

3R - ///

REPORTS

DATE:

2005



3R0111
RECEIVED

January 30, 2006

JAN 31 2006

Mr. Glenn von Gonten
Hydrologist – Groundwater Remediation
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Oil Conservation Division
Environmental

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten:

XTO Energy Inc. (XTO) is submitting the Annual Groundwater Remediation Report in accordance with the NMOCD approved Groundwater Management Plan (GMP). Enclosed are summary reports with analytical data, summary tables, site maps, potentiometric surface diagrams and recommendations/proposed actions for:

- | | | | |
|--------------------------|--------|-------------------------|--------|
| • Abrams J #1 | 3R0100 | • Rowland Gas Com #1 | 3R0124 |
| • Bruington Gas Com B #1 | 3R0106 | • Sullivan Gas Com D #1 | 3R0131 |
| • EJ Johnson C #1E | 3R0385 | • Valdez A #1E | 3R0134 |
| • PO Pipken #3E | | | |
| • Romero Gas Com A #1 | 3R0123 | | |

Also enclosed in the third volume of our Annual Report are three sites that meet the closure requirements outlined in the GMP. XTO respectfully requests closure of:

- | | |
|-----------------------|--------|
| • Armenta Gas Com #1E | 3R0394 |
| • Bergin Gas Com #1E | 3R0105 |
| • State Gas Com BS #1 | 3R0127 |

As we discussed this afternoon, several sites are being reviewed to make sure we have a comprehensive set of reports submitted. An extension will be allowed for reports on the remaining sites to be submitted by April 30, 2006.

Thank you for your review of the reports and allowing some flexibility with this years reporting schedule. If you have any questions please do not hesitate to contact me at (505) 566-7942.

Sincerely,

Lisa Winn
Environmental Specialist
San Juan Division

cc: Mr. Denny Foust, Environmental, NMOCD District III Office, Aztec, NM
Mr. Jeff Blagg, Blagg Engineering Inc.
File – San Juan Groundwater

RECEIVED

XTO ENERGY INC.

JAN 31 2006

Oil Conservation Division
Environmental Bureau

ANNUAL GROUNDWATER REMEDIATION REPORT

2005

**GARCIA GC B #1
(J) SECTION 21, T29N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION**

JANUARY 2006

**PREPARED BY:
BLAGG ENGINEERING, INC.**

**Consulting Petroleum / Reclamation Services
P.O. Box 87
Bloomfield, New Mexico 87413**

TABLE OF CONTENTS

Groundwater Monitor Well Sampling Procedures	3
Water Quality and Gradient Information	3
Summary	3

Appendices

Table 1: Summary Groundwater Lab Results

Figure 1-6: Site Diagrams

Field Sampling Data Summaries

Laboratory Reports

XTO Energy Inc.
Garcia GC B # 1 - Blow Pit
NE/4 SE/4 Sec. 29, T29N, R10W

Pit Closure Date:

8/26/93

Monitor Well Installation Dates:

10/20/99(MW 1), 10/27/99(MW 2), 11/10/99(MW 3)

Monitor Well Sampling Dates:

**11/18/99, 3/14/00, 6/05/00, 8/30/00, 3/19/01, 5/16/01,
9/24/01, 6/25/02, 8/27/02, 12/09/02, 6/27/03, 8/25/03,
11/19/03, 3/30/04**

Historical Information:

- August 1993 - Groundwater impacts were discovered during remedial work to close an earthen blow pit (Figure 1). Initial remedial efforts included excavation of impacted soils to groundwater, which was found at 25 - 30 feet below ground surface.
- January 1998 - XTO Energy Inc. (XTO) acquires the Garcia GC B #1 from Amoco Production Company.
- October – November 1999 – Monitor wells were installed to estimate gradient and evaluate water quality following the initial remedial activities.
- November 1999 to present - Quarterly/Annual monitor well sampling and analysis to confirm site closure.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (MW) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed in laboratory supplied containers and stored in a cooler on ice. The samples were delivered to an accredited environmental laboratory according to chain-of-custody procedures. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8021B and general water chemistry per US EPA Method 600/4-79-020. Analytical results are summarized on Table 1. Waste generated (groundwater) during monitor well sampling and development was placed in the produced water separator tank located on the well site.

Water Quality Information:

Groundwater elevation data indicates the groundwater gradient flows predominately in a north-east trend (Figures 2 – 6).

Analytical data indicates monitor well MW 1, located down-gradient from the source area, and up-gradient well MW 3 exhibit BTEX concentrations below New Mexico Water Quality Control Commission (NMWQCC) closure standards for four (4) quarters. Monitor well MW 2, placed in the source area, indicates a possible rebound of the BTEX constituent xylene, which appeared to be above standards by 20 ug/L during the last sample event (640 ug/L, with a closure limit of 620 ug/L). Laboratory analyses show benzene, toluene and ethylbenzene below NMWQCC standards. There has been a long term trend of a decreasing xylene levels over time in well MW 2 and natural attenuation appears to be effective as site remediation.

Summary and/or Recommendations:

Pursuant to the NMOCD approved groundwater management plan, XTO respectfully requests sampling termination of BTEX in MW 1 and MW 3. XTO recommends quarterly sampling of monitor well MW 2 for closure at the end of 2006. Following approval by the NMOCD, site wells will be abandoned pursuant to the approved management plan.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

GARCIA GC B #1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

REVISED: JANUARY 17, 2006

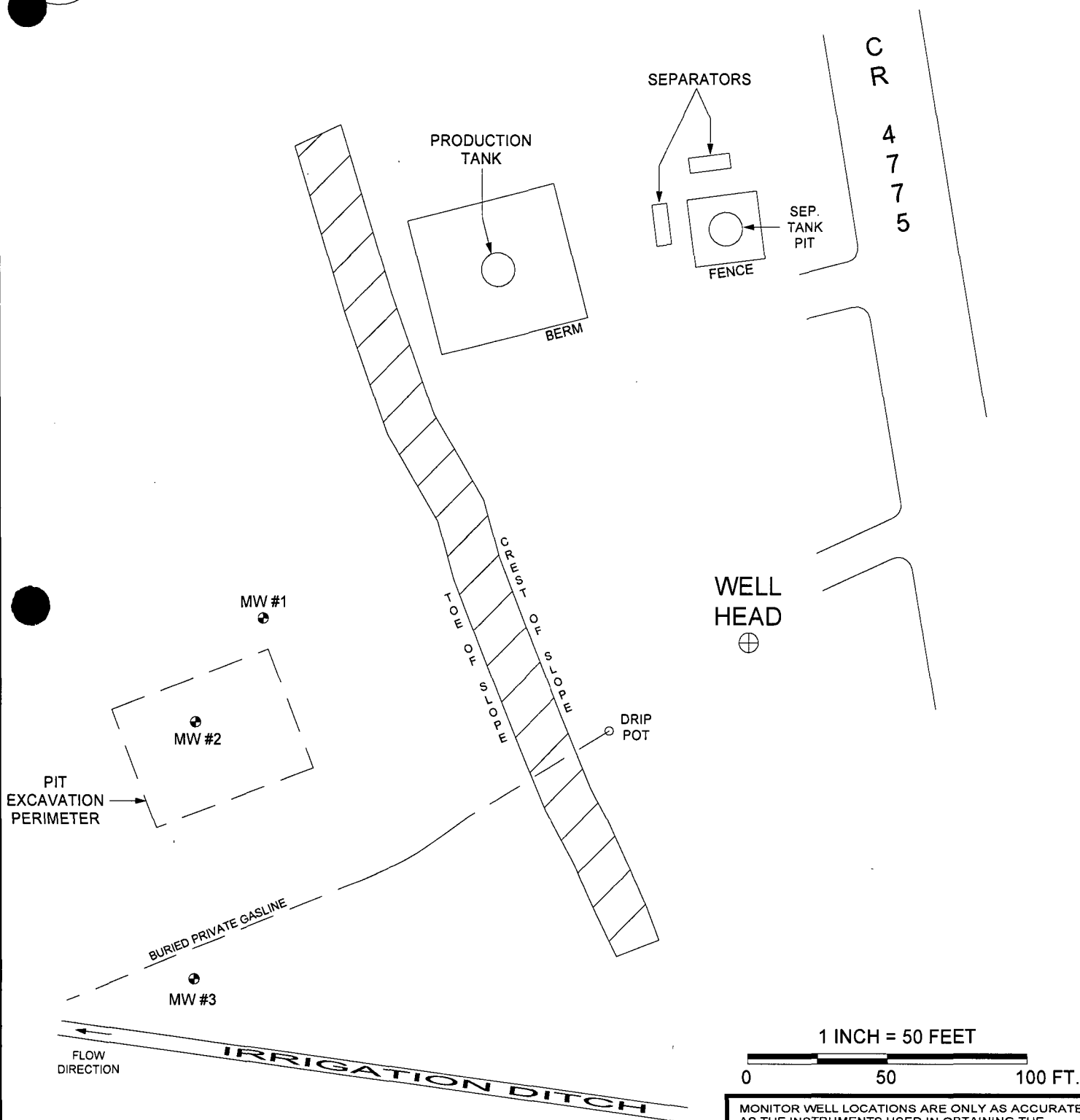
FILENAME: (B1-1Q-04.WK4) NJV

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
18-Nov-99	MW #1	31.06	37.00	306	615	7.3		64.9	46.8	36.7	302.2
14-Mar-00		32.97			600	7.3		1.3	ND	46	303.4
05-Jun-00		29.92			600	7.5		1.5	ND	33	242.4
30-Aug-00		29.24			800	7.5		ND	ND	32	191.1
19-Mar-01		32.86			500	7.45		ND	ND	39	212.6
18-Nov-99	MW #2	27.98	35.00	360	723	7.1		449	104	369	1,454
14-Mar-00		29.83			700	7.1		ND	ND	70	3,800
05-Jun-00		26.60			500	7.1		4.9	14	65	5,405.8
16-May-01		28.64			500	7.22		2.2	ND	47	2,901.3
24-Sep-01		26.82			500	7.41		ND	13	45	3,202.3
25-Jun-02		25.11			800	7.34		ND	7.9	14	460
27-Aug-02		25.73			700	6.89		ND	ND	15	420
09-Dec-02		28.45			500	7.48		ND	8.3	29	1,103.4
27-Jun-03		25.75			500	7.13		ND	ND	ND	330
25-Aug-03		25.34			700	6.88		ND	3.4	6.9	110
19-Nov-03		27.68			500	7.02		ND	ND	17	300
30-Mar-04		29.50			600	7.16		ND	ND	28	640
18-Nov-99	MW #3	27.07	38.00	252	510	7.3		25.8	65.6	158	799
14-Mar-00		28.86			400	7.5		ND	ND	ND	ND
05-Jun-00		25.39			300	7.8		ND	ND	ND	ND
19-Mar-01		28.74			300	7.82		ND	ND	ND	ND
16-May-01		27.49			300	7.71		ND	ND	ND	ND
24-Sep-01		25.77			400	7.88		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

NOTES: 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.

2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PROCEEDING RESULTS EXCEEDED.

FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

XTO ENERGY INC.

GARCIA GC B # 1

NW/4 SE/4 SEC. 21, T29N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

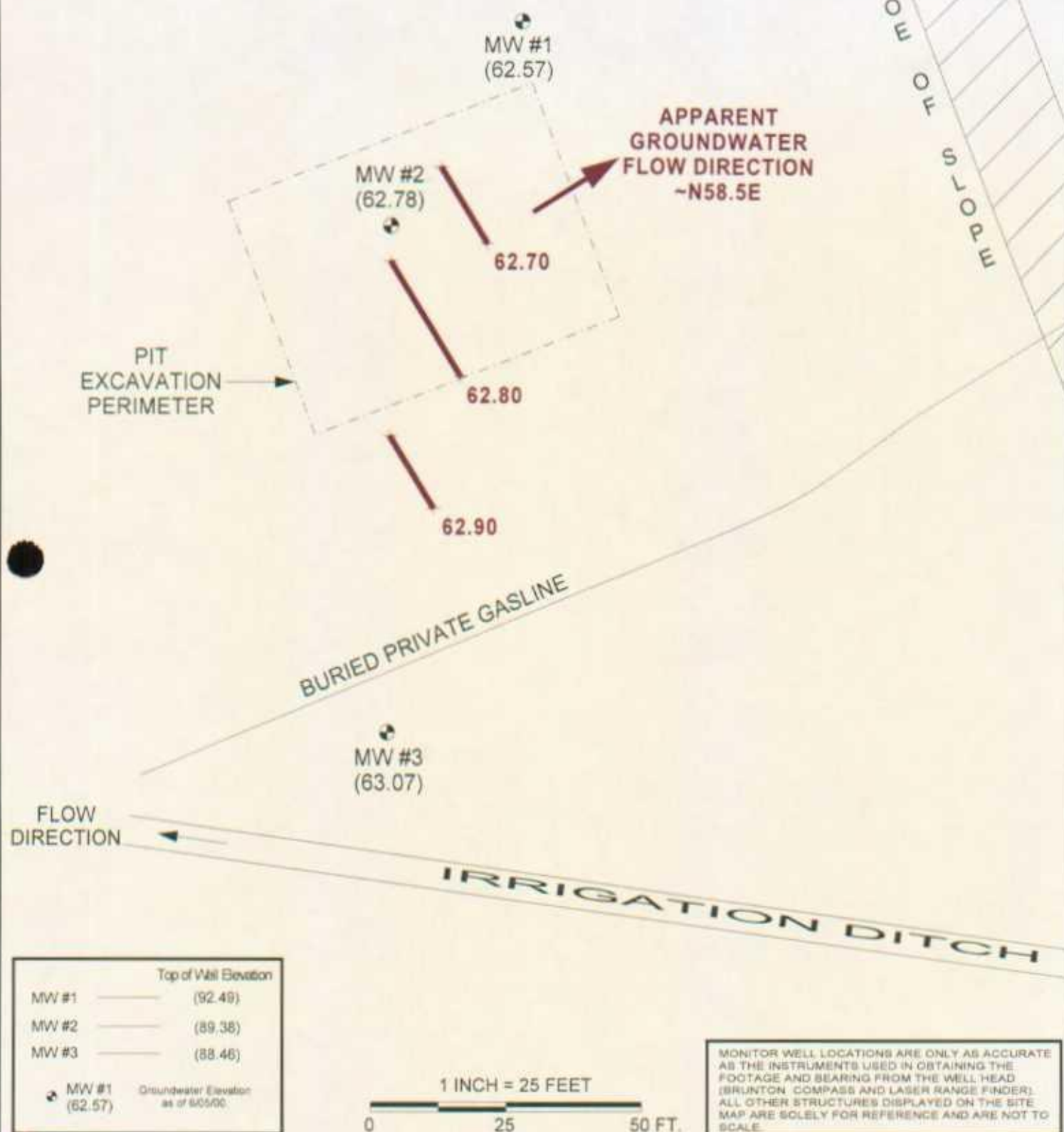
FILENAME: 06-05-00-SM.SKF

REVISED: 11/10/05 NJV

**SITE
MAP**

06/00

FIGURE 2
(2nd 1/4, 2000)



	Top of Well Elevation
MW #1	(92.49)
MW #2	(89.38)
MW #3	(88.46)

MW #1 (62.57) Groundwater Elevation as of 6/05/00

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

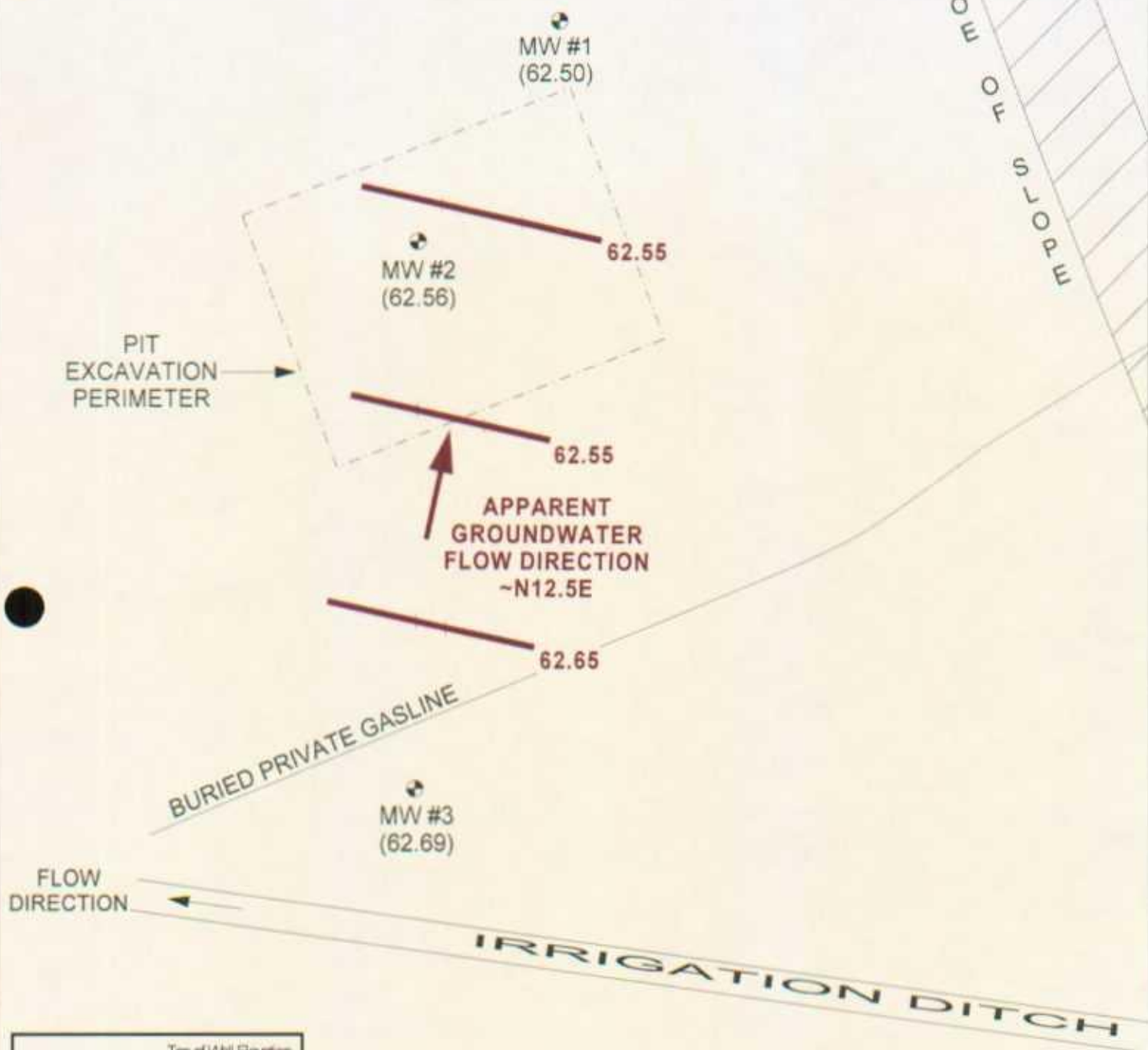
XTO ENERGY INC.
GARCIA GC B # 1
NW/4 SE/4 SEC. 21, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (800) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 06-05-00-GW.SKF
REVISED: 11/11/05 NJV

**GROUNDWATER
GRADIENT
MAP**
06/00

FIGURE 3
(3rd 1/4, 2001)



	Top of Well Elevation
MW #1	(92.49)
MW #2	(89.38)
MW #3	(88.46)

	MW #1	Groundwater Elevation as of 9/24/01.
	(62.50)	

