

3R - 412

2007 AGWMR

MAR 2008

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

***HARE GAS COM I #1
(E) SECTION 23 – T29N – R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO***

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

January 2008

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Table 1:	Summary Groundwater Laboratory Results
Figure 1:	Site Map
Figures 2 - 5:	Potentiometric Surface Diagrams
Figures 6 - 7:	Geologic Logs and Well Completion Diagrams
Attachment 1:	2006 & 2007 Laboratory Reports

2007 XTO GROUNDWATER REPORT

HARE GAS COM I #1

SITE DETAILS

LEGALS - TWN: 29N RNG: 11W SEC: 23 UNIT: E
NMOCD HAZARD RANKING: 20 LAND TYPE: FEE

PREVIOUS ACTIVITIES

Excavation: Feb-04 (55 cy) Monitoring Well: Mar-04
Additional Monitoring Wells: May-05 Quarterly Sampling Initiated: Dec-06

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

A summary of laboratory results from historical and current groundwater monitoring is presented as Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2006 and 2007 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected from site monitoring activities indicate a groundwater gradient that trends towards the south with a slight southwest component. Figures 2 - 5 illustrate the estimated groundwater gradients for 2006 and 2007.

ANNUAL GROUNDWATER REMEDIATION REPORTS

The 2006 annual groundwater report was submitted to New Mexico Oil Conservation Division (NMOCD) in February 2007, proposing quarterly sampling of the groundwater monitoring wells, in accordance with the NMOCD approved Groundwater Management Plan.

2007 ACTIVITIES

Quarterly groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3 during the first, second and third quarters of 2007. Analytical results demonstrate benzene, toluene, ethyl benzene and total xylenes (BTEX) constituents in groundwater are not detectable for four (4) consecutive quarters in 2006 and 2007.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Report is presented as Figure 6 representing drilling that occurred on site in October 1999 for MW-1 at the Hare GC B #1E location and is currently being shared with Hare GC I #1. Figure 7 represents drilling that occurred on site in May 2005 for MW-3.

DISPOSITION OF GENERATED WASTES

Waste generated (groundwater) during monitoring well sampling and development was placed in the produced water tank located on the well site.

2007 XTO GROUNDWATER REPORT

CONCLUSIONS

January 1998 XTO Energy Inc. (XTO) acquired the Hare Gas Com I #1. In February 2004, after removal of a 21 barrel steel tank, hydrocarbon impact soil was encountered. After excavation of the underlying pit monitoring well MW-2 was installed at the center of the source area. MW-3 was installed in May 2006 to further delineate the extent of hydrocarbon impact to groundwater.

Groundwater analytical data from MW-1, MW-2, and MW-3 for four (4) consecutive quarters have demonstrated no detectable levels of BTEX constituents and New Mexico Water Quality Control Commission (NMWQCC) standards have been met. The quarterly sampling has confirmed no rebound of BTEX constituents has occurred, therefore, XTO requests closure of this site.

RECOMMENDATIONS

- XTO requests closure of this site.
- Following OCD approval for closure, all monitoring well locations will be abandoned in accordance with the monitoring well abandonment plan.

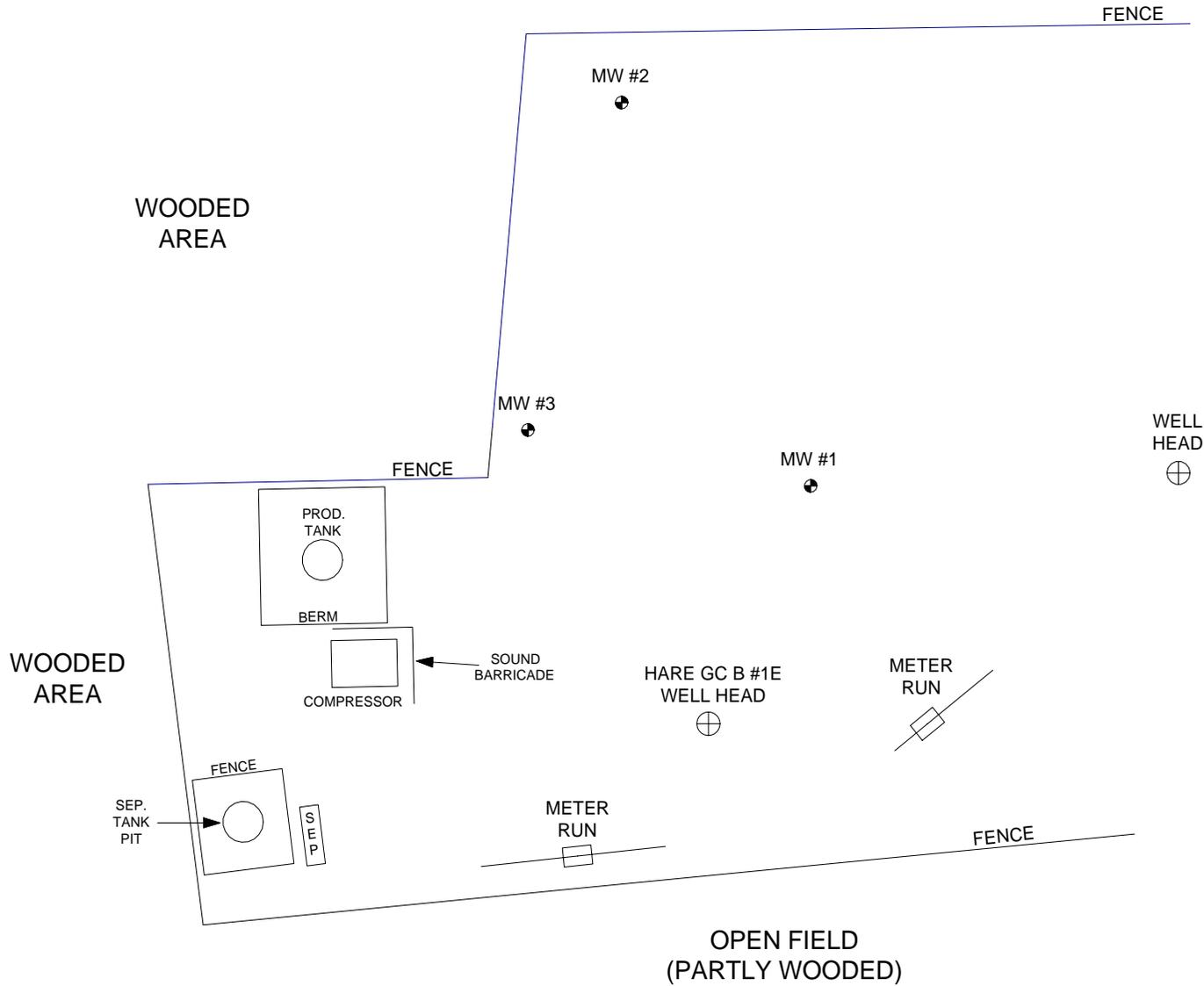
TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

