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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **XTO Energy Inc.**	Contact **Kim Champlin**
Address **#382 County Road 3100 Aztec, NM 87410**	Telephone No. **(505) 333-3100**
Facility Name **Carson Federal I #1C**	Facility Type **Gas Well**

Surface Owner **Fed**	Mineral Owner Fed	Lease No. **NMNM14922**

LOCATION OF RELEASE

30-039-29602

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**34**	**28N**	**4W**	**705**	**North**	**775**	**East**	**Rio Arriba**

Latitude 36.621111 **Longitude** 107.232222

NATURE OF RELEASE

Type of Release **Diesel**	Volume of Release **Approx 50 bbl**	Volume Recovered **Approx 50 bbl**
Source of Release **Diesel tank from drill rig**	Date and Hour of Occurrence **11/03/06, approx 12:00 pm**	Date and Hour of Discovery **11/03/06 at 12:00 pm**
Was Immediate Notice Given? ☒ Yes ☐ No Not Required	If YES, To Whom? **Brandon Powell, NMOCD and John Ritenger Carson National Forest**	
By Whom? **Lisa Winn**	Date and Hour **11/4/06 at approx 10:00 am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RCVD JUN 10'10
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* **Contractors were moving equipment from a new drill location when a diesel tank was compromised. The tank spilled approximately 2 bbl of diesel on the lease road off location. The contractors moved the tank back to the location and the remaining diesel was contained within the reserve pit. XTO was notified after the containment activities were initiated. The surface material (mud and crushed sandstone) was removed for off site treatment/disposal. The impacts appeared to be limited to mud on the road surface with no staining of the bedrock beneath the mud. The rain water and diesel inside the reserve pit were removed for offsite disposal. Samples were collected from the remediated road and submitted for laboratory analysis. Samples of the remaining reserve pit contents were also sampled. Clean up was completed and closure documentation is attached.**

Describe Area Affected and Cleanup Action Taken.* **The road surface was excavated and hauled offsite for treatment/disposal. Impacts were limited to mud on the road. The diesel and rain water was pumped from the reserve pit and impacted cutting will be removed for offsite disposal.**

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: Kim Champlin	OIL CONSERVATION DIVISION	
Printed Name: **Kim Champlin**	Approved by District Supervisor: Brandon Powell For: CP	
Title: **EH&S Administrative Coordinator**	Approval Date: 9/29/10	Expiration Date:
E-mail Address: **kim_champlin@xtoenergy.com**	Conditions of Approval:	Attached ☐
Date: **June 8, 2010** Phone: **505-333-3100**		

* Attach Additional Sheets If Necessary

nBR027233799

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

November 8, 2006

Mr. Tony Sternberger
XTO Energy, Inc.
2700 Farmington Ave, Bldg K, Ste. 1
Farmington, New Mexico 87401

Re: Carson Federal I No. 1C - Diesel Spill
(A) Sec. 34 – T28N – R4W
Rio Arriba County, New Mexico

Dear Mr. Sternberger:

Pursuant to your request, Blagg Engineering, Inc. (BEI) performed closure sampling following remediation of a diesel spill on the lease access road to the Carson Federal I No. 1C in Rio Arriba County, New Mexico. The spill was the result of a small rupture to a diesel tank while transporting it from the well pad. Although most of the diesel was recovered, an indeterminate amount of product was absorbed into the soils on the lease road and the adjacent bar ditch. Remediation was by excavation of impacted soils using a trackhoe. Approximately 123 cubic yards of contaminated soil was transported to the JFJ landfarm near Farmington, New Mexico.

On November 2, 2006 BEI collected six (6) discrete grab samples from the remediated area, placed them into a laboratory supplied containers and stored them on ice for delivery to Envirotech laboratories in Farmington, New Mexico for testing. Analysis included total petroleum hydrocarbons by U.S. EPA Method 8015B for both diesel range organics (DRO) and gasoline range organics (GRO). Test results, attached, indicated trace amounts of hydrocarbon were detected in four (4) of the samples, while non-detect (ND) amounts were in two (2) samples. A summary of the laboratory results are presented in Table 1 below:

Table 1

Carson Federal I No. 1C
Summary Laboratory Test Results

Sample ID	GRO mg/Kg (ppm)	DRO mg/Kg (ppm)	Comments
Grab No. 1	0.5	12.6	At source area
Grab No. 2	ND	ND	Road center, 33'± from source area
Grab No. 3	ND	6.0	Bar ditch, 70' ± from source area
Grab No. 4	ND	ND	Road center, 92' ± from source area
Grab No. 5	0.3	0.9	Bar ditch, 114' ± from source area
Grab No. 6	ND	0.9	Road center, 138' ± from source area

Based on visual observations, lack of odor and review of laboratory test results, BEI is of the opinion that the spill was adequately remediated by excavation with no remaining significant impacts to the environment.