1 INCH = 25 FEET

0 25 50 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

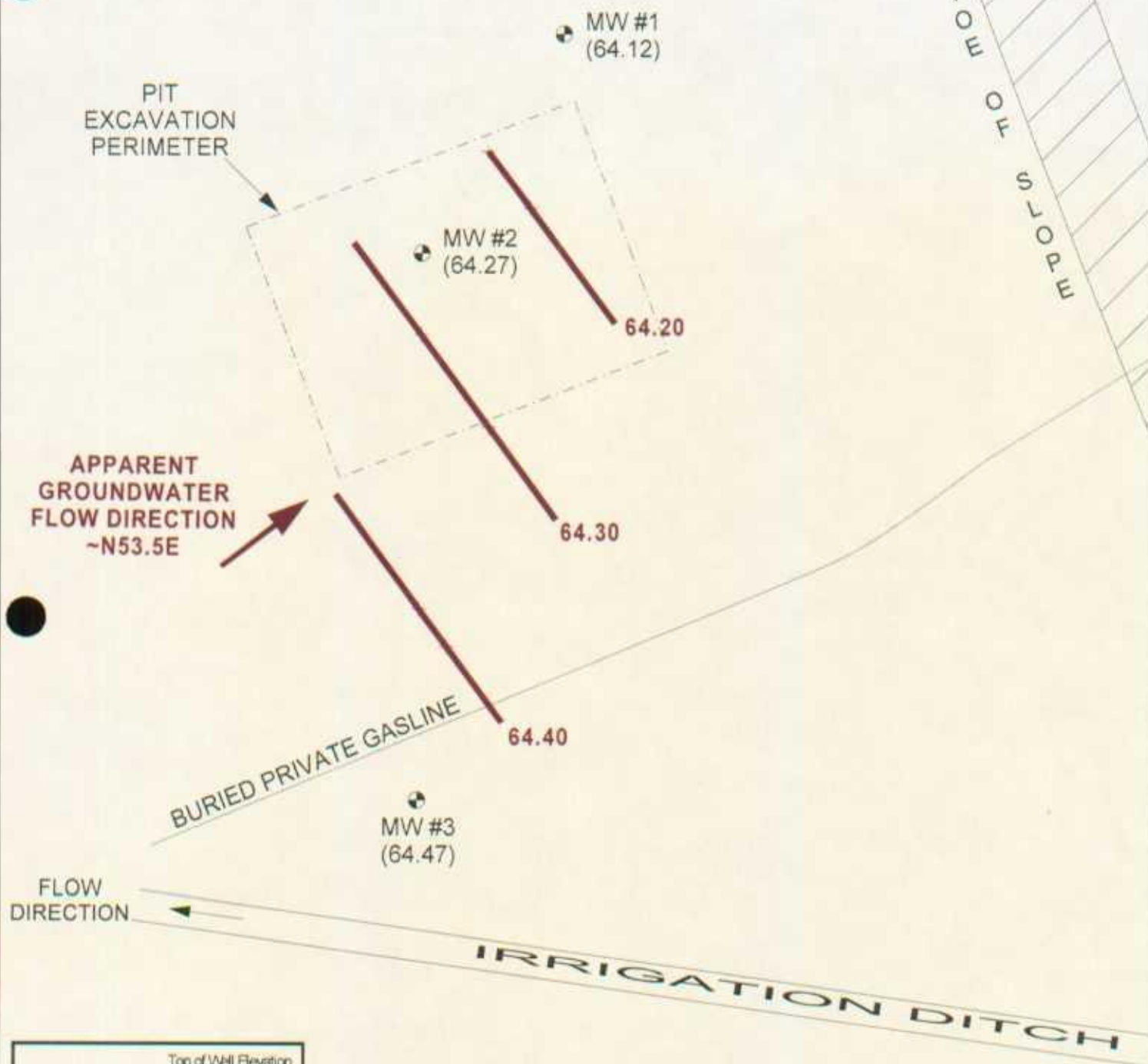
XTO ENERGY INC.
GARCIA GC B # 1
NW/4 SE/4 SEC. 21, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1133

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 09-24-01-GW.SKF
REVISED: 11/11/05 NJV

GROUNDWATER GRADIENT MAP
09/01

FIGURE 4
(2nd 1/4, 2002)



Top of Well Elevation	
MW #1	(92.49)
MW #2	(89.38)
MW #3	(88.46)

MW #1	Groundwater Elevation
(64.12)	as of 6/25/02

1 INCH = 25 FEET
0 25 50 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

XTO ENERGY INC.

GARCIA GC B # 1

NW/4 SE/4 SEC. 21, T29N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 822-1135

PROJECT: MW SAMPLING

DRAWN BY: NJV

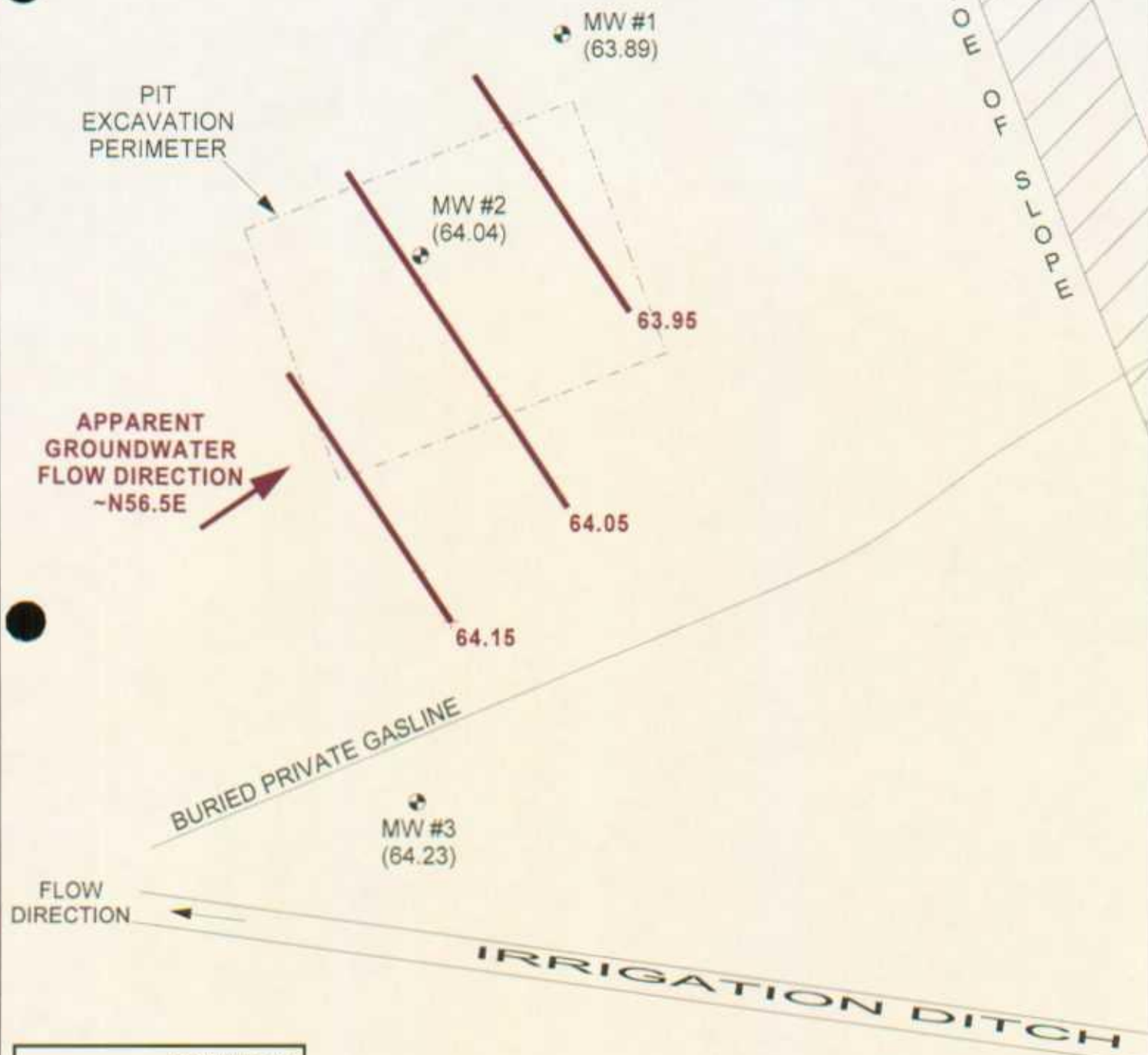
FILENAME: 06-25-02-GW.SKF

REVISED: 11/11/05 NJV

GROUNDWATER
GRADIENT
MAP

06/02

FIGURE 5
(3rd 1/4, 2003)



Top of Well Elevation	
MW #1	(92.49)
MW #2	(89.38)
MW #3	(88.46)

MW #1	Groundwater Elevation as of 6/25/03
(63.89)	

1 INCH = 25 FEET
0 25 50 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

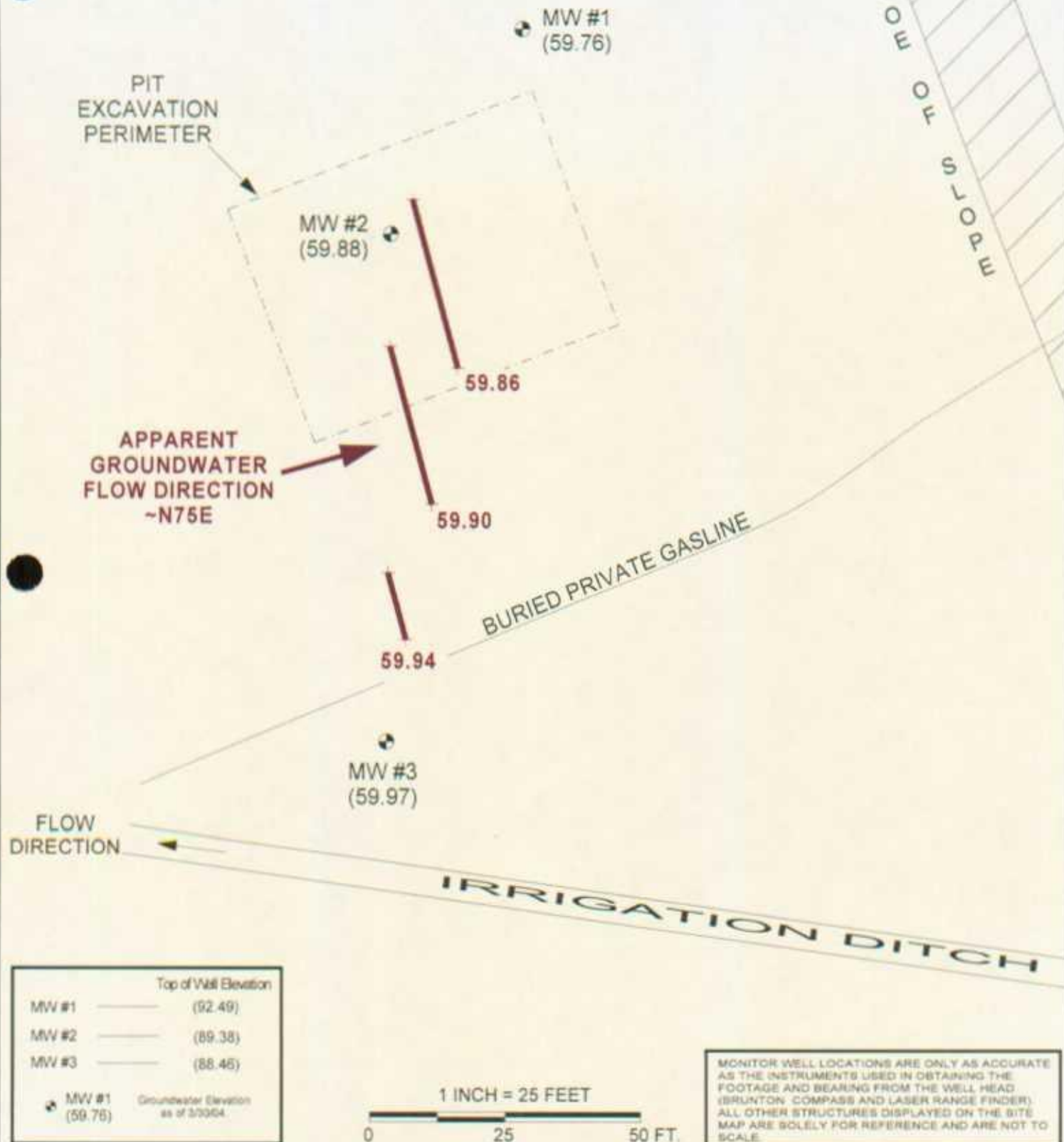
XTO ENERGY INC.
GARCIA GC B # 1
NW/4 SE/4 SEC. 21, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 822-1198

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 08-25-03-GW.SKF
REVISED: 11/11/05 NJV

**GROUNDWATER
GRADIENT
MAP**
08/03

FIGURE 6
(1st 1/4, 2004)



XTO ENERGY INC.
GARCIA GC B # 1
 NW/4 SE/4 SEC. 21, T29N, R10W
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
 CONSULTING PETROLEUM / RECLAMATION SERVICES
 P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413
 PHONE: (800) 632-1199

PROJECT: MW SAMPLING
 DRAWN BY: NJV
 FILENAME: 03-30-04-GW.SKF
 REVISED: 11/11/05 NJV

**GROUNDWATER
 GRADIENT
 MAP**
 03/04

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10368LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : March 14, 2000SAMPLER : N J VFilename : 03-14-00.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	93.79	60.82	32.97	37.00	1255	7.3	600	2.00	-
2	90.66	60.83	29.83	35.00	1240	7.1	700	2.50	-
3	89.69	60.83	28.86	38.00	1205	7.5	400	4.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "Very poor recovery in MW # 1, excellent recovery in #'s 2 & 3 . Collected BTEX
from all MW's listed above .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10593

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : June 5, 2000

SAMPLER : N J V

Filename : 06-05-00.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	62.57	29.92	37.00	1215	7.5	600	3.50	-
2	89.38	62.78	26.60	35.00	1205	7.1	500	4.25	-
3	88.46	63.07	25.39	38.00	1155	7.8	300	6.00	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Collected BTEX from all MW 's except MW # 4 .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10766LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : August 30, 2000SAMPLER : N J VFilename : 08-30-00.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	63.25	29.24	37.00	0820	7.5	800	3.75	-
2	89.38	63.30	26.08	35.00	-	-	-	-	-
3	88.46	63.44	25.02	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Collected BTEX from MW # 1 only .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 11040

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : March 19, 2001

SAMPLER : N J V

Filename : 03-19-01.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	59.63	32.86	37.00	1015	7.45	500	1.25	-
2	89.38	59.66	29.72	35.00	-	-	-	-	-
3	88.46	59.72	28.74	38.00	0930	7.82	300	4.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$

(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Excellent recovery in MW # 3 , poor recovery in MW # 1 . Collected BTEX from MW #'s

1 & 3 . DTW in MW # 1 measured 34.20 ft. @ time of sampling .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OPER. CO.

CHAIN-OF-CUSTODY # : 11047

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : May 16, 2001

SAMPLER : N J V

Filename : 05-16-01.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	60.61	31.88	37.00	-	-	-	-	-
2	89.38	60.74	28.64	35.00	0915	7.22	500	3.25	-
3	88.46	60.97	27.49	38.00	0845	7.71	300	5.25	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Excellent recovery in MW # 3 , fair recovery in MW # 2 . Collected BTEX from MW #'s
2 & 3 .

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : 11156

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : Sept. 24, 2001

SAMPLER : N J V

Filename : 09-24-01.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	62.50	29.99	37.00	-	-	-	-	-
2	89.38	62.56	26.82	35.00	1345	7.41	500	4.00	-
3	88.46	62.69	25.77	38.00	1315	7.88	400	6.00	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW # 3 , fair recovery in MW # 2 . Collected BTEX from MW #'s
2 & 3 .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : XTO ENERGY, INC.CHAIN-OF-CUSTODY # : 11781LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : June 25, 2002SAMPLER : N J VFilename : 06-25-02.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	64.12	28.37	37.00	-	-	-	-	-
2	89.38	64.27	25.11	35.00	0820	7.34	800	5.00	-
3	88.46	64.47	23.99	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "Fair recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : 12151

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : December 9, 2002

SAMPLER : N J V

Filename : 12-09-02.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	60.93	31.56	37.00	-	-	-	-	-
2	89.38	60.93	28.45	35.00	1535	7.48	500	3.25	-
3	88.46	60.90	27.56	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.

(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Fair recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B # 1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 27, 2003

SAMPLER : N J V

Filename : 06-27-03.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	63.39	29.10	37.00	-	-	-	-	-
2	89.38	63.63	25.75	35.00	0650	7.13	500	21.8	4.50
3	88.46	63.91	24.55	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/27/03 06:45

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 "

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B # 1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : August 25, 2003

SAMPLER : N J V

Filename : 08-25-03.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	63.89	28.60	37.00	-	-	-	-	-
2	89.38	64.04	25.34	35.00	0905	6.88	700	19.1	4.75
3	88.46	64.23	24.23	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

08/25/03 0910

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B # 1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : November 19, 2003

SAMPLER : N J V

Filename : 11-19-03.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49		-	37.00	-	-	-	-	-
2	89.38	61.70	27.68	35.00	1505	7.02	500	16.2	3.50
3	88.46		-	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

11/11/03 0730

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Excellent recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**CLIENT : **XTO ENERGY INC.**CHAIN-OF-CUSTODY # : **N / A****GARCIA GC B # 1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W**LABORATORY (S) USED : **HALL ENVIRONMENTAL**Date : **March 30, 2004**SAMPLER : **N J V**Filename : **03-30-04.WK4**PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	59.76	32.73	37.00	-	-	-	-	-
2	89.38	59.88	29.50	35.00	0910	7.16	600	14.5	2.75
3	88.46	59.97	28.49	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00

2,800

DATE & TIME =

03/27/04

0800

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 "Excellent recovery in MW # 2 . Collected BTEX from MW # 2 only .

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10368LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : March 14, 2000SAMPLER : N J VFilename : 03-14-00.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	93.79	60.82	32.97	37.00	1255	7.3	600	2.00	-
2	90.66	60.83	29.83	35.00	1240	7.1	700	2.50	-
3	89.69	60.83	28.86	38.00	1205	7.5	400	4.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.(i.e. 2" MW $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ (i.e. 4" MW $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".Very poor recovery in MW # 1, excellent recovery in #'s 2 & 3 . Collected BTEX
from all MW 's listed above .

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Mar-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B#1
Work Order:	0003023	Client Sample ID:	MW #1
Lab ID:	0003023-01A	Matrix:	AQUEOUS
		Collection Date:	3/14/2000 12:55:00 PM
Project:	Cross Timbers - Garcia GC B#1	COC Record:	10368

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	1.3	0.5		µg/L	1	3/15/2000
Toluene	ND	0.5		µg/L	1	3/15/2000
Ethylbenzene	46	0.5		µg/L	1	3/15/2000
m,p-Xylene	300	1		µg/L	1	3/15/2000
o-Xylene	3.4	0.5		µg/L	1	3/15/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surrogate - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Mar-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B#1
Work Order:	0003023	Client Sample ID:	MW #2
Lab ID:	0003023-02A	Matrix:	AQUEOUS
Project:	Cross Timbers - Garcia GC B#1	Collection Date:	3/14/2000 12:40:00 PM
		COC Record:	10368

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	10		µg/L	20	3/15/2000
Toluene	ND	10		µg/L	20	3/15/2000
Ethylbenzene	70	10		µg/L	20	3/15/2000
m,p-Xylene	3800	20		µg/L	20	3/15/2000
o-Xylene	ND	10		µg/L	20	3/15/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Mar-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B#1
Work Order:	0003023	Client Sample ID:	MW #3
Lab ID:	0003023-03A	Matrix:	AQUEOUS
Project:	Cross Timbers - Garcia GC B#1	Collection Date:	3/14/2000 12:05:00 PM
		COC Record:	10368

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	3/15/2000
Toluene	ND	0.5		µg/L	1	3/15/2000
Ethylbenzene	ND	0.5		µg/L	1	3/15/2000
m,p-Xylene	ND	1		µg/L	1	3/15/2000
o-Xylene	ND	0.5		µg/L	1	3/15/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

.. TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Page: _____ of _____

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
---------------	-----------------	--------------	----------------	--------------------

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L	Analysis Date: 3/15/2000	Prep Date:
Client ID:	0003023	Run ID: GC-1_000315A		SeqNo: 25733	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0611	0.5			J
Ethylbenzene	.0557	0.5			J
m,p-Xylene	.1324	1			J
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.0613	0.5			J
Toluene	.1425	0.5			J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0003009-02AMS		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID:		0003023		Run ID:		GC-1_000315A		SeqNo: 25734			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	764.2	5	400	412.6	87.9%	73	126				
Ethylbenzene	411.4	5	400	23.29	97.0%	88	113				
m,p-Xylene	896.4	10	800	159.8	92.1%	83	112				
Methyl tert-Butyl Ether	391.6	10	400	11.9	94.9%	81	125				
o-Xylene	442.2	5	400	54.56	96.9%	93	110				
Toluene	1031	5	400	697.8	83.3%	76	126				

Sample ID: 0003009-02AMSD		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID:		0003023		Run ID: GC-1_000315A		SeqNo: 25735					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	761.6	5	400	412.6	87.3%	73	126	764.2	0.3%	6	
Ethylbenzene	410.4	5	400	23.29	96.8%	88	113	411.4	0.3%	5	
m,p-Xylene	894.4	10	800	159.8	91.8%	83	112	896.4	0.2%	7	
Methyl tert-Butyl Ether	389.2	10	400	11.9	94.3%	81	125	391.6	0.6%	9	
o-Xylene	448	5	400	54.56	98.4%	93	110	442.2	1.3%	6	
Toluene	1027	5	400	697.8	82.4%	76	126	1031	0.4%	6	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L	Analysis Date 3/15/2000	Prep Date:						
Client ID:	0003023	Run ID: GC-1_000315A		SeqNo: 25732							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.46	0.5	40	0.0611	96.0%	89	112				
Ethylbenzene	39.74	0.5	40	0.0557	99.2%	93	112				
m,p-Xylene	75.1	1	80	0.1324	93.7%	88	108				
Methyl tert-Butyl Ether	37.77	1	40	0	94.4%	87	115				
o-Xylene	39.52	0.5	40	0.0613	98.6%	93	112				
Toluene	39.26	0.5	40	0.1425	97.8%	92	111				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 17-Mar-00

