

**3R -** 123

# **REPORTS**

**DATE:**

2005



3R0123

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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

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JAN 31 2006

**XTO ENERGY INC.** Oil Conservation Division  
Environmental Bureau

**ANNUAL GROUNDWATER REMEDIATION REPORT**

**2005**

**ROMERO GC A #1  
(K) SECTION 27, 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**

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Table 2: General Water Chemistry Lab Results

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Field Sampling Data Summaries

Laboratory Reports

NMOCD Correspondence Letter

**XTO ENERGY INC.**  
**Romero GC A # 1 - Separator & Production Tank Pits**  
**NE/4 SW/4 Sec. 27, T29N, R10W**

**Pit Closure Dates:** 7/17-25/2003

**Monitor Well Installation Date:** 07/28/2003 (MW 1X, 2X, 3X)

**Monitor Well Sampling Dates:** 8/6/03, 11/25/03, 3/30/04, 6/16/04, 9/27/04

**Historical Information:**

- August 1994 – Groundwater impacts were discovered during work at an Amoco Production Company separator pit on site. Initial remedial efforts included immediate excavation of impacted soils and pumping groundwater from the excavated pit. Subsequent monitor well installation and sampling confirmed successful site remediation. Termination of monitoring was granted by NMOCD with letter dated April 22, 1999.
- January 1998 - XTO Energy Inc. (XTO) acquires the Romero GC A #1 from Amoco Production Company.
- July 2003 – Groundwater impacts were suspected at this site following work at a former separator pit and production tank pit (Figure 1). During this work, a release of hydrocarbons to the ground surface from the site pit tanks was identified. Remediation of impacted soils and groundwater via excavation was immediately conducted and monitor wells were installed to assess potential impacts to groundwater.
- August 2003 to September 2004 – Quarterly 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 Tables 1 - 3. Waste generated (groundwater) during monitor well sampling and development was placed in the produced water separator tank located on the well site.

**Water Quality and Gradient Information:**

The groundwater gradient at this site consistently exhibits a trend to the north with a minor west component (Figures 2 - 4).

Analytical data from monitor wells indicate that residual hydrocarbon impacts are not present. New Mexico Water Quality Control Commission listed metals were included in the initial site groundwater sampling due to the nature of the release. Analytical testing has identified the metal mercury in down-gradient well MW 3X at a level of 0.0045 mg/L (equivalent to parts per million).

**Summary and/or Recommendations:**

Pursuant to the NMOCD approved groundwater management plan, XTO respectfully requests termination of sampling for BTEX constituents in all site monitor wells. Additional samples will be collected from site monitoring wells for total mercury to confirm the presence of this metal.

**TABLE 1****XTO ENERGY INC. GROUNDWATER LAB RESULTS**

SUBMITTED BY BLAGG ENGINEERING, INC.

ROMERO GC A #1 - SEPARATOR PIT  
UNIT K, SEC. 27, T29N, R10W

REVISED DATE: JANUARY 16, 2006

FILENAME: (RM-3Q-04.WK4) NJV

| SAMPLE<br>DATE               | MONITOR<br>WELL No: | D.T.W.<br>(ft) | T.D.<br>(ft) | TDS<br>(mg/L) | COND.<br>umhos | pH   | PRODUCT<br>(ft) | BTEX EPA METHOD 8021B (ppb) |         |                  |                 |
|------------------------------|---------------------|----------------|--------------|---------------|----------------|------|-----------------|-----------------------------|---------|------------------|-----------------|
|                              |                     |                |              |               |                |      |                 | Benzene                     | Toluene | Ethyl<br>Benzene | Total<br>Xylene |
| 06-Aug-03                    | MW #1               | 7.91           | 10.00        |               |                |      |                 | NA                          | NA      | NA               | NA              |
| 25-Nov-03                    |                     | 6.27           |              |               | 2,200          | 7.14 |                 | NA                          | NA      | NA               | NA              |
| 06-Aug-03                    | MW #1X              | 8.55           | 10.00        |               |                | 6.88 |                 | ND                          | ND      | ND               | ND              |
| 29-Aug-03                    |                     |                |              |               |                |      |                 | NA                          | NA      | NA               | NA              |
| 31-Jul-03                    | MW #2X              | 7.92           | 10.00        |               |                |      |                 | NA                          | NA      | NA               | NA              |
| 06-Aug-03                    | MW #3X              | 8.57           | 10.00        |               |                | 6.96 |                 | 14                          | ND      | ND               | ND              |
| 25-Nov-03                    |                     | 6.64           |              |               | 2,000          | 7.18 |                 | ND                          | ND      | ND               | ND              |
| 30-Mar-04                    |                     | 6.68           |              |               | 1,900          | 6.98 |                 | ND                          | ND      | ND               | ND              |
| 16-Jun-04                    |                     | 8.28           |              |               | 1,800          | 6.94 |                 | 2.7                         | ND      | ND               | ND              |
| 27-Sep-04                    |                     | 8.39           |              |               | 1,300          | 7.05 |                 | 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.

# TABLE 2 GENERAL WATER QUALITY

XTO ENERGY INC.

ROMERO GC A # 1

SAMPLE DATES : Aug. 6th & Nov. 25th , 2003

| PARAMETERS                     | MW # 1 | MW # 3X | Units      |
|--------------------------------|--------|---------|------------|
| LAB pH                         | 6.70   | 7.14    | s. u.      |
| LAB CONDUCTIVITY @ 25 C        | 4,590  | 3,280   | umhos / cm |
| TOTAL DISSOLVED SOLIDS @ 180 C | 2,250  | 1,700   | mg / L     |
| TOTAL DISSOLVED SOLIDS (Calc)  | 2,280  | 1,540   | mg / L     |
| SODIUM ABSORPTION RATIO        | 9.9    | 2.5     | ratio      |
| TOTAL ALKALINITY AS CaCO3      | 322    | 343     | mg / L     |
| TOTAL HARDNESS AS CaCO3        | 532    | 852     | mg / L     |
| BICARBONATE as HCO3            | 322    | 343     | mg / L     |
| CARBONATE AS CO3               | < 0.1  | < 0.1   | mg / L     |
| HYDROXIDE AS OH                | < 0.1  | < 0.1   | mg / L     |
| NITRATE NITROGEN               | < 0.1  | 0.1     | mg / L     |
| NITRITE NITROGEN               | 0.005  | 0.008   | mg / L     |
| CHLORIDE                       | 23.6   | 225     | mg / L     |
| FLUORIDE                       | 1.44   | 0.44    | mg / L     |
| PHOSPHATE                      | 0.1    | 0.6     | mg / L     |
| SULFATE                        | 1,320  | 605     | mg / L     |
| IRON                           | 0.024  | 0.460   | mg / L     |
| CALCIUM                        | 213    | 285     | mg / L     |
| MAGNESIUM                      | < 0.01 | 34.2    | mg / L     |
| POTASSIUM                      | 2.30   | 9.50    | mg / L     |
| SODIUM                         | 525    | 168     | mg / L     |
| CATION / ANION DIFFERENCE      | 0.06   | 0.05    | %          |

**TABLE 3**

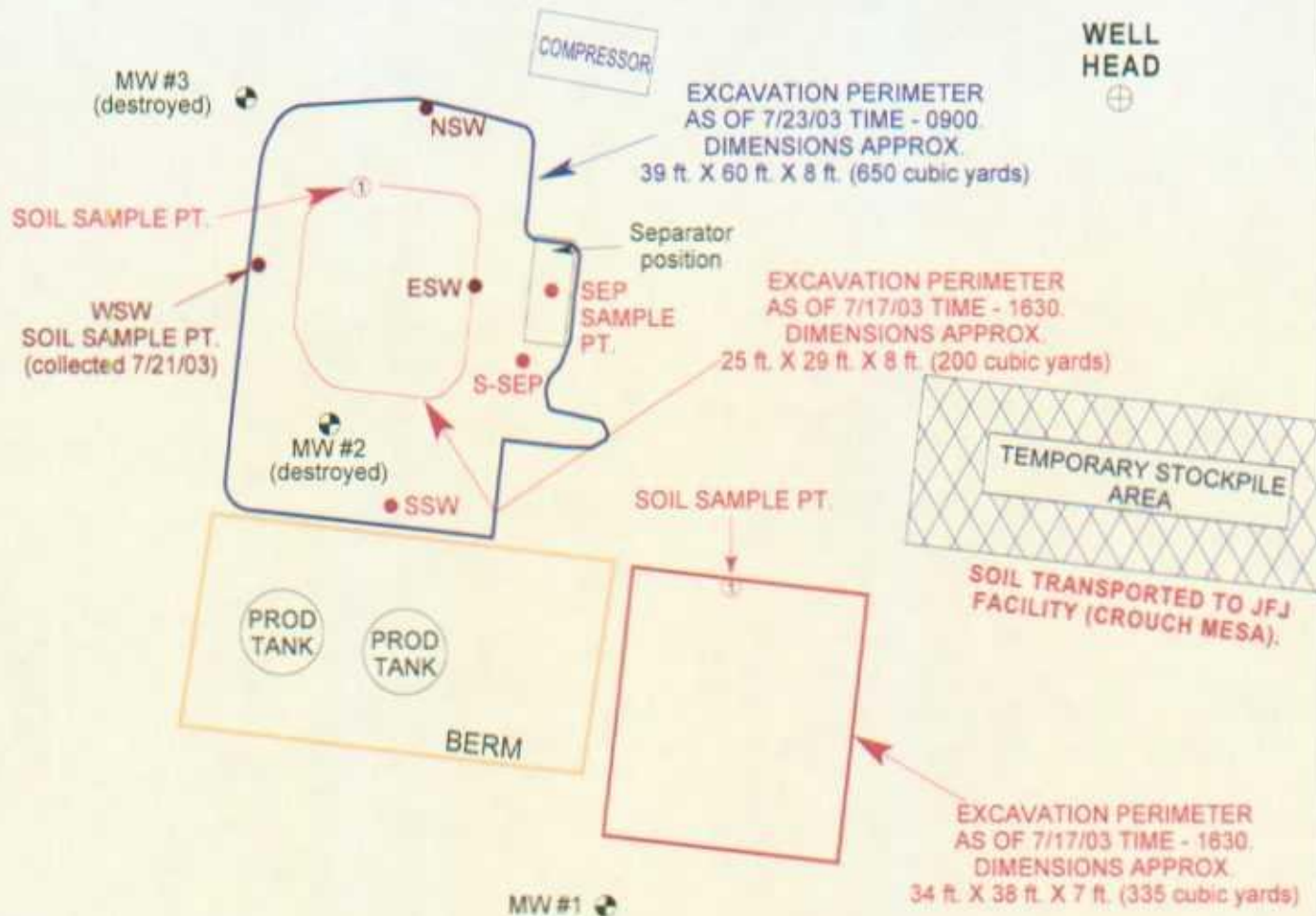
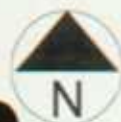
**TRACE METALS RESULTS OF LABORATORY GROUNDWATER ANALYSIS**

| MW #             | Sample Date | Mercury | Aluminum | Arsenic | Barium | Boron | Cadmium | Chromium | Cobalt | Copper |
|------------------|-------------|---------|----------|---------|--------|-------|---------|----------|--------|--------|
| 1                | 11/25/03    | ND      | -        | -       | -      | -     | -       | -        | -      | -      |
| 3X               | 8/06/03     | 0.0045  | 1.1      | ND      | 0.10   | 0.14  | ND      | ND       | ND     | ND     |
| NMWQCC STANDARDS |             | .002    | 5.0      | 0.1     | 1.0    | 0.75  | 0.01    | 0.05     | 0.05   | 1.0    |

| MW #             | Sample Date | Iron | Lead  | Manganese | Molybdenum | Nickel | Selenium | Silver | Zinc  |
|------------------|-------------|------|-------|-----------|------------|--------|----------|--------|-------|
| 1                | 11/25/03    | 4.7  | -     | 3.6       | -          | -      | -        | -      | -     |
| 3X               | 8/06/03     | 2.1  | 0.011 | 3.6       | ND         | ND     | ND       | ND     | 0.033 |
| NMWQCC STANDARDS |             | 1.0  | 0.05  | 0.2       | 1.0        | 0.2    | 0.05     | 0.05   | 10.0  |

- NOTES :
- 1) MW = monitor well.
  - 2) NMWQCC - New Mexico Water Quality Control Commission.
  - 3) Unit of data is parts per million or mg/L.
  - 4) ND = not detected at or above reporting limit.

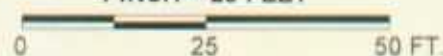
# FIGURE 1



| DATE    | TIME | SAMPLE ID     | PIT TYPE   | OVM (ppm) | TPH (ppm) | COMMENTS                                    |
|---------|------|---------------|------------|-----------|-----------|---------------------------------------------|
| 7/17/03 | 1608 | ① @ 5 ft.     | PROD. TANK | 0.0       | ND        | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |
| 7/17/03 | 1637 | ① @ 5 ft.     | SEPARATOR  | 88.4      | 119       | LT. MED. GRAY SAND, DTW - 7 ft. BELOW GRADE |
| 7/21/03 | 0904 | WSW @ 5 ft.   | SEPARATOR  | 0.0       | N/A       | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |
| 7/21/03 | 0907 | ESW @ 4 ft.   | SEPARATOR  | 6.3       | ND        | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |
| 7/21/03 | 0914 | NSW @ 5 ft.   | SEPARATOR  | 4.6       | ND        | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |
| 7/23/03 | 1028 | SSW @ 5.5 ft. | SEPARATOR  | 0.0       | N/A       | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |
| 7/23/03 | 1035 | S-SEP @ 4 ft. | SEPARATOR  | 581       | N/A       | MED. GRAY SAND, DTW - 7 ft. BELOW GRADE     |
| 7/25/03 | 0907 | SEP @ 7 ft.   | SEPARATOR  | 22.5      | ND        | OLIVE GRAY SAND, DTW - 7 ft. BELOW GRADE    |

**NOTES:** OVM = Organic vapor meter or photoionization detector (PID).  
 TPH = Total petroleum hydrocarbons - US EPA method 8015B.  
 ppm = parts per million or milligrams per liter (mg/L).  
 ND = Not detected at parameter detection limit.  
 N/A = Not available or not applicable based on arbitrary/judgmental assessment.  
 ✓ = indicates OVM instrument not calibrated, but checked with calibration gas.