HARE GC I #1 UNIT E, SEC. 23, T29N, R11W

Sample Date	Monitor Well No.	DTW (ft)	TD (ft)	Product (ft)	BTEX EPA Method 801 (PPB)			
					Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
7-Dec-06	MW #1	4.83	12.28		ND	ND	ND	ND
27-Mar-07		5.38	13.65		ND	ND	ND	ND
12-Jun-07		4.6	13.65		ND	ND	ND	ND
25-Sep-07		3.31	13.65		ND	ND	ND	ND
30-Mar-04	MW #2				15	35	5.2	58
28-Sep-04					ND	ND	ND	ND
30-Dec-04					ND	ND	ND	ND
24-Mar-05					8.5	ND	ND	ND
28-Jun-05					0.86	ND	ND	ND
7-Dec-06		5	15.16		ND	ND	ND	ND
27-Mar-07		5.72	15.15		ND	ND	ND	ND
12-Jun-07		4.02	15.15		ND	ND	ND	ND
25-Sep-07		3.2	15.15		ND	ND	ND	ND
7-Dec-06	MW #3	5.35	12.46		ND	ND	ND	ND
27-Mar-07		6.83	12.3		ND	ND	ND	ND
12-Jun-07		4.66	12.3		ND	ND	ND	ND
25-Sep-07		3.44	12.3		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

FIGURE 1



1 INCH = 40 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 MAY NOT BE TO SCALE.

XTO ENERGY INC.

HARE GC I #1

SW/4 NW/4 SEC. 23, T29N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

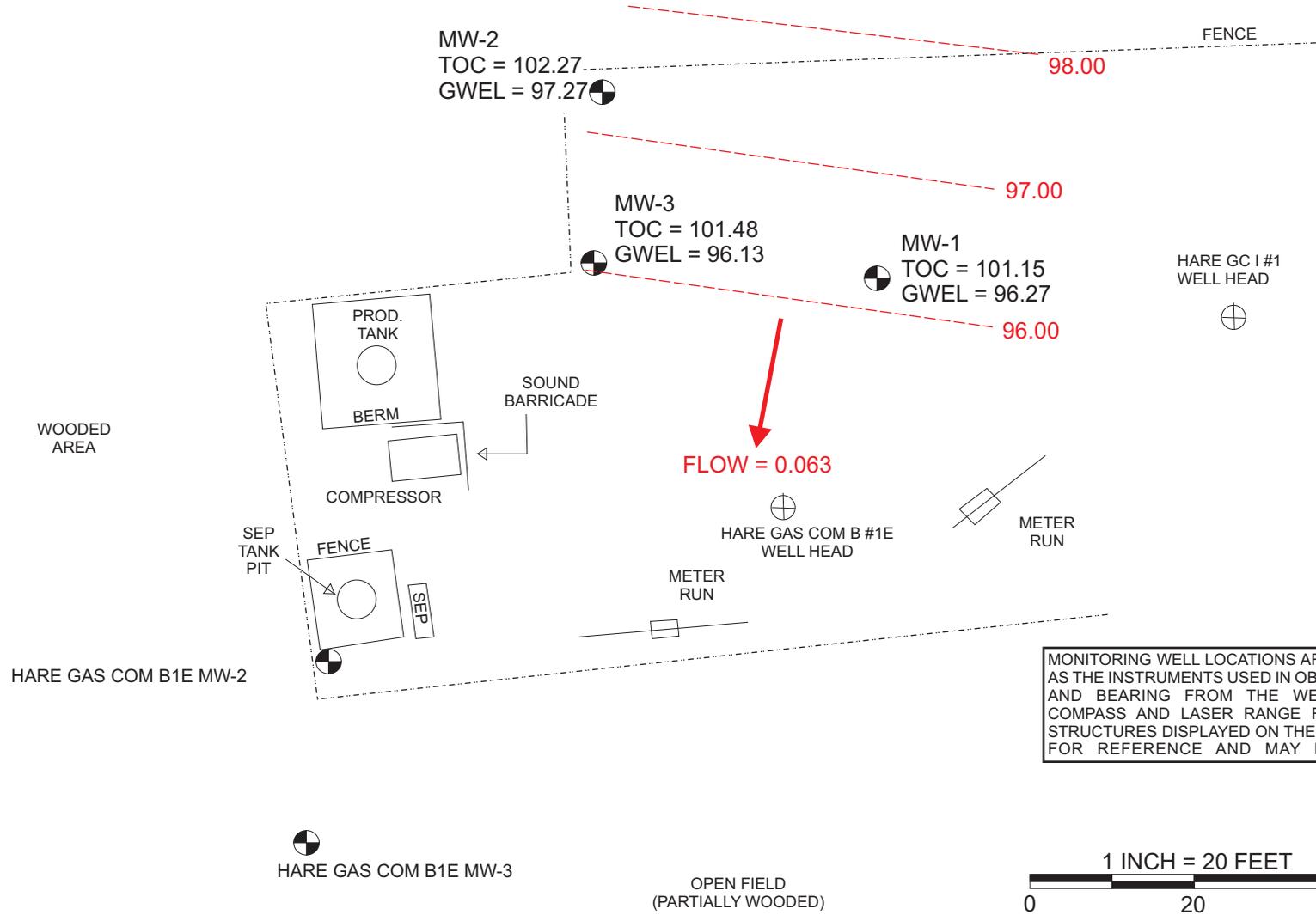
PROJECT: MW INSTALL.