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0001		Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID: 0003023		Run ID: GC-1_000315A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 25729
Analyte	Result								
Benzene	19.42		0.5	20	0	97.1%	85	115	
Ethylbenzene	20.16		0.5	20	0	100.8%	85	115	
m,p-Xylene	37.92		1	40	0	94.8%	85	115	
Methyl tert-Butyl Ether	19.31		1	20	0	96.6%	85	115	
o-Xylene	20.01		0.5	20	0	100.1%	85	115	
Toluene	19.72		0.5	20	0	98.6%	85	115	
1,4-Difluorobenzene	89.27		0	100	0	89.3%	80	105	
4-Bromochlorobenzene	91.42		0	100	0	91.4%	78	108	
Fluorobenzene	86.52		0	100	0	86.5%	78	108	

Sample ID: CCV2 BTEX_0001		Batch ID: GC-1_000315	Test Code: SW8021B	Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID: 0003023		Run ID: GC-1_000315A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 25730
Analyte	Result								
Benzene	18.91		0.5	20	0	94.5%	85	115	
Ethylbenzene	19.64		0.5	20	0	98.2%	85	115	
m,p-Xylene	36.87		1	40	0	92.2%	85	115	
Methyl tert-Butyl Ether	19.99		1	20	0	99.9%	85	115	
o-Xylene	19.64		0.5	20	0	98.2%	85	115	
Toluene	19.31		0.5	20	0	96.6%	85	115	
1,4-Difluorobenzene	89.22		0	100	0	89.2%	80	105	
4-Bromochlorobenzene	91.78		0	100	0	91.8%	78	108	
Fluorobenzene	86.88		0	100	0	86.9%	78	108	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0001		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID:		0003023		Run ID:		GC-1_000315A		SeqNo: 25731			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.02	0.5	40	0	92.5%	85	115				
Ethylbenzene	38.27	0.5	40	0	95.7%	85	115				
m,p-Xylene	72.29	1	80	0	90.4%	85	115				
Methyl tert-Butyl Ether	38.56	1	40	0	96.4%	85	115				
o-Xylene	38.34	0.5	40	0	95.8%	85	115				
Toluene	37.93	0.5	40	0	94.8%	85	115				
1,4-Difluorobenzene	88.56	0	100	0	88.6%	80	105				
4-Bromochlorobenzene	90.53	0	100	0	90.5%	78	108				
Fluorobenzene	86.39	0	100	0	86.4%	78	108				

Sample ID: CCV4 BTEX_0001		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID:		0003023		Run ID:		GC-1_000315A		SeqNo: 25737			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.22	0.5	20	0	96.1%	85	115				
Ethylbenzene	20.19	0.5	20	0	100.9%	85	115				
m,p-Xylene	38.17	1	40	0	95.4%	85	115				
Methyl tert-Butyl Ether	21.83	1	20	0	109.1%	85	115				
o-Xylene	20.06	0.5	20	0	100.3%	85	115				
Toluene	19.79	0.5	20	0	98.9%	85	115				
1,4-Difluorobenzene	88.47	0	100	0	88.5%	80	105				
4-Bromochlorobenzene	92.94	0	100	0	92.9%	78	108				
Fluorobenzene	85.3	0	100	0	85.3%	78	108				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV5 BTEX_0001		Batch ID: GC-1_000315		Test Code: SW8021B		Units: µg/L		Analysis Date 3/15/2000		Prep Date:	
Client ID:		0003023		Run ID:		GC-1_000315A		SeqNo: 25738			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.57	0.5	20	0	92.9%	85	115				
Ethylbenzene	19.4	0.5	20	0	97.0%	85	115				
m,p-Xylene	36.65	1	40	0	91.6%	85	115				
Methyl tert-Butyl Ether	19.18	1	20	0	95.9%	85	115				
o-Xylene	19.34	0.5	20	0	96.7%	85	115				
Toluene	19.12	0.5	20	0	95.6%	85	115				
1,4-Difluorobenzene	87.98	0	100	0	88.0%	80	105				
4-Bromochlorobenzene	93	0	100	0	93.0%	78	108				
Fluorobenzene	85.08	0	100	0	85.1%	78	108				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0003023
Project: Cross Timbers - Garcia GC B#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0003009-02A	86.5	89.8	84.6
0003009-02AMS	85	89.9	83.7
0003009-02AMSD	87.5	92	85.2
0003012-02A	89.2	90.4	86.7
0003013-07A	89.9	90.9	86.8
0003023-01A	85	85.7	92
0003023-02A	88.3	90	85.2
0003023-03A	90.2	90.3	87.4
0003024-01A	90	91	87.3
0003024-02A	90	91.6	87.3
0003024-03A	89.8	91.6	87.4
0003024-04A	89.3	90.8	87.6
0003024-05A	90.1	91.4	87.4
0003024-06A	88.4	91.6	87.5
0003024-07A	90.1	91.1	87.6
0003025-01A	88.6	89.6	86.6
0003026-01A	90	90.5	87.6
CCV1 BTEX_00010	89.3	91.4	86.5
CCV2 BTEX_00010	89.2	91.8	86.9
CCV3 BTEX_00010	88.6	90.5	86.4
CCV4 BTEX_00010	88.5	92.9	85.3
CCV5 BTEX_00010	88	93	85.1
LCS WATER	88.4	91.5	86.2
MBI	90.3	90.4	87.5

Acronym

Surrogate

QC Limits

14FBZ

= 1,4-Difluorobenzene

80-105

4BCBZ

= 4-Bromochlorobenzene

78-108

FLBZ

= Fluorobenzene

78-108

* Surrogate recovery outside acceptance limits

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 04-May-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B#1
Work Order:	0004058	Client Sample ID:	MW-4
Lab ID:	0004058-01A	Matrix:	AQUEOUS
Project:	Cross Timbers Oil Co. Garcia GC B#1	Collection Date:	4/27/2000 9:30:00 AM
		COC Record:	10581

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	63	5		µg/L	10	5/1/2000
Toluene	120	5		µg/L	10	5/1/2000
Ethylbenzene	130	5		µg/L	10	5/1/2000
m,p-Xylene	1400	10		µg/L	10	5/1/2000
o-Xylene	140	5		µg/L	10	5/1/2000

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 04-May-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B#1
Work Order:	0004058	Client Sample ID:	MW-4
Lab ID:	0004058-01B	Matrix:	AQUEOUS
Project:	Cross Timbers Oil Co. Garcia GC B#1	Collection Date:	4/27/2000 9:30:00 AM
		COC Record:	10581

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM, DISSOLVED	E215.1					Analyst: HR
Calcium	42	5		mg/L	20	5/1/2000
IRON, DISSOLVED	E236.1					Analyst: HR
Iron	ND	0.1		mg/L	1	5/1/2000
POTASSIUM, DISSOLVED	E258.1					Analyst: HR
Potassium	3	0.25		mg/L	1	5/1/2000
MAGNESIUM, DISSOLVED	E242.1					Analyst: HR
Magnesium	13	1.2		mg/L	5	5/1/2000
SODIUM, DISSOLVED	E273.1					Analyst: HR
Sodium	61	5		mg/L	20	5/1/2000
ALKALINITY, TOTAL	M2320 B					Analyst: HR
Alkalinity, Bicarbonate (As CaCO3)	280	5		mg/L CaCO3	1	4/28/2000
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	4/28/2000
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	4/28/2000
Alkalinity, Total (As CaCO3)	280	5		mg/L CaCO3	1	4/28/2000
CHLORIDE	E325.3					Analyst: HR
Chloride	4	1		mg/L	1	4/28/2000
HARDNESS, TOTAL	M2340 B					Analyst: HR
Hardness (As CaCO3)	160	1		mg/L	1	5/1/2000
PH	E150.1					Analyst: HR
pH	7.61	2		pH units	1	4/28/2000
RESISTIVITY (@ 25 DEG. C)	M2510 C					Analyst: HR
Resistivity	17.825	0.001		ohm-m	1	4/28/2000
SPECIFIC GRAVITY	M2710 F					Analyst: HR
Specific Gravity	1.000	0.001		Units	1	4/28/2000
SULFATE	M4500-SO4 D					Analyst: HR
Sulfate	25	5		mg/L	1	5/1/2000
TOTAL DISSOLVED SOLIDS	E160.1					Analyst: HR
Total Dissolved Solids (Residue, Filterable)	360	40		mg/L	1	5/2/2000
TOTAL DISSOLVED SOLIDS	CALC					Analyst: HR
Total Dissolved Solids (Calculated)	320	40		mg/L	1	5/1/2000

Qualifiers:
PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Page: _____ of _____

[illegible]

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000501	Test Code: SW8021B	Units: µg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: GC-1_000501A		SeqNo: 27195	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.1023	0.5			J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0004058-01AMS		Batch ID: GC-1_000501		Test Code: SW8021B		Units: µg/L		Analysis Date 5/1/2000		Prep Date:	
Client ID: MW-4		0004058		Run ID: GC-1_000501A				SeqNo: 27196			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4159	50	4000	69.2	102.3%	73	126				
Ethylbenzene	4308	50	4000	144.4	104.1%	88	113				
m,p-Xylene	9211	100	8000	1541	95.9%	83	112				
Methyl tert-Butyl Ether	4104	100	4000	0	102.6%	81	125				
o-Xylene	4242	50	4000	151.8	102.3%	93	110				
Toluene	4242	50	4000	131	102.8%	76	126				

Sample ID: 0004058-01AMS		Batch ID: GC-1_000501		Test Code: SW8021B		Units: µg/L		Analysis Date 5/1/2000		Prep Date:	
Client ID: MW-4		0004058		Run ID: GC-1_000501A				SeqNo: 27197			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4174	50	4000	69.2	102.6%	73	126	4159	0.4%	6	
Ethylbenzene	4301	50	4000	144.4	103.9%	88	113	4308	0.2%	5	
m,p-Xylene	9201	100	8000	1541	95.8%	83	112	9211	0.1%	7	
Methyl tert-Butyl Ether	4134	100	4000	0	103.3%	81	125	4104	0.7%	9	
o-Xylene	4250	50	4000	151.8	102.4%	93	110	4242	0.2%	6	
Toluene	4224	50	4000	131	102.3%	76	126	4242	0.4%	6	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID:	LCS WATER	Batch ID:	GC-1_000501	Test Code:	SW8021B	Units:	µg/L	Analysis Date	5/1/2000	Prep Date:
Client ID:	0004058	Run ID:	GC-1_000501A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 27194
Analyte	Result									
Benzene	40.97			0.5	40	0	102.4%	89	112	
Ethylbenzene	42.36			0.5	40	0	105.9%	93	112	
m,p-Xylene	79.2			1	80	0	99.0%	88	108	
Methyl tert-Butyl Ether	41.52			1	40	0	103.8%	87	115	
o-Xylene	41.66			0.5	40	0	104.1%	93	112	
Toluene	41.46			0.5	40	0.1023	103.4%	92	111	
										%RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000501	Test Code: SW8021B		Units: µg/L	Analysis Date 5/1/2000				Prep Date:	
Client ID:		0004058	Run ID:	GC-1_000501A							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.48	0.5	20	0	107.4%	85	115				
Ethylbenzene	21.95	0.5	20	0	109.8%	85	115				
m,p-Xylene	40.66	1	40	0	101.7%	85	115				
Methyl tert-Butyl Ether	21.04	1	20	0	105.2%	85	115				
o-Xylene	21.58	0.5	20	0	107.9%	85	115				
Toluene	21.01	0.5	20	0	105.1%	85	115				
1,4-Difluorobenzene	90.78	0	100	0	90.8%	80	105				
4-Bromochlorobenzene	87.22	0	100	0	87.2%	78	108				
Fluorobenzene	91.26	0	100	0	91.3%	78	108				

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000501	Test Code: SW8021B	Units: µg/L		Analysis Date 5/1/2000			Prep Date:			
Client ID: 0004058		Run ID: GC-1_000501A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	21.34		0.5	20	0	106.7%	85	115				
Ethylbenzene	22.08		0.5	20	0	110.4%	85	115				
m,p-Xylene	40.55		1	40	0	101.4%	85	115				
Methyl tert-Butyl Ether	21.36		1	20	0	106.8%	85	115				
o-Xylene	21.72		0.5	20	0	108.6%	85	115				
Toluene	21.2		0.5	20	0	106.0%	85	115				
1,4-Difluorobenzene	90.62		0	100	0	90.6%	80	105				
4-Bromochlorobenzene	87.39		0	100	0	87.4%	78	108				
Fluorobenzene	90.48		0	100	0	90.5%	78	108				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0004057-01A	90.1	88.8	90.7
0004058-01A	89.4	86.3	90.1
0004058-01AMS	89.6	87.5	89.4
0004058-01AMSD	89.7	86.7	89.8
0005003-01A	90.6	87.2	90.8
0005003-02A	89.7	87.5	90.2
0005003-03A	90.7	88.1	91.1
0005003-04A	90.6	86.5	90.7
0005003-05A	90.2	86.1	90.7
CCV1 BTEX_00040	90.8	87.2	91.3
CCV2 BTEX_00040	90.6	87.4	90.5
LCS WATER	89.7	88.4	89.5
MBI	89.9	87.5	89.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: API_000428	Test Code: E325.3	Units: mg/L	Analysis Date: 4/28/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428D			SeqNo: 27146	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	ND	1			

Sample ID: MBlank	Batch ID: API_000428	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 4/28/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428E			SeqNo: 27159	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Bicarbonate (As CaCO3)	2.2	5			J
Alkalinity, Carbonate (As CaCO3)	ND	5			
Alkalinity, Hydroxide	ND	5			
Alkalinity, Total (As CaCO3)	2.2	5			J

Sample ID: MBlank	Batch ID: API_000428	Test Code: M4500-SO4 D	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428F			SeqNo: 27170	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sulfate	ND	5			

Sample ID: MBlank	Batch ID: API_000428	Test Code: E160.1	Units: mg/L	Analysis Date: 5/2/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428H			SeqNo: 27246	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtra	ND	40			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0004058-01BD	Batch ID: API_000428	Test Code: E325.3	Units: mg/L	Analysis Date: 4/28/2000	Prep Date:
Client ID: MW-4	0004058	Run ID: WET CHEM_000428D		SeqNo: 27149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Chloride	3.8	1	0	0	0.0%
				RPD Ref Val	%RPD RPDLimit Qual
				4	5.1% 10

Sample ID: 0004058-01BD	Batch ID: API_000428	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 4/28/2000	Prep Date:
Client ID: MW-4	0004058	Run ID: WET CHEM_000428E		SeqNo: 27162	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Alkalinity, Bicarbonate (As CaCO3)	274	5	0	0	0.0%
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%
Alkalinity, Hydroxide	ND	5	0	0	0.0%
Alkalinity, Total (As CaCO3)	274	5	0	0	0.0%
				RPD Ref Val	%RPD RPDLimit Qual
				281	2.5% 4
				0	0.0% 4
				0	0.0% 4
				281	2.5% 4

Sample ID: 0004058-01BD	Batch ID: API_000428	Test Code: M4500-SO4 D	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID: MW-4	0004058	Run ID: WET CHEM_000428F		SeqNo: 27173	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Sulfate	22.2	5	0	0	0.0%
				RPD Ref Val	%RPD RPDLimit Qual
				24.7	10.7% 6 R

Sample ID: 0004058-01BD	Batch ID: API_000428	Test Code: E160.1	Units: mg/L	Analysis Date: 5/2/2000	Prep Date:
Client ID: MW-4	0004058	Run ID: WET CHEM_000428H		SeqNo: 27249	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Total Dissolved Solids (Residue, Filtra	386	40	0	0	0.0%
				RPD Ref Val	%RPD RPDLimit Qual
				362	6.4% 5 R

Qualifiers: NID - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: API_000428	Test Code: E325.3	Units: mg/L	Analysis Date 4/28/2000	Prep Date:
Client ID:	0004058	Run ID: WET CHEM_000428D		SeqNo: 27147	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	91.7	1	91.2	0	100.5% 83 113

Sample ID: LCS	Batch ID: API_000428	Test Code: E160.1	Units: mg/L	Analysis Date 5/2/2000	Prep Date:
Client ID:	0004058	Run ID: WET CHEM_000428H		SeqNo: 27247	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera	832	40	810	0	102.7% 88 105

Sample ID: LCS 3018	Batch ID: API_000428	Test Code: E150.1	Units: pH units	Analysis Date 4/28/2000	Prep Date:
Client ID:	0004058	Run ID: WET CHEM_000428A		SeqNo: 27138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
pH	8.917	2	9.08	0	98.2% 97 102

Sample ID: LCS 3018	Batch ID: API_000428	Test Code: E150.1	Units: pH units	Analysis Date 4/28/2000	Prep Date:
Client ID:	0004058	Run ID: WET CHEM_000428A		SeqNo: 27140	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
pH	8.922	2	9.08	0	98.3% 97 102

Sample ID: LCS 3018	Batch ID: API_000428	Test Code: M2510 C	Units: ohm-m	Analysis Date 4/28/2000	Prep Date:
Client ID:	0004058	Run ID: WET CHEM_000428B		SeqNo: 27142	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Resistivity	10.75	0.001	10.81	0	99.5% 80 120

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT Laboratory Control Spike - generic

Sample ID: LCS 3018	Batch ID: API_000428	Test Code: M2510 C	Units: ohm-m	Analysis Date 4/28/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428B	PQL	SPK value	SeqNo: 27144	
Analyte	Result	10.74	0.001	LowLimit HighLimit	%REC
Resistivity				80	120
Sample ID: LCS 3018	Batch ID: API_000428	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date 4/28/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428E	PQL	SPK value	SeqNo: 27160	
Analyte	Result	206	5	LowLimit HighLimit	%REC
Alkalinity, Total (As CaCO3)				89	109
Sample ID: LCS 3018	Batch ID: API_000428	Test Code: M4500-SO4 D	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: 0004058	Run ID: WET CHEM_000428F	PQL	SPK value	SeqNo: 27171	
Analyte	Result	69.4	5	LowLimit HighLimit	%REC
Sulfate				80	120

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: AA_000501	Test Code: E273.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501A		SeqNo: 27198	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sodium	ND	0.25			
Sample ID: MBlank	Batch ID: AA_000501	Test Code: E215.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501B		SeqNo: 27205	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	ND	0.25			
Sample ID: MBlank	Batch ID: AA_000501	Test Code: E242.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501C		SeqNo: 27219	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Magnesium	ND	0.25			
Sample ID: MBlank	Batch ID: AA_000501	Test Code: E258.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501D		SeqNo: 27226	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Potassium	.02				
Sample ID: MBlank	Batch ID: AA_000501	Test Code: E236.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501E		SeqNo: 27233	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	0.1			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0004050-02BMS	Batch ID: AA_000501	Test Code: E273.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: 0004058	Run ID: AA_000501A	SeqNo: 27202			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Sodium	1188	50	800	390	99.8%
				84	118
Sample ID: 0004058-01BMS	Batch ID: AA_000501	Test Code: E215.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: MW-4	Run ID: AA_000501B	SeqNo: 27210			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Calcium	62.4	5	20	42	102.0%
				90	126
Sample ID: 0004058-01BMS	Batch ID: AA_000501	Test Code: E242.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: MW-4	Run ID: AA_000501C	SeqNo: 27224			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Magnesium	17.9	1.2	5	12.7	104.0%
				84	131
Sample ID: 0004058-01BMS	Batch ID: AA_000501	Test Code: E258.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: MW-4	Run ID: AA_000501D	SeqNo: 27231			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Potassium	5.24	0.25	2	3.05	109.5%
				51	167
Sample ID: 0004058-01BMS	Batch ID: AA_000501	Test Code: E236.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID: MW-4	Run ID: AA_000501E	SeqNo: 27238			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Iron	1.98	0.1	2	0	99.0%
				80	136

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-May-00

CLIENT: Blagg Engineering

Work Order: 0004058

Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1	Batch ID: AA_000501	Test Code: E273.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501A		SeqNo: 27199	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sodium	2.93	0.25	3.06	0	95.8% 90 110

Sample ID: CCV1	Batch ID: AA_000501	Test Code: E215.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501B		SeqNo: 27206	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	3.23	0.25	3.42	0	94.4% 90 110