1 INCH = 25 FEET



## OVM CALIBRATION INFORMATION

|                   |            |                          |
|-------------------|------------|--------------------------|
| OVM CALIB. GAS =  | 100 ppm    | RF = 0.82                |
| OVM CALIB. READ = | 53.3 ppm   | DATE: 7/17/03 TIME: 1615 |
| OVM CALIB. READ = | 54.3 ppm   | DATE: 7/21/03 TIME: 0916 |
| OVM CALIB. READ = | 52.7 ppm ✓ | DATE: 7/23/03 TIME: 1040 |
| OVM CALIB. READ = | 53.3 ppm ✓ | DATE: 7/25/03 TIME: 0920 |

MONITOR WELL & EXCAVATION LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (BRUNTON COMPASS, LASER RANGE FINDER, & TAPE MEASURE). ALL OTHER STRUCTURES DISPLAYED ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

**XTO ENERGY INC.**

ROMERO GC A #1

NE 1/4 SW 1/4 SEC. 27, T29N, R10W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, INC.**

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 853-1188

PROJECT: RELEASE CLEANUP

DRAWN BY: NJV

FILENAME: ROMERO GC A1-SM29F

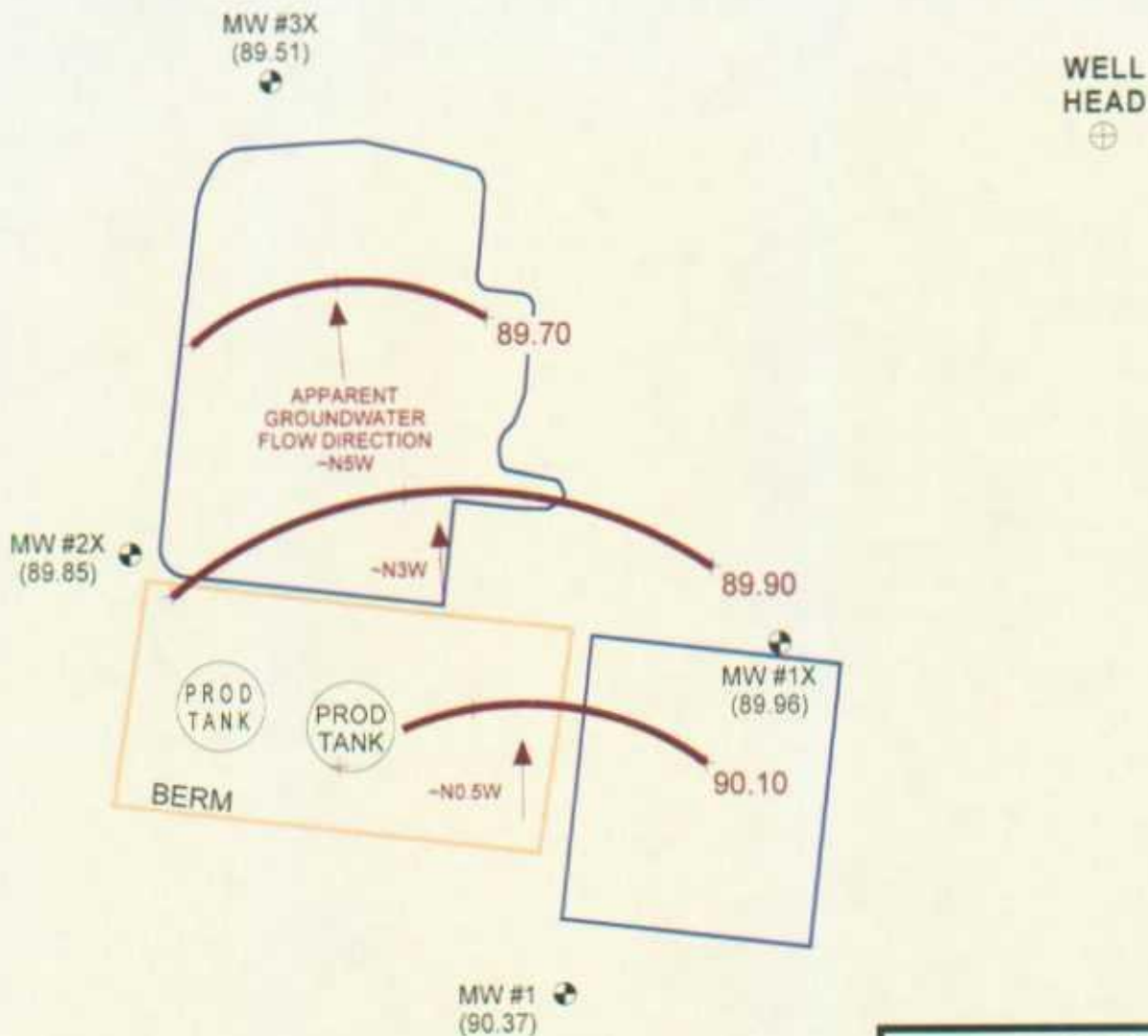
REVISED: 11/07/05 NJV

**RECLAMATION**

**SITE MAP**

7/03

**FIGURE 2**  
(3rd 1/4, 2003)



| Top of Well Elevation |       |                                         |
|-----------------------|-------|-----------------------------------------|
| MW #1                 | _____ | (98.28)                                 |
| MW #1X                | _____ | (98.51)                                 |
| MW #2X                | _____ | (97.77)                                 |
| MW #3X                | _____ | (98.08)                                 |
| MW #2X                | _____ | Groundwater Elevation<br>as of 8/06/03. |

MONITOR WELL & EXCAVATION LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (BRUNTON COMPASS, LASER RANGE FINDER, & TAPE MEASURE). ALL OTHER STRUCTURES DISPLAYED ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 25 FEET

0 25 50 FT.

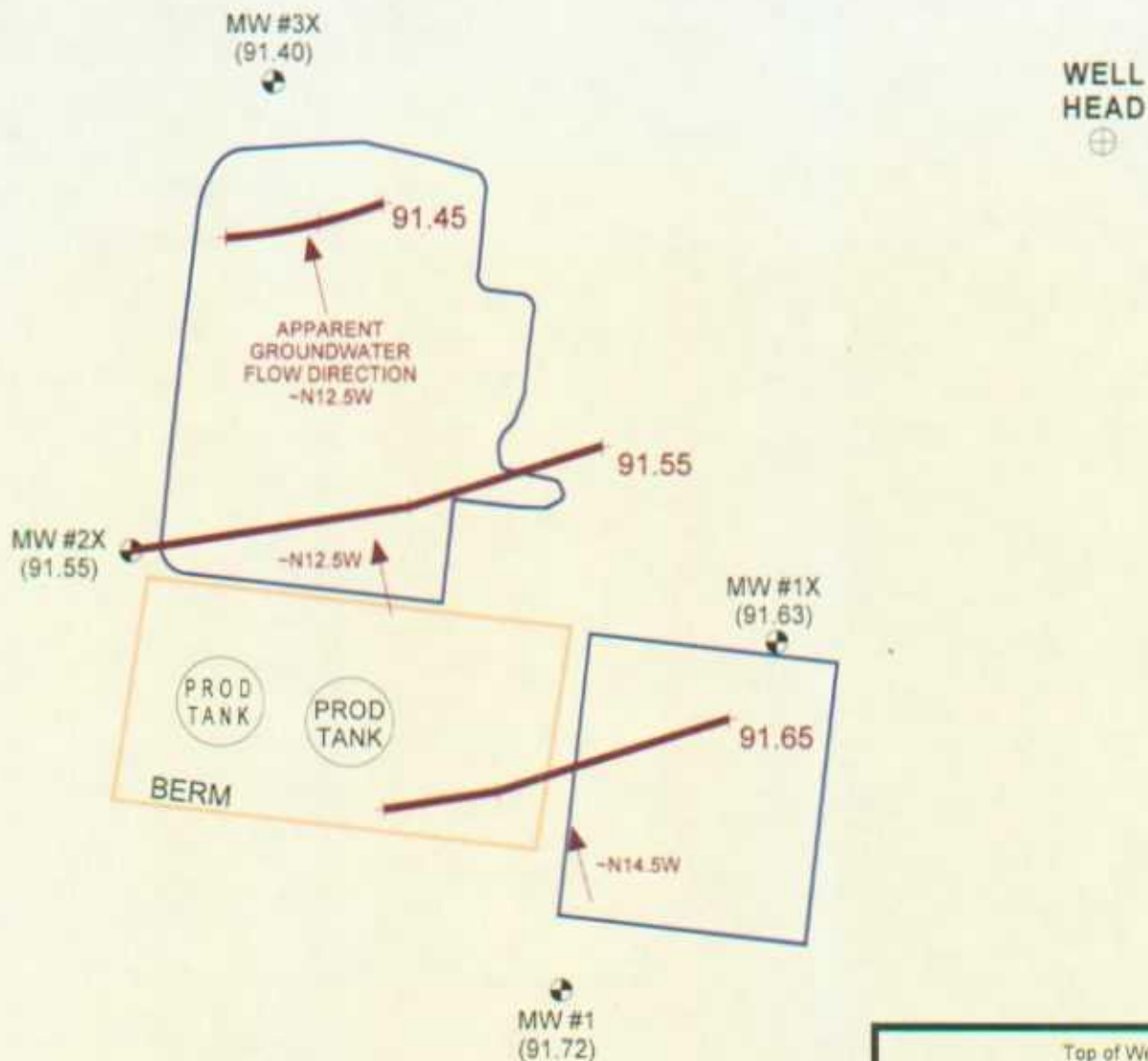
**ATO ENERGY INC.**  
ROMERO GC A # 1  
NE/4 SW/4 SEC. 27, T29N, R10W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, Inc.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 932-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 08-06-03-GW.SKF  
REVISED: 11/07/05 NJV

**GROUNDWATER  
GRADIENT  
MAP**  
8/03

**FIGURE 3**  
**(1st 1/4, 2004)**



| Top of Well Elevation |                                     |
|-----------------------|-------------------------------------|
| MW #1                 | (98.28)                             |
| MW #1X                | (98.51)                             |
| MW #2X                | (97.77)                             |
| MW #3X                | (98.08)                             |
| ● MW #2X              | Groundwater Elevation as of 3/30/04 |

1 INCH = 25 FEET

0 25 50 FT.

MONITOR WELL & EXCAVATION LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (BRUNTON COMPASS, LASER RANGE FINDER, & TAPE MEASURE). ALL OTHER STRUCTURES DISPLAYED ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

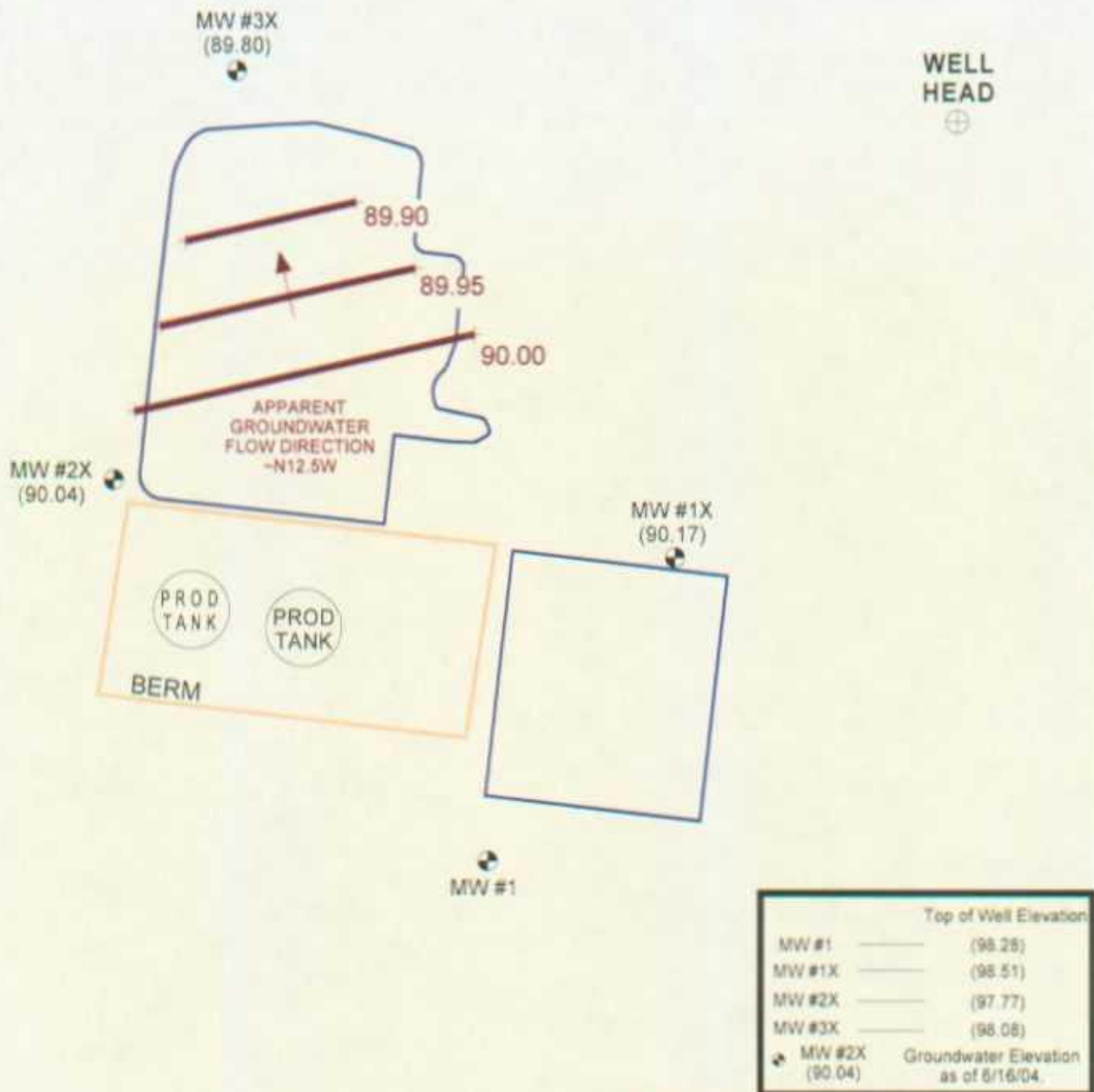
**TO ENERGY INC.**  
ROMERO GC A #1  
NE/4 SW/4 SEC. 27, T29N, R10W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 822-1129

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 03-30-04-GW.SKF  
REVISED: 11/07/05 NJV

**GROUNDWATER  
GRADIENT  
MAP**  
3/04

**FIGURE 4**  
**(2nd 1/4, 2004)**



1 INCH = 25 FEET

0 25 50 FT.

MONITOR WELL & EXCAVATION LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (BRUNTON COMPASS, LASER RANGE FINDER, & TAPE MEASURE). ALL OTHER STRUCTURES DISPLAYED ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

**TO ENERGY INC.**  
ROMERO GC A # 1  
NE/4 SW/4 SEC. 27, T29N, R10W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, Inc.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1198

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 06-16-04-GW SKF  
REVISED: 11/07/05 NJV

**GROUNDWATER  
GRADIENT  
MAP**  
6/04

FIGURE 5

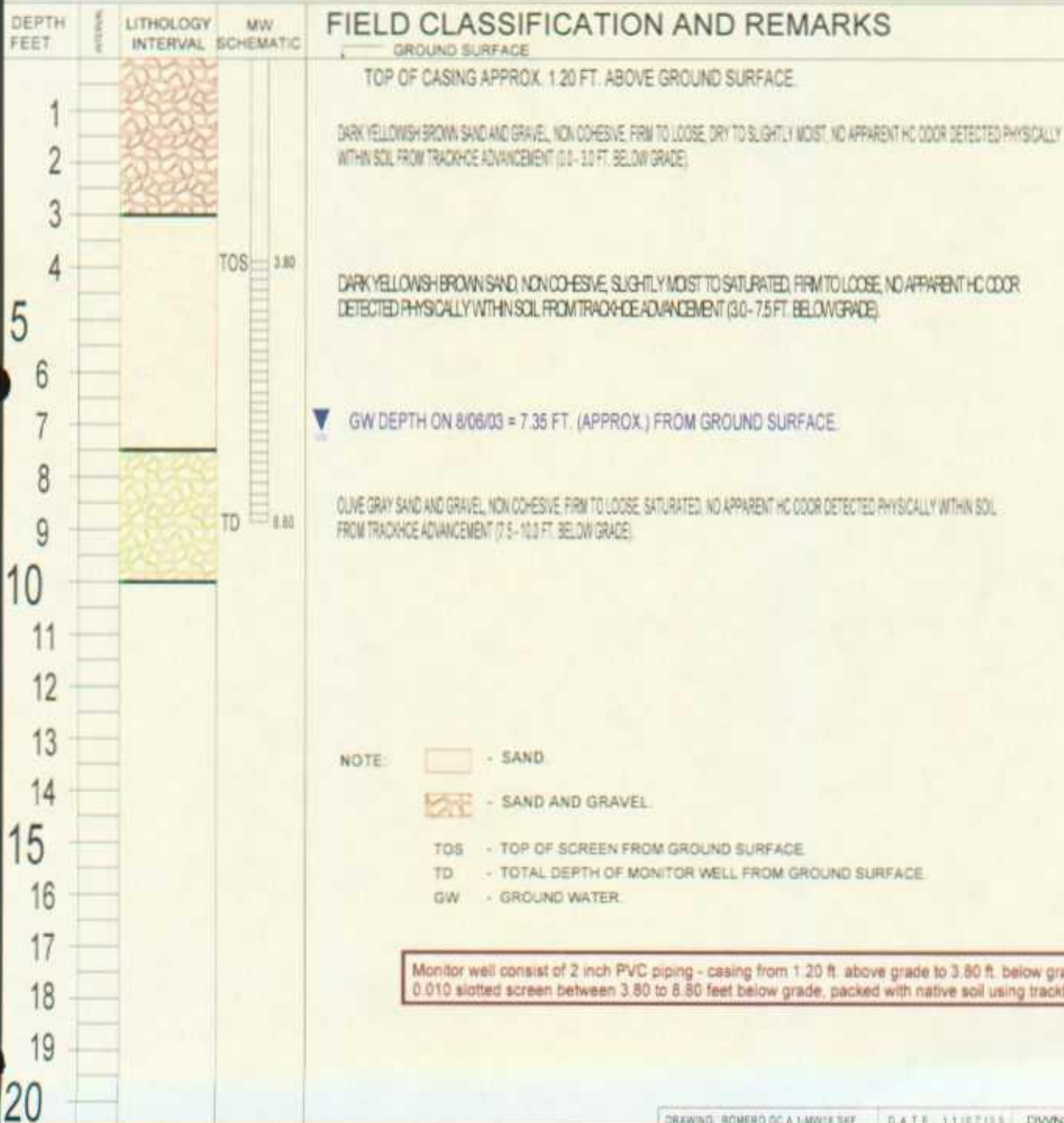
## BLAGG ENGINEERING, INC.