DRAWN BY: NJV

FILENAME: HARE GC I1-SM.SKF

**SITE
MAP**

05/06



MONITORING 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 MAY NOT BE TO SCALE.

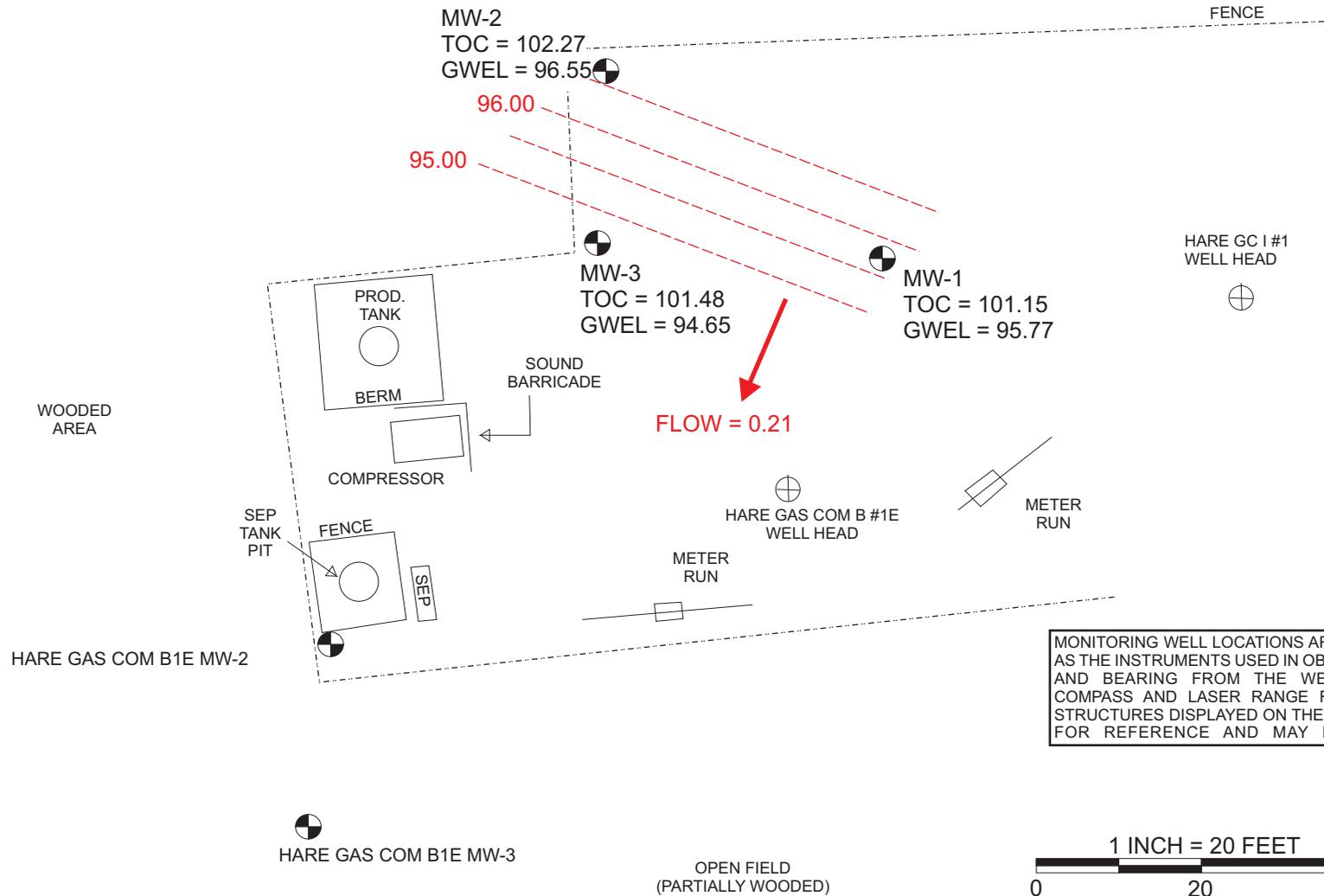
TOC = TOP OF CASING ELEVATION
 GWEL = GROUNDWATER ELEVATION
 - - - = INFERRED GROUNDWATER CONTOUR LINE


 Lodestar Services, Inc
 PO Box 3861
 Farmington, NM 87499

HARE GAS COM I #1
 SW/4 NW/4 SEC. 23, T29N, R11W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ALA
 REVISED: 12/11/06

GROUNDWATER GRADIENT MAP
 12/07/2006
 FIGURE 2



MONITORING 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 MAY NOT BE TO SCALE.