XTO's consideration of Blagg Engineering, Inc. for this project is appreciated. If you have questions or need additional information, please contact myself at (505)632-1199.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

JCB/

cc: Lisa Winn - XTO Farmington

Attachments: Field Sampling Notes
Laboratory Reports

CLIENT: XTO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO:
COCR NO: 1643

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: AZTEC WELL SVC.: ROAD 314 SPILL TYPE: DIESEL
QUAD/UNIT: G SEC: 23 TWP: 29N RNG: 5W PM: NM CNTY: RA ST: NM
36° 42' 45.9" N x 107° 19' 27.6" W CONTRACTOR: ROSENBAUM

DATE STARTED: 10-30-06
DATE FINISHED: 10-31-06
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 66 ± FT. x 16 ± FT. x 1½ ± FT. DEEP. CUBIC YARDAGE: 60 ±

DISPOSAL FACILITY: JFJ LANDFARM REMEDIATION METHOD: EXCAVATE

LAND USE: BLM SURFACE LEASE: NA FORMATION: NA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY NA FT. NA FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

OVM CALIB. READ. = ppm
OVM CALIB. GAS = ppm RF = 0.52
TIME: am/pm DATE:

SOIL AND EXCAVATION DESCRIPTION: 0'-2'

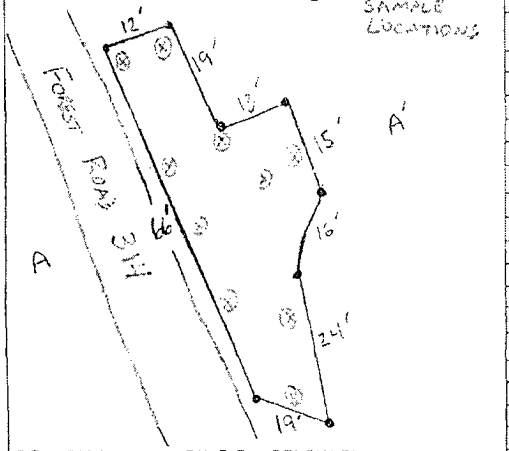
SOIL TYPE: SAND / (SILTY SAND) / SILT / SILTY CLAY / CLAY / GRAVEL / (OTHER) BEDROCK SANDSTONE @ 2'
SOIL COLOR:
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / (COHESIVE) / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: YES / (NO) EXPLANATION -
HC ODOR DETECTED: YES / (NO) EXPLANATION -
SAMPLE TYPE: GRAB / (COMPOSITE) # OF PTS. 10
ADDITIONAL COMMENTS: LOSS OF 300 GAL ± DIESEL FROM VEHICLE SPILL. USE TRACKHOE TO REMOVE IMPACTED SOILS TO BEDROCK SANDSTONE @ 18"-2' BELOW SURFACE. COLLECT 10-POINT COMPOSITE FOR LAB.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	ml. FREON	DILUTION	READING	CALC. (ppm)

SCALE 0 20FT

PIT PERIMETER



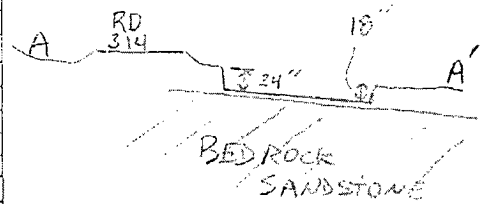
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
10-POINT COMPOSITE	NA

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
10-POINT COMPOSITE	TPH 8015	0915

PIT PROFILE



TRAVEL NOTES: CALLOUT: ONSITE: 10/30 - 10/31 2006

revised: 09/12/01 bel1005B.skt

CLIENT: XTO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO:
COCR NO: 14723

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: CARSON FED I WELL #: 1C TYPE: DIESEL
QUAD/UNIT: A SEC: 34 TWP: 28N RNG: 4W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: CONTRACTOR: ROSENBAUM

DATE STARTED: 11-2-06
DATE FINISHED: 11-2-06
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 123±
DISPOSAL FACILITY: JFJ LANDFARM REMEDIATION METHOD: EXCAVATE
LAND USE: FOREST LEASE: NM-14922 FORMATION:

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM ??

