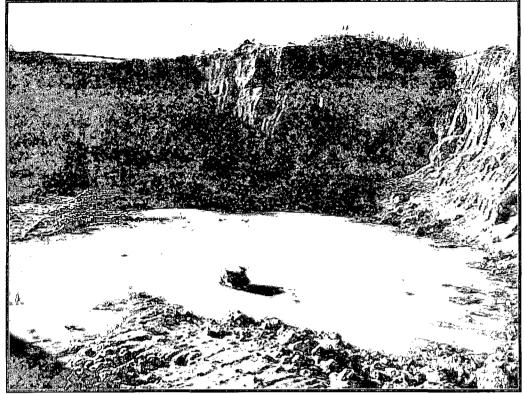
Take to

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Test Trenches backfilled facing southwest



Test Trenches backfilled facing northwest

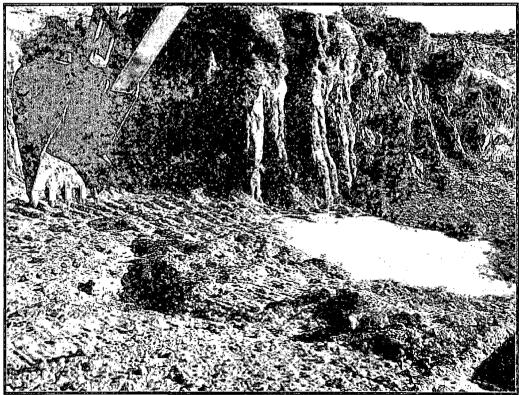


Southeast corner with rain water facing south

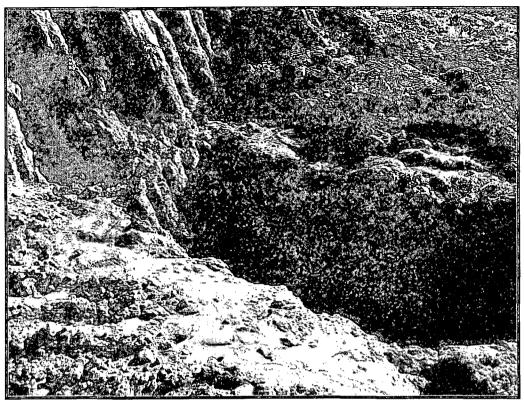
My Comple

重点

是



Northeast corner with rain water facing northeast



4

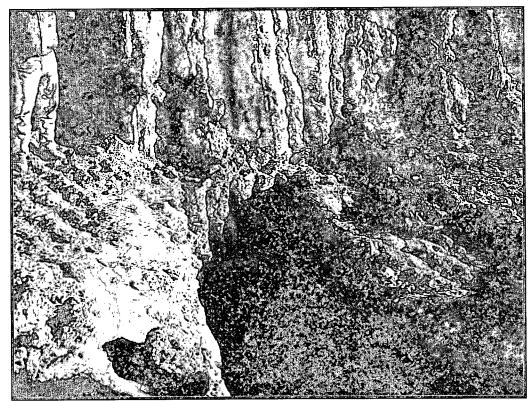
· Salta

Bar, and

Northeast corner with rain water on top facing east



Northeast corner at 3 1/2' dry facing north



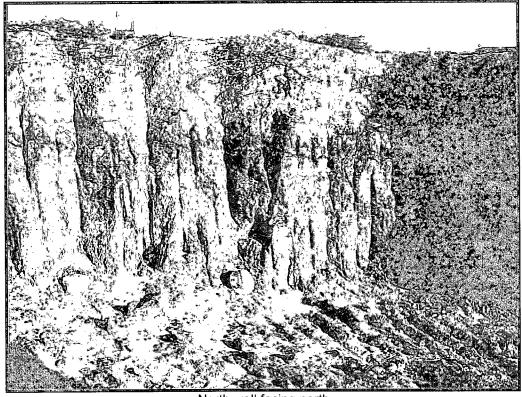
ST.