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

## BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.  
LOCATION NAME: ROMERO GC A #1 - SEPARATOR PIT, UNIT K, SEC. 27, T29N, R10W  
CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS, INC.  
EQUIPMENT USED: TRACKHOE  
BORING LOCATION: 80 FT., S33.5W FROM WELL HEAD.

BORING #..... BH - 1  
MW #..... 1X  
PAGE #..... 1  
DATE STARTED 7/28/03  
DATE FINISHED 7/28/03  
OPERATOR RM  
PREPARED BY NJV



# FIGURE 6

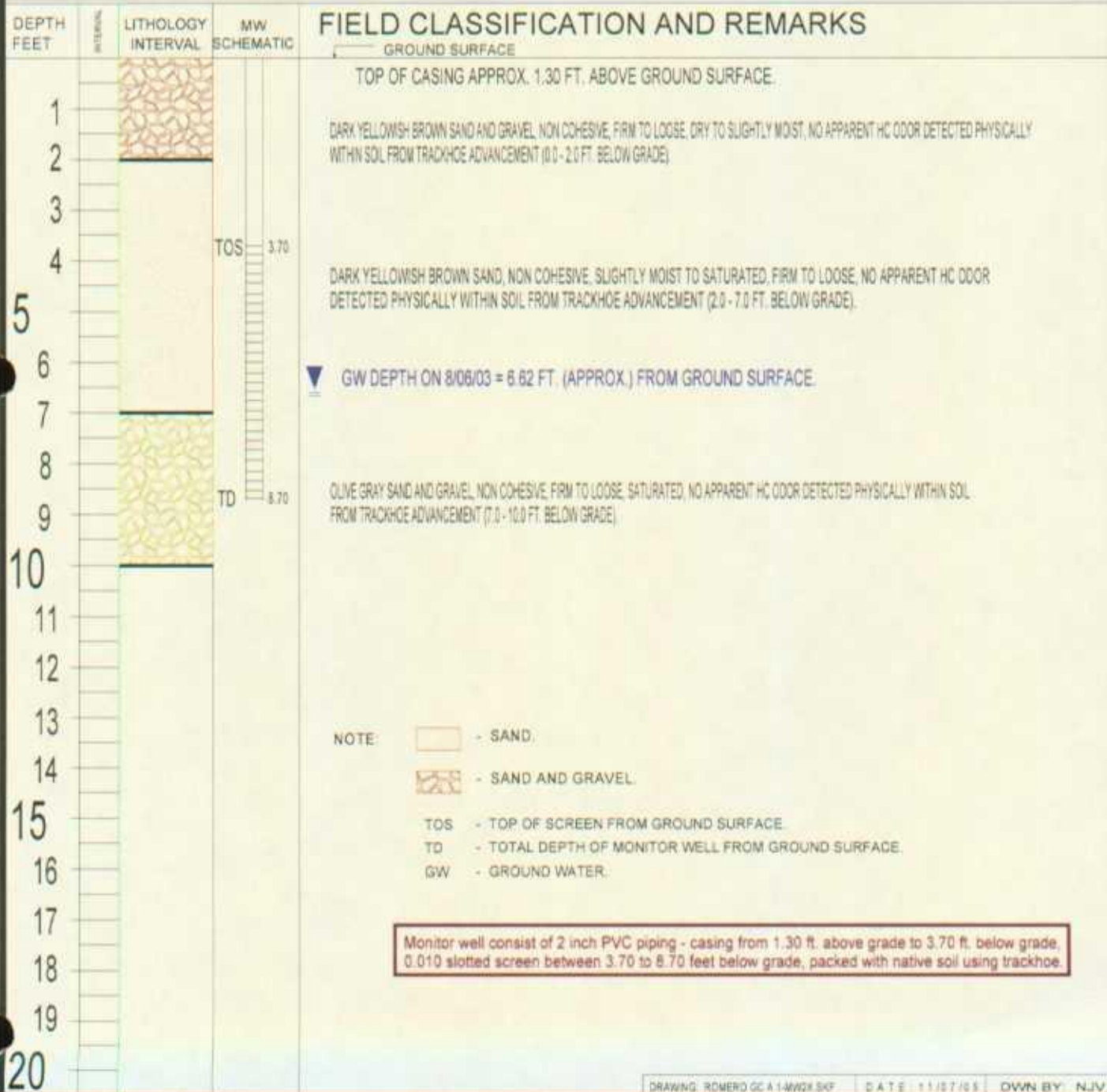
## BLAGG ENGINEERING, INC.

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

# BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.  
LOCATION NAME: ROMERO GC A #1 - SEPARATOR PIT, UNIT K, SEC. 27, T29N, R10W  
CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS, INC.  
EQUIPMENT USED: TRACKHOE  
BORING LOCATION: 143 FT., S67.5W FROM WELL HEAD.

BORING #..... BH - 2  
MW #..... 2X  
PAGE #..... 2  
DATE STARTED 7/28/03  
DATE FINISHED 7/28/03  
OPERATOR..... RM  
PREPARED BY NJV



# FIGURE 7

BLAGG ENGINEERING, INC.

P.O. BOX 87  
BLOOMFIELD, NM 87413

(505) 632-1199

## BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.  
LOCATION NAME: ROMERO GC A #1 - SEPARATOR PIT, UNIT K, SEC. 27, T29N, R10W  
CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS, INC.  
EQUIPMENT USED: TRACKHOE  
BORING LOCATION: 113 FT., N86W FROM WELL HEAD

BORING #..... BH - 3  
MW #..... 3X  
PAGE #..... 3  
DATE STARTED 7/28/03  
DATE FINISHED 7/28/03  
OPERATOR..... RM  
PREPARED BY NJV

DEPTH  
FEET

LITHOLOGY  
INTERVAL

MW  
SCHEMATIC

### FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 1.00 FT. ABOVE GROUND SURFACE.

DARK YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, FIRM TO LOOSE, DRY TO SLIGHTLY MOIST, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN SOIL FROM TRACKHOE ADVANCEMENT (0.0 - 2.0 FT. BELOW GRADE)

DARK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN SOIL FROM TRACKHOE ADVANCEMENT (2.0 - 8.0 FT. BELOW GRADE)

TOS 4.00

▼ GW DEPTH ON 8/06/03 = 7.57 FT. (APPROX.) FROM GROUND SURFACE.

OLIVE GRAY SAND AND GRAVEL, NON COHESIVE, FIRM TO LOOSE, SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN SOIL FROM TRACKHOE ADVANCEMENT (8.0 - 10.0 FT. BELOW GRADE)

TD 9.00

NOTE:

□ - SAND

▨ - SAND AND GRAVEL

TOS - TOP OF SCREEN FROM GROUND SURFACE.

TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

GW - GROUND WATER.

Monitor well consist of 2 inch PVC piping - casing from 1.00 ft. above grade to 4.00 ft. below grade, 0.010 slotted screen between 4.00 to 9.00 feet below grade, packed with native soil using trackhoe

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A & 11117**

**ROMERO GC A # 1**

LABORATORY (S) USED : **HALL ENVIRON. & ENVIROTECH**

**UNIT K, SEC. 17, T29N, R10W**

Date : **August 6, 2003**

SAMPLER : **N J V**

Filename : **08-06-03.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      | 98.28           | 90.37            | 7.91                | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 89.96            | 8.55                | 10.00            | 0845          | 6.88 | -               | 20.6            | 0.50                 |
| 2X     | 97.77           | 89.85            | 7.92                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.51            | 8.57                | 10.00            | 0825          | 6.96 | -               | 20.9            | 0.75                 |

INSTRUMENT CALIBRATIONS =

7.00 2.800

DATE & TIME =

08/06/03 0745

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 # 3X, poor in MW # 1X. Collected BTEX samples from MW # 1X & # 3X. Collected major anion / cation & NMWQCC metals from MW # 3x only.

Top of casings above grade : MW # 1 - 2.20 ft., # 1X - 1.20 ft., # 2X - 1.30 ft., # 3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | 8.55 | time - 0740                      |
| 2X   | -    |                                  |
| 3X   | 8.57 | time - 0815                      |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | 8.55 | time - 0842                        |
| 2X   | -    |                                    |
| 3X   | 8.57 | time - 0825                        |

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A & 11147**

**ROMERO GC A # 1**

LABORATORY (S) USED : **HALL ENVIRON. & ENVIROTECH**

**UNIT K, SEC. 17, T29N, R10W**

Date : **November 25, 2003**

SAMPLER : **N J V**

Filename : **11-25-03.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      | 98.28           | 92.01            | 6.27                | 10.00            | 0840          | 7.14 | 2,200           | 9.1             | 0.50                 |
| 1X     | 98.51           |                  | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           |                  | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 91.44            | 6.64                | 10.00            | 0855          | 7.18 | 2,000           | 11.0            | 1.75                 |

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

08/06/03 0745

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 #3X, very poor in MW #1. Collected BTEX sample from MW #3X only. Collected major anion / cation & three (3) NMWQCC metals from MW #1 only.

Top of casings above grade : MW #1 - 2.20 ft., #1X - 1.20 ft., #2X - 1.30 ft., #3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft ) |
|------|------|---------------------------------|
| 1    | 6.27 |                                 |
| 1X   | -    |                                 |
| 2X   | -    |                                 |
| 3X   | 6.64 |                                 |

| MW # | DTW  | ( @ time of sampling -<br>in ft ) |
|------|------|-----------------------------------|
| 1    | 6.92 |                                   |
| 1X   | -    |                                   |
| 2X   | -    |                                   |
| 3X   | 6.64 |                                   |

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

**ROMERO GC A #1**

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

**UNIT K, SEC. 17, 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      | 98.28           | 91.72            | 6.56                | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 91.63            | 6.88                | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | 91.55            | 6.22                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 91.40            | 6.68                | 10.00            | 1533          | 6.98 | 1,900           | 18.4            | 1.75                 |

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 # 3X. Collected BTEX sample from MW # 3X only.

Top of casings above grade : MW # 1 - 2.20 ft. , # 1X - 1.20 ft. , # 2X - 1.30 ft. , # 3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | -    |                                  |
| 2X   | -    |                                  |
| 3X   | 6.68 |                                  |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | -    |                                    |
| 2X   | -    |                                    |
| 3X   | 6.68 |                                    |

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

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

ROMERO GC A # 1

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

UNIT K, SEC. 17, T29N, R10W

Date : **June 16, 2004**

SAMPLER : **N J V**

Filename : **06-16-04.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      | 98.28           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 90.17            | 8.34                | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | 90.04            | 7.73                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.80            | 8.28                | 10.00            | 1040          | 6.94 | 1,800           | 21.6            | 0.75                 |

|                           |          |       |
|---------------------------|----------|-------|
| INSTRUMENT CALIBRATIONS = | 7.00     | 2,800 |
| DATE & TIME =             | 06/16/04 | 0750  |

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 # 3X. Collected BTEX sample from MW # 3X only.

Top of casings above grade : MW # 1 - 2.20 ft., # 1X - 1.20 ft., # 2X - 1.30 ft., # 3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | -    |                                  |
| 2X   | -    |                                  |
| 3X   | 6.68 |                                  |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | -    |                                    |
| 2X   | -    |                                    |
| 3X   | 6.68 |                                    |

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

CLIENT : **XTO ENERGY INC.**

CHAIN-OF-CUSTODY # : **N / A**

ROMERO GC A #1

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

UNIT K, SEC. 17, T29N, R10W

Date : **September 27, 2004**

SAMPLER : **NJV**

Filename : **09-27-04.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      | 98.28           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.69            | 8.39                | 10.00            | 1500          | 7.05 | 1,300           | 23.8            | 0.75                 |

INSTRUMENT CALIBRATIONS = 

|      |       |
|------|-------|
| 7.00 | 2,800 |
|------|-------|

  
DATE & TIME = 

|          |      |
|----------|------|
| 09/27/04 | 1025 |
|----------|------|

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 # 3X. Collected BTEX sample from MW # 3X only.

Top of casings above grade : MW # 1 - 2.20 ft., # 1X - 1.20 ft., # 2X - 1.30 ft., # 3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | -    |                                  |
| 2X   | -    |                                  |
| 3X   | 8.39 |                                  |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | -    |                                    |
| 2X   | -    |                                    |
| 3X   | 8.40 |                                    |

**BLAGG ENGINEERING, INC. (BEI)**

P.O. Box 87, Bloomfield, New Mexico 87413

July 28, 2003

Mr. William C. Olson  
Hydrologist  
State of New Mexico Oil Conservation Division (NMOCD)  
1220 St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: Potential Groundwater Impact  
XTO Energy Inc. (XTO)**

**Romero GC A # 1 Well site  
Legal Description: Unit K, Sec. 27, T29N, R10W  
San Juan County, New Mexico**

Dear Mr. Olson:

Apparent groundwater impact at the above referenced well site was observed during removal/reinstallation of a below grade steel tank pit associated with the separator unit on July 14, 2003. A verbal notification was made to your office the following day (July 15, 2003) by BEI. XTO has conducted aggressive remediation of both impacted soil and groundwater by way of excavation and pumping via water hauling truck, initiated on July 17, 2003. Depth to groundwater is estimated at seven (7) feet below grade. Monitor well installations will be conducted upon completion of the excavation, backfilling, and surface equipment reinstallation.

If you have any questions concerning this information, please do not hesitate to contact Nelson Velez or myself at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted,  
**Blagg Engineering, Inc.**

  
Jeffrey C. Blagg, P.E.  
President

cc: Denny Foust, Environmental Geologist, NMOCD, Aztec, NM  
Terry Matthews, Production Superintendent, XTO, Farmington, NM  
Darrin Steed, Environmental & Safety Manager, XTO, Farmington, NM

NJV/njv

ROMERO-GC-A1.LTR

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

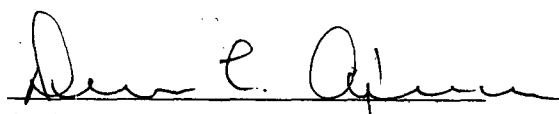
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / XTO     | Project #:          | 94034-010 |
| Sample ID:           | 1 @ 5'          | Date Reported:      | 07-18-03  |
| Laboratory Number:   | 26116           | Date Sampled:       | 07-17-03  |
| Chain of Custody No: | 11111           | Date Received:      | 07-18-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-18-03  |
| Preservative:        | Cool            | Date Analyzed:      | 07-18-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

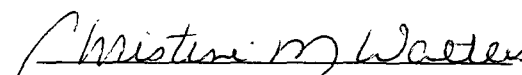
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND    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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Romero GC A #1 Production Tank Pit Grab Sample.**

  
Analyst

  
Review

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

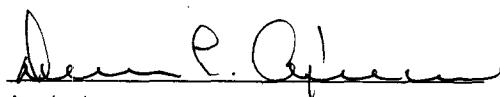
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / XTO     | Project #:          | 94034-010 |
| Sample ID:           | 1 @ 5'          | Date Reported:      | 07-18-03  |
| Laboratory Number:   | 26115           | Date Sampled:       | 07-17-03  |
| Chain of Custody No: | 11111           | Date Received:      | 07-18-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-18-03  |
| Preservative:        | Cool            | Date Analyzed:      | 07-18-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

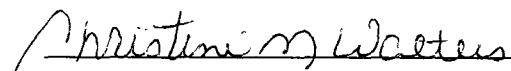
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 40.3                     | 0.2                      |
| Diesel Range (C10 - C28)     | 78.4                     | 0.1                      |
| Total Petroleum Hydrocarbons | 119                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

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

Comments: **Romero GC A #1 Separator Pit Grab Sample.**

  
Analyst

  
Review

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

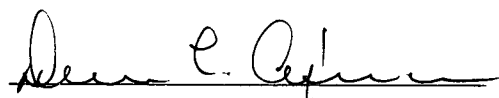
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / XTO     | Project #:          | 94034-010 |
| Sample ID:           | ESW @ 4'        | Date Reported:      | 07-22-03  |
| Laboratory Number:   | 26130           | Date Sampled:       | 07-21-03  |
| Chain of Custody No: | 11112           | Date Received:      | 07-21-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-22-03  |
| Preservative:        | Cool            | Date Analyzed:      | 07-22-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

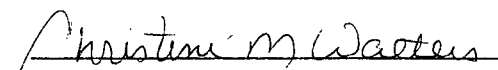
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND    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

ND - Parameter not detected at the stated detection limit.

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

Comments: Romero GC A #1 Separator Pit Grab Sample.

