

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

30-045-28277

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: Blancett COM Federal C #1(30-045-28277)	Facility Type: Gas Well (Fruitland Coal)	
Surface Owner: Federal	Mineral Owner:	Lease No.:

LOCATION OF RELEASE

Unit Letter A	Section 27	Township 32N	Range 9W	Feet from the 1250	North/South Line FNL	Feet from the 955	East/West Line FEL
------------------	---------------	-----------------	-------------	-----------------------	-------------------------	----------------------	-----------------------

Latitude: 36.9591 Longitude: -107.7616

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 200 bbls	Volume Recovered: None
Source of Release: Frozen Valve on AST	Date and Hour of Occurrence: January 4, 2011	Date and Hour of Discovery: January 4, 2011 - 15:30
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell	
By Whom? James McDaniel	Date and Hour: January 5 th , 2011 - 17:00	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

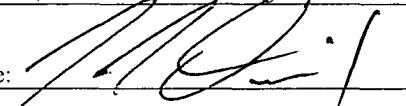
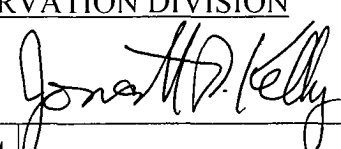
Describe Cause of Problem and Remedial Action Taken.*

On January 4, 2010, a XTO lease operator noticed a spill at the Blancett COM Federal C #1 due to a frozen valve on the on-site produced water tank. Approximately 200 bbls of produced water pooled inside the bermed area, before breaking the berm on the east side, pooling on the location, and flowing off site in a small drainage feature for approximately 263 feet before coming to an end. The majority of the water pooled and froze inside the berm and on the well pad. At this time, the site was ranked a 20 according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to a wash at less than 1,000 feet, and a depth to groundwater of 50-100 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

On January 5th, 2011, LT Environmental was on-site to assess the impacted of the spill. A composite sample of the soil in the bermed area was collected (Soil-1), as well as a sample of produced water pooled inside the bermed area (IW-1). A background sample was also collected to be analyzed for chlorides. The soil sample returned results of non-detect for TPH, benzene and BTEX, and 74 ppm total chlorides. The background sample returned results of 67 ppm, comparable to the soil sample impacted with the produced water. The sample of the produced water returned results of non-detect for benzene and BTEX. All samples returned results below the regulatory standards determined for this site. This spill is not seen as a threat to human health and the environment, and no further action will be taken. Analytical results and a site map created by LE Environmental are attached for your reference.

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: 12/06/2011	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/11/2011	Phone: 505-333-3701	

nJK1134032922



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D 62-0814289

Est 1970

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

Report Summary

Monday January 10, 2011

Report Number: L496544

Samples Received: 01/07/11

Client Project:

Description:

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,
TX - T104704245, OK-9915

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.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences.
Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures 060302, 060303, and 060304.



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

January 10, 2011

Date Received : January 07, 2011
Description :

Sample ID : IW-1

Collected By : S. LaRue
Collection Date : 01/05/11 14:39

ESC Sample # : L496544-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	01/07/11	1
Toluene	BDL	0.0050	mg/l	8021/8015	01/07/11	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	01/07/11	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	01/07/11	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	01/07/11	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	103.		% Rec.	8021/8015	01/07/11	1
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/07/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/10/11 15:48 Printed: 01/10/11 16:23



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 10, 2011

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

Date Received : January 07, 2011
Description :

Sample ID : SOIL-1

Collected By : S. LaRue
Collection Date : 01/05/11 14:41

ESC Sample # : L496544-02

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	74.	14.	mg/kg	9056	01/07/11	1
Total Solids	69.9		%	2540G	01/09/11	1
TPH (GC/FID) Low Fraction	BDL	0.72	mg/kg	8015D/GRO	01/07/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	92.9		% Rec	602/8015	01/07/11	5
TPH (GC/FID) High Fraction	BDL	5.7	mg/kg	3546/DRO	01/08/11	1
Surrogate recovery (%) o-Terphenyl	77.9		% Rec.	3546/DRO	01/08/11	1

