

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

30-045-25716

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: Elliott Annie LB #6E (30-045-25716)	Facility Type: Gas Well (Dakota)

Surface Owner: Federal	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter D	Section 10	Township 29N	Range 9W	Feet from the 590	North/South Line FNL	Feet from the 650	East/West Line FWL	County San Juan
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Latitude: 36.74494 Longitude: -107.77292

NATURE OF RELEASE

Type of Release: Earthen Pit	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Earthen Pit	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 6/8/2010
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	ROYAL L. BLO NM CONSERV. DIV.
By Whom?	Date and Hour:	DIST. 2
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

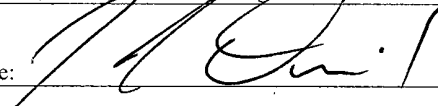
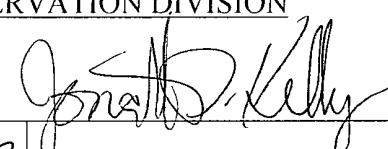
Describe Cause of Problem and Remedial Action Taken.*

During maintenance activities, a historical earthen pit was discovered at the Elliott Annie LB #6E well site. The site was then ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 0, setting the closure standard to 5,000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. All soil above these standards was removed and hauled to Envirotech's Landfarm for disposal.

Describe Area Affected and Cleanup Action Taken.*

Approximately 396 cubic yards of impacted soil was removed and disposed of at Envirotech's landfarm. The excavated area measured approximately 50' x 30' x 2-5' deep, where sandstone was encountered. A sandstone layer was encountered on the bottom, and ranged from 2 feet deep to 5 feet deep. The sandstone bottom at 2 feet deep was sampled and called Bottom #1, while the 5 foot bottom was sampled and called Bottom #2. Both samples were analyzed for TPH via USEPA Method 8015 and for benzene and BTEX via USEPA Method 8021, and returned results below the 5,000 ppm TPH standard, the 10 ppm benzene standard and the 50 ppm total BTEX standard determined for this site. Composite samples were also collected from the four (4) walls of the excavated area, and analyzed for TPH via USEPA Method 8015, and for benzene and total BTEX via USEPA Method 8021. All four (4) samples returned results below the regulatory standards determined for this site. Analytical results are attached for your reference. The excavated area was backfilled with material from Four Corners Material.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: James McDaniel	Approved by District Supervisor: 	
Title: EH&S Specialist	Approval Date: 2/29/2012	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 6/30/2010	Phone: 505-333-3701	

nJK1206037466



12065 Lebanon Rd.
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Tax I.D 62-0814289

Est. 1970

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

Report Summary

Monday June 21, 2010

Report Number: L465141

Samples Received: 06/19/10

Client Project:

Description: Elliott Annie LB 6E

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures 060302, 060303, and 060304.



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Est 1970

REPORT OF ANALYSIS

June 21,2010

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

ESC Sample # : L465141-01

Date Received : June 19, 2010
Description : Elliott Annie LB 6E

Site ID : ELLIOTT ANNIE LB 6E

Sample ID : NORTH WALL

Project # :

Collected By : James McDaniel
Collection Date : 06/17/10 12:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.7		%	2540G	06/21/10	1
Benzene	BDL	0.0028	mg/kg	8021/8015	06/20/10	5
Toluene	BDL	0.028	mg/kg	8021/8015	06/20/10	5
Ethylbenzene	0.0058	0.0028	mg/kg	8021/8015	06/20/10	5
Total Xylene	0.033	0.0084	mg/kg	8021/8015	06/20/10	5
TPH (GC/FID) Low Fraction	1.2	0.56	mg/kg	GRO	06/20/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	102.		% Rec.	8021/8015	06/20/10	5
a,a,a-Trifluorotoluene (PID)	97.5		% Rec.	8021/8015	06/20/10	5
TPH (GC/FID) High Fraction	120	4.4	mg/kg	3546/DRO	06/21/10	1
Surrogate recovery(%)						
o-Terphenyl	60.7		% Rec	3546/DRO	06/21/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 06/21/10 16:54 Printed: 06/21/10 16:55



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Fax (615) 758-5859

Tax I.D. 62-0814289

Est 1970

REPORT OF ANALYSIS

June 21, 2010

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

ESC Sample # : L465141-02

Date Received : June 19, 2010
Description : Elliott Annie LB 6E

Site ID : ELLIOTT ANNIE LB 6E

Sample ID : WEST WALL

Project # :

Collected By : James McDaniel
Collection Date : 06/17/10 12:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Total Solids	87.7		%	2540G	06/21/10	1
Benzene	BDL	0.0028	mg/kg	8021/8015	06/20/10	5
Toluene	BDL	0.028	mg/kg	8021/8015	06/20/10	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	06/20/10	5
Total Xylene	0.021	0.0086	mg/kg	8021/8015	06/20/10	5
TPH (GC/FID) Low Fraction	BDL	0.57	mg/kg	GRO	06/20/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	102		% Rec.	8021/8015	06/20/10	5
a,a,a-Trifluorotoluene (PID)	97.4		% Rec.	8021/8015	06/20/10	5
TPH (GC/FID) High Fraction	80	4.6	mg/kg	3546/DRO	06/21/10	1
Surrogate recovery(%)						
o-Terphenyl	52.0		% Rec.	3546/DRO	06/21/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 06/21/10 16:54 Printed: 06/21/10 16:55