  
Analyst

  
Review

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

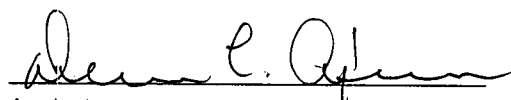
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / XTO     | Project #:          | 94034-010 |
| Sample ID:           | NSW @ 5'        | Date Reported:      | 07-22-03  |
| Laboratory Number:   | 26131           | Date Sampled:       | 07-21-03  |
| Chain of Custody No: | 11112           | Date Received:      | 07-21-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-22-03  |
| Preservative:        | Cool            | Date Analyzed:      | 07-22-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

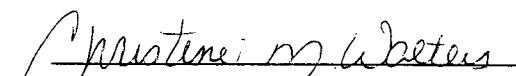
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND    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

ND - Parameter not detected at the stated detection limit.

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

Comments: Romero GC A #1 Separator Pit Grab Sample.

  
Analyst

  
Review

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

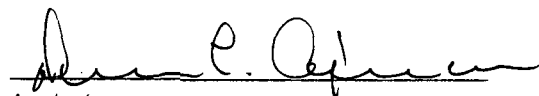
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / XTO     | Project #:          | 94034-010 |
| Sample ID:           | Sep. @ 7'       | Date Reported:      | 07-28-03  |
| Laboratory Number:   | 26166           | Date Sampled:       | 07-25-03  |
| Chain of Custody No: | 11116           | Date Received:      | 07-25-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-28-03  |
| Preservative:        | Cool            | Date Analyzed:      | 07-28-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

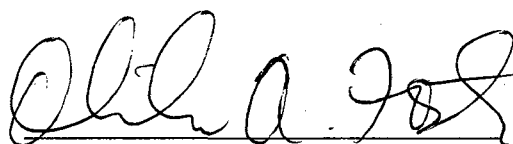
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND    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

ND - Parameter not detected at the stated detection limit.

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

Comments: Romero GC A #1 Separator Tank Pit Cleanup Grab Sample.

  
Analyst

  
Review

101

# ENVIROTECH INC.

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

**ENVIROTECH INC.**

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

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ENVIROTECH INC.

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

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 07-18-TPH QA/QC    | Date Reported:      | 07-18-03 |
| Laboratory Number: | 26105              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 07-18-03 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 04-29-03   | 2.6312E-002 | 2.6286E-002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 04-29-03   | 2.5849E-002 | 2.5823E-002 | 0.10%        | 0 - 15%       |

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

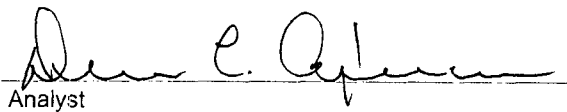
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 1.8    | 1.8       | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

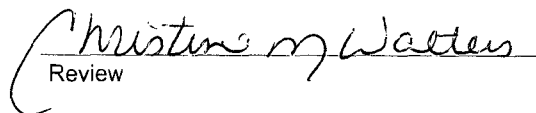
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 1.8    | 250         | 251          | 99.8%      | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples 26105 - 26108, 26115 - 26116.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 07-22-TPH QA/QC    | Date Reported:      | 07-22-03 |
| Laboratory Number: | 26127              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 07-22-03 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF:   | C-Cal RF:   | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 04-29-03   | 2.6312E-002 | 2.6286E-002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 04-29-03   | 2.5849E-002 | 2.5823E-002 | 0.10%        | 0 - 15%       |

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

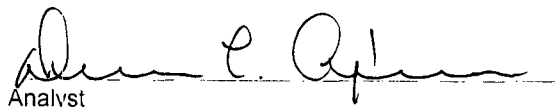
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | ND     | ND        | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | ND     | 250         | 250          | 100.0%     | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples 26127, 26129 - 26134.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 07-28-TPH QA/QC    | Date Reported:      | 07-28-03 |
| Laboratory Number: | 26163              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 07-28-03 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept Range |
|-------------------------|------------|-------------|-------------|--------------|--------------|
| Gasoline Range C5 - C10 | 04-29-03   | 2.6312E-002 | 2.6286E-002 | 0.10%        | 0 - 15%      |
| Diesel Range C10 - C28  | 04-29-03   | 2.5849E-002 | 2.5823E-002 | 0.10%        | 0 - 15%      |

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

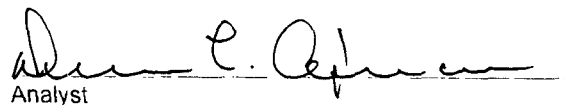
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept Range |
|-------------------------|--------|-----------|--------------|--------------|
| Gasoline Range C5 - C10 | 2.1    | 2.1       | 0.0%         | 0 - 30%      |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%      |

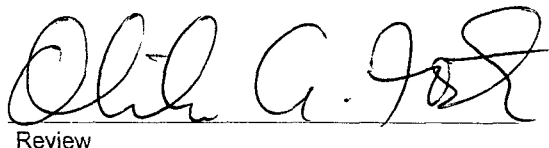
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept Range |
|-------------------------|--------|-------------|--------------|------------|--------------|
| Gasoline Range C5 - C10 | 2.1    | 250         | 252          | 99.8%      | 75 - 125%    |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%    |

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples 26163 - 26166, 26174.

  
Analyst

  
Review

**BLAGG ENGINEERING, INC.****MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA****CLIENT : XTO ENERGY INC.****CHAIN-OF-CUSTODY # : N / A & 11117****ROMERO GC A #1****LABORATORY (S) USED : HALL ENVIRON. & ENVIROTECH****UNIT K, SEC. 17, T29N, R10W****Date : August 6, 2003****SAMPLER : N J V****Filename : 08-06-03.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      | 98.28           | 90.37            | 7.91                | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 89.96            | 8.55                | 10.00            | 0845          | 6.88 | -               | 20.6            | 0.50                 |
| 2X     | 97.77           | 89.85            | 7.92                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.51            | 8.57                | 10.00            | 0825          | 6.96 | -               | 20.9            | 0.75                 |

**INSTRUMENT CALIBRATIONS =**

7.00 2,800

**DATE & TIME =**

08/06/03 0745

**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 # 3X, poor in MW # 1X. Collected BTEX samples from  
MW # 1X & # 3X. Collected major anion / cation & NMWQCC metals from MW # 3x  
only.

Top of casings above grade : MW # 1 - 2.20 ft. , # 1X - 1.20 ft. , # 2X - 1.30 ft. , # 3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | 8.55 | time - 0740                      |
| 2X   | -    |                                  |
| 3X   | 8.57 | time - 0815                      |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | 8.55 | time - 0842                        |
| 2X   | -    |                                    |
| 3X   | 8.57 | time - 0825                        |

# Hall Environmental Analysis Laboratory

Date: 27-Aug-03

CLIENT: Blagg Engineering  
Lab Order: 0308047  
Project: Romero GC A#1  
Lab ID: 0308047-01

Client Sample ID: MW #1X  
Collection Date: 8/6/2003 8:45:00 AM

Matrix: AQUEOUS

| Analyses                           | Result | Limit  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Benzene                            | ND     | 0.50   |      | µg/L  | 1  | 8/14/2003 4:58:59 PM |
| Toluene                            | ND     | 0.50   |      | µg/L  | 1  | 8/14/2003 4:58:59 PM |
| Ethylbenzene                       | ND     | 0.50   |      | µg/L  | 1  | 8/14/2003 4:58:59 PM |
| Xylenes, Total                     | ND     | 0.50   |      | µg/L  | 1  | 8/14/2003 4:58:59 PM |
| Surr: 4-Bromofluorobenzene         | 98.3   | 74-118 |      | %REC  | 1  | 8/14/2003 4:58:59 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

# Hall Environmental Analysis Laboratory

Date: 27-Aug-03

CLIENT: Blagg Engineering  
Lab Order: 0308047  
Project: Romero GC A#1  
Lab ID: 0308047-02

Client Sample ID: MW #3X  
Collection Date: 8/6/2003 8:25:00 AM  
Matrix: AQUEOUS

| Analyses                                   | Result | Limit   | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------|--------|---------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b>         |        |         |      |       |    | Analyst: NSB         |
| Benzene                                    | 14     | 0.50    |      | µg/L  | 1  | 8/14/2003 5:29:54 PM |
| Toluene                                    | ND     | 0.50    |      | µg/L  | 1  | 8/14/2003 5:29:54 PM |
| Ethylbenzene                               | ND     | 0.50    |      | µg/L  | 1  | 8/14/2003 5:29:54 PM |
| Xylenes, Total                             | ND     | 0.50    |      | µg/L  | 1  | 8/14/2003 5:29:54 PM |
| Surr: 4-Bromofluorobenzene                 | 102    | 74-118  |      | %REC  | 1  | 8/14/2003 5:29:54 PM |
| <b>EPA METHOD 8310: PAHS</b>               |        |         |      |       |    | Analyst: GT          |
| Naphthalene                                | ND     | 2.5     |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| 1-Methylnaphthalene                        | ND     | 2.5     |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| 2-Methylnaphthalene                        | ND     | 2.5     |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Acenaphthylene                             | ND     | 2.5     |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Acenaphthene                               | ND     | 2.5     |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Fluorene                                   | ND     | 0.80    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Phenanthrene                               | ND     | 0.60    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Anthracene                                 | ND     | 0.60    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Fluoranthene                               | ND     | 0.30    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Pyrene                                     | ND     | 0.30    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Benz(a)anthracene                          | ND     | 0.020   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Chrysene                                   | ND     | 0.20    |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Benzo(b)fluoranthene                       | ND     | 0.050   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Benzo(k)fluoranthene                       | ND     | 0.020   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Benzo(a)pyrene                             | ND     | 0.020   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Dibenz(a,h)anthracene                      | ND     | 0.040   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Benzo(g,h,i)perylene                       | ND     | 0.030   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Indeno(1,2,3-cd)pyrene                     | ND     | 0.080   |      | µg/L  | 1  | 8/14/2003 8:24:37 PM |
| Surr: Benzo(e)pyrene                       | 77.4   | 54-102  |      | %REC  | 1  | 8/14/2003 8:24:37 PM |
| <b>EPA METHOD 7470: MERCURY</b>            |        |         |      |       |    | Analyst: MAP         |
| Mercury                                    | 0.0045 | 0.00020 |      | mg/L  | 1  | 8/22/2003            |
| <b>EPA 6010C: TOTAL RECOVERABLE METALS</b> |        |         |      |       |    | Analyst: NMO         |
| Aluminum                                   | 1.1    | 0.040   |      | mg/L  | 2  | 8/26/2003 8:47:24 AM |
| Arsenic                                    | ND     | 0.020   |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Barium                                     | 0.10   | 0.020   |      | mg/L  | 1  | 8/26/2003 8:32:07 AM |
| Boron                                      | 0.14   | 0.040   |      | mg/L  | 1  | 8/26/2003 3:24:56 PM |
| Cadmium                                    | ND     | 0.0020  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Chromium                                   | ND     | 0.0060  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Cobalt                                     | ND     | 0.0060  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Copper                                     | ND     | 0.0060  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Iron                                       | 2.1    | 0.080   |      | mg/L  | 4  | 8/26/2003 8:51:45 AM |
| Lead                                       | 0.011  | 0.0050  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Manganese                                  | 3.6    | 0.020   |      | mg/L  | 10 | 8/26/2003 1:15:29 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

# Hall Environmental Analysis Laboratory

Date: 27-Aug-03

**CLIENT:** Blagg Engineering  
**Lab Order:** 0308047  
**Project:** Romero GC A#1  
**Lab ID:** 0308047-02

**Client Sample ID:** MW #3X  
**Collection Date:** 8/6/2003 8:25:00 AM  
**Matrix:** AQUEOUS

| Analyses   | Result | Limit  | Qual | Units | DF | Date Analyzed        |
|------------|--------|--------|------|-------|----|----------------------|
| Molybdenum | ND     | 0.0080 |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Nickel     | ND     | 0.010  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Selenium   | ND     | 0.020  |      | mg/L  | 1  | 8/26/2003 1:09:27 PM |
| Silver     | ND     | 0.0050 |      | mg/L  | 1  | 8/26/2003 4:02:40 PM |
| Zinc       | 0.033  | 0.0050 |      | mg/L  | 1  | 8/26/2003 2:30:52 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

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

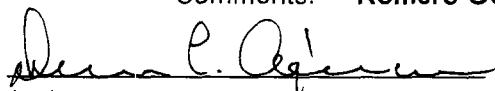
## CATION / ANION ANALYSIS

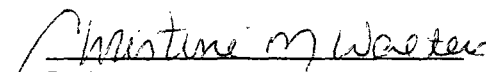
|                    |               |                 |           |
|--------------------|---------------|-----------------|-----------|
| Client:            | Blagg / XTO   | Project #:      | 94034-010 |
| Sample ID:         | MW #3X        | Date Reported:  | 08-06-03  |
| Laboratory Number: | 26258         | Date Sampled:   | 08-06-03  |
| Chain of Custody:  | 11117         | Date Received:  | 08-06-03  |
| Sample Matrix:     | Water         | Date Extracted: | N/A       |
| Preservative:      | Cool          | Date Analyzed:  | 08-06-03  |
| Condition:         | Cool & Intact |                 |           |

| Parameter                     | Analytical Result | Units    | Units       |
|-------------------------------|-------------------|----------|-------------|
| pH                            | 7.14              | s.u.     |             |
| Conductivity @ 25° C          | 3,280             | umhos/cm |             |
| Total Dissolved Solids @ 180C | 1,700             | mg/L     |             |
| Total Dissolved Solids (Calc) | 1,540             | mg/L     |             |
| SAR                           | 2.5               | ratio    |             |
| Total Alkalinity as CaCO3     | 343               | mg/L     |             |
| Total Hardness as CaCO3       | 852               | mg/L     |             |
| Bicarbonate as HCO3           | 343               | mg/L     | 5.62 meq/L  |
| Carbonate as CO3              | <0.1              | mg/L     | 0.00 meq/L  |
| Hydroxide as OH               | <0.1              | mg/L     | 0.00 meq/L  |
| A Nitrate Nitrogen            | 0.1               | mg/L     | 0.00 meq/L  |
| A Nitrite Nitrogen            | 0.008             | mg/L     | 0.00 meq/L  |
| A Chloride                    | 225               | mg/L     | 6.35 meq/L  |
| A Fluoride                    | 0.44              | mg/L     | 0.02 meq/L  |
| A Phosphate                   | 0.6               | mg/L     | 0.02 meq/L  |
| A Sulfate                     | 605               | mg/L     | 12.60 meq/L |
| Iron                          | 0.460             | mg/L     | 0.02 meq/L  |
| Calcium                       | 285               | mg/L     | 14.21 meq/L |
| C Magnesium                   | 34.2              | mg/L     | 2.81 meq/L  |
| C Potassium                   | 9.50              | mg/L     | 0.24 meq/L  |
| C Sodium                      | 168               | mg/L     | 7.31 meq/L  |
| Cations                       |                   | 24.59    | meq/L       |
| Anions                        |                   | 24.61    | meq/L       |
| Cation/Anion Difference       |                   | 0.05%    |             |

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Water And Waste Water", 18th ed., 1992.

Comments: Romero GC A #1.