Results listed are dry weight basis

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 01/10/11 15:48 Printed: 01/10/11 16:23



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

January 10, 2011

Date Received : January 07, 2011
Description :

Sample ID : BACKGROUND-1

Collected By : S. LaRue
Collection Date : 01/05/11 15:54

ESC Sample # : L496544-03

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	67.	12	mg/kg	9056	01/07/11	1
Total Solids	81.7		%	2540G	01/09/11	1

Results listed are dry weight basis
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

Reported: 01/10/11 15:48 Printed: 01/10/11 16:23



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 10, 2011

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

ESC Sample # : L496544-04

Date Received : January 07, 2011
Description :

Site ID :

Sample ID : SOIL-1

Project # :

Collected By : S. LaRue
Collection Date : 01/05/11 14:41

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	69.9		%	2540G	01/09/11	1
Benzene	BDL	0.0036	mg/kg	8021B	01/10/11	5
Toluene	BDL	0.036	mg/kg	8021B	01/10/11	5
Ethylbenzene	BDL	0.0036	mg/kg	8021B	01/10/11	5
Total Xylene	BDL	0.011	mg/kg	8021B	01/10/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene (PID)	109.		% Rec.	8021B	01/10/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 01/10/11 15:48 Printed: 01/10/11 16:23

Summary of Remarks For Samples Printed
01/10/11 at 16:23:55

TSR Signing Reports: 288
R2 - Rush: Next Day

No Energy fee. Charge \$10 Shipping Fee per Dave V 1/4/10 When transferring TS to a new dash # DO
NOT charge a fee

Sample: L496544-01 Account: XTORNM Received: 01/07/11 08:30 Due Date: 01/10/11 00:00 RPT Date: 01/10/11 15:48

Sample: L496544-02 Account: XTORNM Received: 01/07/11 08:30 Due Date: 01/10/11 00:00 RPT Date: 01/10/11 15:48

Sample: L496544-03 Account: XTORNM Received: 01/07/11 08:30 Due Date: 01/10/11 00:00 RPT Date: 01/10/11 15:48

Sample: L496544-04 Account: XTORNM Received: 01/07/11 08:30 Due Date: 01/10/11 00:00 RPT Date: 01/10/11 15:48
Added per Daphne JW 01-10



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L496544

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D 62-0814289

Est. 1970

January 10, 2011

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
TPH (GC/FID) Low Fraction	< .1	mg/kg		WG516398	01/07/11 12 16
a,a,a-Trifluorotoluene(FID)		% Rec 96.35	59-128	WG516398	01/07/11 12:16
Chloride	< 10	mg/kg		WG516332	01/07/11 10:09
TPH (GC/FID) High Fraction	< 4	ppm		WG516459	01/08/11 05 44
o-Terphenyl		% Rec. 92.36	50-150	WG516459	01/08/11 05 44
Benzene	< .0005	mg/l		WG516433	01/07/11 14 42
Ethylbenzene	< .0005	mg/l		WG516433	01/07/11 14.42
Toluene	< .005	mg/l		WG516433	01/07/11 14:42
TPH (GC/FID) Low Fraction	< 1	mg/l		WG516433	01/07/11 14.42
Total Xylene	< .0015	mg/l		WG516433	01/07/11 14 42
a,a,a-Trifluorotoluene(FID)		% Rec. 104.6	62-128	WG516433	01/07/11 14:42
a,a,a-Trifluorotoluene(PID)		% Rec. 104.7	55-122	WG516433	01/07/11 14 42
Total Solids	< 1	%		WG516442	01/09/11 18:27
Benzene	< .0005	mg/kg		WG516666	01/10/11 12:23
Ethylbenzene	< .0005	mg/kg		WG516666	01/10/11 12 23
Toluene	< .005	mg/kg		WG516666	01/10/11 12:23
Total Xylene	< .0015	mg/kg		WG516666	01/10/11 12:23
a,a,a-Trifluorotoluene(PID)		% Rec. 110.0	54-144	WG516666	01/10/11 12:23