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

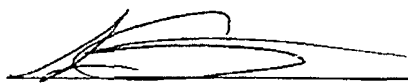
Client:	XTO	Project #:	98031-0528
Sample ID:	West Wall	Date Reported:	06-23-10
Laboratory Number:	54819	Date Sampled:	06-21-10
Chain of Custody No:	9724	Date Received:	06-21-10
Sample Matrix:	Soil	Date Extracted:	06-21-10
Preservative:	Cool	Date Analyzed:	06-22-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	684	0.2
Diesel Range (C10 - C28)	677	0.1
Total Petroleum Hydrocarbons	1,360	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Elliott Annie LB #6E**


Analyst


Review



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall	Date Reported:	06-23-10
Laboratory Number:	54820	Date Sampled:	06-21-10
Chain of Custody No:	9724	Date Received:	06-21-10
Sample Matrix:	Soil	Date Extracted:	06-21-10
Preservative:	Cool	Date Analyzed:	06-22-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,020	0.2
Diesel Range (C10 - C28)	832	0.1
Total Petroleum Hydrocarbons	1,850	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Elliott Annie LB #6E**

Analyst

Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-22-10 QA/QC	Date Reported:	06-23-10
Laboratory Number:	54715	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-22-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RE	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

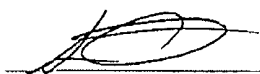
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	1.0	0.8	20.0%	0 - 30%
Diesel Range C10 - C28	1.5	1.4	6.7%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	1.0	250	254	101%	75 - 125%
Diesel Range C10 - C28	1.5	250	297	118%	75 - 125%

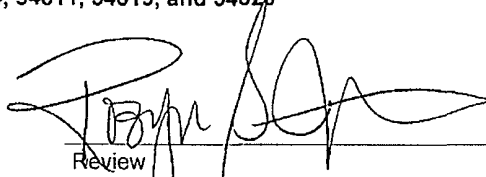
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 54715-54720, 54784, 54811, 54819, and 54820



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	West Wall	Date Reported:	06-25-10
Laboratory Number:	54819	Date Sampled:	06-21-10
Chain of Custody:	9724	Date Received:	06-21-10
Sample Matrix:	Soil	Date Analyzed:	06-22-10
Preservative:	Cool	Date Extracted:	06-21-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	295	0.9
Toluene	4,270	1.0
Ethylbenzene	1,210	1.0
p,m-Xylene	14,000	1.2
o-Xylene	2,380	0.9
Total BTEX	22,200	

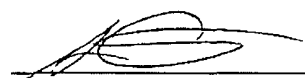
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

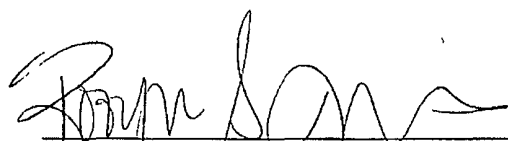
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Elliott Annie LB #6E



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall	Date Reported:	06-25-10
Laboratory Number:	54820	Date Sampled:	06-21-10
Chain of Custody:	9724	Date Received:	06-21-10
Sample Matrix:	Soil	Date Analyzed:	06-22-10
Preservative:	Cool	Date Extracted:	06-21-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	718	0.9
Toluene	10,900	1.0
Ethylbenzene	2,000	1.0
p,m-Xylene	20,300	1.2
o-Xylene	3,590	0.9
Total BTEX	37,500	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Elliott Annie LB #6E

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0621BBL3 QA/QC	Date Reported:	06-25-10
Laboratory Number:	54715	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-22-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
			Accept Range 0 - 15%		
Benzene	1.0547E+006	1.0568E+006	0.2%	ND	0.1
Toluene	9.8092E+005	9.8288E+005	0.2%	ND	0.1
Ethylbenzene	8.8810E+005	8.8988E+005	0.2%	ND	0.1
p,m-Xylene	2.1528E+006	2.1571E+006	0.2%	ND	0.1
o-Xylene	8.1871E+005	8.2035E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	2.1	2.6	23.8%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	3.7	4.7	27.0%	0 - 30%	1.2
o-Xylene	3.3	3.5	6.1%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Range
Benzene	ND	50.0	52.4	105%	39 - 150
Toluene	2.1	50.0	53.2	102%	46 - 148
Ethylbenzene	ND	50.0	51.7	103%	32 - 160
p,m-Xylene	3.7	100	103	98.9%	46 - 148
o-Xylene	3.3	50.0	51.8	97.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QA/QC for Samples 54715-54720, 54811, 54819, and 54820