  
Analyst

  
Review

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
4901 Hawkins NE, Suite A  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

| <b>Client:</b> BLASS EXSR./XTO ENERGY |                      |                                                           |                 |                                                       |                                                        | <b>Project Name:</b>                                                                       |             |
|---------------------------------------|----------------------|-----------------------------------------------------------|-----------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------|
|                                       |                      |                                                           |                 |                                                       |                                                        | ROMERO GC A #1                                                                             |             |
| <b>Address:</b> P.O. BOX 87           |                      |                                                           |                 |                                                       |                                                        | <b>Project #:</b>                                                                          |             |
| BLOOMFIELD, NM 87413                  |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        | <b>Project Manager:</b>                                                                    |             |
|                                       |                      |                                                           |                 |                                                       |                                                        | NELSON VELEZ                                                                               |             |
| <b>Phone #:</b> (505) 632-1199        |                      |                                                           |                 |                                                       |                                                        | <b>Sampler:</b> NELSON Velez                                                               |             |
| <b>Fax #:</b> (505) 632-3903          |                      |                                                           |                 |                                                       |                                                        | <b>Samples Col'd?:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |             |
| Date                                  | Time                 | Matrix                                                    | Sample I.D. No. | Number/Volume                                         | Preservative<br>HgCl <sub>2</sub> HCl HNO <sub>3</sub> |                                                                                            | HEAL No.    |
| 8/6/03                                | 8:15                 | WATER                                                     | MW #1 X         | 2 - 40ml                                              | ✓                                                      |                                                                                            | 0308047 / 1 |
| 8/6/03                                | 0825                 | WATER                                                     | MW #3 X         | 2 - 40ml<br>1 - 500 ml<br>1 - LITER                   | ✓                                                      | ✓                                                                                          | / 2         |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
|                                       |                      |                                                           |                 |                                                       |                                                        |                                                                                            |             |
| <b>Date:</b><br>8/6/03                | <b>Time:</b><br>0920 | <b>Relinquished By: (Signature)</b><br><i>[Signature]</i> |                 | <b>Received By: (Signature)</b><br><i>[Signature]</i> |                                                        | <b>8/6/03</b>                                                                              |             |
| <b>Date:</b>                          | <b>Time:</b>         | <b>Relinquished By: (Signature)</b>                       |                 | <b>Received By: (Signature)</b>                       |                                                        | <b>1700</b>                                                                                |             |



Blagg Engineering, Inc./ XTO Energy - Romero GC A # 1 Water Samples

August 6, 2003

Metal Analyses requested for MW # 1X & # 3X

- 1) ALUMINUM (Al)
- 2) ARSENIC (Ar)
- 3) BARIUM (Ba)
- 4) BORON (Bo)
- 5) CADMIUM (Cd)
- 6) CHROMIUM (Cr)
- 7) COBALT (Co)
- 8) COPPER (Cu)
- 9) IRON (Fe)
- 10) LEAD (Pb)
- 11) MANGANESE (Mn)
- 12) MOLYBDENUM (Mo)
- 13) NICKEL (Ni)
- 14) SELENIUM (Se)
- 15) SILVER (Ag)
- 16) ZINC (Zn)
  
- 17) TOTAL MERCURY (Hg)

## Hall Environmental Analysis Laboratory

Date: 27-Aug-03

CLIENT: Blagg Engineering  
Work Order: 0308047  
Project: Romero GC A#1

**QC SUMMARY REPORT**  
Method Blank

|                            |                  |                 |                        |             |               |                       |           |             |      |          |      |
|----------------------------|------------------|-----------------|------------------------|-------------|---------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID                  | Reagent Blank 5m | Batch ID: R9218 | Test Code: SW8021      | Units: µg/L | Analysis Date | 8/14/2003 10:37:22 AM | Prep Date |             |      |          |      |
| Client ID:                 |                  |                 | Run ID: PIDFID_030814A |             | SeqNo:        | 208234                |           |             |      |          |      |
| 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 | 19.41            | 0               | 20                     | 0           | 97.0          | 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

/

**CLIENT:** Blagg Engineering  
**Work Order:** 0308047  
**Project:** Romero GC A#1

**QC SUMMARY REPORT**  
 Method Blank

Sample ID **MB-4091** Batch ID: **4091** Test Code: **SW8310** Units: **µg/L** Analysis Date **8/14/2003 6:00:41 PM** Prep Date **8/11/2003**  
 Client ID: Run ID: **HUGO\_030814A** SeqNo: **208187**

| Analyte                | Result | PQL   | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Naphthalene            | ND     | 2.5   |           |             |      |          |           |             |      |          |      |
| 1-Methylnaphthalene    | ND     | 2.5   |           |             |      |          |           |             |      |          |      |
| 2-Methylnaphthalene    | ND     | 2.5   |           |             |      |          |           |             |      |          |      |
| Acenaphthylene         | ND     | 2.5   |           |             |      |          |           |             |      |          |      |
| Acenaphthene           | ND     | 2.5   |           |             |      |          |           |             |      |          |      |
| Fluorene               | ND     | 0.80  |           |             |      |          |           |             |      |          |      |
| Phenanthrene           | ND     | 0.60  |           |             |      |          |           |             |      |          |      |
| Anthracene             | ND     | 0.60  |           |             |      |          |           |             |      |          |      |
| Fluoranthene           | ND     | 0.30  |           |             |      |          |           |             |      |          |      |
| Pyrene                 | ND     | 0.30  |           |             |      |          |           |             |      |          |      |
| Benz(a)anthracene      | ND     | 0.020 |           |             |      |          |           |             |      |          |      |
| Chrysene               | ND     | 0.20  |           |             |      |          |           |             |      |          |      |
| Benzo(b)fluoranthene   | ND     | 0.050 |           |             |      |          |           |             |      |          |      |
| Benzo(k)fluoranthene   | ND     | 0.020 |           |             |      |          |           |             |      |          |      |
| Benzo(a)pyrene         | ND     | 0.020 |           |             |      |          |           |             |      |          |      |
| Dibenz(a,h)anthracene  | ND     | 0.040 |           |             |      |          |           |             |      |          |      |
| Benzo(g,h,i)perylene   | ND     | 0.030 |           |             |      |          |           |             |      |          |      |
| Indeno(1,2,3-cd)pyrene | ND     | 0.080 |           |             |      |          |           |             |      |          |      |
| Surr: Benzo(e)pyrene   | 14.96  | 0     |           |             |      |          |           |             |      |          |      |
|                        |        |       | 20        | 0           | 74.8 | 54       | 102       | 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:** 0308047  
**Project:** Romero GC A#1

**QC SUMMARY REPORT**  
 Method Blank

|                      |         |           |              |            |             |        |          |               |                      |           |           |
|----------------------|---------|-----------|--------------|------------|-------------|--------|----------|---------------|----------------------|-----------|-----------|
| Sample ID            | MB-4091 | Batch ID: | 4091         | Test Code: | SW8310      | Units: | µg/L     | Analysis Date | 8/14/2003 6:00:41 PM | Prep Date | 8/11/2003 |
| Client ID:           |         | Run ID:   | HUGO_030814A |            |             |        |          | SeqNo:        | 209325               |           |           |
| Analyte              |         | Result    | PQL          | SPK value  | SPK Ref Val | %REC   | LowLimit | HighLimit     | RPD Ref Val          | %RPD      | RPDLimit  |
| Naphthalene          |         | ND        | 10           |            |             |        |          |               |                      |           |           |
| 1-Methylnaphthalene  |         | ND        | 10           |            |             |        |          |               |                      |           |           |
| 2-Methylnaphthalene  |         | ND        | 10           |            |             |        |          |               |                      |           |           |
| Benzo(a)pyrene       |         | ND        | 0.10         |            |             |        |          |               |                      |           |           |
| Surr: Benzo(e)pyrene |         | 14.96     | 0            | 20         | 0           | 74.8   | 54       | 102           | 0                    |           |           |

|            |         |           |                  |            |             |        |          |               |             |           |           |
|------------|---------|-----------|------------------|------------|-------------|--------|----------|---------------|-------------|-----------|-----------|
| Sample ID  | MB-4168 | Batch ID: | 4168             | Test Code: | SW7470      | Units: | mg/L     | Analysis Date | 8/22/2003   | Prep Date | 8/20/2003 |
| Client ID: |         | Run ID:   | MI-LA254_030822B |            |             |        |          | SeqNo:        | 210256      |           |           |
| Analyte    |         | Result    | PQL              | SPK value  | SPK Ref Val | %REC   | LowLimit | HighLimit     | RPD Ref Val | %RPD      | RPDLimit  |
| Mercury    |         | ND        | 0.00020          |            |             |        |          |               |             |           |           |

|            |    |           |             |            |             |        |          |               |                      |           |           |
|------------|----|-----------|-------------|------------|-------------|--------|----------|---------------|----------------------|-----------|-----------|
| Sample ID  | MB | Batch ID: | 4114        | Test Code: | SW6010A     | Units: | mg/L     | Analysis Date | 8/26/2003 8:01:58 AM | Prep Date | 8/12/2003 |
| Client ID: |    | Run ID:   | ICP_030826A |            |             |        |          | SeqNo:        | 210687               |           |           |
| Analyte    |    | Result    | PQL         | SPK value  | SPK Ref Val | %REC   | LowLimit | HighLimit     | RPD Ref Val          | %RPD      | RPDLimit  |
| Aluminum   |    | ND        | 0.020       |            |             |        |          |               |                      |           |           |
| Barium     |    | 0.001493  | 0.020       |            |             |        |          |               |                      |           |           |
| Iron       |    | ND        | 0.020       |            |             |        |          |               |                      |           |           |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank

**CLIENT:** Blagg Engineering  
**Work Order:** 0308047  
**Project:** Romero GC A#1

**QC SUMMARY REPORT**  
 Method Blank

|            |          |                |                     |             |               |                       |           |             |      |          |      |
|------------|----------|----------------|---------------------|-------------|---------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4114  | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 11:57:15 AM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |          |                | Run ID: ICP_030826C |             | SeqNo:        | 210827                |           |             |      |          |      |
| Analyte    | Result   | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit              | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic    | 0.006166 | 0.020          | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          | J    |
| Cadmium    | ND       | 0.0020         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |
| Chromium   | 0.002812 | 0.0060         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          | J    |
| Cobalt     | ND       | 0.0060         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |
| Copper     | ND       | 0.0060         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |
| Lead       | 0.003861 | 0.0050         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          | J    |
| Molybdenum | ND       | 0.0080         | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |
| Nickel     | ND       | 0.010          | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |
| Selenium   | ND       | 0.020          | 0                   | 0           | 0             | 0                     | 0         | 0           |      |          |      |

|            |          |                |                     |             |               |                      |           |             |      |          |      |
|------------|----------|----------------|---------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4114  | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 2:23:56 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |          |                | Run ID: ICP_030826D |             | SeqNo:        | 210847               |           |             |      |          |      |
| Analyte    | Result   | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Boron      | ND       | 0.040          | 0                   | 0           | 0             | 0                    | 0         | 0           |      |          |      |
| Zinc       | 0.001247 | 0.0050         | 0                   | 0           | 0             | 0                    | 0         | 0           |      |          | J    |

|            |          |                |                     |             |               |                      |           |             |      |          |      |
|------------|----------|----------------|---------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4114  | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 3:57:15 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |          |                | Run ID: ICP_030826E |             | SeqNo:        | 210931               |           |             |      |          |      |
| Analyte    | Result   | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Silver     | 0.001099 | 0.0050         | 0                   | 0           | 0             | 0                    | 0         | 0           |      |          | J    |

|            |         |                |                     |             |               |                      |           |             |      |          |      |
|------------|---------|----------------|---------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4114 | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 3:18:34 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |         |                | Run ID: ICP_030826F |             | SeqNo:        | 210947               |           |             |      |          |      |
| Analyte    | Result  | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Boron      | ND      | 0.040          | 0                   | 0           | 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

# Hall Environmental Analysis Laboratory

Date: 27-Aug-03

**CLIENT:** Blagg Engineering  
**Work Order:** 0308047  
**Project:** Romero GC A#1

## QC SUMMARY REPORT

Sample Duplicate

|            |             |           |                  |             |         |           |      |               |           |             |           |
|------------|-------------|-----------|------------------|-------------|---------|-----------|------|---------------|-----------|-------------|-----------|
| Sample ID  | 0308047-02C | Batch ID: | 4168             | Test Code:  | SW7470  | Units:    | mg/L | Analysis Date | 8/22/2003 | Prep Date   | 8/20/2003 |
| Client ID: | MW #3X      | Run ID:   | MI-LA254_030822B | SeqNo:      | 210260  |           |      |               |           |             |           |
| Analyte    |             | Result    |                  | PQL         | 0.00020 | SPK value | 0    | %REC          | 0         | 0           | 0         |
|            |             |           |                  | SPK Ref Val |         |           |      | LowLimit      | HighLimit | RPD Ref Val | RPDLimit  |
| Mercury    |             | 0.00441   |                  |             |         |           |      | 0             | 0         | 0.00447     | 1.35      |
|            |             |           |                  |             |         |           |      |               |           |             | 20        |

**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: 27-Aug-03

CLIENT: Blagg Engineering

Work Order: 0308047

Project: Romero GC A#1

## QC SUMMARY REPORT

Laboratory Control Spike - generic

| Sample ID      | BTEX Std 100ng         | Batch ID: R9218 | Test Code: SW8021 | Units: µg/L | Analysis Date 8/14/2003 10:06:14 PM | Prep Date |
|----------------|------------------------|-----------------|-------------------|-------------|-------------------------------------|-----------|
| Client ID:     | Run ID: PIDFID_030814A |                 | PQL               | SPK value   | SeqNo: 208251                       |           |
| Analyte        | Result                 |                 |                   |             | LowLimit                            | HighLimit |
| Benzene        | 21.16                  | 0.50            | 20                | 0           | 81.3                                | 121       |
| Toluene        | 20.07                  | 0.50            | 20                | 0           | 84.9                                | 118       |
| Ethylbenzene   | 19.42                  | 0.50            | 20                | 0           | 53.8                                | 149       |
| Xylenes, Total | 60.08                  | 0.50            | 60                | 0           | 83.1                                | 122       |

| Sample ID              | LCS-4091             | Batch ID: 4091 | Test Code: SW8310 | Units: µg/L | Analysis Date 8/14/2003 6:48:40 PM | Prep Date 8/11/2003 |
|------------------------|----------------------|----------------|-------------------|-------------|------------------------------------|---------------------|
| Client ID:             | Run ID: HUGO_030814A |                | PQL               | SPK value   | SeqNo: 208188                      |                     |
| Analyte                | Result               |                |                   |             | LowLimit                           | HighLimit           |
| Naphthalene            | 15.89                | 2.5            | 40                | 0           | 31.4                               | 66.7                |
| 1-Methylnaphthalene    | 16.44                | 2.5            | 40.1              | 0           | 27.8                               | 71.3                |
| 2-Methylnaphthalene    | 16.2                 | 2.5            | 40                | 0           | 24.9                               | 72.4                |
| Acenaphthylene         | 18.49                | 2.5            | 40.1              | 0           | 25.8                               | 71.6                |
| Acenaphthene           | 19.5                 | 2.5            | 40                | 0           | 29.6                               | 78.4                |
| Fluorene               | 2.14                 | 0.80           | 4.01              | 0           | 36.9                               | 78.1                |
| Phenanthrene           | 1.18                 | 0.60           | 2.01              | 0           | 42.3                               | 87.7                |
| Anthracene             | 1.31                 | 0.60           | 2.01              | 0           | 46.1                               | 88.9                |
| Fluoranthene           | 2.78                 | 0.30           | 4.01              | 0           | 51.2                               | 98.4                |
| Pyrene                 | 2.76                 | 0.30           | 4.01              | 0           | 56                                 | 99.4                |
| Benz(a)anthracene      | 0.31                 | 0.020          | 0.401             | 0           | 64.3                               | 104                 |
| Chrysene               | 1.58                 | 0.20           | 2.01              | 0           | 65.2                               | 99.2                |
| Benzo(b)fluoranthene   | 0.42                 | 0.050          | 0.501             | 0           | 71.3                               | 106                 |
| Benzo(k)fluoranthene   | 0.22                 | 0.020          | 0.25              | 0           | 73.5                               | 105                 |
| Benzo(a)pyrene         | 0.23                 | 0.020          | 0.251             | 0           | 69.1                               | 111                 |
| Dibenz(a,h)anthracene  | 0.46                 | 0.040          | 0.501             | 0           | 74.7                               | 110                 |
| Benzo(g,h,i)perylene   | 0.46                 | 0.030          | 0.5               | 0           | 73.3                               | 114                 |
| Indeno(1,2,3-cd)pyrene | 0.97                 | 0.080          | 1.002             | 0           | 79.3                               | 104                 |