OVM CALIB. READ. = ppm
OVM CALIB. GAS = ppm RF = 0.52
TIME: am/pm DATE:

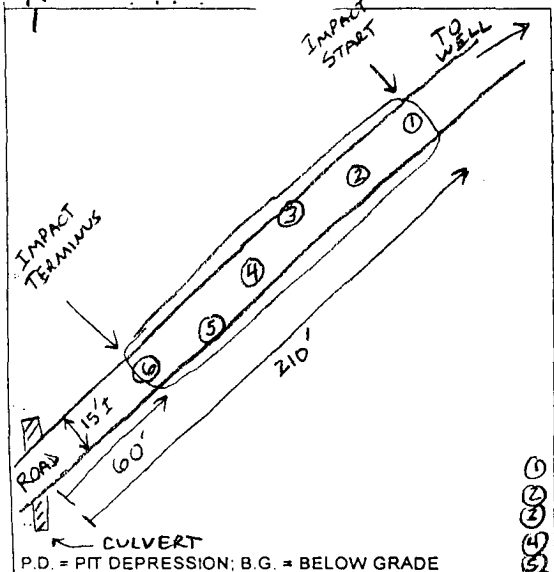
SOIL AND EXCAVATION DESCRIPTION: NATIVE INSITU SOIL

SOIL TYPE: SAND / SILTY SAND / (SILT) / SILTY CLAY / (CLAY) / GRAVEL / (OTHER) IMPORTED CRUSHED SANDSTONE ON ROAD SURFACE
SOIL COLOR:
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST / MOIST) / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: YES / (NO) EXPLANATION -
HC ODOR DETECTED: YES / (NO) EXPLANATION -
SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS.
ADDITIONAL COMMENTS: DIESEL SPILL ON ROAD TO LOCATION, USE TRACKHOE TO REMOVE IMPACTED SOILS - MOSTLY IN IMPORTED CRUSHED SANDSTONE -

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE 0 FT



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE
T.H. = TEST HOLE

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
FROM CULVERT	

LAB SAMPLES

	SAMPLE ID	ANALYSIS	TIME
1	62½'	8015B	1230
2	86'	"	1238
3	108'	"	1242
4	130'	"	1245
5	167'	"	1250
6	201'	"	1255

TRAVEL NOTES: CALLOUT: ONSITE: 11/2/06

revised: 09/12/01 bei1005B.skf

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #1	Date Reported:	11-07-06
Laboratory Number:	39025	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.5**	**0.2**
Diesel Range (C10 - C28)	**12.6**	**0.1**
Total Petroleum Hydrocarbons	**13.1**	**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: **Carson Federal I #1C.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #2	Date Reported:	11-07-06
Laboratory Number:	39026	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**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: **Carson Federal I #1C.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #3	Date Reported:	11-07-06
Laboratory Number:	39027	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**6.0**	**0.1**
Total Petroleum Hydrocarbons	**6.0**	**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: **Carson Federal I #1C.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #4	Date Reported:	11-07-06
Laboratory Number:	39028	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**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: **Carson Federal I #1C.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #5	Date Reported:	11-07-06
Laboratory Number:	39029	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.3**	**0.2**
Diesel Range (C10 - C28)	**0.9**	**0.1**
Total Petroleum Hydrocarbons	**1.2**	**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: **Carson Federal I #1C.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Grab #6	Date Reported:	11-07-06
Laboratory Number:	39030	Date Sampled:	11-02-06
Chain of Custody No:	14723	Date Received:	11-03-06
Sample Matrix:	Soil	Date Extracted:	11-05-06
Preservative:	Cool	Date Analyzed:	11-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.9**	**0.1**
Total Petroleum Hydrocarbons	**0.9**	**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: **Carson Federal I #1C.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-06-06 QA/QC	Date Reported:	11-07-06
Laboratory Number:	39025	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-06-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	2.3996E+003	2.4020E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.8682E+003	1.8720E+003	0.20%	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	0.5	0.5	0.0%	0 - 30%
Diesel Range C10 - C28	12.6	12.5	0.8%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.50	250	251	100.0%	75 - 125%
Diesel Range C10 - C28	12.6	250	262	99.6%	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 39025 - 39032 and 39034 - 39035.**