Sample ID: CCV1	Batch ID: AA_000501	Test Code: E242.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501C		SeqNo: 27220	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Magnesium	1.33	0.25	1.24	0	107.3% 90 110

Sample ID: CCV1	Batch ID: AA_000501	Test Code: E258.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501D		SeqNo: 27227	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Potassium	3.57	0.25	3.63	0	98.3% 90 110

Sample ID: CCV1	Batch ID: AA_000501	Test Code: E236.1	Units: mg/L	Analysis Date 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501E		SeqNo: 27234	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	1.99	0.1	2	0	99.5% 90 110

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0004058
Project: Cross Timbers Oil Co. Garcia GC B#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV2	Batch ID: AA_000501	Test Code: E273.1	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501A		SeqNo: 27204	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Sodium	2.9	0.25	3.06	0	94.8%
					90
					110
Sample ID: CCV2	Batch ID: AA_000501	Test Code: E215.1	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501B		SeqNo: 27211	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Calcium	3.2	0.25	3.42	0	93.6%
					90
					110
Sample ID: CCV2	Batch ID: AA_000501	Test Code: E242.1	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501C		SeqNo: 27225	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Magnesium	1.32	0.25	1.24	0	106.5%
					90
					110
Sample ID: CCV2	Batch ID: AA_000501	Test Code: E258.1	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501D		SeqNo: 27232	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Potassium	3.6	0.25	3.63	0	99.2%
					90
					110
Sample ID: CCV2	Batch ID: AA_000501	Test Code: E236.1	Units: mg/L	Analysis Date: 5/1/2000	Prep Date:
Client ID:	0004058	Run ID: AA_000501E		SeqNo: 27239	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Iron	2	0.1	2	0	100.0%
					90
					110

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10593

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : June 5, 2000

SAMPLER : N J V

Filename : 06-05-00.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	62.57	29.92	37.00	1215	7.5	600	3.50	-
2	89.38	62.78	26.60	35.00	1205	7.1	500	4.25	-
3	88.46	63.07	25.39	38.00	1155	7.8	300	6.00	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$

(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Collected BTEX from all MW's except MW # 4 .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 20-Jun-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0006007	Client Sample ID:	MW #1
Lab ID:	0006007-01A	Matrix:	AQUEOUS
Project:	Cross Timbers - Garcia GC B #1	Collection Date:	6/5/2000 12:15:00 PM
		COC Record:	10593

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	1.5	0.5		µg/L	1	6/11/2000
Toluene	ND	0.5		µg/L	1	6/11/2000
Ethylbenzene	33	0.5		µg/L	1	6/11/2000
m,p-Xylene	240	1		µg/L	1	6/11/2000
o-Xylene	2.4	0.5		µg/L	1	6/11/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 20-Jun-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0006007	Client Sample ID:	MW #2
Lab ID:	0006007-02A	Matrix:	AQUEOUS
Project:	Cross Timbers - Garcia GC B #1	Collection Date:	6/5/2000 12:05:00 PM
		COC Record:	10593

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
m,p-Xylene	5400	20		µg/L	20	6/11/2000
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	4.9	2.5		µg/L	5	6/12/2000
Toluene	14	2.5		µg/L	5	6/12/2000
Ethylbenzene	65	2.5		µg/L	5	6/12/2000
o-Xylene	5.8	2.5		µg/L	5	6/12/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 20-Jun-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0006007	Client Sample ID:	MW #3
Lab ID:	0006007-03A	Matrix:	AQUEOUS
Project:	Cross Timbers - Garcia GC B #1	Collection Date:	6/5/2000 11:55:00 AM
		COC Record:	10593

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/11/2000
Toluene	ND	0.5		µg/L	1	6/11/2000
Ethylbenzene	ND	0.5		µg/L	1	6/11/2000
m,p-Xylene	ND	1		µg/L	1	6/11/2000
o-Xylene	ND	0.5		µg/L	1	6/11/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Page: _____ of _____

[illegible]

Distribution; White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
-------------------------------	--------------	----------------	--------------------

On Site Technologies, LTD.

Date: 20-Jun-00

CLIENT: Blagg Engineering
Work Order: 0006007
Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000	Prep Date:
Client ID:	0006007	Run ID: GC-1_000611A		SeqNo: 28499	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0637	0.5			J
Ethylbenzene	.0623	0.5			J
m,p-Xylene	.1196	1			J
Methyl tert-Butyl Ether	ND	1			J
o-Xylene	.0999	0.5			J
Toluene	.1549	0.5			J

Sample ID: MB1	Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000	Prep Date:
Client ID:	0006007	Run ID: GC-1_000612A		SeqNo: 28526	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0396	0.5			J
Ethylbenzene	.0711	0.5			J
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.0739	0.5			J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 20-Jun-00

CLIENT: Blagg Engineering

Work Order: 0006007

Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006013-03AMS	Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000	Prep Date:
Client ID: 0006007	Run ID: GC-1_000611A	PQL	SPK value	SeqNo: 28500	
Analyte	Result			LowLimit	HighLimit
Benzene	6433	50	4000	73	126
Ethylbenzene	4675	50	4000	88	113
m,p-Xylene	10100	100	8000	83	112
Methyl tert-Butyl Ether	4145	100	4000	81	125
o-Xylene	4492	50	4000	93	110
Toluene	6509	50	4000	76	126
				%REC	RPD Ref Val
				101.6%	
				99.9%	
				98.5%	
				97.2%	
				101.3%	
				102.0%	
				%RPD	RPDLimit Qual

Sample ID: 0006013-03AMS	Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000	Prep Date:
Client ID: 0006007	Run ID: GC-1_000611A	PQL	SPK value	SeqNo: 28501	
Analyte	Result			LowLimit	HighLimit
Benzene	6267	50	4000	73	126
Ethylbenzene	4556	50	4000	88	113
m,p-Xylene	9862	100	8000	83	112
Methyl tert-Butyl Ether	4095	100	4000	81	125
o-Xylene	4403	50	4000	93	110
Toluene	6349	50	4000	76	126
				%REC	RPD Ref Val
				97.5%	6433
				96.9%	4675
				95.4%	10100
				95.9%	4145
				99.1%	4492
				98.0%	6509
				%RPD	RPDLimit Qual
				2.6%	6
				2.6%	5
				2.4%	7
				1.2%	9
				2.0%	6
				2.5%	6

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006007
Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0006020-02AMS	Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000	Prep Date:
Client ID: 0006007	Run ID: GC-1_000612A	PQL	SPK value	SeqNo: 28527	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	205.6	2.5	13	73	126
Ethylbenzene	187.4	2.5	9	88	113
m,p-Xylene	402.1	5	20	83	112
Methyl tert-Butyl Ether	208.2	5	2	81	125
o-Xylene	207.5	2.5	11	93	110
Toluene	206.7	2.5	10	76	126

Sample ID: 0006020-02AMSD	Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000	Prep Date:
Client ID: 0006007	Run ID: GC-1_000612A	PQL	SPK value	SeqNo: 28528	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	204	2.5	13	73	126
Ethylbenzene	182.8	2.5	9	88	113
m,p-Xylene	397.9	5	20	83	112
Methyl tert-Butyl Ether	211.9	5	2	81	125
o-Xylene	209	2.5	11	93	110
Toluene	205.1	2.5	10	76	126

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 20-Jun-00

CLIENT: Blagg Engineering

Work Order: 0006007

Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000		Prep Date:				
Client ID:	0006007	Run ID:	GC-1_000611A		SeqNo:	28498					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41	0.5	40	0.0637	102.3%	89	112				
Ethylbenzene	40.91	0.5	40	0.0623	102.1%	93	112				
m,p-Xylene	80.6	1	80	0.1196	100.6%	88	108				
Methyl tert-Butyl Ether	41.85	1	40	0	104.6%	87	115				
o-Xylene	41.25	0.5	40	0.0999	102.9%	93	112				
Toluene	41.21	0.5	40	0.1549	102.6%	92	111				

Sample ID: LCS WATER		Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000		Prep Date:						
Client ID:	0006007	Run ID:	GC-1_000612A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	39.93			0.5	40	0.0396	99.7%	89	112				
Ethylbenzene	40.45			0.5	40	0.0711	100.9%	93	112				
m,p-Xylene	78.29			1	80	0	97.9%	88	108				
Methyl tert-Butyl Ether	39.47			1	40	0	98.7%	87	115				
o-Xylene	40.59			0.5	40	0	101.5%	93	112				
Toluene	40.4			0.5	40	0.0739	100.8%	92	111				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 20-Jun-00

CLIENT: Blagg Engineering

Work Order: 0006007

Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000611		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:	
Client ID: 0006007		Run ID: GC-1_000611A		PQL		SPK value		SeqNo: 28495			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20	0.5	20	0	100.0%	85	115				
Ethylbenzene	20.1	0.5	20	0	100.5%	85	115				
m,p-Xylene	39.34	1	40	0	98.4%	85	115				
Methyl tert-Butyl Ether	20.51	1	20	0	102.6%	85	115				
o-Xylene	20.32	0.5	20	0	101.6%	85	115				
Toluene	20.15	0.5	20	0	100.7%	85	115				
1,4-Difluorobenzene	90.27	0	100	0	90.3%	80	105				
4-Bromochlorobenzene	86.68	0	100	0	86.7%	78	108				
Fluorobenzene	90.45	0	100	0	90.4%	78	108				

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000611		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:	
Client ID: 0006007		Run ID: GC-1_000611A		PQL		SPK value		SeqNo: 28496			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.73	0.5	20	0	98.6%	85	115				
Ethylbenzene	19.78	0.5	20	0	98.9%	85	115				
m,p-Xylene	38.53	1	40	0	96.3%	85	115				
Methyl tert-Butyl Ether	20.32	1	20	0	101.6%	85	115				
o-Xylene	20.12	0.5	20	0	100.6%	85	115				
Toluene	19.9	0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	89.99	0	100	0	90.0%	80	105				
4-Bromochlorobenzene	82.9	0	100	0	82.9%	78	108				
Fluorobenzene	89.18	0	100	0	89.2%	78	108				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0006007

Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000611		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:	
Client ID: 0006007		Run ID: GC-1_000611A		PQL		SPK value		SeqNo: 28497			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.22	0.5	40	0	105.6%	85	115				
Ethylbenzene	42.32	0.5	40	0	105.8%	85	115				
m,p-Xylene	82.02	1	80	0	102.5%	85	115				
Methyl tert-Butyl Ether	41.88	1	40	0	104.7%	85	115				
o-Xylene	42.6	0.5	40	0	106.5%	85	115				
Toluene	42.54	0.5	40	0	106.3%	85	115				
1,4-Difluorobenzene	89.76	0	100	0	89.8%	80	105				
4-Bromochlorobenzene	87.82	0	100	0	87.8%	78	108				
Fluorobenzene	88.91	0	100	0	88.9%	78	108				

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:	
Client ID: 0006007		Run ID: GC-1_000612A		PQL		SPK value		SeqNo: 28522			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.04	0.5	20	0	100.2%	85	115				
Ethylbenzene	20.53	0.5	20	0	102.6%	85	115				
m,p-Xylene	39.53	1	40	0	98.8%	85	115				
Methyl tert-Butyl Ether	20.16	1	20	0	100.8%	85	115				
o-Xylene	20.7	0.5	20	0	103.5%	85	115				
Toluene	20.42	0.5	20	0	102.1%	85	115				
1,4-Difluorobenzene	89.79	0	100	0	89.8%	80	105				
4-Bromochlorobenzene	87	0	100	0	87.0%	78	108				
Fluorobenzene	88.66	0	100	0	88.7%	78	108				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006007
Project: Cross Timbers - Garcia GC B #1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:	
Client ID: 0006007		Run ID: 0006007		PQL		SPK value		SeqNo: 28523			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.98	0.5	20	0	99.9%	85	115				
Ethylbenzene	20.48	0.5	20	0	102.4%	85	115				
m,p-Xylene	39.64	1	40	0	99.1%	85	115				
Methyl tert-Butyl Ether	21.55	1	20	0	107.7%	85	115				
o-Xylene	20.81	0.5	20	0	104.1%	85	115				
Toluene	20.38	0.5	20	0	101.9%	85	115				
1,4-Difluorobenzene	89.68	0	100	0	89.7%	80	105				
4-Bromochlorobenzene	87.48	0	100	0	87.5%	78	108				
Fluorobenzene	88.1	0	100	0	88.1%	78	108				

Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:	
Client ID: 0006007		Run ID: 0006007		PQL		SPK value		SeqNo: 28524			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.97	0.5	40	0	99.9%	85	115				
Ethylbenzene	40.46	0.5	40	0	101.1%	85	115				
m,p-Xylene	77.8	1	80	0	97.3%	85	115				
Methyl tert-Butyl Ether	41.57	1	40	0	103.9%	85	115				
o-Xylene	40.92	0.5	40	0	102.3%	85	115				
Toluene	40.55	0.5	40	0	101.4%	85	115				
1,4-Difluorobenzene	89.34	0	100	0	89.3%	80	105				
4-Bromochlorobenzene	86.73	0	100	0	86.7%	78	108				
Fluorobenzene	88.11	0	100	0	88.1%	78	108				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0006007
Project: Cross Timbers - Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006005-11A	90.6	84.7	104
0006005-12A	89.3	82.6	88.4
0006006-01A	90.7	81.9	89.5
0006006-02A	90.7	85.4	90.3
0006006-03A	90.6	85	90.1
0006006-04A	90.1	81.5	89.5
0006006-05A	90.4	83.8	89.7
0006007-01A	82.5	84.3	96.4
0006007-02A	89.8	86.6	90.9
0006007-03A	90.2	84.2	90.2
0006012-01A	90.8	85.3	89.9
0006012-02A	90.7	88.4	90.8
0006012-03A	89.5	86	88.3
0006013-01A	90.6	85.2	89.9
0006013-02A	90.8	84.6	90.2
0006013-03A	89.7	82.5	89.1
0006013-03AMS	89.3	83.2	89
0006013-03AMSD	89.5	82.5	89
0006013-04A	90.6	85.1	89.2
0006013-05A	90.2	83.5	90
0006013-06A	87.8	85.3	87
0006020-02AMS	88.2	85.1	87
0006020-02AMSD	88	84.6	87
0006021-01A	83.6	86.2	83.8
0006021-02A	88.7	83.6	87
0006021-03A	88	87.2	87
0006021-04A	87.7	81.5	86.4

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0006007
Project: Cross Timbers - Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006021-05A	88.2	83.7	87.1
0006021-06A	89.9	84.1	88.8
0006021-07A	90.2	84	88.6
0006021-08A	87.2	84.7	86.5
0006021-09A	90.1	83.5	88.5
0006021-10A	86.4	84.3	85.6
0006023-01A	90.8	85.2	90
0006023-02A	90	85.6	89.1
0006023-03A	89.9	86	89.1
0006023-04A	90	86.1	88.7
0006023-05A	90.1	86.2	89.1
0006023-06A	90.4	86.8	89.1
0006026-02A	87.2	83.4	86.2
CCV1 BTEX_00040	89.8	87	88.6
CCV2 BTEX_00040	89.7	87.5	88.1
CCV3 BTEX_00040	89.3	86.7	88.1
LCS WATER	89.4	87.6	88.4
MBI	90.1	86.4	89.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OIL CO.CHAIN-OF-CUSTODY # : 10766LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : August 30, 2000SAMPLER : N J VFilename : 08-30-00.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	63.25	29.24	37.00	0820	7.5	800	3.75	-
2	89.38	63.30	26.08	35.00	-	-	-	-	-
3	88.46	63.44	25.02	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".Collected BTEX from MW # 1 only .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 07-Sep-00

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0008051	Client Sample ID:	MW #1
Lab ID:	0008051-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Garcia GC B #1	Collection Date:	8/30/2000 8:20:00 AM
		COC Record:	10766

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	8/31/2000
Toluene	ND	0.5		µg/L	1	8/31/2000
Ethylbenzene	32	0.5		µg/L	1	8/31/2000
m,p-Xylene	190	1		µg/L	1	8/31/2000
o-Xylene	1.1	0.5		µg/L	1	8/31/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: _____ of _____
Page: _____ of _____

Purchase Order No.:		Project No.:		Name: <u>Goldenrod</u>		Title:	
SEND INVOICE TO		Company: <u>Goldenrod</u>		Company: <u>Goldenrod</u>		Company:	
Address:		Address:		Mailing Address:		Mailing Address:	
City, State, Zip:		City, State, Zip:		City, State, Zip:		City, State, Zip:	
PROJECT LOCATION:		Telephone No.:		Telephone No.:		Telephone No.:	
SAMPLER'S SIGNATURE: <u>[Signature]</u>		Number of Containers:		ANALYSIS REQUESTED		LAB ID	
SAMPLE IDENTIFICATION		DATE		TIME		PRES.	
10/1/86		0830		0830		0830	
Relinquished by: <u>[Signature]</u>		Date/Time:		Received by: <u>[Signature]</u>		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by: _____		Date: _____		Special Instructions / Remarks:		By Date	
(Client Signature <u>Must</u> Accompany Request)							

On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering

Work Order: 0008051

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000	Prep Date:
Client ID: 0008051	Run ID: GC-1_000831A	PQL	SPK value	SeqNo: 30974	
Analyte	Result	PQL	SPK Ref Val	LowLimit	HighLimit
Benzene	ND	0.5		%RPD	RPDLimit
Ethylbenzene	ND	0.5		RPD Ref Val	Qual
m,p-Xylene	.1135	1			
o-Xylene	ND	0.5			
Toluene	ND	0.5			

J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering

Work Order: 0008051

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0008053-02AMS		Batch ID: GC-1_000831		Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:	
Client ID: 0008051		Run ID: GC-1_000831A		PQL		SPK value		SeqNo: 30975			
Analyte	Result					SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual	
Benzene	1967	25		2000		0		98.3%		88 112	
Ethylbenzene	2211	25		2000		128.1		104.1%		86 113	
m,p-Xylene	8232	50		4000		4139		102.3%		85 108	
o-Xylene	2752	25		2000		699		102.6%		92 110	
Toluene	2078	25		2000		12.03		103.3%		88 116	

Sample ID: 0008053-02AMSD		Batch ID: GC-1_000831		Test Code: SW8021B		Units: µg/L		Analysis Date 8/31/2000		Prep Date:	
Client ID:		0008051		Run ID: GC-1_000831A				SeqNo: 30976			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1928	25	2000	0	96.4%	88	112	1967	2.0%	6	
Ethylbenzene	2170	25	2000	128.1	102.1%	86	113	2211	1.9%	6	
m,p-Xylene	8081	50	4000	4139	98.6%	85	108	8232	1.8%	6	
o-Xylene	2708	25	2000	699	100.5%	92	110	2752	1.6%	6	
Toluene	2038	25	2000	12.03	101.3%	88	116	2078	1.9%	6	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering
Work Order: 0008051
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS SOIL	Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000	Prep Date:						
Client ID:	0008051	Run ID: GC-1_000831A		SeqNo: 30973							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.81	0.5	40	0	99.5%	96	111				
Ethylbenzene	42.34	0.5	40	0	105.8%	96	111				
m,p-Xylene	84.01	1	80	0.1135	104.9%	92	105				
o-Xylene	42.05	0.5	40	0	105.1%	97	110				
Toluene	41.37	0.5	40	0	103.4%	97	109				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Sep-00

CLIENT: Blagg Engineering
Work Order: 0008051
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000		Prep Date:				
Client ID: 0008051		Run ID: GC-1_000831A	SeqNo: 30971								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.61	0.5	20	0	98.1%	85	115				
Ethylbenzene	21.04	0.5	20	0	105.2%	85	115				
m,p-Xylene	42.02	1	40	0	105.0%	85	115				
o-Xylene	21.04	0.5	20	0	105.2%	85	115				
Toluene	20.46	0.5	20	0	102.3%	85	115				
1,4-Difluorobenzene	84.76	0	100	0	84.8%	79	101				
4-Bromochlorobenzene	98.28	0	100	0	98.3%	78	99				
Fluorobenzene	78.67	0	100	0	78.7%	76	103				

Sample ID: CCV2 BTEX_0007		Batch ID: GC-1_000831	Test Code: SW8021B	Units: µg/L	Analysis Date 8/31/2000		Prep Date:				
Client ID: 0008051		Run ID: GC-1_000831A			SeqNo: 30972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.7	0.5	20	0	98.5%	85	115				
Ethylbenzene	20.72	0.5	20	0	103.6%	85	115				
m,p-Xylene	41.42	1	40	0	103.6%	85	115				
o-Xylene	20.73	0.5	20	0	103.7%	85	115				
Toluene	20.25	0.5	20	0	101.3%	85	115				
1,4-Difluorobenzene	84.9	0	100	0	84.9%	79	101				
4-Bromochlorobenzene	96.39	0	100	0	96.4%	78	99				
Fluorobenzene	79.35	0	100	0	79.4%	76	103				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0008051
Project: Cross Timbers; Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ				
0008051-01A	79	91.2	87.2				
0008053-01A	85.6	96.5	80				
0008053-02A	85	97.9	79.4				
0008053-02AMS	84.2	97.2	78.8				
0008053-02AMSD	84.6	97.2	78.7				
0008054-03A	83.9	94.5	80				
CCV1 BTEX_00070	84.8	98.3	78.7				
CCV2 BTEX_00070	84.9	96.4	79.4				
LCS SOIL	84.4	98.3	78.7				
MB1	85.6	98.4	79.2				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
FLBZ	= Fluorobenzene	76-103

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 11040

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : March 19, 2001

SAMPLER : N J V

Filename : 03-19-01.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	59.63	32.86	37.00	1015	7.45	500	1.25	-
2	89.38	59.66	29.72	35.00	-	-	-	-	-
3	88.46	59.72	28.74	38.00	0930	7.82	300	4.50	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #3, poor recovery in MW #1. Collected BTEX from MW #s
1 & 3. DTW in MW #1 measured 34.20 ft. @ time of sampling.