A. C.

W. Marie

1

Northeast corner north wall facing north



North wall facing north



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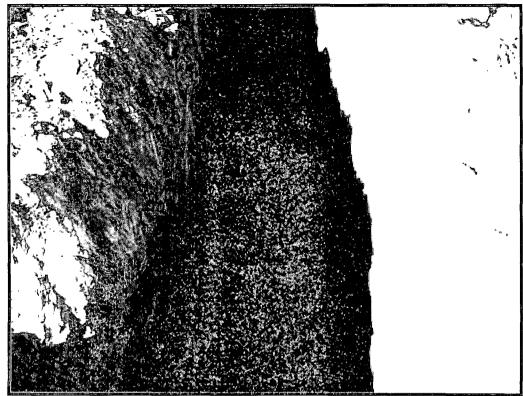
多で概要

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Test Trench #4 @ 16'bgs facing west



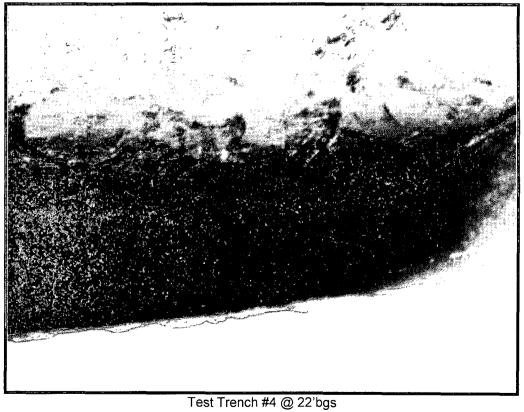
Test Trench #4 @ 18'bgs facing west

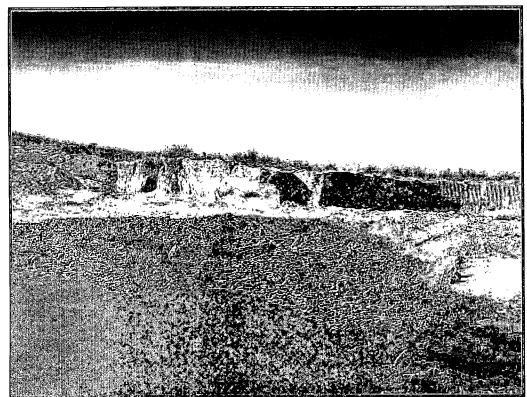


(E) 100 M

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Test Trench #4 @ 20'bgs facing west