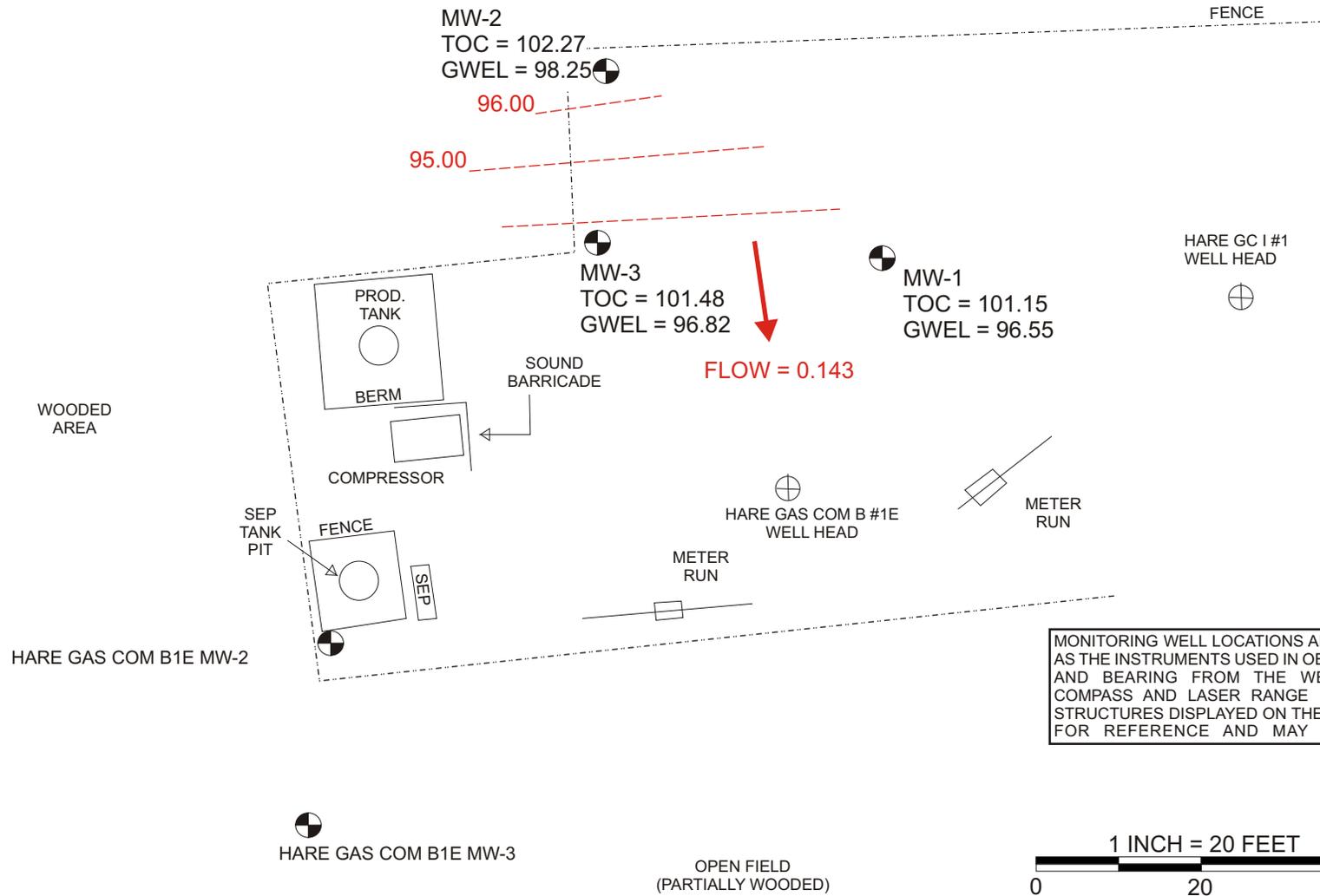
TOC = TOP OF CASING ELEVATION
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 Farmington, NM 87499

HARE GAS COM I #1
 SW/4 NW/4 SEC. 23, T29N, R11W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ALA
 REVISED: 03/30/07

GROUNDWATER GRADIENT MAP
 03/27/07
 FIGURE 3



MONITORING 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 MAY NOT BE TO SCALE.

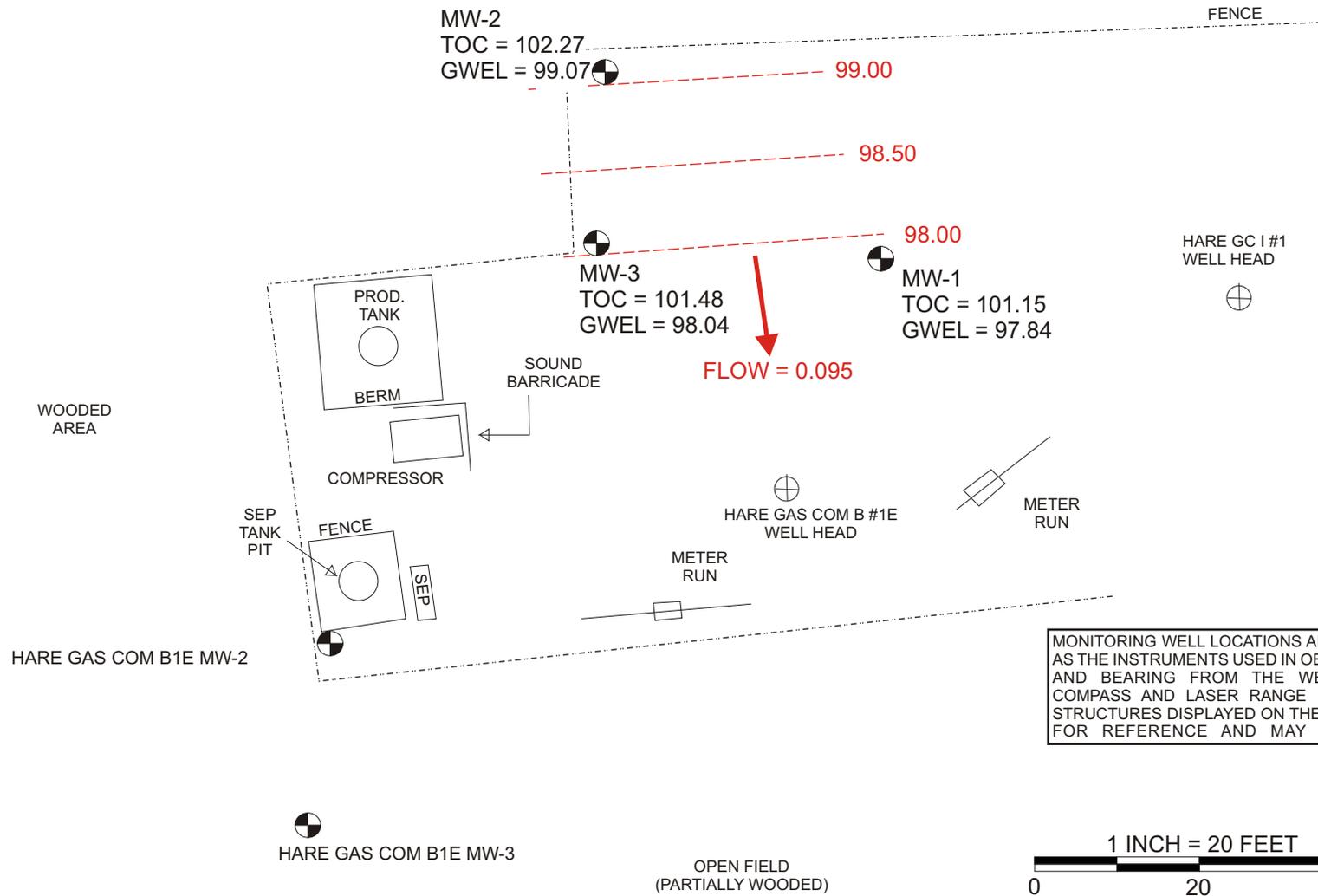
TOC = TOP OF CASING ELEVATION
 GWEL = GROUNDWATER ELEVATION
 - - - = INFERRED GROUNDWATER CONTOUR LINE

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 Farmington, NM 87499

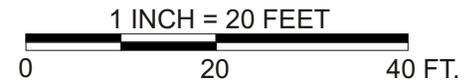
HARE GAS COM I #1
 SW/4 NW/4 SEC. 23, T29N, R11W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ALA
 REVISED: 06/21/07

GROUNDWATER GRADIENT MAP
 06/13/07
 FIGURE 4



MONITORING 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 MAY NOT BE TO SCALE.