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 23-Mar-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0103015	Client Sample ID:	MW #1
Lab ID:	0103015-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Garcia GC B #1	Collection Date:	3/19/2001 10:15:00 AM
		COC Record:	11040

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	3/21/2001
Toluene	ND	0.5		µg/L	1	3/21/2001
Ethylbenzene	39	0.5		µg/L	1	3/21/2001
m,p-Xylene	210	1		µg/L	1	3/21/2001
o-Xylene	2.6	0.5		µg/L	1	3/21/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 23-Mar-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0103015	Client Sample ID:	MW #3
Lab ID:	0103015-02A	Matrix:	AQUEOUS
Project:	Cross Timbers; Garcia GC B #1	Collection Date:	3/19/2001 9:30:00 AM
		COC Record:	11040

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	3/21/2001
Toluene	ND	0.5		µg/L	1	3/21/2001
Ethylbenzene	ND	0.5		µg/L	1	3/21/2001
m,p-Xylene	ND	1		µg/L	1	3/21/2001
o-Xylene	ND	0.5		µg/L	1	3/21/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



CHAIN OF CUSTODY RECORD

Date: _____

Page: _____ of _____

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

[illegible]

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103015
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L	Analysis Date 3/21/2001	Prep Date:						
Client ID:	0103015	Run ID: GC-1_010321A		SeqNo: 35873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.0794	0.5									J
m,p-Xylene	.5522	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	.1977	0.5									J
Toluene	.154	0.5									J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering

Work Order: 0103015

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0103008-01AMS		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID: 0103015		Run ID: 0103015		PQL		SPK value		SeqNo: 35874			
Analyte	Result					SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	1070	5				710	90.1%	84	111		
Ethylbenzene	733.1	5				320	103.3%	84	111		
m,p-Xylene	1386	10				560	103.2%	84	108		
Methyl tert-Butyl Ether	444.8	10				110	83.7%	80	117		
o-Xylene	517.8	5				110	102.0%	89	107		
Toluene	468.4	5				54	103.6%	90	107		

Sample ID: 0103008-01AMSD		Batch ID: GC-1_010321		Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID: 0103015		Run ID: 0103015		PQL		SPK value		SeqNo: 35875			
Analyte	Result					SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	1064	5				710	88.6%	84	111	1070	0.6%
Ethylbenzene	709.4	5				320	97.3%	84	111	733.1	3.3%
m,p-Xylene	1343	10				560	97.9%	84	108	1386	3.1%
Methyl tert-Butyl Ether	449.2	10				110	84.8%	80	117	444.8	1.0%
o-Xylene	502.9	5				110	98.2%	89	107	517.8	2.9%
Toluene	449.4	5				54	98.8%	90	107	468.4	4.2%

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103015
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103015	Run ID: GC-1_010321A			SeqNo: 35872			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Benzene	39.67	0.5	40	0	99.2%	92	109		
Ethylbenzene	41.4	0.5	40	0.0794	103.3%	92	112		
m,p-Xylene	82.98	1	80	0.5522	103.0%	91	108		
Methyl tert-Butyl Ether	40.98	1	40	0	102.4%	89	116		
o-Xylene	41.51	0.5	40	0.1977	103.3%	93	109		
Toluene	40.7	0.5	40	0.154	101.4%	93	108		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

On Site Technologies, LTD.

Date: 23-Mar-01

CLIENT: Blagg Engineering
Work Order: 0103015
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:		
Client ID:		0103015	Run ID:	GC-1_010321A			SeqNo:	35869			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.15	0.5	20	0	100.7%	85	115				
Ethylbenzene	21.03	0.5	20	0	105.2%	85	115				
m,p-Xylene	42.36	1	40	0	105.9%	85	115				
Methyl tert-Butyl Ether	19.21	1	20	0	96.1%	85	115				
o-Xylene	21.15	0.5	20	0	105.8%	85	115				
Toluene	20.66	0.5	20	0	103.3%	85	115				
1,4-Difluorobenzene	78.38	0	80	0	98.0%	85	103				
4-Bromochlorobenzene	77.29	0	80	0	96.6%	93	108				
Fluorobenzene	78.25	0	80	0	97.8%	88	103				

Sample ID: CCV2 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B		Units: µg/L		Analysis Date 3/21/2001		Prep Date:		
Client ID:		0103015	Run ID:	GC-1_010321A			SeqNo:	35870			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.36	0.5	20	0	96.8%	85	115				
Ethylbenzene	20.17	0.5	20	0	100.8%	85	115				
m,p-Xylene	40.64	1	40	0	101.6%	85	115				
Methyl tert-Butyl Ether	17.97	1	20	0	89.8%	85	115				
o-Xylene	20.4	0.5	20	0	102.0%	85	115				
Toluene	19.89	0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	78.33	0	80	0	97.9%	85	103				
4-Bromochlorobenzene	76.34	0	80	0	95.4%	93	108				
Fluorobenzene	78.14	0	80	0	97.7%	88	103				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0103015

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0103		Batch ID: GC-1_010321	Test Code: SW8021B	Units: µg/L		Analysis Date 3/21/2001		Prep Date:	
Client ID:		0103015	Run ID:	GC-1_010321A		SeqNo: 35871			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Benzene	38.51	0.5	40	0	96.3%	85	115		
Ethylbenzene	39.82	0.5	40	0	99.5%	85	115		
m,p-Xylene	79.8	1	80	0	99.7%	85	115		
Methyl tert-Butyl Ether	38.07	1	40	0	95.2%	85	115		
o-Xylene	40.31	0.5	40	0	100.8%	85	115		
Toluene	39.43	0.5	40	0	98.6%	85	115		
1,4-Difluorobenzene	78.66	0	80	0	98.3%	85	103		
4-Bromochlorobenzene	75.38	0	80	0	94.2%	93	108		
Fluorobenzene	77.44	0	80	0	96.8%	88	103		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
 Work Order: 0103015
 Project: Cross Timbers; Garcia GC B #1
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0103008-01A	95.3	96.8	95.2
0103008-01AMS	95.3	99.7	95
0103008-01AMSD	95.4	97.3	94.6
0103011-01A	97.9	99.2	96.6
0103015-01A	88.2	87.7 *	95.6
0103015-02A	98.5	97.7	98.5
0103017-01A	93.4	92.3 *	94
0103018-01A	96.7	95.6	95.8
0103019-01A	99.2	97.3	98.2
0103020-01A	96.4	91.7 *	96.4
0103020-02A	94.7	93.7	93.8
0103020-03A	98.9	96.6	97.8
0103021-01A	99	98.4	97.9
0103022-01A	99.3	97.7	98
0103022-02A	98.4	95.8	97.8
0103022-03A	96.1	93.4	99.2
0103023-06A	107 *	96.2	101
0103028-01A	98.3	95.6	98.8
CCV1 BTEX_01030	98	96.6	97.8
CCV2 BTEX_01030	97.9	95.4	97.7
CCV3 BTEX_01030	98.3	94.2	96.8
LCS WATER	97.3	97.4	97
MB1	98.7	96.7	98.3

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	85-103
4BCBZ	= 4-Bromochlorobenzene	93-108
FLBZ	= Fluorobenzene	88-103

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : CROSS TIMBERS OPER. CO.CHAIN-OF-CUSTODY # : 11047LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : May 16, 2001SAMPLER : N J VFilename : 05-16-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	60.61	31.88	37.00	-	-	-	-	-
2	89.38	60.74	28.64	35.00	0915	7.22	500	3.25	-
3	88.46	60.97	27.49	38.00	0845	7.71	300	5.25	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25" well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4" teflon bailer.

2.00" well diameter = 0.49 gallons per foot of water.

4.00" well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #3, fair recovery in MW #2. Collected BTEX from MW #s

2 & 3.

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 31-May-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0105023	Client Sample ID:	MW #3 MW #2
Lab ID:	0105023-02A	Matrix:	AQUEOUS
Project:	Cross Timbers; Garcia GC B #1	Collection Date:	5/16/2001 8:45:00 AM
		COC Record:	11047

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	2.2	0.5		µg/L	1	5/25/2001
Toluene	ND	0.5		µg/L	1	5/25/2001
Ethylbenzene	47	0.5		µg/L	1	5/25/2001
m,p-Xylene	2900	50		µg/L	50	5/26/2001
o-Xylene	1.3	0.5		µg/L	1	5/25/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 31-May-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0105023	Client Sample ID:	MW #2 MW #3 95
Lab ID:	0105023-01A	Matrix:	AQUEOUS
Project:	Cross Timbers; Garcia GC B #1	Collection Date:	5/16/2001 9:15:00 AM
		COC Record:	11047

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	5/26/2001
Toluene	ND	0.5		µg/L	1	5/26/2001
Ethylbenzene	ND	0.5		µg/L	1	5/26/2001
m,p-Xylene	ND	1		µg/L	1	5/26/2001
o-Xylene	ND	0.5		µg/L	1	5/26/2001

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Sum: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date:

Page: _____ of _____

Purchase Order No.:		Project No.		Name		Title	
Name		Company		Company		Title	
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
PROJECT LOCATION:		PROJECT LOCATION:		Telephone No.		Telefax No.	
SAMPLER'S SIGNATURE:		SAMPLER'S SIGNATURE:		Date/Time		Date/Time	
SAMPLE IDENTIFICATION		SAMPLE IDENTIFICATION		Date/Time		Date/Time	
DATE		TIME		DATE		DATE	
TIME		MATRIX		DATE		DATE	
PRES.		PRES.		DATE		DATE	
MW #3		MW #2		Date/Time		Date/Time	
MW #1		MW #4		Date/Time		Date/Time	
MW #5		MW #6		Date/Time		Date/Time	
MW #7		MW #8		Date/Time		Date/Time	
MW #9		MW #10		Date/Time		Date/Time	
MW #11		MW #12		Date/Time		Date/Time	
MW #13		MW #14		Date/Time		Date/Time	
MW #15		MW #16		Date/Time		Date/Time	
MW #17		MW #18		Date/Time		Date/Time	
MW #19		MW #20		Date/Time		Date/Time	
MW #21		MW #22		Date/Time		Date/Time	
MW #23		MW #24		Date/Time		Date/Time	
MW #25		MW #26		Date/Time		Date/Time	
MW #27		MW #28		Date/Time		Date/Time	
MW #29		MW #30		Date/Time		Date/Time	
MW #31		MW #32		Date/Time		Date/Time	
MW #33		MW #34		Date/Time		Date/Time	
MW #35		MW #36		Date/Time		Date/Time	
MW #37		MW #38		Date/Time		Date/Time	
MW #39		MW #40		Date/Time		Date/Time	
MW #41		MW #42		Date/Time		Date/Time	
MW #43		MW #44		Date/Time		Date/Time	
MW #45		MW #46		Date/Time		Date/Time	
MW #47		MW #48		Date/Time		Date/Time	
MW #49		MW #50		Date/Time		Date/Time	
MW #51		MW #52		Date/Time		Date/Time	
MW #53		MW #54		Date/Time		Date/Time	
MW #55		MW #56		Date/Time		Date/Time	
MW #57		MW #58		Date/Time		Date/Time	
MW #59		MW #60		Date/Time		Date/Time	
MW #61		MW #62		Date/Time		Date/Time	
MW #63		MW #64		Date/Time		Date/Time	
MW #65		MW #66		Date/Time		Date/Time	
MW #67		MW #68		Date/Time		Date/Time	
MW #69		MW #70		Date/Time		Date/Time	
MW #71		MW #72		Date/Time		Date/Time	
MW #73		MW #74		Date/Time		Date/Time	
MW #75		MW #76		Date/Time		Date/Time	
MW #77		MW #78		Date/Time		Date/Time	
MW #79		MW #80		Date/Time		Date/Time	
MW #81		MW #82		Date/Time		Date/Time	
MW #83		MW #84		Date/Time		Date/Time	
MW #85		MW #86		Date/Time		Date/Time	
MW #87		MW #88		Date/Time		Date/Time	
MW #89		MW #90		Date/Time		Date/Time	
MW #91		MW #92		Date/Time		Date/Time	
MW #93		MW #94		Date/Time		Date/Time	
MW #95		MW #96		Date/Time		Date/Time	
MW #97		MW #98		Date/Time		Date/Time	
MW #99		MW #100		Date/Time		Date/Time	
MW #101		MW #102		Date/Time		Date/Time	
MW #103		MW #104		Date/Time		Date/Time	
MW #105		MW #106		Date/Time		Date/Time	
MW #107		MW #108		Date/Time		Date/Time	
MW #109		MW #110		Date/Time		Date/Time	
MW #111		MW #112		Date/Time		Date/Time	
MW #113		MW #114		Date/Time		Date/Time	
MW #115		MW #116		Date/Time		Date/Time	
MW #117		MW #118		Date/Time		Date/Time	
MW #119		MW #120		Date/Time		Date/Time	
MW #121		MW #122		Date/Time		Date/Time	
MW #123		MW #124		Date/Time		Date/Time	
MW #125		MW #126		Date/Time		Date/Time	
MW #127		MW #128		Date/Time		Date/Time	
MW #129		MW #130		Date/Time		Date/Time	
MW #131		MW #132		Date/Time		Date/Time	
MW #133		MW #134		Date/Time		Date/Time	
MW #135		MW #136		Date/Time		Date/Time	
MW #137		MW #138		Date/Time		Date/Time	
MW #139		MW #140		Date/Time		Date/Time	
MW #141		MW #142		Date/Time		Date/Time	
MW #143		MW #144		Date/Time		Date/Time	
MW #145							

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering

Work Order: 0105023

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date 5/25/2001	Prep Date:
Client ID:	0105023	Run ID: GC-1_010525A		SeqNo: 38387	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	1226	0.5			J

Sample ID: MB1	Batch ID: GC-1_010526	Test Code: SW8021B	Units: µg/L	Analysis Date 5/26/2001	Prep Date:
Client ID:	0105023	Run ID: GC-1_010526A		SeqNo: 38414	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	ND	0.5			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering

Work Order: 0105023

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0105046-22AMS	Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date: 5/25/2001	Prep Date:
Client ID: 0105023	Run ID: GC-1_010525A	PQL	SPK value	SeqNo: 38388	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	3307	25	1485	70	130
Ethylbenzene	2010	25	379.4	70	130
m,p-Xylene	3691	50	493	70	130
Methyl tert-Butyl Ether	4418	50	2497	70	130
o-Xylene	1869	25	55.85	70	130
Toluene	1904	25	50.74	70	130
				%REC	RPDLimit
				91.1%	
				81.5%	
				80.0%	
				96.0%	
				90.7%	
				92.6%	

Sample ID: 0105046-22AMSD	Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date: 5/25/2001	Prep Date:
Client ID: 0105023	Run ID: GC-1_010525A	PQL	SPK value	SeqNo: 38389	
Analyte	Result		SPK Ref Val	LowLimit	HighLimit
Benzene	3315	25	1485	70	130
Ethylbenzene	1970	25	379.4	70	130
m,p-Xylene	3583	50	493	70	130
Methyl tert-Butyl Ether	4510	50	2497	70	130
o-Xylene	1846	25	55.85	70	130
Toluene	1871	25	50.74	70	130
				%REC	RPDLimit
				91.5%	0.3%
				79.5%	2.0%
				77.2%	3.0%
				100.7%	2.1%
				89.5%	1.3%
				91.0%	1.7%

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

CLIENT: Blagg Engineering
Work Order: 0105023
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0105021-01AMS Batch ID: GC-1_010526 Test Code: SW8021B Units: µg/L Analysis Date 5/26/2001 Prep Date:

Client ID: 0105023 Run ID: GC-1_010526A SeqNo: 38415

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	195.3	2.5	200	12.88	91.2%	70	130				
Ethylbenzene	249.3	2.5	200	74.66	87.3%	70	130				
m,p-Xylene	717.6	5	400	386.8	82.7%	70	130				
Methyl tert-Butyl Ether	194.6	5	200	1.964	96.3%	70	130				
o-Xylene	279.9	2.5	200	105.2	87.3%	70	130				
Toluene	186.2	2.5	200	1.688	92.3%	70	130				

Sample ID: 0105021-01AMSD Batch ID: GC-1_010526 Test Code: SW8021B Units: µg/L Analysis Date 5/26/2001 Prep Date:

Client ID: 0105023 Run ID: GC-1_010526A SeqNo: 38416

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	193.2	2.5	200	12.88	90.2%	70	130	195.3	1.1%	8	
Ethylbenzene	246.4	2.5	200	74.66	85.8%	70	130	249.3	1.2%	7	
m,p-Xylene	709	5	400	386.8	80.6%	70	130	717.6	1.2%	7	
Methyl tert-Butyl Ether	194.1	5	200	1.964	96.1%	70	130	194.6	0.3%	6	
o-Xylene	277.8	2.5	200	105.2	86.3%	70	130	279.9	0.8%	6	
Toluene	184.4	2.5	200	1.688	91.4%	70	130	186.2	1.0%	6	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering

Work Order: 0105023

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date 5/25/2001	Prep Date:
Client ID:	0105023	Run ID: GC-1_010525A		SeqNo: 38386	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	39.07	0.5	40	0	97.7% 80 120
Ethylbenzene	39.1	0.5	40	0	97.8% 80 120
m,p-Xylene	75	1	80	0	93.8% 80 120
Methyl tert-Butyl Ether	40.74	1	40	0	101.9% 80 120
o-Xylene	38.59	0.5	40	0	96.5% 80 120
Toluene	38.58	0.5	40	0.1226	96.2% 80 120

Sample ID: LCS WATER	Batch ID: GC-1_010526	Test Code: SW8021B	Units: µg/L	Analysis Date 5/26/2001	Prep Date:
Client ID:	0105023	Run ID: GC-1_010526A		SeqNo: 38413	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	38.57	0.5	40	0	96.4% 80 120
Ethylbenzene	38.79	0.5	40	0	97.0% 80 120
m,p-Xylene	74.35	1	80	0	92.9% 80 120
Methyl tert-Butyl Ether	40.36	1	40	0	100.9% 80 120
o-Xylene	38.24	0.5	40	0	95.6% 80 120
Toluene	38.14	0.5	40	0	95.4% 80 120

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105023
Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date 5/25/2001		Prep Date:
Client ID: 0105023		Run ID: GC-1_010525A	PQL	SPK value	SPK Ref Val	SeqNo: 38383	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	20.01	0.5	20	0	100.0%	85	115
Ethylbenzene	20.02	0.5	20	0	100.1%	85	115
m,p-Xylene	38.51	1	40	0	96.3%	85	115
Methyl tert-Butyl Ether	20.81	1	20	0	104.0%	85	115
o-Xylene	19.68	0.5	20	0	98.4%	85	115
Toluene	19.74	0.5	20	0	98.7%	85	115
1,4-Difluorobenzene	75.57	0	80	0	94.5%	70	130
4-Bromochlorobenzene	81.98	0	80	0	102.5%	70	130
Fluorobenzene	76.25	0	80	0	95.3%	70	130

Sample ID: CCV2 BTEX_0105		Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L	Analysis Date 5/25/2001		Prep Date:
Client ID: 0105023		Run ID: GC-1_010525A	PQL	SPK value	SPK Ref Val	SeqNo: 38384	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	39.46	0.5	40	0	98.6%	85	115
Ethylbenzene	39.46	0.5	40	0	98.7%	85	115
m,p-Xylene	75.89	1	80	0	94.9%	85	115
Methyl tert-Butyl Ether	42.02	1	40	0	105.0%	85	115
o-Xylene	39.02	0.5	40	0	97.5%	85	115
Toluene	39.1	0.5	40	0	97.8%	85	115
1,4-Difluorobenzene	74.46	0	80	0	93.1%	70	130
4-Bromochlorobenzene	79.65	0	80	0	99.6%	70	130
Fluorobenzene	76.07	0	80	0	95.1%	70	130