Qualifiers: NID - 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

J

# QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Blagg Engineering  
 Work Order: 0308047  
 Project: Romero GC A#1

|                     |          |                |                      |             |               |                      |           |             |      |          |      |
|---------------------|----------|----------------|----------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID           | LCS-4091 | Batch ID: 4091 | Test Code: SW8310    | Units: µg/L | Analysis Date | 8/14/2003 6:48:40 PM | Prep Date | 8/11/2003   |      |          |      |
| Client ID:          |          |                | Run ID: HUGO_030814A |             | SeqNo:        | 209326               |           |             |      |          |      |
| Analyte             | Result   | PQL            | SPK value            | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene         | 15.89    | 10             | 40                   | 0           | 39.7          | 31.4                 | 66.7      | 0           |      |          |      |
| 1-Methylnaphthalene | 16.44    | 10             | 40.1                 | 0           | 41.0          | 27.8                 | 71.3      | 0           |      |          |      |
| 2-Methylnaphthalene | 16.2     | 10             | 40                   | 0           | 40.5          | 24.9                 | 72.4      | 0           |      |          |      |
| Benzo(a)pyrene      | 0.23     | 0.10           | 0.251                | 0           | 91.6          | 69.1                 | 111       | 0           |      |          |      |

|            |          |                |                          |             |               |           |           |             |      |          |      |
|------------|----------|----------------|--------------------------|-------------|---------------|-----------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-4168 | Batch ID: 4168 | Test Code: SW7470        | Units: mg/L | Analysis Date | 8/22/2003 | Prep Date | 8/20/2003   |      |          |      |
| Client ID: |          |                | Run ID: MI-LA254_030822B |             | SeqNo:        | 210257    |           |             |      |          |      |
| Analyte    | Result   | PQL            | SPK value                | SPK Ref Val | %REC          | LowLimit  | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Mercury    | 0.0045   | 0.00020        | 0.005                    | 0           | 90.0          | 75.2      | 134       | 0           |      |          |      |

|            |           |                |                          |             |               |           |           |             |      |          |      |
|------------|-----------|----------------|--------------------------|-------------|---------------|-----------|-----------|-------------|------|----------|------|
| Sample ID  | LCSD-4168 | Batch ID: 4168 | Test Code: SW7470        | Units: mg/L | Analysis Date | 8/22/2003 | Prep Date | 8/20/2003   |      |          |      |
| Client ID: |           |                | Run ID: MI-LA254_030822B |             | SeqNo:        | 210258    |           |             |      |          |      |
| Analyte    | Result    | PQL            | SPK value                | SPK Ref Val | %REC          | LowLimit  | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Mercury    | 0.004785  | 0.00020        | 0.005                    | 0           | 95.7          | 75.2      | 134       | 0.0045      | 6.14 | 0        |      |

|            |        |                |                     |             |               |                      |           |             |      |          |      |
|------------|--------|----------------|---------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS    | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 8:04:34 AM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |        |                | Run ID: ICP_030826A |             | SeqNo:        | 210688               |           |             |      |          |      |
| Analyte    | Result | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aluminum   | 0.4879 | 0.020          | 0.5                 | 0           | 97.6          | 80                   | 120       | 0           |      |          |      |
| Barium     | 0.4835 | 0.020          | 0.5                 | 0.001493    | 96.4          | 80                   | 120       | 0           |      |          |      |
| Iron       | 0.4763 | 0.020          | 0.5                 | 0           | 95.3          | 80                   | 120       | 0           |      |          |      |

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

# QC SUMMARY REPORT

## Laboratory Control Spike Duplicate

CLIENT: Blagg Engineering  
 Work Order: 0308047  
 Project: Romero GC A#1

|            |        |                |                     |             |               |                      |           |             |       |          |      |
|------------|--------|----------------|---------------------|-------------|---------------|----------------------|-----------|-------------|-------|----------|------|
| Sample ID  | LCSD   | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 8:06:29 AM | Prep Date | 8/12/2003   |       |          |      |
| Client ID: |        |                | Run ID: ICP_030826A |             | SeqNo:        | 210689               |           |             |       |          |      |
| Analyte    | Result | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Aluminum   | 0.4858 | 0.020          | 0.5                 | 0           | 97.2          | 80                   | 120       | 0.4879      | 0.435 | 20       |      |
| Barium     | 0.4924 | 0.020          | 0.5                 | 0.001493    | 98.2          | 80                   | 120       | 0.4835      | 1.81  | 20       |      |
| Iron       | 0.5013 | 0.020          | 0.5                 | 0           | 100           | 80                   | 120       | 0.4763      | 5.11  | 20       |      |

|            |          |                |                     |             |               |                       |           |             |      |          |      |
|------------|----------|----------------|---------------------|-------------|---------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-4114 | Batch ID: 4114 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 8/26/2003 12:02:59 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |          |                | Run ID: ICP_030826C |             | SeqNo:        | 210828                |           |             |      |          |      |
| Analyte    | Result   | PQL            | SPK value           | SPK Ref Val | %REC          | LowLimit              | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic    | 0.4853   | 0.020          | 0.5                 | 0.006166    | 95.8          | 80                    | 120       | 0           |      |          |      |
| Cadmium    | 0.4879   | 0.0020         | 0.5                 | 0           | 97.6          | 80                    | 120       | 0           |      |          |      |
| Chromium   | 0.5282   | 0.0060         | 0.5                 | 0.002812    | 105           | 80                    | 120       | 0           |      |          |      |
| Cobalt     | 0.4903   | 0.0060         | 0.5                 | 0           | 98.1          | 80                    | 120       | 0           |      |          |      |
| Copper     | 0.5261   | 0.0060         | 0.5                 | 0           | 105           | 80                    | 120       | 0           |      |          |      |
| Lead       | 0.4931   | 0.0050         | 0.5                 | 0.003861    | 97.8          | 80                    | 120       | 0           |      |          |      |
| Molybdenum | 0.4969   | 0.0080         | 0.5                 | 0           | 99.4          | 80                    | 120       | 0           |      |          |      |
| Nickel     | 0.4717   | 0.010          | 0.5                 | 0           | 94.3          | 80                    | 120       | 0           |      |          |      |
| Selenium   | 0.4799   | 0.020          | 0.5                 | 0           | 96.0          | 80                    | 120       | 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:** 0308047  
**Project:** Romero GC A#1

**QC SUMMARY REPORT**  
 Laboratory Control Spike Duplicate

|            |           |                |                    |             |               |                       |           |             |        |          |      |
|------------|-----------|----------------|--------------------|-------------|---------------|-----------------------|-----------|-------------|--------|----------|------|
| Sample ID  | LCSD-4114 | Batch ID: 4114 | Test Code: SW6010A | Units: mg/L | Analysis Date | 8/26/2003 12:08:50 PM | Prep Date | 8/12/2003   |        |          |      |
| Client ID: |           | Run ID:        | ICP_030826C        |             | SeqNo:        | 210829                |           |             |        |          |      |
| Analyte    | Result    | PQL            | SPK value          | SPK Ref Val | %REC          | LowLimit              | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Arsenic    | 0.502     | 0.020          | 0.5                | 0.006166    | 99.2          | 80                    | 120       | 0.4853      | 3.40   | 20       |      |
| Cadmium    | 0.4974    | 0.0020         | 0.5                | 0           | 99.5          | 80                    | 120       | 0.4879      | 1.93   | 20       |      |
| Chromium   | 0.5367    | 0.0060         | 0.5                | 0.002812    | 107           | 80                    | 120       | 0.5282      | 1.58   | 20       |      |
| Cobalt     | 0.4951    | 0.0060         | 0.5                | 0           | 99.0          | 80                    | 120       | 0.4903      | 0.978  | 20       |      |
| Copper     | 0.5358    | 0.0060         | 0.5                | 0           | 107           | 80                    | 120       | 0.5261      | 1.84   | 20       |      |
| Lead       | 0.4997    | 0.0050         | 0.5                | 0.003861    | 99.2          | 80                    | 120       | 0.4931      | 1.34   | 20       |      |
| Molybdenum | 0.4966    | 0.0080         | 0.5                | 0           | 99.3          | 80                    | 120       | 0.4969      | 0.0665 | 20       |      |
| Nickel     | 0.4745    | 0.010          | 0.5                | 0           | 94.9          | 80                    | 120       | 0.4717      | 0.592  | 20       |      |
| Selenium   | 0.4827    | 0.020          | 0.5                | 0           | 96.5          | 80                    | 120       | 0.4799      | 0.585  | 20       |      |

|            |          |                     |                    |             |               |                      |           |             |      |          |      |
|------------|----------|---------------------|--------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-4114 | Batch ID: 4114      | Test Code: SW6010A | Units: mg/L | Analysis Date | 8/26/2003 2:26:02 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |          | Run ID: ICP_030826D |                    |             | SeqNo: 210848 |                      |           |             |      |          |      |
| Analyte    | Result   | PQL                 | SPK value          | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Boron      | 0.4958   | 0.040               | 0.5                | 0           | 99.2          | 80                   | 120       | 0           |      |          |      |
| Zinc       | 0.5186   | 0.0050              | 0.5                | 0.001247    | 103           | 80                   | 120       | 0           |      |          |      |

|            |           |                |                    |             |               |                      |           |             |      |          |      |
|------------|-----------|----------------|--------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID  | LCSD-4114 | Batch ID: 4114 | Test Code: SW6010A | Units: mg/L | Analysis Date | 8/26/2003 2:27:38 PM | Prep Date | 8/12/2003   |      |          |      |
| Client ID: |           | Run ID:        | ICP_030826D        |             | SeqNo:        | 210849               |           |             |      |          |      |
| Analyte    | Result    | PQL            | SPK value          | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Boron      | 0.5089    | 0.040          | 0.5                | 0           | 102           | 80                   | 120       | 0.4958      | 2.61 | 20       |      |
| Zinc       | 0.5253    | 0.0050         | 0.5                | 0.001247    | 105           | 80                   | 120       | 0.5186      | 1.28 | 20       |      |

**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

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

Work Order Number **0308047**

Received by **AMG**

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?

**8°**

**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 & 11147****ROMERO GC A # 1**LABORATORY (S) USED : **HALL ENVIRON. & ENVIROTECH****UNIT K, SEC. 17, T29N, R10W**Date : **November 25, 2003**SAMPLER : **N J V**Filename : **11-25-03.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      | 98.28           | 92.01            | 6.27                | 10.00            | 0840          | 7.14 | 2,200           | 9.1             | 0.50                 |
| 1X     | 98.51           |                  | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           |                  | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 91.44            | 6.64                | 10.00            | 0855          | 7.18 | 2,000           | 11.0            | 1.75                 |

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE &amp; TIME =

08/06/03 0745

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 # 3X , very poor in MW # 1 . Collected BTEX sample from

MW # 3X only . Collected major anion / cation &amp; three ( 3 ) NMWQCC metals from MW # 1 only .

Top of casings above grade : MW # 1 - 2.20 ft . , # 1X - 1.20 ft . , # 2X - 1.30 ft . , # 3X - 1.00 ft .

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | 6.27 |                                  |
| 1X   | -    |                                  |
| 2X   | -    |                                  |
| 3X   | 6.64 |                                  |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | 6.92 |                                    |
| 1X   | -    |                                    |
| 2X   | -    |                                    |
| 3X   | 6.64 |                                    |

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

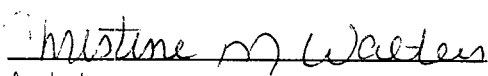
## CATION / ANION ANALYSIS

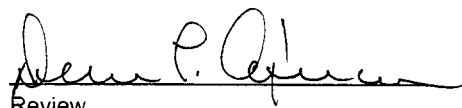
|                    |                    |                 |           |
|--------------------|--------------------|-----------------|-----------|
| Client:            | Blagg / XTO Energy | Project #:      | 94034-010 |
| Sample ID:         | MW #1              | Date Reported:  | 11-26-03  |
| Laboratory Number: | 27296              | Date Sampled:   | 11-25-03  |
| Chain of Custody:  | 11147              | Date Received:  | 11-25-03  |
| Sample Matrix:     | Water              | Date Extracted: | N/A       |
| Preservative:      | Cool               | Date Analyzed:  | 11-26-03  |
| Condition:         | Cool & Intact      |                 |           |

| Parameter                     | Analytical Result | Units    | Units       |
|-------------------------------|-------------------|----------|-------------|
| pH                            | 6.70              | s.u.     |             |
| Conductivity @ 25° C          | 4,590             | umhos/cm |             |
| Total Dissolved Solids @ 180C | 2,250             | mg/L     |             |
| Total Dissolved Solids (Calc) | 2,280             | mg/L     |             |
| SAR                           | 9.9               | ratio    |             |
| Total Alkalinity as CaCO3     | 322               | mg/L     |             |
| Total Hardness as CaCO3       | 532               | mg/L     |             |
| Bicarbonate as HCO3           | 322               | mg/L     | 5.28 meq/L  |
| Carbonate as CO3              | <0.1              | mg/L     | 0.00 meq/L  |
| Hydroxide as OH               | <0.1              | mg/L     | 0.00 meq/L  |
| Nitrate Nitrogen              | <0.1              | mg/L     | 0.00 meq/L  |
| Nitrite Nitrogen              | 0.005             | mg/L     | 0.00 meq/L  |
| Chloride                      | 23.6              | mg/L     | 0.67 meq/L  |
| Fluoride                      | 1.44              | mg/L     | 0.08 meq/L  |
| Phosphate                     | 0.1               | mg/L     | 0.00 meq/L  |
| Sulfate                       | 1,320             | mg/L     | 27.48 meq/L |
| Iron                          | 0.024             | mg/L     | 0.00 meq/L  |
| Calcium                       | 213               | mg/L     | 10.63 meq/L |
| Magnesium                     | <0.01             | mg/L     | 0.00 meq/L  |
| Potassium                     | 2.30              | mg/L     | 0.06 meq/L  |
| Sodium                        | 525               | mg/L     | 22.84 meq/L |
| Cations                       |                   |          | 33.53 meq/L |
| Anions                        |                   |          | 33.50 meq/L |
| Cation/Anion Difference       |                   |          | 0.06%       |

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Water And Waste Water", 18th ed., 1992.

Comments: Romero GC A #1.

  
Analyst

  
Review

# Hall Environmental Analysis Laboratory

Date: 04-Dec-03

CLIENT: Blagg Engineering  
Lab Order: 0311197  
Project: Romero GC A#1  
Lab ID: 0311197-01

Client Sample ID: MW #1  
Collection Date: 11/25/2003 8:40:00 AM

Matrix: AQUEOUS

| Analyses                            | Result | Limit   | Qual | Units | DF | Date Analyzed        |
|-------------------------------------|--------|---------|------|-------|----|----------------------|
| EPA METHOD 7470: MERCURY            |        |         |      |       |    | Analyst: MAP         |
| Mercury                             | ND     | 0.00020 |      | mg/L  | 1  | 12/4/2003            |
| EPA 6010C: TOTAL RECOVERABLE METALS |        |         |      |       |    | Analyst: NMO         |
| Iron                                | 4.7    | 0.020   |      | mg/L  | 1  | 12/3/2003 3:00:08 PM |
| Manganese                           | 3.6    | 0.0020  |      | mg/L  | 1  | 12/3/2003 3:00:08 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

**Hall Environmental Analysis Laboratory**

Date: 04-Dec-03

**CLIENT:** Blagg Engineering  
**Lab Order:** 0311197  
**Project:** Romero GC A#1  
**Lab ID:** 0311197-02

**Client Sample ID:** MW #3X  
**Collection Date:** 11/25/2003 8:55:00 AM

**Matrix:** AQUEOUS

| Analyses                           | Result | Limit  | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    | Analyst: NSB         |
| Methyl tert-butyl ether (MTBE)     | ND     | 2.5    |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| Benzene                            | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| Toluene                            | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| Ethylbenzene                       | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| 1,2,4-Trimethylbenzene             | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| 1,3,5-Trimethylbenzene             | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| Xylenes, Total                     | ND     | 0.50   |      | µg/L  | 1  | 12/1/2003 4:43:16 AM |
| Surr: 4-Bromofluorobenzene         | 103    | 74-118 |      | %REC  | 1  | 12/1/2003 4:43:16 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

**SECRET**

# ENVIROTECH INC.

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

Accreditation Applied:                              

Client: BLAKE ENR. XTO ENERGY

Address: P.O. Box 87

Bloomfield, NM 87413

Phone #: (505) 632-1199

Fax #: (505) 632-3903

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

11/25/03 0240

|       |       |
|-------|-------|
| WATER | MW #1 |
|-------|-------|

|          |      |
|----------|------|
| 11/25/03 | 0855 |
|----------|------|

|       |        |
|-------|--------|
| WATER | MW #3X |
|-------|--------|

|       |       |
|-------|-------|
| Date: | Time: |
|-------|-------|

Relinquished By: (Signature)

Date: Time:

Relinquished By: (Signature)

Received By: Signature, 11/25/03

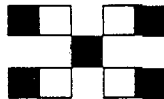
11/25/03

Received By: {Signature}

Received By: (Signature)

**HALL ENVIRONMEN-  
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)



# ANALYSIS REQUEST

[illegible]

Remarks:

## Hall Environmental Analysis Laboratory

Date: 04-Dec-03

CLIENT: Blagg Engineering  
 Work Order: 0311197  
 Project: Romero GC A#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 |
| Methyl tert-butyl ether (MTBE) | ND               | 2.5              |                        |             |                                     |           |           |             |      |          |      |
| Benzene                        | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| Toluene                        | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| Ethylbenzene                   | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| 1,2,4-Trimethylbenzene         | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| 1,3,5-Trimethylbenzene         | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| Xylenes, Total                 | ND               | 0.50             |                        |             |                                     |           |           |             |      |          |      |
| Surr: 4-Bromofluorobenzene     | 19.59            | 0                | 20                     | 0           | 97.9                                | 74        | 118       | 0           |      |          |      |

|            |         |                |                          |             |                         |                     |           |             |      |          |      |
|------------|---------|----------------|--------------------------|-------------|-------------------------|---------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4760 | Batch ID: 4760 | Test Code: SW7470        | Units: mg/L | Analysis Date 12/2/2003 | Prep Date 12/2/2003 |           |             |      |          |      |
| Client ID: |         |                | Run ID: MI-LA254_031202A |             | SeqNo: 229697           |                     |           |             |      |          |      |
| Analyte    | Result  | PQL            | SPK value                | SPK Ref Val | %REC                    | LowLimit            | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Mercury    | ND      |                | 0.00020                  |             |                         |                     |           |             |      |          |      |

|            |         |                |                          |             |                         |                     |           |             |      |          |      |
|------------|---------|----------------|--------------------------|-------------|-------------------------|---------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4772 | Batch ID: 4772 | Test Code: SW7470        | Units: mg/L | Analysis Date 12/4/2003 | Prep Date 12/3/2003 |           |             |      |          |      |
| Client ID: |         |                | Run ID: MI-LA254_031204A |             | SeqNo: 230381           |                     |           |             |      |          |      |
| Analyte    | Result  | PQL            | SPK value                | SPK Ref Val | %REC                    | LowLimit            | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Mercury    | ND      |                | 0.00020                  |             |                         |                     |           |             |      |          |      |

|            |           |                |                     |             |                                    |                     |           |             |      |          |      |
|------------|-----------|----------------|---------------------|-------------|------------------------------------|---------------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-4759   | Batch ID: 4759 | Test Code: SW6010A  | Units: mg/L | Analysis Date 12/3/2003 1:54:01 PM | Prep Date 12/2/2003 |           |             |      |          |      |
| Client ID: |           |                | Run ID: ICP_031203A |             | SeqNo: 230103                      |                     |           |             |      |          |      |
| Analyte    | Result    | PQL            | SPK value           | SPK Ref Val | %REC                               | LowLimit            | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron       | 0.009516  | 0.020          |                     |             |                                    |                     |           |             |      |          | J    |
| Manganese  | 0.0005816 | 0.0020         |                     |             |                                    |                     |           |             |      |          | 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

1

# QC SUMMARY REPORT

Method Blank

CLIENT: Blagg Engineering  
 Work Order: 0311197  
 Project: Romero GC A#1

|            |         |           |             |            |           |             |      |               |                      |             |           |
|------------|---------|-----------|-------------|------------|-----------|-------------|------|---------------|----------------------|-------------|-----------|
| Sample ID  | MB-4759 | Batch ID: | 4759        | Test Code: | SW6010A   | Units:      | mg/L | Analysis Date | 12/3/2003 1:54:01 PM | Prep Date   | 12/2/2003 |
| Client ID: |         | Run ID:   | ICP_031203B |            |           |             |      | SeqNo:        | 230245               |             |           |
| Analyte    |         | Result    |             | PQL        | SPK value | SPK Ref Val | %REC | LowLimit      | HighLimit            | RPD Ref Val | %RPD      |
| Iron       |         | 0.009516  | 0.020       |            |           |             |      |               |                      |             |           |
| Manganese  |         | 0.0005816 | 0.0020      |            |           |             |      |               |                      |             |           |
|            |         |           |             |            |           |             |      |               |                      |             | Qual      |
|            |         |           |             |            |           |             |      |               |                      |             | J         |
|            |         |           |             |            |           |             |      |               |                      |             | J         |

|             |                                                |                                                     |                                                     |
|-------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 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            | 2                                                   |

## Hall Environmental Analysis Laboratory

Date: 04-Dec-03

CLIENT: Blagg Engineering

Work Order: 0311197

Project: Romero GC A#1

## QC SUMMARY REPORT

Sample Matrix Spike

|            |             |                |                   |             |               |           |           |             |
|------------|-------------|----------------|-------------------|-------------|---------------|-----------|-----------|-------------|
| Sample ID  | 0311197-01A | Batch ID: 4772 | Test Code: SW7470 | Units: mg/L | Analysis Date | 12/4/2003 | Prep Date | 12/3/2003   |
| Client ID: | MW #1       | Run ID:        | MI-LA254_031204A  | SeqNo:      | 230386        |           |           |             |
| Analyte    |             | Result         | PQL               | SPK value   | %REC          | LowLimit  | HighLimit | RPD Ref Val |
| Mercury    |             | 0.005029       | 0.00020           | 0.005       | 98.6          | 75.2      | 134       | 0           |

|            |             |                |                   |             |               |           |           |             |
|------------|-------------|----------------|-------------------|-------------|---------------|-----------|-----------|-------------|
| Sample ID  | 0311197-01A | Batch ID: 4772 | Test Code: SW7470 | Units: mg/L | Analysis Date | 12/4/2003 | Prep Date | 12/3/2003   |
| Client ID: | MW #1       | Run ID:        | MI-LA254_031204A  | SeqNo:      | 230387        |           |           |             |
| Analyte    |             | Result         | PQL               | SPK value   | %REC          | LowLimit  | HighLimit | RPD Ref Val |
| Mercury    |             | 0.005365       | 0.00020           | 0.005       | 105           | 75.2      | 134       | 0.005029    |

%RPD 6.47

0

## Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limitsS - 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: 04-Dec-03

CLIENT: Blagg Engineering

Work Order: 03111197

Project: Romero GC A#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   | PQL               | SPK value   | SPK Ref Val   | %REC                  | LowLimit  | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Analyte                        | Result         |                  |                   |             |               |                       |           |           |             |      |          |      |
| Methyl tert-butyl ether (MTBE) | 39.24          | 2.5              | 40                | 0           | 0             | 98.1                  | 54.9      | 142       | 0           |      |          |      |
| Benzene                        | 22.23          | 0.50             | 20                | 0           | 0             | 111                   | 81.3      | 121       | 0           |      |          |      |
| Toluene                        | 21.34          | 0.50             | 20                | 0           | 0             | 107                   | 84.9      | 118       | 0           |      |          |      |
| Ethylbenzene                   | 20.48          | 0.50             | 20                | 0           | 0             | 102                   | 53.8      | 149       | 0           |      |          |      |
| 1,2,4-Trimethylbenzene         | 20.56          | 0.50             | 20                | 0           | 0             | 103                   | 79.7      | 123       | 0           |      |          |      |
| 1,3,5-Trimethylbenzene         | 20.34          | 0.50             | 20                | 0           | 0             | 102                   | 82.4      | 123       | 0           |      |          |      |
| Xylenes, Total                 | 62.37          | 0.50             | 60                | 0           | 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 |
| Methyl tert-butyl ether (MTBE)<br>Benzene<br>Toluene<br>Ethylbenzene<br>1,2,4-Trimethylbenzene<br>1,3,5-Trimethylbenzene<br>Xylenes, Total | 39.15    | 2.5   | 40               | 0                 | 97.9           | 54.9          | 142                  | 39.24       | 0.251 | 28       |      |
|                                                                                                                                            | 21.38    | 0.50  | 20               | 0                 | 107            | 81.3          | 121                  | 22.23       | 3.91  | 27       |      |
|                                                                                                                                            | 19.81    | 0.50  | 20               | 0                 | 99.0           | 84.9          | 118                  | 21.34       | 7.44  | 19       |      |
|                                                                                                                                            | 19.28    | 0.50  | 20               | 0                 | 96.4           | 53.8          | 149                  | 20.48       | 6.05  | 10       |      |
|                                                                                                                                            | 19.06    | 0.50  | 20               | 0                 | 95.3           | 79.7          | 123                  | 20.56       | 7.56  | 21       |      |
|                                                                                                                                            | 19.28    | 0.50  | 20               | 0                 | 96.4           | 82.4          | 123                  | 20.34       | 5.35  | 10       |      |
|                                                                                                                                            | 59.67    | 0.50  | 60               | 0                 | 99.5           | 83.1          | 122                  | 62.37       | 4.42  | 13       |      |

|            |          |           |           |                  |        |          |           |               |           |           |           |
|------------|----------|-----------|-----------|------------------|--------|----------|-----------|---------------|-----------|-----------|-----------|
| Sample ID  | LCS-4760 | Batch ID: | 4760      | Test Code:       | SW7470 | Units:   | mg/L      | Analysis Date | 12/2/2003 | Prep Date | 12/2/2003 |
| Client ID: |          | Run ID:   |           | MI-LA254_031202A |        |          |           | SeqNo:        | 229698    |           |           |
| Analyte    | Result   | PQL       | SPK value | SPK Ref Val      | %REC   | LowLimit | HighLimit | RPD Ref Val   | %RPD      | RPDLimit  | Qual      |
| Mercury    | 0.004754 | 0.00020   | 0.005     | 0                | 95.1   | 75.2     | 134       | 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

I

CLIENT: Blagg Engineering

Work Order: 0311197

Project: Romero GC A#1

## QC SUMMARY REPORT

Laboratory Control Spike Duplicate

|            |           |                          |                   |               |                         |                     |
|------------|-----------|--------------------------|-------------------|---------------|-------------------------|---------------------|
| Sample ID  | LCSD-4760 | Batch ID: 4760           | Test Code: SW7470 | Units: mg/L   | Analysis Date 12/2/2003 | Prep Date 12/2/2003 |
| Client ID: |           | Run ID: MI-LA254_031202A |                   | SeqNo: 229699 |                         |                     |
| Analyte    | Result    | PQL                      | SPK value         | SPK Ref Val   | %REC LowLimit HighLimit | %RPD RPDLimit Qual  |
| Mercury    | 0.005068  | 0.00020                  | 0.005             | 0             | 101 75.2 134            | 0.004754 6.39 0     |

|            |          |                          |                   |               |                         |                     |
|------------|----------|--------------------------|-------------------|---------------|-------------------------|---------------------|
| Sample ID  | LCS-4772 | Batch ID: 4772           | Test Code: SW7470 | Units: mg/L   | Analysis Date 12/4/2003 | Prep Date 12/3/2003 |
| Client ID: |          | Run ID: MI-LA254_031204A |                   | SeqNo: 230382 |                         |                     |
| Analyte    | Result   | PQL                      | SPK value         | SPK Ref Val   | %REC LowLimit HighLimit | %RPD RPDLimit Qual  |
| Mercury    | 0.004491 | 0.00020                  | 0.005             | 0             | 89.8 75.2 134           | 0 0                 |

|            |           |                          |                   |               |                         |                     |
|------------|-----------|--------------------------|-------------------|---------------|-------------------------|---------------------|
| Sample ID  | LCSD-4772 | Batch ID: 4772           | Test Code: SW7470 | Units: mg/L   | Analysis Date 12/4/2003 | Prep Date 12/3/2003 |
| Client ID: |           | Run ID: MI-LA254_031204A |                   | SeqNo: 230383 |                         |                     |
| Analyte    | Result    | PQL                      | SPK value         | SPK Ref Val   | %REC LowLimit HighLimit | %RPD RPDLimit Qual  |
| Mercury    | 0.005345  | 0.00020                  | 0.005             | 0             | 107 75.2 134            | 0.004491 17.4 0     |

|            |          |                     |                    |               |                                    |                     |
|------------|----------|---------------------|--------------------|---------------|------------------------------------|---------------------|
| Sample ID  | LCS-4759 | Batch ID: 4759      | Test Code: SW6010A | Units: mg/L   | Analysis Date 12/3/2003 1:57:54 PM | Prep Date 12/2/2003 |
| Client ID: |          | Run ID: ICP_031203A |                    | SeqNo: 230104 |                                    |                     |
| Analyte    | Result   | PQL                 | SPK value          | SPK Ref Val   | %REC LowLimit HighLimit            | %RPD RPDLimit Qual  |
| Iron       | 0.4667   | 0.020               | 0.5                | 0.009516      | 91.4 80 120                        | 0                   |
| Manganese  | 0.4936   | 0.0020              | 0.5                | 0.0005816     | 98.6 80 120                        | 0                   |

|            |           |                     |                    |               |                                    |                     |
|------------|-----------|---------------------|--------------------|---------------|------------------------------------|---------------------|
| Sample ID  | LCSD-4759 | Batch ID: 4759      | Test Code: SW6010A | Units: mg/L   | Analysis Date 12/3/2003 2:01:46 PM | Prep Date 12/2/2003 |
| Client ID: |           | Run ID: ICP_031203A |                    | SeqNo: 230105 |                                    |                     |
| Analyte    | Result    | PQL                 | SPK value          | SPK Ref Val   | %REC LowLimit HighLimit            | %RPD RPDLimit Qual  |
| Iron       | 0.4624    | 0.020               | 0.5                | 0.009516      | 90.6 80 120                        | 0.4667 20           |
| Manganese  | 0.4977    | 0.0020              | 0.5                | 0.0005816     | 99.4 80 120                        | 0.4936 20           |

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: 0311197  
Project: Romero GC A#1

## QC SUMMARY REPORT

Laboratory Control Spike - generic

|            |          |                |                     |             |               |                      |           |           |             |      |          |      |
|------------|----------|----------------|---------------------|-------------|---------------|----------------------|-----------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-4759 | Batch ID: 4759 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 12/3/2003 1:57:54 PM | Prep Date | 12/2/2003 |             |      |          |      |
| Client ID: |          |                | Run ID: ICP_031203B |             | SeqNo:        | 230246               |           |           |             |      |          |      |
| Analyte    |          | Result         | PQL                 | SPK value   | SPK Ref Val   | %REC                 | LowLimit  | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron       |          | 0.4667         | 0.020               | 0.5         | 0.009516      | 91.4                 | 80        | 120       | 0           |      |          |      |
| Manganese  |          | 0.4936         | 0.0020              | 0.5         | 0.0005816     | 98.6                 | 80        | 120       | 0           |      |          |      |

|            |           |                |                     |             |               |                      |           |           |             |       |          |      |
|------------|-----------|----------------|---------------------|-------------|---------------|----------------------|-----------|-----------|-------------|-------|----------|------|
| Sample ID  | LCSD-4759 | Batch ID: 4759 | Test Code: SW6010A  | Units: mg/L | Analysis Date | 12/3/2003 2:01:46 PM | Prep Date | 12/2/2003 |             |       |          |      |
| Client ID: |           |                | Run ID: ICP_031203B |             | SeqNo:        | 230247               |           |           |             |       |          |      |
| Analyte    |           | Result         | PQL                 | SPK value   | SPK Ref Val   | %REC                 | LowLimit  | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Iron       |           | 0.4624         | 0.020               | 0.5         | 0.009516      | 90.6                 | 80        | 120       | 0.4667      | 0.918 | 20       |      |
| Manganese  |           | 0.4977         | 0.0020              | 0.5         | 0.0005816     | 99.4                 | 80        | 120       | 0.4936      | 0.816 | 20       |      |

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  
3

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

11/25/2003

Work Order Number 0311197

Received by **AT**

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

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

Container/Temp Blank temperature?

3°

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

**ROMERO GC A #1**

**LABORATORY (S) USED :** HALL ENVIRONMENTAL

**UNIT K, SEC. 17, 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      | 98.28           | 91.72            | 6.56                | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 91.63            | 6.88                | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | 91.55            | 6.22                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 91.40            | 6.68                | 10.00            | 1533          | 6.98 | 1,900           | 18.4            | 1.75                 |

**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 #3X. Collected BTEX sample from MW #3X only.

Top of casings above grade: MW #1 - 2.20 ft., #1X - 1.20 ft., #2X - 1.30 ft., #3X - 1.00 ft.

| MW # | DTW  | ( prior to purging -<br>in ft. ) |
|------|------|----------------------------------|
| 1    | -    |                                  |
| 1X   | -    |                                  |
| 2X   | -    |                                  |
| 3X   | 6.68 |                                  |

| MW # | DTW  | ( @ time of sampling -<br>in ft. ) |
|------|------|------------------------------------|
| 1    | -    |                                    |
| 1X   | -    |                                    |
| 2X   | -    |                                    |
| 3X   | 6.68 |                                    |

# Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering

Client Sample ID: MW #3X

Lab Order: 0403260

Collection Date: 3/30/2004 3:33:00 PM

Project: Romero GC A#1

Lab ID: 0403260-01

Matrix: AQUEOUS

| Analyses                    | Result | PQL    | Qual | Units | DF | Date Analyzed       |
|-----------------------------|--------|--------|------|-------|----|---------------------|
| EPA METHOD 8021B: VOLATILES |        |        |      |       |    | Analyst: NSB        |
| Benzene                     | ND     | 0.50   |      | µg/L  | 1  | 4/1/2004 1:20:24 PM |
| Toluene                     | ND     | 0.50   |      | µg/L  | 1  | 4/1/2004 1:20:24 PM |
| Ethylbenzene                | ND     | 0.50   |      | µg/L  | 1  | 4/1/2004 1:20:24 PM |
| Xylenes, Total              | ND     | 0.50   |      | µg/L  | 1  | 4/1/2004 1:20:24 PM |
| Surr: 4-Bromofluorobenzene  | 100    | 74-118 |      | %REC  | 1  | 4/1/2004 1:20:24 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: BAGGE ENV. / XTO ENERGY

Address: PO BOX 87

Beaumont, NM 87413

Phone #: 505-632-1199

Fax #: 505-632-3903

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl<sub>2</sub>

HNO<sub>3</sub>

HEAL No.