TOC = TOP OF CASING ELEVATION
 GWEL = GROUNDWATER ELEVATION
 - - - = INFERRED GROUNDWATER CONTOUR LINE

Lodestar Services, Inc
 PO Box 3861
 Farmington, NM 87499

HARE GAS COM I #1
 SW/4 NW/4 SEC. 23, T29N, R11W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ALA
 REVISED: 09/28/07

GROUNDWATER GRADIENT MAP
 09/27/07
 FIGURE 5

FIGURE 6

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING #..... BH - 1
 MW #..... 1
 PAGE #..... 1
 DATE STARTED 10/8/99
 DATE FINISHED 10/8/99
 OPERATOR..... REP
 PREPARED BY NJV

CLIENT: XTO ENERGY INC.
 LOCATION NAME: HARE GC B #1E
 CONTRACTOR: BLAGG ENGINEERING, INC.
 EQUIPMENT USED: MOBILE DRILL RIG (EARTHPROBE)
 BORING LOCATION: 61 FT., N23.5E FEET FROM WELL HEAD.

DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS					
				GROUND SURFACE					
1		SAND TO SILTY SAND	TOS 1.70	TOP OF CASING APPROX. 2.30 FT. ABOVE GROUND SURFACE.					
2				▼ GW DEPTH ON 1/5/00 = 2.73 FT. (APPROX.) FROM GROUND SURFACE.					
3				SILTY CLAY TO CLAY	TD 11.70	MODERATE YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.0 - 9.50 FT. INTERVAL).			
4						DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO SLIGHTLY PLASTIC, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (9.50 - 15.0 FT. INTERVAL).			
5							DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO SLIGHTLY PLASTIC, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (9.50 - 15.0 FT. INTERVAL).		
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- NOTE:
- SAND TO SILTY SAND.
 - SILTY CLAY TO CLAY.
 - TOS - TOP OF SCREEN FROM GROUND SURFACE.
 - TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
 - GW - GROUND WATER.

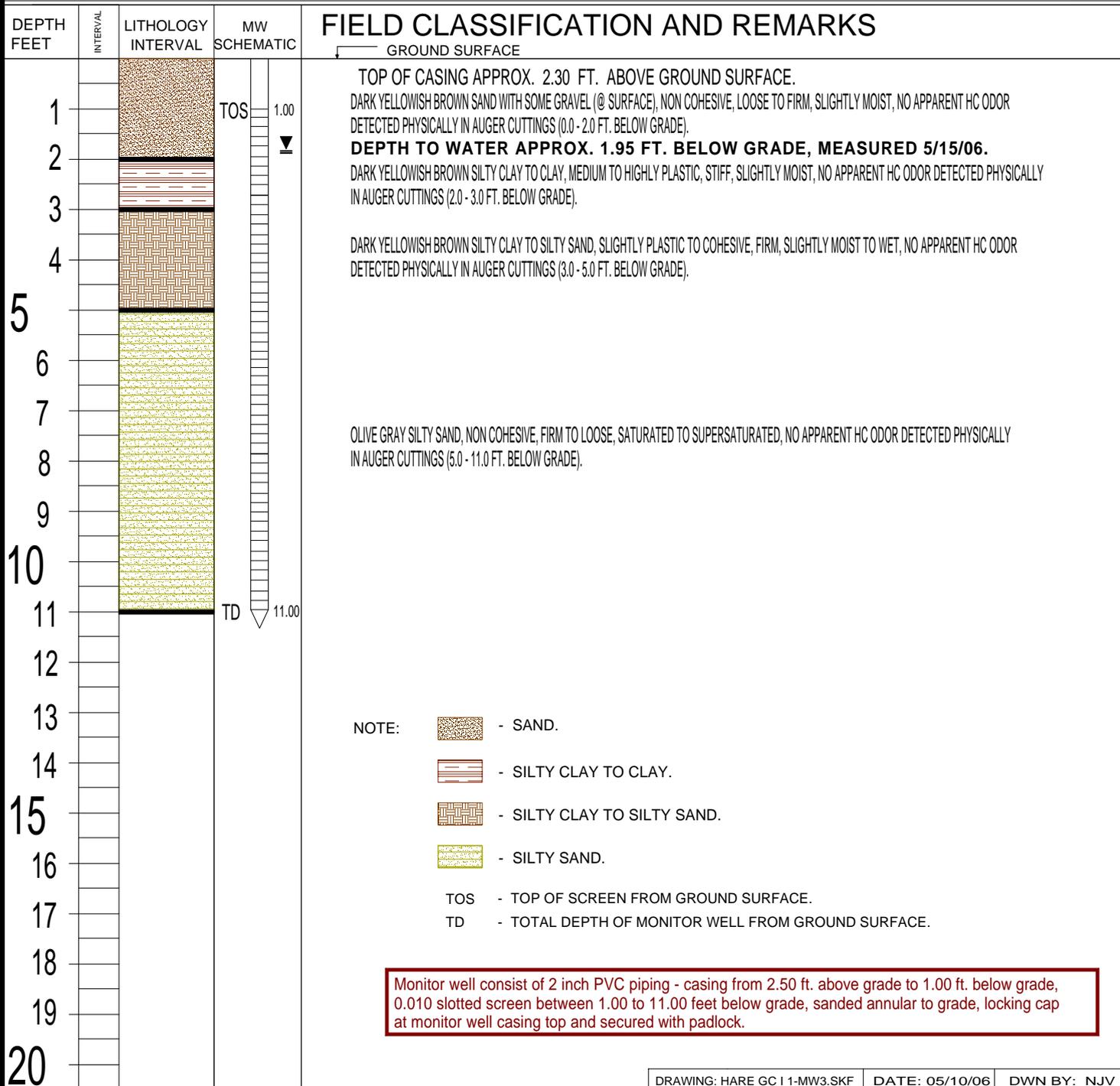
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