Christine Walters
Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

14723

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / XTO	CARSON FEDERAL I #1C	
Sampler: JEFF BLAGG	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015B						Remarks
GRAB #1	11-2-06	1230	39025	SOIL	1	X						
GRAB #2	"	1238	39026	"	1	X						
GRAB #3	"	1242	39027	"	1	X						
GRAB #4	"	1245	39028	"	1	X						
GRAB #5	"	1250	39029	"	1	X						
GRAB #6	"	1255	39030	"	1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	11/3/06	0756	Blake Hall	11/3/06	0756
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

December 1, 2006

Ms. Lisa Winn
XTO Energy, Inc.
2700 Farmington Ave, Bldg K, Ste. 1
Farmington, New Mexico 87401

Re: Carson Federal I No. 1C - Reserve Pit Sampling
(A) Sec. 34 – T28N – R4W, Rio Arriba County, New Mexico

Dear Ms. Winn:

Pursuant to your request, Blagg Engineering, Inc. (BEI) conducted sampling of the drilling reserve pit contents at the Carson Federal I No. 1C new drill, (A) Sec. 34 – T28N – R4W, Rio Arriba County, New Mexico. Diesel was temporarily placed in the reserve pit during emergency actions to contain a diesel spill on the lease road leading to the well site. Prior to the spill, well drilling had just been completed and the pit contained drill mud, cuttings and recent precipitation. The diesel floated on the surface of the pit until it was removed by skimming. The sampling performed by BEI was after the diesel had been removed to determine if the pit contents had residual diesel impacts.

On November 22, 2006 BEI inspected the site. There was no apparent diesel or diesel odor on the pit surface. The pit was pvc plastic lined with approximate exterior dimensions of 180' x 60' x 8' ± deep. The pit contents were contained in the center in an area of about 135' x 45' x 4' ± deep. An eight (8) point composite sample of the pit solids was collected at a depth of approximately 1 foot below the top surface. The sample was thoroughly mixed, placed into a laboratory supplied container and stored on ice for delivery to Envirotech laboratories in Farmington, New Mexico for testing. Analysis included total petroleum hydrocarbons by U.S. EPA Method 8015B for both diesel range organics (DRO) and gasoline range organics (GRO). Test results, attached, indicate trace amounts of DRO were present at 2.1 mg/Kg (equivalent to parts per million). No GRO were found in the sample.

Based on visual observations, lack of odor and review of laboratory test results, BEI is of the opinion that the pit contents were minimally impacted by the temporary diesel storage. It is likely the diesel floated on the standing water in the pit and did not directly contact the drill mud and cuttings. BEI does not believe there are significant remaining hydrocarbon impacts.

XTO's consideration of Blagg Engineering, Inc. for this project is appreciated. If you have questions or need additional information, please contact myself at (505)632-1199.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

JCB/

cc: Tony Sternberger - XTO Farmington

Attachment: Laboratory Test Report

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Reserve Pit Solids	Date Reported:	11-27-06
Laboratory Number:	39291	Date Sampled:	11-22-06
Chain of Custody No:	14730	Date Received:	11-22-06
Sample Matrix:	Solid	Date Extracted:	11-25-06
Preservative:	Cool	Date Analyzed:	11-27-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**2.1**	**0.1**
Total Petroleum Hydrocarbons	**2.1**	**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: **Carson Fed. I #1C 8 - Point Composite**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-27-06 QA/QC	Date Reported:	11-27-06
Laboratory Number:	39291	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-27-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.0089E+003	1.0099E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9301E+002	9.9500E+002	**0.20%**	**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	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**2.1**	**2.1**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**2.1**	**250**	**252**	**99.9%**	**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 39291, 39293 - 39294, 39296, 39299 - 39302**

Analyst

Review

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CHAIN OF CUSTODY RECORD

14730

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/XTO	CARSON FED. I #1C	

Sampler:	Client No.
JEFF BLAGG	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015						Remarks
RESERVE PIT SOLIDS	11-22-06	0715	39291	SOLID	1	X						8-POINT COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	11/22/06	1025	Glenn C. Alexander	11/22/06	1025
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		