3/30/04

1533

WATER

MW #3X

2-40 ml

✓

04032601

✓

Date: 3/31/04

Time: 6:00

Relinquished By: (Signature) Hallmark

Relinquished By: (Signature)

Received By: (Signature) James New

Received By: (Signature)

Accreditation Agency: ☒ NELAC ☐ USA ☐

Other: Project Name: Romero GC A #1

Project #: 20

Project Manager: NTJ

Sampler: NTJ

Sample Temperature: 5°C

## ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)

BTEX + MTBE + TMBs (80218)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

## Hall Environmental Analysis Laboratory

Date: 05-Apr-04

CLIENT: Blagg Engineering  
Work Order: 0403260  
Project: Romero GC A#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           |      |          |      |

|             |                                                |                                                     |                                                     |
|-------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 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            | /                                                   |

## Hall Environmental Analysis Laboratory

Date: 05-Apr-04

**CLIENT:** Blagg Engineering  
**Work Order:** 0403260  
**Project:** Romero GC A#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 |             | SeqNo:        | 263246              |           |             |      |          |      |
| Analyte        | Result         | PQL              | SPK value              | SPK Ref Val | %REC          | LowLimit            | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene        | 20.13          | 0.50             | 20                     | 0           | 101           | 81.3                | 121       | 0           |      |          |      |
| Toluene        | 19.5           | 0.50             | 20                     | 0           | 97.5          | 84.9                | 118       | 0           |      |          |      |
| Ethylbenzene   | 19.15          | 0.50             | 20                     | 0           | 95.7          | 53.8                | 149       | 0           |      |          |      |
| Xylenes, Total | 57.7           | 0.50             | 60                     | 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

7

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

3/31/2004

Work Order Number 0403260

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

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

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 \_\_\_\_\_

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : XTO ENERGY INC.

CHAIN-OF-CUSTODY # : N / A

ROMERO GC A #1

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT K, SEC. 17, T29N, R10W

Date : June 16, 2004

SAMPLER : N J V

Filename : 06-16-04.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      | 98.28           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | 90.17            | 8.34                | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | 90.04            | 7.73                | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.80            | 8.28                | 10.00            | 1040          | 6.94 | 1,800           | 21.6            | 0.75                 |

INSTRUMENT CALIBRATIONS =

7.00      2,800

DATE & TIME =

06/16/04      0750

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 #3X. Collected BTEX sample from MW #3X only.

Top of casings above grade : MW #1 - 2.20 ft. , #1X - 1.20 ft. , #2X - 1.30 ft. , #3X - 1.00 ft.

| MW # | DTW  |
|------|------|
| 1    | -    |
| 1X   | -    |
| 2X   | -    |
| 3X   | 6.68 |

( prior to purging -  
in ft. )

| MW # | DTW  |
|------|------|
| 1    | -    |
| 1X   | -    |
| 2X   | -    |
| 3X   | 6.68 |

( @ time of sampling -  
in ft. )

# Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering

Client Sample ID: MW #3X

Lab Order: 0406176

Collection Date: 6/16/2004 10:40:00 AM

Project: Romero GC A#1

Lab ID: 0406176-01

Matrix: AQUEOUS

| Analyses                    | Result | PQL    | Qual | Units | DF | Date Analyzed        |
|-----------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES |        |        |      |       |    | Analyst: NSB         |
| Benzene                     | 2.7    | 0.50   |      | µg/L  | 1  | 6/25/2004 1:26:27 PM |
| Toluene                     | ND     | 0.50   |      | µg/L  | 1  | 6/25/2004 1:26:27 PM |
| Ethylbenzene                | ND     | 0.50   |      | µg/L  | 1  | 6/25/2004 1:26:27 PM |
| Xylenes, Total              | ND     | 0.50   |      | µg/L  | 1  | 6/25/2004 1:26:27 PM |
| Surr: 4-Bromofluorobenzene  | 106    | 74-118 |      | %REC  | 1  | 6/25/2004 1:26:27 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 1 / 5

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range



## Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering  
Work Order: 0406176  
Project: Romero GC A#1

**QC SUMMARY REPORT**  
Method Blank

|                            |                  |                  |                        |             |                                    |           |          |           |             |      |          |      |
|----------------------------|------------------|------------------|------------------------|-------------|------------------------------------|-----------|----------|-----------|-------------|------|----------|------|
| Sample ID                  | Reagent Blank 5m | Batch ID: R12276 | Test Code: SW6021      | Units: µg/L | Analysis Date 6/25/2004 8:13:54 AM | Prep Date |          |           |             |      |          |      |
| Client ID:                 |                  |                  | Run ID: PIDFID_040625A |             | SeqNo: 282684                      |           |          |           |             |      |          |      |
| Analyte                    |                  | Result           | PQL                    | SPK value   | SPK Ref Val                        | %REC      | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    |                  | ND               | 0.5                    |             |                                    |           |          |           |             |      |          |      |
| Toluene                    |                  | ND               | 0.5                    |             |                                    |           |          |           |             |      |          |      |
| Ethylbenzene               |                  | ND               | 0.5                    |             |                                    |           |          |           |             |      |          |      |
| Xylenes, Total             |                  | ND               | 0.5                    |             |                                    |           |          |           |             |      |          |      |
| Surr: 4-Bromofluorobenzene |                  | 20.13            | 0                      | 20          | 0                                  | 101       | 74       | 118       | 0           |      |          |      |

2 / 5

|             |                                                |                                                     |                                                     |
|-------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 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            | I                                                   |

## Hall Environmental Analysis Laboratory

Date: 29-Jun-04

CLIENT: Blagg Engineering

Work Order: 0406176

Project: Romero GC A#1

## QC SUMMARY REPORT

Sample Matrix Spike

|                            |                |                  |                        |             |               |                      |           |             |      |          |      |
|----------------------------|----------------|------------------|------------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID                  | 0406176-01a.ms | Batch ID: R12276 | Test Code: SW8021      | Units: µg/L | Analysis Date | 6/25/2004 1:58:02 PM | Prep Date |             |      |          |      |
| Client ID:                 | MW #3X         |                  | Run ID: PIDFID_040625A |             | SeqNo: 282698 |                      |           |             |      |          |      |
| Analyte                    | Result         | PQL              | SPK value              | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 21.58          | 0.5              | 20                     | 2.705       | 94.4          | 77                   | 122       | 0           |      |          |      |
| Toluene                    | 19.53          | 0.5              | 20                     | 0.3306      | 96.0          | 81                   | 115       | 0           |      |          |      |
| Ethylbenzene               | 19.3           | 0.5              | 20                     | 0.279       | 95.1          | 84                   | 117       | 0           |      |          |      |
| Xylenes, Total             | 59.25          | 0.5              | 60                     | 0           | 98.8          | 84                   | 116       | 0           |      |          |      |
| Surr: 4-Bromofluorobenzene | 23.82          | 0                | 24                     | 0           | 99.2          | 74                   | 118       | 0           |      |          |      |

|                            |                |                  |                   |             |               |                      |           |             |       |          |      |
|----------------------------|----------------|------------------|-------------------|-------------|---------------|----------------------|-----------|-------------|-------|----------|------|
| Sample ID                  | 0406176-01a.ms | Batch ID: R12276 | Test Code: SW8021 | Units: µg/L | Analysis Date | 6/25/2004 2:29:54 PM | Prep Date |             |       |          |      |
| Client ID:                 | MW #3X         | Run ID:          | PIDFID_040625A    |             | SeqNo:        | 282701               |           |             |       |          |      |
| Analyte                    | Result         | PQL              | SPK value         | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Benzene                    | 21.24          | 0.5              | 20                | 2.705       | 92.7          | 77                   | 122       | 21.58       | 1.59  | 27       |      |
| Toluene                    | 19.28          | 0.5              | 20                | 0.3306      | 94.7          | 81                   | 115       | 19.53       | 1.30  | 19       |      |
| Ethylbenzene               | 19.33          | 0.5              | 20                | 0.279       | 95.2          | 84                   | 117       | 19.3        | 0.133 | 10       |      |
| Xylenes, Total             | 59.15          | 0.5              | 60                | 0           | 98.6          | 84                   | 116       | 59.25       | 0.168 | 13       |      |
| Surr: 4-Bromofluorobenzene | 23.88          | 0                | 24                | 0           | 99.5          | 74                   | 118       | 23.82       | 0.252 | 0        |      |

3 / 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

/

# Hall Environmental Analysis Laboratory

Date: 29-Jun-04

**CLIENT:** Blagg Engineering  
**Work Order:** 0406176  
**Project:** Romero GC A#1

## QC SUMMARY REPORT

Laboratory Control Spike - generic

|                |                |                  |                   |             |               |                      |           |             |      |          |      |
|----------------|----------------|------------------|-------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Sample ID      | BTEX std 100ng | Batch ID: R12276 | Test Code: SW8021 | Units: µg/L | Analysis Date | 6/25/2004 9:15:51 AM | Prep Date |             |      |          |      |
| Client ID:     |                | Run ID:          | PIDFID_040625A    |             | SeqNo:        | 282714               |           |             |      |          |      |
| Analyte        | Result         | PQL              | SPK value         | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene        | 20.97          | 0.5              | 20                | 0           | 105           | 81.3                 | 121       | 0           |      |          |      |
| Toluene        | 20.98          | 0.5              | 20                | 0           | 105           | 84.9                 | 118       | 0           |      |          |      |
| Ethylbenzene   | 21.03          | 0.5              | 20                | 0           | 105           | 53.8                 | 149       | 0           |      |          |      |
| Xylenes, Total | 64.11          | 0.5              | 60                | 0           | 107           | 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:

6/17/2004

Work Order Number 0406176

Received by AT

Checklist completed by

Signature

Date

Matrix

Carrier name Client drop-off

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

Container/Temp Blank temperature?

4°

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

ROMERO GC A # 1

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT K, SEC. 17, T29N, R10W

Date : Septmber 27, 2004

SAMPLER : N J V

Filename : 09-27-04.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      | 98.28           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 1X     | 98.51           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 2X     | 97.77           | -                | -                   | 10.00            | -             | -    | -               | -               | -                    |
| 3X     | 98.08           | 89.69            | 8.39                | 10.00            | 1500          | 7.05 | 1,300           | 23.8            | 0.75                 |

|                           |          |       |
|---------------------------|----------|-------|
| INSTRUMENT CALIBRATIONS = | 7.00     | 2,800 |
| DATE & TIME =             | 09/27/04 | 1025  |

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 #3X. Collected BTEX sample from MW #3X only.

Top of casings above grade: MW #1 - 2.20 ft., #1X - 1.20 ft., #2X - 1.30 ft., #3X - 1.00 ft.

| MW # | DTW  |
|------|------|
| 1    | -    |
| 1X   | -    |
| 2X   | -    |
| 3X   | 8.39 |

( prior to purging -  
in ft. )

| MW # | DTW  |
|------|------|
| 1    | -    |
| 1X   | -    |
| 2X   | -    |
| 3X   | 8.40 |

( @ time of sampling -  
in ft. )

# Hall Environmental Analysis Laboratory

Date: 01-Oct-04

CLIENT: Blagg Engineering  
Lab Order: 0409283  
Project: Romero GC A#1  
Lab ID: 0409283-01

Client Sample ID: MW#3X  
Collection Date: 9/27/2004 3:00:00 PM

Matrix: AQUEOUS

| Analyses                    | Result | PQL    | Qual | Units | DF | Date Analyzed        |
|-----------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES |        |        |      |       |    | Analyst: NSB         |
| Benzene                     | ND     | 0.50   |      | µg/L  | 1  | 9/30/2004 1:24:36 AM |
| Toluene                     | ND     | 0.50   |      | µg/L  | 1  | 9/30/2004 1:24:36 AM |
| Ethylbenzene                | ND     | 0.50   |      | µg/L  | 1  | 9/30/2004 1:24:36 AM |
| Xylenes, Total              | ND     | 0.50   |      | µg/L  | 1  | 9/30/2004 1:24:36 AM |
| Surr: 4-Bromofluorobenzene  | 101    | 74-118 |      | %REC  | 1  | 9/30/2004 1:24:36 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

## Hall Environmental Analysis Laboratory

Date: 01-Oct-04

CLIENT: Blagg Engineering  
Work Order: 0409283  
Project: Romero GC A#1

**QC SUMMARY REPORT**  
Method Blank

| Sample ID                  | Reagent Blank 5m | Batch ID: R13281 | Test Code: SW8021      | Units: µg/L | Analysis Date | 9/30/2004 4:52:49 AM | Prep Date |             |      |          |      |
|----------------------------|------------------|------------------|------------------------|-------------|---------------|----------------------|-----------|-------------|------|----------|------|
| Client ID:                 |                  |                  | Run ID: PIDFID_040929B |             | SeqNo:        | 308677               |           |             |      |          |      |
| Analyte                    | Result           | PQL              | SPK value              | SPK Ref Val | %REC          | LowLimit             | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | ND               | 0.5              |                        |             |               |                      |           |             |      |          |      |
| Toluene                    | ND               | 0.5              |                        |             |               |                      |           |             |      |          |      |
| Ethylbenzene               | ND               | 0.5              |                        |             |               |                      |           |             |      |          |      |
| Xylenes, Total             | ND               | 0.5              |                        |             |               |                      |           |             |      |          |      |
| Surr: 4-Bromofluorobenzene | 20.12            | 0                | 20                     | 0           | 101           | 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-Oct-04

**CLIENT:** Blagg Engineering  
**Work Order:** 0409283  
**Project:** Romero GC A#1

**QC SUMMARY REPORT**  
Laboratory Control Spike - generic

|                |                |                  |                        |             |               |                      |            |             |      |          |      |
|----------------|----------------|------------------|------------------------|-------------|---------------|----------------------|------------|-------------|------|----------|------|
| Sample ID      | BTEX std 100ng | Batch ID: R13281 | Test Code: SW8021      | Units: µg/L | Analysis Date | 9/29/2004 8:26:30 PM | Prep Date  |             |      |          |      |
| Client ID:     |                |                  | Run ID: PIDFID_040929B |             | SeqNo:        | 308687               |            |             |      |          |      |
| Analyte        | Result         | PQL              | SPK value              | SPK Ref Val | %REC          | LowLimit             | HightLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene        | 19.04          | 0.5              | 20                     | 0           | 95.2          | 81.3                 | 121        | 0           |      |          |      |
| Toluene        | 19.21          | 0.5              | 20                     | 0           | 96.0          | 84.9                 | 118        | 0           |      |          |      |
| Ethylbenzene   | 19.51          | 0.5              | 20                     | 0           | 97.6          | 53.8                 | 149        | 0           |      |          |      |
| Xylenes, Total | 58.2           | 0.5              | 60                     | 0           | 97.0          | 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

1

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

Work Order Number **0409283**

Received by **AMG**

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

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

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 \_\_\_\_\_



**BLAGG ENGINEERING, INC. (BEI)**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505) 632-1199 Fax: (505) 632-1199

July 28, 2003

Mr. William C. Olson  
Hydrologist  
State of New Mexico Oil Conservation Division (NMOCD)  
1220 St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: Potential Groundwater Impact  
XTO Energy Inc. (XTO)**

**Romero GC A # 1 Well site  
Legal Description: Unit K, Sec. 27, T29N, R10W  
San Juan County, New Mexico**

Dear Mr. Olson:

Apparent groundwater impact at the above referenced well site was observed during removal/reinstallation of a below grade steel tank pit associated with the separator unit on July 14, 2003. A verbal notification was made to your office the following day (July 15, 2003) by BEI. XTO has conducted aggressive remediation of both impacted soil and groundwater by way of excavation and pumping via water hauling truck, initiated on July 17, 2003. Depth to groundwater is estimated at seven (7) feet below grade. Monitor well installations will be conducted upon completion of the excavation, backfilling, and surface equipment reinstallation.

If you have any questions concerning this information, please do not hesitate to contact Nelson Velez or myself at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted,  
**Blagg Engineering, Inc.**

  
Jeffrey C. Blagg, P.E.  
President

cc: Denny Foust, Environmental Geologist, NMOCD, Aztec, NM  
Terry Matthews, Production Superintendent, XTO, Farmington, NM  
Darrin Steed, Environmental & Safety Manager, XTO, Farmington, NM

NJV/njv

ROMERO-GC-A1.LTR