BORING #.....	BH-2
MW #.....	3
PAGE #.....	2
DATE STARTED	5/10/06
DATE FINISHED	5/10/06
OPERATOR.....	DP
PREPARED BY	NJV

CLIENT: XTO ENERGY INC.
 LOCATION NAME: HARE GC I #1 - COMPRESSOR PIT, UNIT E, SEC. 23, T29N, R11W
 CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
 EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
 BORING LOCATION: 155 FT., N86E FROM WELL HEAD.



Hall Environmental Analysis Laboratory, Inc.

Date: 15-Dec-06

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0612122

Lab ID: 0612122-04

Collection Date: 12/7/2006 1:42:00 PM

~~Client Sample ID: Hare Gas Com B1 MW-2~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 8:33:52 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 8:33:52 PM
Surr: 4-Bromofluorobenzene	79.7	70.2-105		%REC	1	12/13/2006 8:33:52 PM

Analyst: NSB

Lab ID: 0612122-05

Collection Date: 12/7/2006 2:45:00 PM

Client Sample ID: Hare Gas Com I1 MW-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 9:03:58 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 9:03:58 PM
Surr: 4-Bromofluorobenzene	79.4	70.2-105		%REC	1	12/13/2006 9:03:58 PM

Analyst: NSB

Lab ID: 0612122-06

Collection Date: 12/7/2006 2:30:00 PM

Client Sample ID: Hare Gas Com I1 MW-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Toluene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 9:33:55 PM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 9:33:55 PM
Surr: 4-Bromofluorobenzene	80.7	70.2-105		%REC	1	12/13/2006 9:33:55 PM

Analyst: NSB

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Dec-06

CLIENT: XTO Energy
 Project: Ground Water

Lab Order: 0612122

Lab ID: 0612122-07
 Client Sample ID: Hare Gas Com 11 MW-2

Collection Date: 12/7/2006 2:50:00 PM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	ND	10		µg/L	10	12/13/2006 10:06:39 PM
Toluene	ND	10		µg/L	10	12/13/2006 10:06:39 PM
Ethylbenzene	ND	10		µg/L	10	12/13/2006 10:06:39 PM
Xylenes, Total	ND	30		µg/L	10	12/13/2006 10:06:39 PM
Surr: 4-Bromofluorobenzene	81.0	70.2-105		%REC	10	12/13/2006 10:06:39 PM

Analyst: NSB

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0703474

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0703474-01A MSD		<i>MSD</i>			Batch ID: R23096		Analysis Date: 4/3/2007 10:37:09 AM		
Benzene	19.32	µg/L	1.0	96.6	85.9	113	2.09	27	
Toluene	19.77	µg/L	1.0	98.8	86.4	113	1.70	19	
Ethylbenzene	19.98	µg/L	1.0	99.9	83.5	118	2.36	10	
Xylenes, Total	59.32	µg/L	2.0	98.9	83.4	122	2.06	13	
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R23076		Analysis Date: 4/2/2007 8:45:02 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML RB-II		<i>MBLK</i>			Batch ID: R23076		Analysis Date: 4/3/2007 12:13:23 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R23096		Analysis Date: 4/3/2007 8:06:11 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R23114		Analysis Date: 4/4/2007 8:09:19 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R23076		Analysis Date: 4/2/2007 5:37:16 PM		
Benzene	23.32	µg/L	1.0	117	85.9	113			S
Toluene	22.53	µg/L	1.0	111	86.4	113			
Ethylbenzene	20.71	µg/L	1.0	104	83.5	118			
Xylenes, Total	62.13	µg/L	2.0	103	83.4	122			
Sample ID: 100NG BTEX LCS-II		<i>LCS</i>			Batch ID: R23076		Analysis Date: 4/3/2007 12:43:23 AM		
Benzene	19.86	µg/L	1.0	97.6	85.9	113			
Toluene	20.09	µg/L	1.0	99.8	86.4	113			
Ethylbenzene	20.01	µg/L	1.0	100	83.5	118			
Xylenes, Total	59.59	µg/L	2.0	99.0	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R23096		Analysis Date: 4/3/2007 4:13:33 PM		
Benzene	20.24	µg/L	1.0	99.1	85.9	113			
Toluene	20.61	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.85	µg/L	1.0	104	83.5	118			
Xylenes, Total	62.10	µg/L	2.0	103	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R23114		Analysis Date: 4/4/2007 12:30:51 PM		
Benzene	19.85	µg/L	1.0	99.2	85.9	113			
Toluene	20.02	µg/L	1.0	100	86.4	113			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0703474

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R23114		Analysis Date: 4/4/2007 12:30:51 PM		
Ethylbenzene	20.43	µg/L	1.0	102	83.5	118			
Xylenes, Total	60.81	µg/L	2.0	101	83.4	122			
Sample ID: 100NG BTEX LCSD-I		<i>LCSD</i>			Batch ID: R23076		Analysis Date: 4/3/2007 1:13:30 AM		
Benzene	19.77	µg/L	1.0	97.2	85.9	113	0.474	27	
Toluene	19.93	µg/L	1.0	99.0	86.4	113	0.809	19	
Ethylbenzene	19.91	µg/L	1.0	99.6	83.5	118	0.511	10	
Xylenes, Total	59.20	µg/L	2.0	98.3	83.4	122	0.657	13	
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>			Batch ID: R23114		Analysis Date: 4/4/2007 1:01:01 PM		
Benzene	19.57	µg/L	1.0	97.8	85.9	113	1.42	27	
Toluene	19.76	µg/L	1.0	98.8	86.4	113	1.32	19	
Ethylbenzene	20.00	µg/L	1.0	100	83.5	118	2.11	10	
Xylenes, Total	59.61	µg/L	2.0	99.3	83.4	122	1.99	13	
Sample ID: 0703474-01A MS		<i>MS</i>			Batch ID: R23096		Analysis Date: 4/3/2007 10:06:58 AM		
Benzene	18.92	µg/L	1.0	94.6	85.9	113			
Toluene	19.43	µg/L	1.0	97.2	86.4	113			
Ethylbenzene	19.52	µg/L	1.0	97.6	83.5	118			
Xylenes, Total	58.11	µg/L	2.0	96.8	83.4	122			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Jun-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0706237