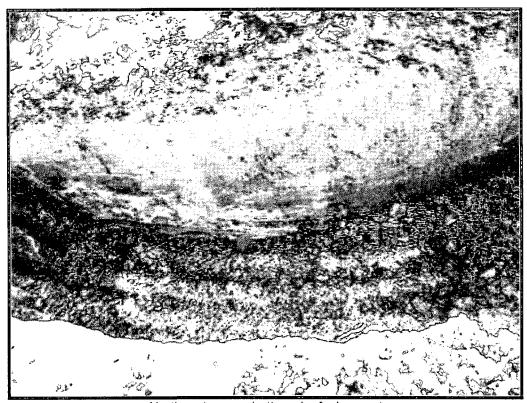




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200

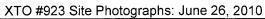
Test Trench #4 backfilled facing west



Northeast corner bottom dry facing east

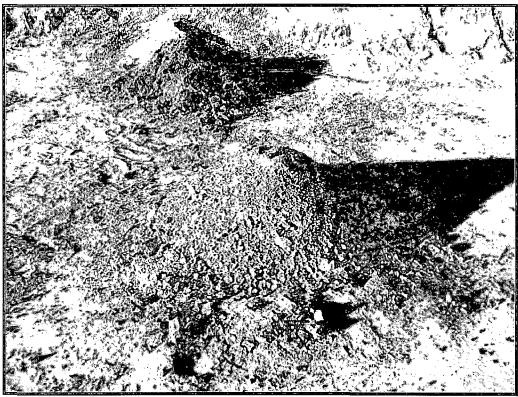


Northeast corner backfilled facing east

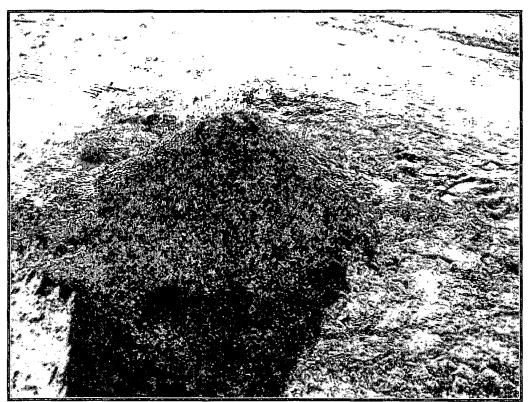




Monitor well covered up

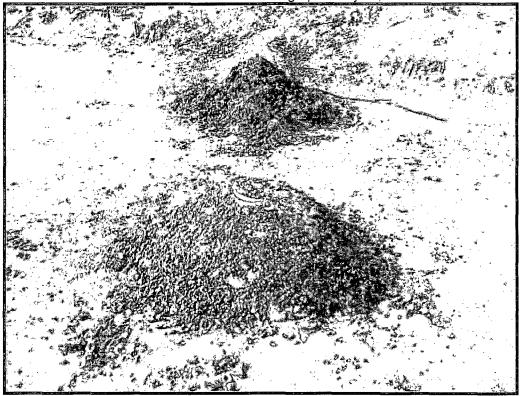


Monitor well covered up



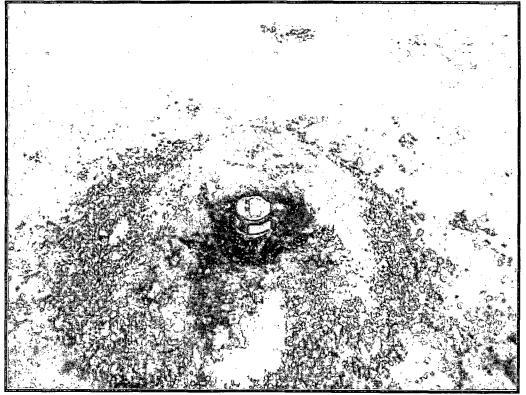
Monitor well covered up

XTO EMSU-B #923 Site Photographs: July 28, 2010



N. C.

Monitor well undisturbed

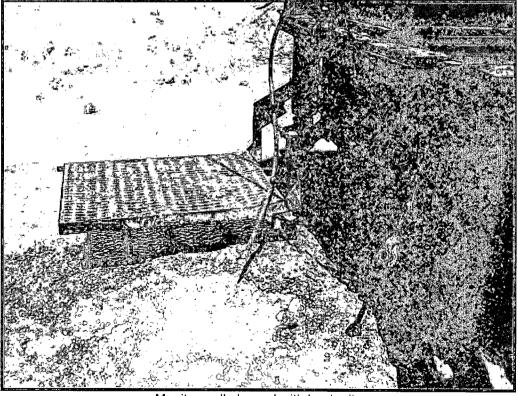


Monitor well undisturbed



10 C

Measurement at bottom of well with no water



Monitor well plugged with bentonite

Appendix C C-141 Listrict I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1600 Xio Brazos Road, Aztec, NM 87410 District IV

220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

Refease Notifica				1186 . T 257 1.85			
Nana of Company VIO Proper Lea		OPERATOR Initial Report Final R					
Name of Company XTO Energy, Inc Address 200 N. Lorraine, Suite 800		Contact: Jeff Raines Telephone No. 422 557 2150					
Midland Texas 79701		Telephone No. 432.557,3159					
Facility Name Eunice Monument South Unit B # 923	Facility Typ	Facility Type: Historic Spill					
Surface Owner Mineral Ov	vner	Lease No. API 30-025-04304					
LOCATION OF RELEASE							
Unit Letter Section Township Range Feet from the	North/South Line	Feet from the	Consty				
N 24 20 S 36 E 660	FSL	1980	EWL	Lea			
Latitude: 32° 33° 17.8°NLongitude: 103° 18° 20.8° W							
NATURE OF RELEASE							
Type of Release unknown		Release N/A	Volume R	tecovered: N/A			
Source of Release -		our of Occurrenc	e N/A Date and	Hour of Discovery N/A			
Was Immediate Notice Given?		If YES, To Whom?					
☐ Yes ☒ No ☐ Not Required -							
By Whom? - Date and Hour							
Was a Watercourse Reached? ☐ Yes ☑ No	ir yeş, vo	If YES, Volume-Impacting the Watercourse.					
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
Abandoned historical tank battery site. Delineation is in progress.							
Describe Area Affected and Cleanup Action Taken.*							
Area was assessed for damages and a workplan will be submitted to the NMOCD for approval.							
Thombs of Grant the Signature of the state o							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger							
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability							
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health							
or the environment. In addition, NMOCD acceptance of a C-141 re- federal, state, or local laws applier regulations.	port does not relieve	the operator of i	responsibility for ex	empliance with any other			
OH CONSERVATION DIVISION							
Signature 4 J James							
Approved by District Supervisor:							
Printed Norme: Tell Raines		-					
Title: Construction Foreman	Approval Dat	V-	Expiration (Date:			
E-mail Address: Jeff_Raines@xtoenergy.com	Conditions of	Conditions of Approval:		Aftaghad			
Date: September 25; 2009 Phone: 432,557,3159				Attached [
Arrach Additional Sheets If Necessary				was a second sec			