Analyte	Units	Result	Duplicate Duplicate RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	9900	10000 0.904	20	L496367-01	WG516332
Chloride	mg/kg	0	0 0	20	L496422-04	WG516332
Total Solids	%	82.0	81.7 0.413	5	L496544-03	WG516442

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.5	5 56	101	67-135
a,a,a-Trifluorotoluene(FID)				103 5	59-128
Chloride	mg/kg	200	194	97 0	85-115
TPH (GC/FID) High Fraction	ppm	60	45.5	75.8	50-150
o-Terphenyl				76 29	50-150
Benzene	mg/l	.05	0.0518	104	79-114
Ethylbenzene	mg/l	.05	0.0536	107	80-116
Toluene	mg/l	.05	0.0526	105.	79-112
Total Xylene	mg/l	.15	0.168	112.	84-118
a,a,a-Trifluorotoluene(FID)				102 6	62-128
a,a,a-Trifluorotoluene(PID)				100 8	55-122
TPH (GC/FID) Low Fraction	mg/l	5.5	6.37	116	70-124

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L496544

12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est. 1970

January 10, 2011

Analyte	Units	Laboratory Control Sample	Known Val	Result	% Rec	Limit	Batch
a,a,a-Trifluorotoluene (FID)					97.04	62-128	
a,a,a-Trifluorotoluene (PID)					108.6	55-122	
Total Solids	%	50		50.1	100	85-115	WG516442
Benzene	mg/kg	.05		0.0498	99.5	76-113	WG516666
Ethylbenzene	mg/kg	.05		0.0532	106	78-115	WG516666
Toluene	mg/kg	.05		0.0512	102	76-114	WG516666
Total Xylene	mg/kg	.15		0.155	103	81-118	WG516666
a,a,a-Trifluorotoluene (PID)					109.4	54-144	WG516666

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	6.14	5.56	112.		67-135	10.0	20	WG516398
a,a,a-Trifluorotoluene (FID)				105.0		59-128			WG516398
Chloride	mg/kg	190.	194.	95.0		85-115	2.08	20	WG516332
TPH (GC/FID) High Fraction	ppm	44.4	45.5	74.0		50-150	2.38	25	WG516459
o-Terphenyl				71.23		50-150			WG516459
Benzene	mg/l	0.0512	0.0518	102.		79-114	1.18	20	WG516433
Ethylbenzene	mg/l	0.0531	0.0536	106.		80-116	0.930	20	WG516433
Toluene	mg/l	0.0524	0.0526	105.		79-112	0.440	20	WG516433
Total Xylene	mg/l	0.166	0.168	110.		84-118	1.09	20	WG516433
a,a,a-Trifluorotoluene (FID)				104.4		62-128			WG516433
a,a,a-Trifluorotoluene (PID)				102.0		55-122			WG516433
TPH (GC/FID) Low Fraction	mg/l	6.17	6.37	112		70-124	3.15	20	WG516433
a,a,a-Trifluorotoluene (FID)				94.70		62-128			WG516433
a,a,a-Trifluorotoluene (PID)				107.0		55-122			WG516433
Benzene	mg/kg	0.0494	0.0498	99.0		76-113	0.650	20	WG516666
Ethylbenzene	mg/kg	0.0533	0.0532	106.		78-115	0.250	20	WG516666
Toluene	mg/kg	0.0507	0.0512	101		76-114	1.01	20	WG516666
Total Xylene	mg/kg	0.156	0.155	104.		81-118	0.770	20	WG516666
a,a,a-Trifluorotoluene (PID)				108.9		54-144			WG516666

Analyte	Units	MS Res	Matrix Spike	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.00	0	5.5	90.8	55-109		L496463-01	WG516398
a,a,a-Trifluorotoluene (FID)					97.89	59-128			WG516398
Chloride	mg/kg	526	16.0	500	102	80-120		L496422-01	WG516332
TPH (GC/FID) High Fraction	ppm	46.6	4.80	60	69.6	50-150		L496709-01	WG516459
o-Terphenyl					78.02	50-150			WG516459
Benzene	mg/l	0.0492	0	.05	98.5	35-147		L496515-01	WG516433
Ethylbenzene	mg/l	0.0527	0	.05	105	39-141		L496515-01	WG516433
Toluene	mg/l	0.0514	0	.05	103	35-148		L496515-01	WG516433

* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L496544

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D. 62-0814289

Est 1970

January 10, 2011

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Total Xylene	mg/l	0.162	0	15	108	33-151	L496515-01	WG516433
a,a,a-Trifluorotoluene (FID)					102.8	62-128		WG516433
a,a,a-Trifluorotoluene (PID)					101.0	55-122		WG516433
TPH (GC/FID) Low Fraction	mg/l	6.26	0	5.5	114.*	55-109	L496515-01	WG516433
a,a,a-Trifluorotoluene (FID)					94.34	62-128		WG516433
a,a,a-Trifluorotoluene (PID)					104.9	55-122		WG516433
Benzene	mg/kg	0.218	0	05	87.2	32-137	L496544-04	WG516666
Ethylbenzene	mg/kg	0.231	0	05	92.6	10-150	L496544-04	WG516666
Toluene	mg/kg	0.223	0	05	89.2	20-142	L496544-04	WG516666
Total Xylene	mg/kg	0.669	0	15	89.2	16-141	L496544-04	WG516666
a,a,a-Trifluorotoluene (PID)					108.2	54-144		WG516666

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	4.74	5.00	86.1	55-109	5.32	20	L496463-01	WG516398
a,a,a-Trifluorotoluene (FID)				96.20	59-128				WG516398
Chloride	mg/kg	519.	526.	101.	80-120	1.34	20	L496422-01	WG516332
TPH (GC/FID) High Fraction	ppm	54.3	46.6	82.5	50-150	15.3	25	L496709-01	WG516459
o-Terphenyl				86.06	50-150				WG516459
Benzene	mg/l	0.0509	0.0492	102	35-147	3.37	20	L496515-01	WG516433
Ethylbenzene	mg/l	0.0532	0.0527	106	39-141	1.05	20	L496515-01	WG516433
Toluene	mg/l	0.0524	0.0514	105.	35-148	1.86	20	L496515-01	WG516433
Total Xylene	mg/l	0.164	0.162	109.	33-151	0.670	20	L496515-01	WG516433
a,a,a-Trifluorotoluene (FID)				102.8	62-128				WG516433
a,a,a-Trifluorotoluene (PID)				101.2	55-122				WG516433
TPH (GC/FID) Low Fraction	mg/l	6.46	6.26	117.*	55-109	3.22	20	L496515-01	WG516433
a,a,a-Trifluorotoluene (FID)				95.55	62-128				WG516433
a,a,a-Trifluorotoluene (PID)				105.7	55-122				WG516433
Benzene	mg/kg	0.209	0.218	83.4	32-137	4.41	39	L496544-04	WG516666
Ethylbenzene	mg/kg	0.217	0.231	86.9	10-150	6.31	44	L496544-04	WG516666
Toluene	mg/kg	0.211	0.223	84.6	20-142	5.28	42	L496544-04	WG516666
Total Xylene	mg/kg	0.624	0.669	83.2	16-141	7.00	46	L496544-04	WG516666
a,a,a-Trifluorotoluene (PID)				106.8	54-144				WG516666

Batch number / Run number / Sample number cross reference

WG516398 R1529489. L496544-02
WG516332 R1530089. L496544-02 03
WG516459: R1530210. L496544-02
WG516433 R1530649: L496544-01
WG516442. R1532300. L496544-02 03 04
WG516666 R1532409. L496544-04

* * Calculations are performed prior to rounding of reported values
* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L496544

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D 62-0814289

Est 1970

January 10, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



PROJECT Federal Blainett Cam C#1
PROJECT MANAGER _____
JOB No. _____
LOCATION _____

DATE 1/5/11
CONT. No. _____
BY _____ CHK'D _____
SHEET No. _____ OF _____

95LT0038 10/1997