Lab ID: 0706237-22

Collection Date: 6/13/2007 2:50:00 PM

Client Sample ID: ~~Hare GCBI MW-4~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Toluene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Ethylbenzene	ND	1.0		µg/L	1	6/19/2007 10:13:44 PM
Xylenes, Total	ND	2.0		µg/L	1	6/19/2007 10:13:44 PM
Surr: 4-Bromofluorobenzene	82.2	70.2-105		%REC	1	6/19/2007 10:13:44 PM

Lab ID: 0706237-23

Collection Date: 6/13/2007 3:32:00 PM

Client Sample ID: Hare GCI/MW-2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Toluene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2007 7:06:41 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2007 7:06:41 AM
Surr: 4-Bromofluorobenzene	90.0	70.2-105		%REC	1	6/20/2007 7:06:41 AM

Lab ID: 0706237-24

Collection Date: 6/13/2007 3:53:00 PM

Client Sample ID: Hare GCI/MW-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Toluene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2007 7:36:47 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2007 7:36:47 AM
Surr: 4-Bromofluorobenzene	82.0	70.2-105		%REC	1	6/20/2007 7:36:47 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Jun-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0706237

Lab ID: 0706237-25
Client Sample ID: Hare GCI/MW-1

Collection Date: 6/13/2007 4:22:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/20/2007 8:23:01 PM
Toluene	ND	1.0		µg/L	1	6/20/2007 8:23:01 PM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2007 8:23:01 PM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2007 8:23:01 PM
Surr: 4-Bromofluorobenzene	93.1	70.2-105		%REC	1	6/20/2007 8:23:01 PM

<p>Qualifiers:</p> <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level E Value above quantitation range J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit S Spike recovery outside accepted recovery limits 	<ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded MCL Maximum Contaminant Level RL Reporting Limit
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QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0706237

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0706237-12A MSD		<i>MSD</i>			Batch ID: R24017		Analysis Date: 6/18/2007 12:21:32 PM		
Benzene	18.72	µg/L	1.0	93.6	85.9	113	4.52	27	
Toluene	18.79	µg/L	1.0	94.0	86.4	113	4.64	19	
Ethylbenzene	18.60	µg/L	1.0	93.0	83.5	118	4.77	10	
Xylenes, Total	55.68	µg/L	2.0	92.8	83.4	122	3.58	13	
Sample ID: 0706237-25A MSD		<i>MSD</i>			Batch ID: R24049		Analysis Date: 6/20/2007 9:23:49 PM		
Benzene	19.29	µg/L	1.0	96.5	85.9	113	2.88	27	
Toluene	18.77	µg/L	1.0	93.9	86.4	113	2.82	19	
Ethylbenzene	18.77	µg/L	1.0	93.8	83.5	118	2.60	10	
Xylenes, Total	54.62	µg/L	2.0	91.0	83.4	122	2.24	13	
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R24013		Analysis Date: 6/15/2007 8:56:45 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R24017		Analysis Date: 6/18/2007 10:56:56 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R24036		Analysis Date: 6/19/2007 9:56:41 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML REAGENT BLA		<i>MBLK</i>			Batch ID: R24049		Analysis Date: 6/20/2007 10:05:12 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R24013		Analysis Date: 6/15/2007 11:42:55 PM		
Benzene	19.24	µg/L	1.0	96.2	85.9	113			
Toluene	18.67	µg/L	1.0	93.4	86.4	113			
Ethylbenzene	18.36	µg/L	1.0	91.8	83.5	118			
Xylenes, Total	54.32	µg/L	2.0	90.5	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R24017		Analysis Date: 6/18/2007 12:51:39 PM		
Benzene	18.99	µg/L	1.0	94.9	85.9	113			
Toluene	19.05	µg/L	1.0	95.3	86.4	113			
Ethylbenzene	18.69	µg/L	1.0	93.4	83.5	118			
Xylenes, Total	56.17	µg/L	2.0	93.6	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R24036		Analysis Date: 6/19/2007 11:27:18 AM		
Benzene	19.95	µg/L	1.0	99.7	85.9	113			
Toluene	20.29	µg/L	1.0	101	86.4	113			

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Ground Water

Work Order: 0706237

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R24036		Analysis Date: 6/19/2007 1127:18 AM		
Ethylbenzene	20.10	µg/L	1.0	101	83.5	118			
Xylenes, Total	59.83	µg/L	2.0	99.7	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>			Batch ID: R24049		Analysis Date: 6/20/2007 954:18 PM		
Benzene	18.97	µg/L	1.0	94.9	85.9	113			
Toluene	18.46	µg/L	1.0	92.3	86.4	113			
Ethylbenzene	18.62	µg/L	1.0	93.1	83.5	118			
Xylenes, Total	54.86	µg/L	2.0	91.4	83.4	122			
Sample ID: 0706237-12A MS		<i>MS</i>			Batch ID: R24017		Analysis Date: 6/18/2007 1151:22 AM		
Benzene	19.59	µg/L	1.0	98.0	85.9	113			
Toluene	19.68	µg/L	1.0	98.4	86.4	113			
Ethylbenzene	19.51	µg/L	1.0	97.5	83.5	118			
Xylenes, Total	57.71	µg/L	2.0	96.2	83.4	122			
Sample ID: 0706237-25A MS		<i>MS</i>			Batch ID: R24049		Analysis Date: 6/20/2007 853:24 PM		
Benzene	18.74	µg/L	1.0	93.7	85.9	113			
Toluene	18.25	µg/L	1.0	91.2	86.4	113			
Ethylbenzene	18.29	µg/L	1.0	91.4	83.5	118			
Xylenes, Total	53.41	µg/L	2.0	89.0	83.4	122			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Oct-07