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0105023

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0105		Batch ID: GC-1_010525	Test Code: SW8021B	Units: µg/L		Analysis Date 5/25/2001	Prep Date:
Client ID: 0105023		Run ID: GC-1_010525A	PQL	SPK value	SPK Ref Val	SeqNo: 38385	
Analyte	Result					LowLimit	HighLimit
Benzene	19.78	0.5	20	0		85	115
Ethylbenzene	19.68	0.5	20	0		85	115
m,p-Xylene	37.77	1	40	0		85	115
Methyl tert-Butyl Ether	20.7	1	20	0		85	115
o-Xylene	19.38	0.5	20	0		85	115
Toluene	19.43	0.5	20	0		85	115
1,4-Difluorobenzene	75.02	0	80	0		70	130
4-Bromochlorobenzene	83	0	80	0		70	130
Fluorobenzene	76.55	0	80	0		70	130

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010526	Test Code: SW8021B	Units: µg/L		Analysis Date 5/26/2001	Prep Date:
Client ID: 0105023		Run ID: GC-1_010526A	PQL	SPK value	SPK Ref Val	SeqNo: 38410	
Analyte	Result					LowLimit	HighLimit
Benzene	19.68	0.5	20	0		85	115
Ethylbenzene	19.79	0.5	20	0		85	115
m,p-Xylene	38.06	1	40	0		85	115
Methyl tert-Butyl Ether	20.65	1	20	0		85	115
o-Xylene	19.46	0.5	20	0		85	115
Toluene	19.49	0.5	20	0		85	115
1,4-Difluorobenzene	75.29	0	80	0		70	130
4-Bromochlorobenzene	81.03	0	80	0		70	130
Fluorobenzene	76.12	0	80	0		70	130

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering

Work Order: 0105023

Project: Cross Timbers; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Prep Date:

Analysis Date 5/26/2001

SeqNo: 38411

Units: µg/L

Test Code: SW8021B

Run ID: GC-1_010526A

Batch ID: GC-1_010526

0105023

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
---------	--------	-----	-----------	-------------	------	----------	-----------	-------------	------	----------	------

Benzene	39.2	0.5	40	0	98.0%	85	115				
---------	------	-----	----	---	-------	----	-----	--	--	--	--

Ethylbenzene	39.58	0.5	40	0	98.9%	85	115				
--------------	-------	-----	----	---	-------	----	-----	--	--	--	--

m,p-Xylene	75.99	1	80	0	95.0%	85	115				
------------	-------	---	----	---	-------	----	-----	--	--	--	--

Methyl tert-Butyl Ether	40.05	1	40	0	100.1%	85	115				
-------------------------	-------	---	----	---	--------	----	-----	--	--	--	--

o-Xylene	38.91	0.5	40	0	97.3%	85	115				
----------	-------	-----	----	---	-------	----	-----	--	--	--	--

Toluene	39.11	0.5	40	0	97.8%	85	115				
---------	-------	-----	----	---	-------	----	-----	--	--	--	--

1,4-Difluorobenzene	74.87	0	80	0	93.6%	70	130				
---------------------	-------	---	----	---	-------	----	-----	--	--	--	--

4-Bromochlorobenzene	72.96	0	80	0	91.2%	70	130				
----------------------	-------	---	----	---	-------	----	-----	--	--	--	--

Fluorobenzene	75.46	0	80	0	94.3%	70	130				
---------------	-------	---	----	---	-------	----	-----	--	--	--	--

Prep Date:

Analysis Date 5/26/2001

SeqNo: 38412

Units: µg/L

Test Code: SW8021B

Run ID: GC-1_010526A

Batch ID: GC-1_010526

0105023

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
---------	--------	-----	-----------	-------------	------	----------	-----------	-------------	------	----------	------

Benzene	19.98	0.5	20	0	99.9%	85	115				
---------	-------	-----	----	---	-------	----	-----	--	--	--	--

Ethylbenzene	19.93	0.5	20	0	99.6%	85	115				
--------------	-------	-----	----	---	-------	----	-----	--	--	--	--

m,p-Xylene	38.24	1	40	0	95.6%	85	115				
------------	-------	---	----	---	-------	----	-----	--	--	--	--

Methyl tert-Butyl Ether	21.4	1	20	0	107.0%	85	115				
-------------------------	------	---	----	---	--------	----	-----	--	--	--	--

o-Xylene	19.52	0.5	20	0	97.6%	85	115				
----------	-------	-----	----	---	-------	----	-----	--	--	--	--

Toluene	19.67	0.5	20	0	98.4%	85	115				
---------	-------	-----	----	---	-------	----	-----	--	--	--	--

1,4-Difluorobenzene	74.69	0	80	0	93.4%	70	130				
---------------------	-------	---	----	---	-------	----	-----	--	--	--	--

4-Bromochlorobenzene	81.39	0	80	0	101.7%	70	130				
----------------------	-------	---	----	---	--------	----	-----	--	--	--	--

Fluorobenzene	76.12	0	80	0	95.2%	70	130				
---------------	-------	---	----	---	-------	----	-----	--	--	--	--

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0105023
Project: Cross Timbers; Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105019-19A	93.8	101	94.7
0105019-20A	94.8	98.7	96.1
0105019-21A	94.5	98.9	95.8
0105019-22A	95	101	96
0105021-01A	91.4	94.7	93.2
0105021-01AMS	91	93	92.3
0105021-01AMSD	90.8	92.6	91.7
0105021-02A	89.4	98.9	92.3
0105022-01A	91.3	98.2	93.1
0105022-02A	93.2	100	94.3
0105023-01A	95.2	99.2	96.4
0105023-02A	93.9	93.4	95.4
0105024-01A	92.4	101	94.3
0105024-02A	87	94.2	88.9
0105024-03A	94.3	100	96.1
0105046-01A	94.3	93.5	96.1
0105046-02A	95.3	97.3	100
0105046-03A	101	101	95.8
0105046-04A	94.8	93.6	98.4
0105046-05A	91.9	90.6	94
0105046-06A	91.9	93.4	93.2
0105046-07A	94.8	102	96.8
0105046-08A	94.3	102	96.2
0105046-09A	95.4	101	96.3
0105046-10A	95.2	104	96.6
0105046-11A	95.4	101	95.9
0105046-12A	95	101	111

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0105023
Project: Cross Timbers; Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105046-13A	94.7	99.9	101
0105046-18A	93.2	101	94.9
0105046-20A	91.5	95.2	92.6
0105046-21A	93.8	96.5	95.2
0105046-22A	95.1	102	98.1
0105046-22AMS	93.4	115	94.9
0105046-22AMSD	93	106	95.1
0105046-31A	95.3	102	96.1
0105046-32A	94.3	100	95.6
CCV1 BTEX_01052	94.1	101	95.2
CCV2 BTEX_01052	93.6	91.2	94.3
CCV3 BTEX_01052	93.4	102	95.2
LCS WATER	93.6	103	94.7
MB1	94.1	103	95.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : 11156

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : Sept. 24, 2001

SAMPLER : N J V

Filename : 09-24-01.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	62.50	29.99	37.00	-	-	-	-	-
2	89.38	62.56	26.82	35.00	1345	7.41	500	4.00	-
3	88.46	62.69	25.77	38.00	1315	7.88	400	6.00	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$

(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25" well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4" teflon bailer.

2.00" well diameter = 0.49 gallons per foot of water.

4.00" well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2"

Excellent recovery in MW #3, fair recovery in MW #2. Collected BTEX from MW #'s

2 & 3.

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 05-Oct-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0109035	Client Sample ID:	MW #2
Lab ID:	0109035-01A	Matrix:	AQUEOUS
Project:	XTO Energy; Garcia GC B #1	Collection Date:	09/24/2001 1:45:00 PM
		COC Record:	11156

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	09/28/2001
Toluene	13	0.5		µg/L	1	09/28/2001
Ethylbenzene	45	0.5		µg/L	1	09/28/2001
o-Xylene	2.3	0.5		µg/L	1	09/28/2001
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HR
m,p-Xylene	3200	10		µg/L	10	09/29/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

1 of 1

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 05-Oct-01

Client:	Blagg Engineering	Client Sample Info:	Garcia GC B #1
Work Order:	0109035	Client Sample ID:	MW #3
Lab ID:	0109035-02A	Matrix:	AQUEOUS
Project:	XTO Energy; Garcia GC B #1	Collection Date:	09/24/2001 1:15:00 PM
		COC Record:	11156

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	09/29/2001
Toluene	ND	0.5		µg/L	1	09/29/2001
Ethylbenzene	ND	0.5		µg/L	1	09/29/2001
m,p-Xylene	ND	1		µg/L	1	09/29/2001
o-Xylene	ND	0.5		µg/L	1	09/29/2001

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INTO THE ENVIRONMENT

1 of 1

On Site Technologies, LTD.

Date: 05-Oct-01

CLIENT: Blagg Engineering
Work Order: 0109035
Project: XTO Energy, Garcia GC B #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001	Prep Date: 09/28/2001						
Client ID:	0109035	Run ID: GC-1_010928A		SeqNo: 42834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0938	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	.1731	1									J
o-Xylene	ND	0.5									
Toluene	.1909	0.5									J

Sample ID: MB_010929A	Batch ID: GC-1_010929	Test Code: SW8021B	Units: µg/L	Analysis Date 09/29/2001		Prep Date: 09/29/2001					
Client ID:	0109035	Run ID: GC-1_010929A		SeqNo: 42928							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.1312	0.5									
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	.4032	1									
o-Xylene	ND	0.5									J
Toluene	.1718	0.5									J

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 05-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109035

Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109039-09AMS		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID:		0109035		Run ID:		GC-1_010928A		SeqNo: 42835			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
Benzene		960.8	5	400	562	99.7%	78	117			
Ethylbenzene		679.2	5	400	265.7	103.4%	79	121			
m,p-Xylene		962.8	10	800	141.3	102.7%	80	115			
Methyl tert-Butyl Ether		461	10	400	35.45	106.4%	84	114			
o-Xylene		474.3	5	400	50.33	106.0%	88	116			
Toluene		455.5	5	400	26.31	107.3%	88	113			

Sample ID: 0109039-09AMSD		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001			Prep Date: 09/28/2001				
Client ID: 0109035		Run ID: GC-1_010928A		PQL		SPK value		SeqNo: 42836							
Analyte	Result			PQL		SPK value		SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	936.2			5		400		562	93.6%	78	117	960.8	2.6%	6	
Ethylbenzene	665.7			5		400		265.7	100.0%	79	121	679.2	2.0%	7	
m,p-Xylene	943			10		800		141.3	100.2%	80	115	962.8	2.1%	6	
Methyl tert-Butyl Ether	456.8			10		400		35.45	105.3%	84	114	461	0.9%	5	
o-Xylene	468.9			5		400		50.33	104.6%	88	116	474.3	1.2%	5	
Toluene	444.9			5		400		26.31	104.7%	88	113	455.5	2.4%	6	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
 Work Order: 0109035
 Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109039-18AMS		Batch ID: GC-1_010929		Test Code: SW8021B		Units: µg/L		Analysis Date 09/29/2001		Prep Date: 09/29/2001	
Client ID:		0109035		Run ID: GC-1_010929A				SeqNo: 42905			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	203.2	2.5	200	0	101.6%	78	117				
Ethylbenzene	208.4	2.5	200	0	104.2%	79	121				
m,p-Xylene	408.6	5	400	0	102.1%	80	115				
Methyl tert-Butyl Ether	583.5	5	200	400	91.7%	84	114				
o-Xylene	207.7	2.5	200	0	103.9%	88	116				
Toluene	204.7	2.5	200	0.7	102.0%	88	113				

Sample ID: 0109039-18AMSD			Batch ID: GC-1_010929		Test Code: SW8021B		Units: µg/L		Analysis Date 09/29/2001			Prep Date: 09/29/2001		
Client ID:		0109035		Run ID:		GC-1_010929A		SeqNo: 42907						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual			
Benzene	206.6	2.5	200	0	103.3%	78	117	203.2	1.7%	6				
Ethylbenzene	212.2	2.5	200	0	106.1%	79	121	208.4	1.8%	7				
m,p-Xylene	415.7	5	400	0	103.9%	80	115	408.6	1.7%	6				
Methyl tert-Butyl Ether	585.4	5	200	400	92.7%	84	114	583.5	0.3%	5				
o-Xylene	211.1	2.5	200	0	105.6%	88	116	207.7	1.6%	5				
Toluene	208.4	2.5	200	0.7	103.8%	88	113	204.7	1.8%	6				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 05-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109035

Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001		Prep Date: 09/28/2001					
Client ID:	0109035	Run ID:	GC-1_010928A	SeqNo:	42833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.17	0.5	40	0.0938	105.2%	92	113				
Ethylbenzene	43.02	0.5	40	0	107.6%	94	114				
m,p-Xylene	84.6	1	80	0	105.7%	92	111				
Methyl tert-Butyl Ether	41.28	1	40	0.1731	102.8%	91	112				
o-Xylene	42.75	0.5	40	0	106.9%	97	112				
Toluene	42.22	0.5	40	0.1909	105.1%	95	111				

Sample ID: LCS_010929A	Batch ID: GC-1_010929	Test Code: SW8021B	Units: µg/L	Analysis Date 09/29/2001	Prep Date: 09/29/2001						
Client ID:	0109035	Run ID: GC-1_010929A		SeqNo: 42927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.09	0.5	40	0	105.2%	92	113				
Ethylbenzene	43.4	0.5	40	0.1312	108.2%	94	114				
m,p-Xylene	85.42	1	80	0	106.8%	92	111				
Methyl tert-Butyl Ether	41.5	1	40	0.4032	102.7%	91	112				
o-Xylene	43.15	0.5	40	0	107.9%	97	112				
Toluene	42.52	0.5	40	0.1718	105.9%	95	111				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 05-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109035

Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001				Prep Date: 09/28/2001			
Client ID: 0109035	Run ID: GC-1_010928A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	21.97	0.5	20	0	109.8%	85	115				
Ethylbenzene	22.41	0.5	20	0	112.1%	85	115				
m,p-Xylene	44.35	1	40	0	110.9%	85	115				
Methyl tert-Butyl Ether	21.26	1	20	0	106.3%	85	115				
o-Xylene	22.33	0.5	20	0	111.6%	85	115				
Toluene	22.04	0.5	20	0	110.2%	85	115				
1,4-Difluorobenzene	115.2	0	120	0	96.0%	77	112				
4-Bromochlorobenzene	125.5	0	120	0	104.6%	88	116				
Fluorobenzene	116.2	0	120	0	96.8%	87	102				

Sample ID: CCV2_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001		Prep Date: 09/28/2001					
Client ID:	0109035	Run ID: GC-1_010928A		SeqNo: 42831							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.45	0.5	20	0	107.3%	85	115				
Ethylbenzene	21.91	0.5	20	0	109.6%	85	115				
m,p-Xylene	43.54	1	40	0	108.9%	85	115				
Methyl tert-Butyl Ether	20.68	1	20	0	103.4%	85	115				
o-Xylene	22.01	0.5	20	0	110.0%	85	115				
Toluene	21.63	0.5	20	0	108.1%	85	115				
1,4-Difluorobenzene	115.2	0	120	0	96.0%	77	112				
4-Bromochlorobenzene	122.6	0	120	0	102.2%	88	116				
Fluorobenzene	115.5	0	120	0	96.2%	87	102				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
 Work Order: 0109035
 Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_010928A		Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001		Prep Date: 09/28/2001
Client ID: 0109035		Run ID: GC-1_010928A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 42832
Analyte	Result						
Benzene	41.17		0.5	40	0	102.9%	85 115
Ethylbenzene	42.01		0.5	40	0	105.0%	85 115
m,p-Xylene	82.7		1	80	0	103.4%	85 115
Methyl tert-Butyl Ether	40.89		1	40	0	102.2%	85 115
o-Xylene	42.02		0.5	40	0	105.1%	85 115
Toluene	41.44		0.5	40	0	103.6%	85 115
1,4-Difluorobenzene	114.8		0	120	0	95.7%	77 112
4-Bromochlorobenzene	124.8		0	120	0	104.0%	88 116
Fluorobenzene	115.4		0	120	0	96.2%	87 102

Sample ID: CCV1_010929A		Batch ID: GC-1_010929	Test Code: SW8021B	Units: µg/L	Analysis Date 09/29/2001		Prep Date: 09/29/2001
Client ID: 0109035		Run ID: GC-1_010929A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 42924
Analyte	Result						
Benzene	21.12		0.5	20	0	105.6%	85 115
Ethylbenzene	21.84		0.5	20	0	109.2%	85 115
m,p-Xylene	43.29		1	40	0	108.2%	85 115
Methyl tert-Butyl Ether	21.24		1	20	0	106.2%	85 115
o-Xylene	21.77		0.5	20	0	108.8%	85 115
Toluene	21.37		0.5	20	0	106.8%	85 115
1,4-Difluorobenzene	114.8		0	120	0	95.6%	77 112
4-Bromochlorobenzene	125.6		0	120	0	104.6%	88 116
Fluorobenzene	115.3		0	120	0	96.1%	87 102

Qualifiers: ND - Not Detected at the Reporting Limit
 I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
 Work Order: 0109035
 Project: XTO Energy; Garcia GC B #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2_010929A		Batch ID: GC-1_010929		Test Code: SW8021B		Units: µg/L		Analysis Date 09/29/2001				Prep Date: 09/29/2001	
Client ID:		0109035		Run ID: GC-1_010929A				SeqNo: 42925					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	21.63	0.5	20	0	108.1%	85	115						
Ethylbenzene	22.29	0.5	20	0	111.4%	85	115						
m,p-Xylene	44.25	1	40	0	110.6%	85	115						
Methyl tert-Butyl Ether	20.9	1	20	0	104.5%	85	115						
o-Xylene	22.27	0.5	20	0	111.3%	85	115						
Toluene	21.9	0.5	20	0	109.5%	85	115						
1,4-Difluorobenzene	114.9	0	120	0	95.8%	77	112						
4-Bromochlorobenzene	120.8	0	120	0	100.7%	88	116						
Fluorobenzene	116	0	120	0	96.7%	87	102						

Sample ID: CCV3_010929A		Batch ID: GC-1_010929		Test Code: SW8021B		Units: µg/L		Analysis Date 09/29/2001		Prep Date: 09/29/2001	
Client ID:		0109035		Run ID:		GC-1_010929A		SeqNo: 42926			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.12	0.5	40	0	102.8%	85	115				
Ethylbenzene	42.14	0.5	40	0	105.4%	85	115				
m,p-Xylene	82.96	1	80	0	103.7%	85	115				
Methyl tert-Butyl Ether	38.69	1	40	0	96.7%	85	115				
o-Xylene	42.32	0.5	40	0	105.8%	85	115				
Toluene	41.6	0.5	40	0	104.0%	85	115				
1,4-Difluorobenzene	114.6	0	120	0	95.5%	77	112				
4-Bromochlorobenzene	118.7	0	120	0	98.9%	88	116				
Fluorobenzene	114.9	0	120	0	95.8%	87	102				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0109035
Project: XTO Energy; Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0109034-01A	95.8	101	96
0109035-01A	94.7	100	95.8
0109035-02A	96.3	103	97.3
0109036-01A	97	104	97.8
0109039-01A	96.8	106	98.1
0109039-02A	96.7	102	97.5
0109039-03A	96.2	104	97.3
0109039-04A	96.8	104	97.7
0109039-05A	96.1	104	97.4
0109039-06A	97	104	97.7
0109039-07A	96	101	97.2
0109039-08A	94.6	98.2	95.9
0109039-09A	96.1	106	95.6
0109039-09AMS	94.6	103	94.1
0109039-09AMSD	95.5	104	94.8
0109039-10A	95.5	101	96.6
0109039-11A	96.8	105	97.3
0109039-12A	96.9	104	97.2
0109039-13A	96.8	104	97.5
0109039-14A	96.7	103	97.4
0109039-15A	96.5	105	97.3
0109039-16A	96.7	103	97.4
0109039-17A	96.4	103	97.7
0109039-18A	95.6	104	100
0109039-18AMS	95.6	104	99.7
0109039-18AMSD	95.6	103	99.8
0109039-19A	96.6	104	100

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits

CLIENT: Blagg Engineering
Work Order: 0109035
Project: XTO Energy, Garcia GC B #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0109039-20A	97.2	103	97.8
0109039-21A	96.9	103	97.9
0109039-22A	96.6	102	97.9
0109039-23A	98.1	100	98.4
0109039-24A	96	99.8	101
0109039-25A	97.1	105	97.8
0109039-26A	95.6	101	96.6
0109039-27A	96.1	105	97.3
0109039-28A	97.3	100	97.7
0109039-29A	96.2	101	97.7
0109039-30A	97	104	97.5
0109039-31A	96.5	105	97.4
CCV1_010928A	96	105	96.8
CCV1_010929A	95.6	105	96.1
CCV2_010928A	96	102	96.2
CCV2_010929A	95.8	101	96.7
CCV3_010928A	95.7	104	96.2
CCV3_010929A	95.5	98.9	95.8
LCS_010928A	95.4	105	96
LCS_010929A	95.1	104	96
MB_010928A	96.1	103	96.6
MB_010929A	96.1	104	97.3

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : XTO ENERGY, INC.CHAIN-OF-CUSTODY # : 11781LOCATION : GARCIA GC B # 1LABORATORY (S) USED : ON - SITE TECH.Date : June 25, 2002SAMPLER : N J VFilename : 06-25-02.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	64.12	28.37	37.00	-	-	-	-	-
2	89.38	64.27	25.11	35.00	0820	7.34	800	5.00	-
3	88.46	64.47	23.99	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

1.25" well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4" teflon bailer.