Analyst

Review

CHAIN OF CUSTODY RECORD

09724

Client: X70		Project Name / Location: Elliott Annie LB #6E				ANALYSIS / PARAMETERS																	
Client Address: 382 CR 3100		Sampler Name: J McDaniel																					
Client Phone No.: 787-0519		Client No.: 98031-0528																					
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
West Wall	6/21/10	1415	54819	Soil Solid	1-4oz				X	X	X											Y	Y
South Wall	6/21/10	1420	54820	Soil Solid	1-4oz				X	X	X											Y	Y
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
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		6/21/10		1620				6/21/10		1620													
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	

RUSH

envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	Bottom #1 (sandstone)	Date Reported:	06-16-10
Laboratory Number:	54727	Date Sampled:	06-14-10
Chain of Custody No:	9677	Date Received:	06-14-10
Sample Matrix:	Soil	Date Extracted:	06-14-10
Preservative:	Cool	Date Analyzed:	06-15-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	3.7	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Elliot Annie LB # 6E

Analyst

Review



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	Bottom #2 (sandstone)	Date Reported:	06-16-10
Laboratory Number:	54728	Date Sampled:	06-14-10
Chain of Custody No:	9677	Date Received:	06-14-10
Sample Matrix:	Soil	Date Extracted:	06-14-10
Preservative:	Cool	Date Analyzed:	06-15-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	918	0.2
Diesel Range (C10 - C28)	56.0	0.1
Total Petroleum Hydrocarbons	974	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Elliot Annie LB # 6E**

Analyst

Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-15-10 QA/QC	Date Reported:	06-16-10
Laboratory Number:	54724	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-15-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	4.7	3.5	25.5%	0 - 30%
Diesel Range C10 - C28	30.0	22.1	26.3%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	4.7	250	253	100%	75 - 125%
Diesel Range C10 - C28	30.0	250	251	89.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 54724-54728, 54730 and 54703-54706.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Bottom # 1 (sandstone)	Date Reported:	06-16-10
Laboratory Number:	54727	Date Sampled:	06-14-10
Chain of Custody:	9677	Date Received:	06-14-10
Sample Matrix:	Soil	Date Analyzed:	06-15-10
Preservative:	Cool	Date Extracted:	06-14-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	200	0.9
Toluene	340	1.0
Ethylbenzene	53.8	1.0
p,m-Xylene	532	1.2
o-Xylene	105	0.9
Total BTEX	1,230	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	112 %
	1,4-difluorobenzene	111 %
	Bromochlorobenzene	115 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Elliot Annie LB #6E

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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	Bottom # 2 (sandstone)	Date Reported:	06-16-10
Laboratory Number:	54728	Date Sampled:	06-14-10
Chain of Custody:	9677	Date Received:	06-14-10
Sample Matrix:	Soil	Date Analyzed:	06-15-10
Preservative:	Cool	Date Extracted:	06-14-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	4.7	0.9
Toluene	177	1.0
Ethylbenzene	188	1.0
p,m-Xylene	7,570	1.2
o-Xylene	485	0.9
Total BTEX	8,430	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	105 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	109 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Elliot Annie LB #6E

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0615BBL QA/QC	Date Reported:	06-16-10
Laboratory Number:	54724	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-15-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.1969E+006	1.1993E+006	0.2%	ND	0.1
Toluene	1.0924E+006	1.0946E+006	0.2%	ND	0.1
Ethylbenzene	9.7556E+005	9.7752E+005	0.2%	ND	0.1
p,m-Xylene	2.3993E+006	2.4041E+006	0.2%	ND	0.1
o-Xylene	8.8968E+005	8.9147E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	1.7	1.9	11.8%	0 - 30%	1.0
Ethylbenzene	3.0	3.1	3.3%	0 - 30%	1.0
p,m-Xylene	6.7	7.3	9.0%	0 - 30%	1.2
o-Xylene	6.5	7.0	7.7%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.5	101.0%	39 - 150
Toluene	1.7	50.0	50.9	98.4%	46 - 148
Ethylbenzene	3.0	50.0	50.6	95.5%	32 - 160
p,m-Xylene	6.7	100	101	94.7%	46 - 148
o-Xylene	6.5	50.0	50.6	89.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 54724-54729 and 54703-54706.

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CHAIN OF CUSTODY RECORD

09677 RUSH

Client: XTC		Project Name / Location: Elliot Annie LB #6E				ANALYSIS / PARAMETERS															
Client Address: 302 CR 3100		Sampler Name: J McDaniel				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.: 787-0519		Client No.: 98031-0528																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl Cd															
Wall Composite #2	6/14/10	1030	54725	Soil Solid	Sludge Aqueous	1-4oz			X	X	X							4	4		
Wall Composite #1	6/14/10	1025	54726	Soil Solid	Sludge Aqueous	1-4oz			X	X	X							1	1		
Bottom #1 (sandstone)	6/14/10	1050	54727	Soil Solid	Sludge Aqueous	1-4oz			X	X	X							1	1		
Bottom #2 (sandstone)	6/14/10	1052	54728	Soil Solid	Sludge Aqueous	1-4oz			X	X	X							1	1		
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
Relinquished by: (Signature)		Date 6/14/10		Time 11:40		Received by: (Signature)												Date 6/14/10		Time 11:40	
Relinquished by: (Signature)						Received by: (Signature)															
Relinquished by: (Signature)						Received by: (Signature)															

RUSH



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