CLIENT: XTO Energy
Lab Order: 0709406
Project: Ground Water
Lab ID: 0709406-22

Client Sample ID: Hare GC 11 MW-2
Collection Date: 9/27/2007 10:17:00 AM
Date Received: 9/28/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/3/2007 6:33:56 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 6:33:56 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 6:33:56 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 6:33:56 PM
Surr: 4-Bromofluorobenzene	83.6	70.2-105		%REC	1	10/3/2007 6:33:56 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Oct-07

CLIENT: XTO Energy
 Lab Order: 0709406
 Project: Ground Water
 Lab ID: 0709406-23

Client Sample ID: Hare GC II MW-3
 Collection Date: 9/27/2007 10:33:00 AM
 Date Received: 9/28/2007
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/3/2007 9:06:03 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 9:06:03 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 9:06:03 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 9:06:03 PM
Surr: 4-Bromofluorobenzene	83.6	70.2-105		%REC	1	10/3/2007 9:06:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Oct-07

CLIENT: XTO Energy
Lab Order: 0709406
Project: Ground Water
Lab ID: 0709406-24

Client Sample ID: Hare GC II MW-1
Collection Date: 9/27/2007 10:45:00 AM
Date Received: 9/28/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/3/2007 9:36:02 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 9:36:02 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 9:36:02 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 9:36:02 PM
Surr: 4-Bromofluorobenzene	88.3	70.2-105		%REC	1	10/3/2007 9:36:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Oct-07

CLIENT: XTO Energy
Lab Order: 0709406
Project: Ground Water
Lab ID: 0709406-28

Client Sample ID: Trip Blank
Collection Date:
Date Received: 9/28/2007
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 11:35:56 PM
Surr: 4-Bromofluorobenzene	82.7	70.2-105		%REC	1	10/3/2007 11:35:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Method: SW8021										
Sample ID: 0709406-01A MSD		<i>MSD</i>					Batch ID: R25409	Analysis Date:	10/3/2007 3:45:13 AM	
Benzene	20.98	µg/L	1.0	105	85.9	113	0.580	27		
Toluene	19.97	µg/L	1.0	99.6	86.4	113	0.764	19		
Ethylbenzene	19.95	µg/L	1.0	99.3	83.5	118	1.13	10		
Xylenes, Total	59.14	µg/L	2.0	98.1	83.4	122	0.764	13		
Sample ID: 0709406-20A MSD		<i>MSD</i>					Batch ID: R25420	Analysis Date:	10/3/2007 8:05:57 PM	
Benzene	20.94	µg/L	1.0	102	85.9	113	1.15	27		
Toluene	19.97	µg/L	1.0	98.4	86.4	113	1.23	19		
Ethylbenzene	19.95	µg/L	1.0	99.2	83.5	118	2.10	10		
Xylenes, Total	58.87	µg/L	2.0	96.8	83.4	122	1.12	13		
Sample ID: 5ML RB		<i>MBLK</i>					Batch ID: R25409	Analysis Date:	10/2/2007 8:14:55 AM	
Benzene	ND	µg/L	1.0							
Toluene	ND	µg/L	1.0							
Ethylbenzene	ND	µg/L	1.0							
Xylenes, Total	ND	µg/L	2.0							
Sample ID: 5ML RB		<i>MBLK</i>					Batch ID: R25420	Analysis Date:	10/3/2007 9:00:15 AM	
Benzene	ND	µg/L	1.0							
Toluene	ND	µg/L	1.0							
Ethylbenzene	ND	µg/L	1.0							
Xylenes, Total	ND	µg/L	2.0							
Sample ID: 100NG BTEX LCS		<i>LCS</i>					Batch ID: R25409	Analysis Date:	10/2/2007 8:15:26 PM	
Benzene	20.25	µg/L	1.0	101	85.9	113				
Toluene	19.54	µg/L	1.0	97.3	86.4	113				
Ethylbenzene	19.60	µg/L	1.0	97.4	83.5	118				
Xylenes, Total	58.14	µg/L	2.0	96.2	83.4	122				
Sample ID: 100NG BTEX LCS		<i>LCS</i>					Batch ID: R25420	Analysis Date:	10/3/2007 11:00:56 AM	
Benzene	20.65	µg/L	1.0	103	85.9	113				
Toluene	20.04	µg/L	1.0	99.8	86.4	113				
Ethylbenzene	20.04	µg/L	1.0	99.6	83.5	118				
Xylenes, Total	60.00	µg/L	2.0	99.5	83.4	122				
Sample ID: 0709406-01A MS		<i>MS</i>					Batch ID: R25409	Analysis Date:	10/3/2007 3:15:09 AM	
Benzene	21.10	µg/L	1.0	105	85.9	113				
Toluene	19.82	µg/L	1.0	98.8	86.4	113				
Ethylbenzene	19.73	µg/L	1.0	98.2	83.5	118				
Xylenes, Total	58.69	µg/L	2.0	97.4	83.4	122				
Sample ID: 0709406-20A MS		<i>MS</i>					Batch ID: R25420	Analysis Date:	10/3/2007 7:35:52 PM	
Benzene	20.70	µg/L	1.0	101	85.9	113				
Toluene	19.73	µg/L	1.0	97.2	86.4	113				
Ethylbenzene	19.53	µg/L	1.0	97.1	83.5	118				
Xylenes, Total	58.22	µg/L	2.0	95.7	83.4	122				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Ground Water

Work Order: 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E160.1									
Sample ID: 0709406-08B MSD		<i>MSD</i>							
Total Dissolved Solids	3202	mg/L	20	104	80	120	0.627	20	
Sample ID: MB-13963		<i>MBLK</i>							
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13963		<i>LCS</i>							
Total Dissolved Solids	1001	mg/L	20	100	80	120			
Sample ID: 0709406-08B MS		<i>MS</i>							
Total Dissolved Solids	3182	mg/L	20	102	80	120			

Qualifiers:

- | | | | |
|---|--|----|--|
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | S | Spike recovery outside accepted recovery limits |