2.00" well diameter = 0.49 gallons per foot of water.

4.00" well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".Fair recovery in MW #2. Collected BTEX from MW #2 only.

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 10-Jul-02

Client:	Blagg Engineering	Client Sample Info:	XTO - Garcia GC B #1
Work Order:	0206048	Client Sample ID:	MW #2
Lab ID:	0206048-01A	Matrix:	AQUEOUS
Project:	XTO - Garcia GC B#1	Collection Date:	06/25/2002 8:20:00 AM
		COC Record:	11781

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DWC		
Benzene	ND	5		µg/L	10	06/27/2002
Toluene	7.9	5		µg/L	10	06/27/2002
Ethylbenzene	14	5		µg/L	10	06/27/2002
m,p-Xylene	460	10		µg/L	10	06/27/2002
o-Xylene	ND	5		µg/L	10	06/27/2002

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted precision limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Page: 1 of 1Page: 1 of 1

Distribution:		White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
---------------	--	-----------------	--------------	----------------	--------------------

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
 Work Order: 0206048
 Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002	Prep Date: 06/27/2002
Client ID:	0206048	Run ID: GC-1_020627A		SeqNo: 52887	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	1054	0.5			
1,4-Difluorobenzene	107.6	0			J
4-Bromochlorobenzene	118.6	0			
Fluorobenzene	109.7	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206048
Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0206041-01AMS		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID: 0206048		Run ID: 020627A		SeqNo: 52888							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1171	5	400	769.1	100.6%	70	130				
Ethylbenzene	763.9	5	400	352.2	102.9%	70	130				
m,p-Xylene	1554	10	800	774.5	97.4%	70	130				
Methyl tert-Butyl Ether	601.3	10	400	205	99.1%	70	130				
o-Xylene	474.6	5	400	88.25	96.6%	70	130				
Toluene	597.6	5	400	204.9	98.2%	70	130				
1,4-Difluorobenzene	1065	0	1100	0	96.8%	70	130				
4-Bromochlorobenzene	1210	0	1100	0	110.0%	70	130				
Fluorobenzene	1087	0	1100	0	98.8%	70	130				

Sample ID: 0206041-01AMS		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID: 0206048		Run ID: 020627A		SeqNo: 52889							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1127	5	400	769.1	89.6%	70	130	1171	3.8%	15	
Ethylbenzene	735.7	5	400	352.2	95.9%	70	130	763.9	3.8%	15	
m,p-Xylene	1498	10	800	774.5	90.5%	70	130	1554	3.6%	15	
Methyl tert-Butyl Ether	591.9	10	400	205	96.7%	70	130	601.3	1.6%	15	
o-Xylene	460.1	5	400	88.25	93.0%	70	130	474.6	3.1%	15	
Toluene	574.8	5	400	204.9	92.5%	70	130	597.6	3.9%	15	
1,4-Difluorobenzene	1054	0	1100	0	95.9%	70	130	0	0.0%	0	
4-Bromochlorobenzene	1208	0	1100	0	109.8%	70	130	0	0.0%	0	
Fluorobenzene	1084	0	1100	0	98.5%	70	130	0	0.0%	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206048
Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002				Prep Date: 06/27/2002	
Client ID:		0206048		Run ID: GC-1_020627A				SeqNo: 52886					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	38.85	0.5	40	0	97.1%	80	120						
Ethylbenzene	39.46	0.5	40	0	98.7%	80	120						
m,p-Xylene	78.4	1	80	0	98.0%	80	120						
Methyl tert-Butyl Ether	39.58	1	40	0	99.0%	80	120						
o-Xylene	38.05	0.5	40	0	95.1%	80	120						
Toluene	37.88	0.5	40	0.1054	94.4%	80	120						
1,4-Difluorobenzene	106.6	0	110	0	97.0%	70	130						
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130						
Fluorobenzene	108.9	0	110	0	99.0%	70	130						

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Jul-02

CLIENT: Blagg Engineering
Work Order: 0206048
Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002			Prep Date: 06/27/2002		
Client ID:		0206048		Run ID:		GC-1_020627A		SeqNo: 52883					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	20.08	0.5	20	0	100.4%	85	115						
Ethylbenzene	20.33	0.5	20	0	101.6%	85	115						
m,p-Xylene	40.7	1	40	0	101.7%	85	115						
Methyl tert-Butyl Ether	19.9	1	20	0	99.5%	85	115						
o-Xylene	19.56	0.5	20	0	97.8%	85	115						
Toluene	19.51	0.5	20	0	97.5%	85	115						
1,4-Difluorobenzene	106.7	0	110	0	97.0%	70	130						
4-Bromochlorobenzene	117.7	0	110	0	107.0%	70	130						
Fluorobenzene	109.6	0	110	0	99.6%	70	130						

Sample ID: CCV2_020627	Batch ID: GC-1_020627	Test Code: SW8021B	Units: µg/L	Analysis Date: 06/27/2002				Prep Date: 06/27/2002				
Client ID:	0206048	Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		GC-1_020627A										
Analyte	Result											
Benzene	19.17	0.5		20	0	95.9%	85	115				
Ethylbenzene	19.37	0.5		20	0	96.9%	85	115				
m,p-Xylene	38.18	1		40	0	95.4%	85	115				
Methyl tert-Butyl Ether	18.95	1		20	0	94.7%	85	115				
o-Xylene	18.69	0.5		20	0	93.5%	85	115				
Toluene	18.54	0.5		20	0	92.7%	85	115				
1,4-Difluorobenzene	109.1	0		110	0	99.2%	70	130				
4-Bromochlorobenzene	123.6	0		110	0	112.4%	70	130				
Fluorobenzene	111.7	0		110	0	101.6%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0206048
Project: XTO - Garcia GC B#1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3_020627		Batch ID: GC-1_020627		Test Code: SW8021B		Units: µg/L		Analysis Date: 06/27/2002		Prep Date: 06/27/2002	
Client ID: 0206048		Run ID: GC-1_020627A		PQL		SPK value		SeqNo: 52885			
Analyte	Result			SPK Ref Val		%REC		LowLimit	HighLimit	RPD Ref Val	Qual
Benzene	38.74	0.5		40		0		85	115		
Ethylbenzene	38.89	0.5		40		0		85	115		
m,p-Xylene	76.38	1		80		0		85	115		
Methyl tert-Butyl Ether	38.49	1		40		0		85	115		
o-Xylene	37.42	0.5		40		0		85	115		
Toluene	37.56	0.5		40		0		85	115		
1,4-Difluorobenzene	107.9	0		110		0		70	130		
4-Bromochlorobenzene	119.1	0		110		0		70	130		
Fluorobenzene	111.5	0		110		0		70	130		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0206048
Project: XTO - Garcia GC B#1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0206028-01A	88	100	105
0206029-01A	99.2	109	102
0206030-01A	90.1	103	102
0206030-03A	96.5	111	100
0206031-02A	98.4	110	102
0206031-04A	92.1	107	95.5
0206039-01A	91.8	112	95.2
0206041-01A	96.6	110	99
0206041-01AMS	96.8	110	98.8
0206041-01AMSD	95.8	110	98.5
0206041-02A	98.1	112	101
0206048-01A	97.7	109	101
0206049-01A	97.6	106	100
0206049-02A	95.9	107	99.7
0206050-02A	99.5	113	102
0206052-01A	96.3	106	100
CV1_020627	97	107	99.6
CCV2_020627	99.2	112	102
CCV3_020627	98.1	108	101
ILCS_020627	97	109	99
MB_020627	97.8	108	99.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : 11999

LOCATION : GARCIA GC B # 1

LABORATORY (S) USED : ON - SITE TECH.

Date : August 27, 2002

SAMPLER : N J V

Filename : 08-27-02.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	63.54	28.95	37.00	-	-	-	-	-
2	89.38	63.65	25.73	35.00	0920	6.89	700	4.50	-
3	88.46	63.77	24.69	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Fair recovery in MW #2 . Collected BTEX from MW #2 only .

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 30-Aug-02

Client:	Blagg Engineering	Client Sample Info:	XTO - Garcia GC B #1
Work Order:	0208021	Client Sample ID:	MW #2
Lab ID:	0208021-01A	Matrix:	AQUEOUS
Project:	XTO - Garcia GC B#1	Collection Date:	08/27/2002 9:20:00 AM
		COC Record:	11999

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HNR		
Benzene	ND	2.5		µg/L	5	08/28/2002
Toluene	ND	2.5		µg/L	5	08/28/2002
Ethylbenzene	15	2.5		µg/L	5	08/28/2002
m,p-Xylene	420	5		µg/L	5	08/28/2002
o-Xylene	ND	2.5		µg/L	5	08/28/2002

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date:

Page: 1 of 1[illegible]

ina bá, Ltd.

Date: 30-Aug-02

CLIENT: Blagg Engineering

Work Order: 0208021

Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020828	Batch ID: GC-1_020828	Test Code: SW8021B	Units: µg/L	Analysis Date: 08/28/2002				Prep Date: 08/28/2002			
Client ID:	0208021	Run ID: GC-1_020828A			SeqNo: 57449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1393	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	.1102	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.2127	0.5									J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iiiná bá, Ltd.

Date: 30-Aug-02

CLIENT: Blagg Engineering

Work Order: 0208021

Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0208021-01AMS		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002			Prep Date: 08/28/2002		
Client ID: MW #2		0208021		Run ID: GC-1_020828A				SeqNo: 57450					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene		171.6	2.5	200	0.5	85.5%	70	130					
Ethylbenzene		195.5	2.5	200	15	90.2%	70	130					
m,p-Xylene		722.5	5	400	420	75.6%	70	130					
Methyl tert-Butyl Ether		177.3	5	200	0	88.7%	70	130					
o-Xylene		180.3	2.5	200	0	90.2%	70	130					
Toluene		192.7	2.5	200	0	96.4%	70	130					

Sample ID: 0208021-01AMSD		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002			Prep Date: 08/28/2002	
Client ID: MW #2		0208021		Run ID: GC-1_020828A				SeqNo: 57451				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	174.5	2.5	200	0.5	87.0%	70	130	171.6	1.7%	15		
Ethylbenzene	195.1	2.5	200	15	90.1%	70	130	195.5	0.2%	15		
m,p-Xylene	717.6	5	400	420	74.4%	70	130	722.5	0.7%	15		
Methyl tert-Butyl Ether	176	5	200	0	88.0%	70	130	177.3	0.8%	15		
o-Xylene	175.3	2.5	200	0	87.6%	70	130	180.3	2.8%	15		
Toluene	196.9	2.5	200	0	98.5%	70	130	192.7	2.2%	15		

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

imá bá, Ltd.

Date: 30-Aug-02

CLIENT: Blagg Engineering

Work Order: 0208021

Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020828	Batch ID: GC-1_020828	Test Code: SW8021B	Units: µg/L	Analysis Date: 08/28/2002	Prep Date: 08/28/2002
Client ID: 0208021	Run ID: GC-1_020828A	PQL	SPK value	SeqNo: 57448	
Analyte	Result			LowLimit	HighLimit
Benzene	39.56	0.5	40	80	120
Ethylbenzene	38.77	0.5	40	80	120
m,p-Xylene	77.39	1	80	80	120
Methyl tert-Butyl Ether	37.04	1	40	80	120
o-Xylene	37.02	0.5	40	80	120
Toluene	37.18	0.5	40	80	120
		%REC		RPD Limit	Qual
		98.6%			
		96.9%			
		96.6%			
		92.6%			
		92.5%			
		92.4%			

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	

ina bá, Ltd.

Date: 30-Aug-02

CLIENT: Blagg Engineering

Work Order: 0208021

Project: XTO - Garcia GC B#1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020828		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002		Prep Date: 08/28/2002	
Client ID: 0208021		Run ID: 0208021		GC-1_020828A				SeqNo: 57444			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.75	0.5	40	0	96.9%	85	115				
Ethylbenzene	38.46	0.5	40	0	96.1%	85	115				
m,p-Xylene	76.89	1	80	0	96.1%	85	115				
Methyl tert-Butyl Ether	38.29	1	40	0	95.7%	85	115				
o-Xylene	36.62	0.5	40	0	91.6%	85	115				
Toluene	36.86	0.5	40	0	92.1%	85	115				
1,4-Difluorobenzene	107.9	0	110	0	98.1%	70	130				
4-Bromochlorobenzene	126	0	110	0	114.6%	70	130				
Fluorobenzene	105.7	0	110	0	96.1%	70	130				

Sample ID: CCV2_020828		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002		Prep Date: 08/28/2002	
Client ID: 0208021		Run ID: 0208021		GC-1_020828A				SeqNo: 57445			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.06	0.5	40	0	92.6%	85	115				
Ethylbenzene	37.84	0.5	40	0	94.6%	85	115				
m,p-Xylene	76.89	1	80	0	96.1%	85	115				
Methyl tert-Butyl Ether	37.71	1	40	0	94.3%	85	115				
o-Xylene	36.64	0.5	40	0	91.6%	85	115				
Toluene	36.28	0.5	40	0	90.7%	85	115				
1,4-Difluorobenzene	106.3	0	110	0	96.6%	70	130				
4-Bromochlorobenzene	124.8	0	110	0	113.5%	70	130				
Fluorobenzene	103.8	0	110	0	94.3%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
Work Order: 0208021
Project: XTO - Garcia GC B#1

Sample ID: CCV3_020828		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002		Prep Date: 08/28/2002	
Client ID: 0208021		Run ID: GC-1_020828A		SeqNo: 57446							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.35	0.5	40	0	93.4%	85	115				
Ethylbenzene	39.34	0.5	40	0	98.3%	85	115				
m,p-Xylene	78.68	1	80	0	98.3%	85	115				
Methyl tert-Butyl Ether	36.67	1	40	0	91.7%	85	115				
o-Xylene	37.64	0.5	40	0	94.1%	85	115				
Toluene	37.48	0.5	40	0	93.7%	85	115				
1,4-Difluorobenzene	104.8	0	110	0	95.3%	70	130				
4-Bromochlorobenzene	125.6	0	110	0	114.1%	70	130				
Fluorobenzene	102.5	0	110	0	93.2%	70	130				

Sample ID: CCV4_020828		Batch ID: GC-1_020828		Test Code: SW8021B		Units: µg/L		Analysis Date: 08/28/2002		Prep Date: 08/28/2002	
Client ID: 0208021		Run ID: GC-1_020828A		SeqNo: 57447							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	35.72	0.5	40	0	89.3%	85	115				
Ethylbenzene	37.14	0.5	40	0	92.8%	85	115				
m,p-Xylene	74.08	1	80	0	92.6%	85	115				
Methyl tert-Butyl Ether	37.36	1	40	0	93.4%	85	115				
o-Xylene	35.72	0.5	40	0	89.3%	85	115				
Toluene	35.44	0.5	40	0	88.6%	85	115				
1,4-Difluorobenzene	105.3	0	110	0	95.7%	70	130				
4-Bromochlorobenzene	130.9	0	110	0	119.0%	70	130				
Fluorobenzene	101.8	0	110	0	92.5%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

iina ba, Ltd.

Date: 30-Aug-02

CLIENT: Blagg Engineering
 Work Order: 0208021
 Project: XTO - Garcia GC B#1
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0208015-01A	96.2	113	93.4
0208016-01A	96.7	119	95.9
0208016-02A	96.4	112	94.3
0208016-03A	96.8	115	95.4
0208018-01A	93	113	91
0208018-02A	96.4	117	98.2
0208020-01A	96.5	115	95.2
0208021-01A	95.4	116	94.4
0208021-01AMS	89.2	112	87.6
0208021-01AMSD	89.1	107	86.9
0208022-01A	97	116	95.2
CCV1_020828	98.1	114	96.1
CCV2_020828	96.6	113	94.3
CCV3_020828	95.3	114	93.2
CCV4_020828	95.7	119	92.5
LCS_020828	95.5	114	96.7
FB_020828	97.4	114	96

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : **XTO ENERGY, INC.**

CHAIN-OF-CUSTODY # : **12151**

LOCATION : **GARCIA GC B # 1**

LABORATORY (S) USED : **ON - SITE TECH.**

Date : **December 9, 2002**

SAMPLER : **N J V**

Filename : **12-09-02.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	92.49	60.93	31.56	37.00	-	-	-	-	-
2	89.38	60.93	28.45	35.00	1535	7.48	500	3.25	-
3	88.46	60.90	27.56	38.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Fair recovery in MW # 2 . Collected BTEX from MW # 2 only .

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 18-Dec-02

CLIENT: Blagg Engineering
Work Order: 0212007
Project: XTO - Garcia GC B#1
Lab ID: 0212007-001A

Client Sample Info: XTO - Garcia GC B#1
Client Sample ID: MW #2
Collection Date: 12/9/2002 3:35:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	2.5		µg/L	5	12/11/2002
Ethylbenzene	29	2.5		µg/L	5	12/11/2002
m,p-Xylene	1100	5.0		µg/L	5	12/11/2002
o-Xylene	3.4	2.5		µg/L	5	12/11/2002
Toluene	8.3	2.5		µg/L	5	12/11/2002

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 1

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

Date: 12/31/20

Page: 1 of 1

CHAIN OF CUSTODY RECORD



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

[illegible]

iina ba, Ltd.

Sample Receipt Checklist

Client Name: **BLA1002**

Date and Time Received:

12/10/2002

Work Order Number: **0212007**

Received by: **JEM**

Checklist completed by:

J. Moore
Signature

12/10/02
Date

Reviewed by:

JEM
Initials

12/11/02
Date

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? NO

Checked by: JEM

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

CLIENT: Blagg Engineering
Work Order: 0212007
Project: XTO - Garcia GC B#1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_021211	SampType: MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A						
Client ID: ZZZZZ		Batch ID: R4145	TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60789						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		0.1207	0.50									J
Ethylbenzene		0.1336	0.50									J
m,p-Xylene		0.522	1.0									J
o-Xylene		0.1323	0.50									J
Toluene		0.1878	0.50									J

Sample ID	LCS_021211	SampType: LCS	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A						
Client ID: ZZZZZ		Batch ID: R4145	TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60788						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		37.12	0.50	40	0.1207	92.5	88	110	0	0		
Ethylbenzene		37.6	0.50	40	0.1336	93.7	90	110	0	0		
m,p-Xylene		74.94	1.0	80	0.522	93	86	110	0	0		
o-Xylene		37.35	0.50	40	0.1323	93	89	110	0	0		
Toluene		37.18	0.50	40	0.1878	92.5	87	110	0	0		

Sample ID	0212007-001AMS	SampType:	MS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	12/11/2002	Run ID:	GC-1_021211A			
Client ID:	MW #2	Batch ID:	R4145	TestNo:	SW8021B			Analysis Date:	12/11/2002	SeqNo:	60790			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		179.7	2.5	200	1.288	89.2	84	106	0	0		
Ethylbenzene		210.4	2.5	200	28.81	90.8	84	111	0	0		
m,p-Xylene		1414	5.0	400	1090	81	80	118	0	0		
o-Xylene		184.2	2.5	200	3.442	90.4	83	108	0	0		
Toluene		204.9	2.5	200	8.288	98.3	86	105	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0212007
Project: XTO - Garcia GC B#1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	0212007-001AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A					
Client ID: MW #2	Batch ID: R4145		TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60791					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	174.6	2.5	200	1,288	86.6	80	106	179.7	2.90	5	
Ethylbenzene	204.4	2.5	200	28.81	87.8	82	108	210.4	2.90	5	
m,p-Xylene	1375	5.0	400	1090	71.2	80	113	1414	2.80	5	S
o-Xylene	181.3	2.5	200	3,442	89	82	105	184.2	1.56	4	
Toluene	196.6	2.5	200	8,288	94.2	83	105	204.9	4.13	5	

Sample ID	CCV1_021211	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A					
Client ID:	ZZZZ	Batch ID: R4145	TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60785					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.25	0.50	20	0	96.2	85	115	0	0		
Ethylbenzene	19.48	0.50	20	0	97.4	85	115	0	0		
m,p-Xylene	38.72	1.0	40	0	96.8	85	115	0	0		
o-Xylene	19.26	0.50	20	0	96.3	85	115	0	0		
Toluene	19.27	0.50	20	0	96.4	85	115	0	0		

Sample ID	CCV2_021211	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A					
Client ID:	ZZZZ	Batch ID: R4145	TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60786					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	38.14	0.50	40	0	95.3	85	115	0	0		
Ethylbenzene	38.97	0.50	40	0	97.4	85	115	0	0		
m,p-Xylene	77.45	1.0	80	0	96.8	85	115	0	0		
o-Xylene	38.31	0.50	40	0	95.8	85	115	0	0		
Toluene	38.35	0.50	40	0	95.9	85	115	0	0		

Sample ID	CCV3_021211	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 12/11/2002	Run ID: GC-1_021211A					
Client ID: ZZZZ		Batch ID: R4145	TestNo: SW8021B		Analysis Date: 12/11/2002	SeqNo: 60787					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.39	0.50	20	0	96.9	85	115	0	0		
---------	-------	------	----	---	------	----	-----	---	---	--	--

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0212007
Project: XTO - Garcia GC B#1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	CCV3_021211	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	12/11/2002	Run ID:	GC-1_021211A
Client ID:	ZZZZZ	Batch ID:	R4145	TestNo:	SW8021B			Analysis Date:	12/11/2002	SeqNo:	60787
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.64	0.50	20	0	98.2	85	115	0	0		
m,p-Xylene	37.63	1.0	40	0	94.1	85	115	0	0		
o-Xylene	19.16	0.50	20	0	95.8	85	115	0	0		
Toluene	19.23	0.50	20	0	96.2	85	115	0	0		

iina ba, Ltd.

Date: 18-Dec-02

CLIENT: Blagg Engineering
Work Order: 0212007
Project: XTO - Garcia GC B#1
Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ				
0212007-001A	98.5	111	94.7				
0212007-001A	97.7	109	95.3				
0212007-001A	98.1	111	96.5				
0212007-001AMS	98.5	111	94.7				
0212007-001AMSD	97.7	109	95.3				
CCV1_021211	100	112	97.2				
CCV2_021211	101	112	97.4				
CCV3_021211	102	110	98.5				
LCS_021211	99.9	113	96.0				
MB_021211	100	116	96.8				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY, INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B #1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 27, 2003

SAMPLER : NJV

Filename : 06-27-03.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	63.39	29.10	37.00	-	-	-	-	-
2	89.38	63.63	25.75	35.00	0650	7.13	500	21.8	4.50
3	88.46	63.91	24.55	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS = 7.00 2,800

DATE & TIME = 06/27/03 06:45

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

Excellent recovery in MW #2. Collected BTEX from MW #2 only.

Hall Environmental Analysis Laboratory

Date: 10-Jul-03

CLIENT: Blagg Engineering
Lab Order: 0306209
Project: Garcia GC B #1
Lab ID: 0306209-01

Client Sample ID: MW #2
Collection Date: 6/27/2003 6:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	10		µg/L	10	7/8/2003
Toluene	ND	10		µg/L	10	7/8/2003
Ethylbenzene	ND	10		µg/L	10	7/8/2003
Xylenes, Total	330	10		µg/L	10	7/8/2003
Surr: 1,2-Dichloroethane-d4	102	82.1-124		%REC	10	7/8/2003
Surr: 4-Bromofluorobenzene	112	76.2-122		%REC	10	7/8/2003
Surr: Dibromofluoromethane	95.3	67.2-131		%REC	10	7/8/2003
Surr: Toluene-d8	109	82.1-123		%REC	10	7/8/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: <u>BLA G-1 XTO ENERGY</u>		Project Name: <u>GARCIA GC B #1</u>					
Address: <u>P.O. BOX 87</u>		Project #:					
<u>B.L.F.O. NM 87413</u>		Project Manager: <u>NELSON VELEZ</u>					
Phone #: <u>505 - 632 - 1199</u>		Sampler: <u>NELSON VELEZ</u>					
Fax #: <u>505 - 632 - 3903</u>		Samples Cold? ☒ Yes ☐ No					
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HCl	
6/27/03	0650	WATER	MW #2	2-40ml	✓		034209-1
Date: <u>6/30/03</u>	Time: <u>0325</u>	Relinquished By: (Signature) <u>Nelson Velez</u>		Received By: (Signature) <u>Nelson Velez</u>		6/30/03	
Date: <u> </u>	Time: <u> </u>	Relinquished By: (Signature) <u> </u>		Received By: (Signature) <u> </u>			

Hall Environmental Analysis Laboratory

Date: 10-Jul-03

CLIENT: Blagg Engineering
Work Order: 0306209
Project: Garcia GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID	5ml rb	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date	7/8/2003	Prep Date				
Client ID:		Run ID:	THOR_030708A		SeqNo:	198240					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	1.0									
Surr: 1,2-Dichloroethane-d4	10.03	0	10	0	100	82.1	124	0			
Surr: 4-Bromofluorobenzene	11.28	0	10	0	113	76.2	122	0			
Surr: Dibromofluoromethane	9.57	0	10	0	95.7	67.2	131	0			
Surr: Toluene-d8	10.56	0	10	0	106	82.1	123	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 10-Jul-03

CLIENT: Blagg Engineering
Work Order: 0306209
Project: Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	50ng ccv	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date 7/8/2003	Prep Date					
Client ID:			Run ID: THOR_030708A		SeqNo: 198241						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9.914	1.0	10	0	99.1	85.3	120	0			
Toluene	10.71	1.0	10	0	107	82.5	120	0			
Ethylbenzene	10.38	1.0	10	0	104	80	120	0			
Xylenes, Total	31.28	1.0	30	0	104	80	120	0			

Sample ID: 100ng lcs	Batch ID: R8785	Test Code: SW8260B	Units: µg/L	Analysis Date 7/8/2003	Prep Date						
Client ID:		Run ID: THOR_030708A		SeqNo: 198235							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.11	1.0	20	0	95.5	71.2	122	0			
Toluene	21.83	1.0	20	0	109	87.7	122	0			
Chlorobenzene	23.65	1.0	20	0	118	85.6	136	0			
1,1-Dichloroethene	17.16	1.0	20	0	85.8	70.7	117	0			
Trichloroethene (TCE)	18.61	1.0	20	0	93.1	76.9	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

6/30/03

Work Order Number **0306209**

Received by **AT**

Checklist completed by

Signature

Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	2°	4° C ± 2 Acceptable	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B #1 - BLOW PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT J, SEC. 21, T29N, R10W

Date : August 25, 2003

SAMPLER : NJV

Filename : 08-25-03.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	63.89	28.60	37.00	-	-	-	-	-
2	89.38	64.04	25.34	35.00	0905	6.88	700	19.1	4.75
3	88.46	64.23	24.23	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

08/25/03 0910

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2"

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65 .

Excellent recovery in MW #2 . Collected BTEX from MW #2 only .

Hall Environmental Analysis Laboratory

Date: 05-Sep-03

CLIENT: Blagg Engineering
Lab Order: 0308201
Project: Garcia GC B #1
Lab ID: 0308201-01

Client Sample ID: MW #2
Collection Date: 8/25/2003
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.5		µg/L	5	9/3/2003 1:32:04 PM
Toluene	3.4	2.5		µg/L	5	9/3/2003 1:32:04 PM
Ethylbenzene	6.9	2.5		µg/L	5	9/3/2003 1:32:04 PM
Xylenes, Total	110	2.5		µg/L	5	9/3/2003 1:32:04 PM
Surr: 4-Bromofluorobenzene	93.6	74-118		%REC	5	9/3/2003 1:32:04 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Client: BLISS ENGR. / XTO ENERGY

Address: P.O. Box 87

BLANFELD, Nn 87413

Phone #: (505) 632-1199

Fax #: (505) 632-3903

Date	Time	Matrix	Sample I.D. No.
------	------	--------	-----------------

12/25/03	0705	WATER	MW #2
----------	------	-------	-------

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

[illegible][illegible]

--	--	--	--

[illegible]

--	--	--	--	--

--	--	--	--

Date: / Time: Relinquished By: (Signature) /

Date: _____

Time: _____

Relinquished By: (Signature) _____

Accreditation Agency: ☐ NELAC ☐ USACE ☐

Other:

Project Name:

GARCIA GC 8 #

ect #:

Project Manager:

Nelson Velez

Player: Nelson Velez

Sample Temperature: 126°

	Number/Volume	1000000
--	---------------	---------

-40ml	✓				
-------	---	--	--	--	--

[illegible]

--	--	--	--	--

--	--	--	--

[illegible]

--	--	--	--	--	--

Remarks: 7/6

Remarks:

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.345.
www.hallenvironmental.com

ANALYSIS REQUEST

[illegible]

Remarks:

Remarks: *Lane Moore* 8/26/03 1632

Relinquished By: (Signature)
[Signature]

Date:	Time:
8/26/03	0735

Remarks:

Relinquished By: (Signature)

Date: _____ Time: _____

Hall Environmental Analysis Laboratory

Date: 05-Sep-03

CLIENT: Blagg Engineering
Work Order: 0308201
Project: Garcia GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID: Reagent Blank 5m		Batch ID: R9418		Test Code: SW8021		Units: µg/L		Analysis Date: 8/29/2003 10:39:46 AM			Prep Date:	
Client ID:				Run ID: PIDFID_030829A		SeqNo: 212264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.50										
Toluene	ND	0.50										
Ethylbenzene	ND	0.50										
Xylenes, Total	ND	0.50										
Surr: 4-Bromofluorobenzene	19.29	0	20	0	96.5	74	118	0				

Sample ID: Reagent Blank 5m	Batch ID: R9437	Test Code: SW8021	Units: µg/L	Analysis Date: 9/3/2003 8:59:47 AM	Prep Date:						
Client ID:		Run ID: PIDFID_030903A		SeqNo: 212592							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	19.95	0	20	0	99.8	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

1

Hall Environmental Analysis Laboratory

Date: 05-Sep-03

CLIENT: Blagg Engineering
Work Order: 0308201
Project: Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: BTEX Std 100ng	Batch ID: R9418	Test Code: SW8021	Units: µg/L	Analysis Date: 8/29/2003 9:12:57 PM		Prep Date:					
Client ID:		Run ID: PIDFID_030829A		SeqNo: 212317							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.73	0.50	20	0	109	81.3	121	0			
Toluene	21.76	0.50	20	0	109	84.9	118	0			
Ethylbenzene	21.52	0.50	20	0	108	53.8	149	0			
Xylenes, Total	65.57	0.50	60	0	109	83.1	122	0			

Sample ID: BTEX Std 100ng		Batch ID: R9418		Test Code: SW8021		Units: µg/L		Analysis Date: 8/30/2003 3:54:48 AM				Prep Date:	
Client ID:				Run ID: PIDFID_030829A				SeqNo: 212320					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	21.05	0.50	20	0	105	81.3	121	21.73	3.19	27			
Toluene	21.57	0.50	20	0	108	84.9	118	21.76	0.894	19			
Ethylbenzene	19.99	0.50	20	0	99.9	53.8	149	21.52	7.37	10			
Xylenes, Total	62.66	0.50	60	0	104	83.1	122	65.57	4.53	13			

Sample ID: BTEX Std 75ng	Batch ID: R9437	Test Code: SW8021	Units: µg/L	Analysis Date: 9/3/2003 10:01:20 AM	Prep Date:						
Client ID:		Run ID: PIDFID_030903A		SeqNo: 212672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.18	0.50	15	0	101	81.3	121	0			
Toluene	15.19	0.50	15	0	101	84.9	118	0			
Ethylbenzene	14.95	0.50	15	0	99.7	53.8	149	0			
Xylenes, Total	45.68	0.50	45	0	102	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

CLIENT: Blagg Engineering
Work Order: 0308201
Project: Garcia GC B #1

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID: BTEX Std 75ng	Batch ID: R9437	Test Code: SW8021	Units: µg/L	Analysis Date: 9/3/2003 5:12:07 PM		Prep Date:					
Client ID:		Run ID: PIDFID_030903A		SeqNo: 212673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.52	0.50	15	0	103	81.3	121	15.18	2.24	27	
Toluene	15.46	0.50	15	0	103	84.9	118	15.19	1.77	19	
Ethylbenzene	15.32	0.50	15	0	102	53.8	149	14.95	2.45	10	
Xylenes, Total	47.08	0.50	45	0	105	83.1	122	45.68	3.01	13	

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

8/26/03

Work Order Number **0308202**

Received by **AT**

Checklist completed by

Signature

Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	12°	4° C ± 2 Acceptable	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

GARCIA GC B #1 - BLOW PIT
UNIT J, SEC. 21, T29N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : November 19, 2003

SAMPLER : NJV

Filename : 11-19-03.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49		-	37.00	-	-	-	-	-
2	89.38	61.70	27.68	35.00	1505	7.02	500	16.2	3.50
3	88.46		-	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	11/11/03	0730

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #2. Collected BTEX from MW #2 only.

Hall Environmental Analysis Laboratory

Date: 01-Dec-03

CLIENT: Blagg Engineering
Lab Order: 0311159
Project: Garcia GC B #1
Lab ID: 0311159-01

Client Sample ID: MW #2
Collection Date: 11/19/2003 3:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.5		µg/L	5	12/1/2003 2:41:22 AM
Toluene	ND	2.5		µg/L	5	12/1/2003 2:41:22 AM
Ethylbenzene	17	2.5		µg/L	5	12/1/2003 2:41:22 AM
Xylenes, Total	300	2.5		µg/L	5	12/1/2003 2:41:22 AM
Surr: 4-Bromofluorobenzene	107	74-118		%REC	5	12/1/2003 2:41:22 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

ANALYSIS LABORATORY

Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Project #:

Project Manager: NJV

Sampler: NJU

Sample Temperature: 15°

[illegible]

Remarks:	11/20/03
	1644

Remarks:

BTEx + MTBE + TMB's (80218)	BTEx + MTBE + TMB's (80218)
BTEx + MTBE + TPH (Gasoline Only)	BTEx + MTBE + TPH (Gasoline Only)
TPH Method 8015B MOD (Gas/Diesel)	TPH Method 8015B MOD (Gas/Diesel)
TPH (Method 418.1)	TPH (Method 418.1)
EDB (Method 504.1)	EDB (Method 504.1)
EDC (Method 802.1)	EDC (Method 802.1)
8310 (PNA or PAH)	8310 (PNA or PAH)
RCRA 8 Metals	RCRA 8 Metals
Cations (Na, K, Ca, Mg)	Cations (Na, K, Ca, Mg)
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
8081 Pesticides / PCB's (8082)	8081 Pesticides / PCB's (8082)
8260 (VOA)	8260 (VOA)
8270 (Semi-VOA)	8270 (Semi-VOA)
Air Bubbles or Headspace (Y or N)	Air Bubbles or Headspace (Y or N)

Remarks:

Remarks:	11/20/03
	1644

Remarks:

Hall Environmental Analysis Laboratory

Date: 01-Dec-03

CLIENT: Blagg Engineering
Work Order: 0311159
Project: Garcia GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R10208	Test Code: SW8021	Units: µg/L	Analysis Date	11/30/2003 1:57:24 PM	Prep Date				
Client ID:		Run ID: PIDFID_031130A			SeqNo:	229168					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	19.59	0	20	0	97.9	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 01-Dec-03

CLIENT: Blagg Engineering

Work Order: 0311159

Project: Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID: R10208	Test Code: SW8021	Units: µg/L	Analysis Date	11/30/2003 2:58:49 PM	Prep Date				
Client ID:		Run ID:	PIDFID_031130A		SeqNo:	229186					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.23	0.50	20	0	111	81.3	121	0			
Toluene	21.34	0.50	20	0	107	84.9	118	0			
Ethylbenzene	20.48	0.50	20	0	102	53.8	149	0			
Xylenes, Total	62.37	0.50	60	0	104	83.1	122	0			

Sample ID	BTEX Std 100ng	Batch ID: R10208	Test Code: SW8021	Units: µg/L	Analysis Date	12/1/2003 1:09:48 AM	Prep Date				
Client ID:		Run ID:	PIDFID_031130A		SeqNo:	229189					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.38	0.50	20	0	107	81.3	121	22.23	3.91	27	
Toluene	19.81	0.50	20	0	99.0	84.9	118	21.34	7.44	19	
Ethylbenzene	19.28	0.50	20	0	96.4	53.8	149	20.48	6.05	10	
Xylenes, Total	59.67	0.50	60	0	99.5	83.1	122	62.37	4.42	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

11/20/2003

Work Order Number 0311159

Received by **AT**

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Container/Temp Blank temperature?

1°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**CLIENT: **XTO ENERGY INC.**CHAIN-OF-CUSTODY #: **N / A****GARCIA GC B #1 - BLOW PIT**LABORATORY (S) USED: **HALL ENVIRONMENTAL****UNIT J, SEC. 21, T29N, R10W**Date: **March 30, 2004**SAMPLER: **N J V**Filename: **03-30-04.WK4**PROJECT MANAGER: **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	92.49	59.76	32.73	37.00	-	-	-	-	-
2	89.38	59.88	29.50	35.00	0910	7.16	600	14.5	2.75
3	88.46	59.97	28.49	38.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

7.00

2,800

DATE & TIME =

03/27/04

0800

NOTES: Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #2. Collected BTEX from MW #2 only.

Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering
Lab Order: 0403261
Project: Garcia GC B #1
Lab ID: 0403261-01

Client Sample ID: MW #2
Collection Date: 3/30/2004 9:10:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.5		µg/L	5	4/1/2004 1:50:54 PM
Toluene	ND	2.5		µg/L	5	4/1/2004 1:50:54 PM
Ethylbenzene	28	2.5		µg/L	5	4/1/2004 1:50:54 PM
Xylenes, Total	640	2.5		µg/L	5	4/1/2004 1:50:54 PM
Surr: 4-Bromofluorobenzene	127	74-118	S	%REC	5	4/1/2004 1:50:54 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4901
www.hallenvironmental.com

Client: CLASS ENR. / XTO ENERGY

Address: P.O. BOX 67

Bloomfield, NM 87413

Phone #: 505-632-1199

Fax #: 505-632-3903

[illegible]

Date: 13/1/04	Time: 0900	Relinquished By: (Signature) <i>John Voj</i>	Received By: (Signature) <i>John Voj</i>
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature) 1655

Remarks:

ANALYSIS REQUEST

	BTEX + MTBE + TMBE (80219)	
	BTEX + MTBE + TPH (Gasoline Only)	
	TPH Method 8015B (Gas/Diesel)	
	TPH (Method 418.1)	
	EDB (Method 504.1)	
	EDC (Method 8021)	
	8310 (PNA or PAH)	
	HCPA & Metals	
	Anions (F^- , Cl^- , NO_3^- , PO_4^{3-} , SO_4^{2-})	
	8081 Pesticides / PCB's (8082)	
	8260B (VOA)	
	8270 (Semi-VOA)	
	Air Bubbles or Headspace (Y or N)	

Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering
Work Order: 0403261
Project: Garcia GC B #1

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R11486	Test Code: SW8021	Units: µg/L	Analysis Date	4/1/2004 8:07:11 AM	Prep Date					
Client ID:		Run ID: PIDFID_040401A			SeqNo:	263233						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	0.50									
Toluene		ND	0.50									
Ethylbenzene		ND	0.50									
Xylenes, Total		ND	0.50									
Surr: 4-Bromofluorobenzene		19.87	0	20	0	99.4	74	118	0			

3 / 5

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering
Work Order: 0403261
Project: Garcia GC B #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX STD 100ng	Batch ID: R11486	Test Code: SW8021	Units: µg/L	Analysis Date	4/1/2004 8:02:09 PM	Prep Date					
Client ID:	Run ID:	PIDFID_040401A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
Benzene	20.13	0.50	20	0	0	101	81.3	121	0			
Toluene	19.5	0.50	20	0	0	97.5	84.9	118	0			
Ethylbenzene	19.15	0.50	20	0	0	95.7	53.8	149	0			
Xylenes, Total	57.7	0.50	60	0	0	96.2	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

3/31/2004

Work Order Number 0403261

Received by **AT**

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐ Not Shipped ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Container/Temp Blank temperature?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering
Project: Garcia GC B #1
Lab Order: 0403261

CASE NARRATIVE

Analytical Comments for METHOD 8021BTEX_W, SAMPLE 0403261-01a: High surrogate recovery due to matrix interference.