

3R - 202

2011 AGWMR

8/16/2012



BUILDING A BETTER WORLD

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August 16, 2012

Mr. Glenn von Gonten
New Mexico Oil Conservation Division (NMOCD)
1220 South St., Francis Drive
Santa Fe, New Mexico 87505

**RE: El Paso CGP Company Pit Groundwater Remediation Sites
2011 Annual Reports**

Dear Mr. Von Gonten:

MWH Americas, Inc., on behalf of El Paso CGP Company (EPCGP), is submitting the enclosed 2011 Annual Reports for 21 of its remaining San Juan River Basin pit groundwater remediation sites (several other sites are handled as different projects with different activity and reporting schedules). The reports present the 2011 sampling and product recovery data and include recommendations for future activities at these sites.

The 2011 Annual Reports are divided into three volumes based on location type. The volumes are as follows:

| <u>Volume</u> | <u>Location Type</u> |
|---------------|--------------------------------------|
| 1 | Federal Lands |
| 2 | Fee and State Lands |
| 3 | Navajo Nation Lands (1 Site Remains) |

If you have any questions concerning the enclosed reports, please contact either Joe Wiley (representing EPCGP Company) at 713-420-3475 or me at 303-291-2276.

Sincerely,

Jed Smith
Project Manager

encl.

cc: Bill Freeman – NNEPA, Shiprock, NM (Volume 3 Only)
Bill Liese – BLM, Farmington, NM (Volume 1 Only)
Brandon Powell – NMOCD, Aztec, NM (Volumes 1, 2, and 3)
Joe Wiley – EPCGP Company (Volumes 1, 2, and 3 - Electronic)



EL PASO CGP COMPANY

*1001 LOUISIANA STREET
HOUSTON, TX 77002*

**2011 ANNUAL REPORT
PIT GROUNDWATER REMEDIATION
VOLUME 1: SITES ON FEDERAL LANDS**

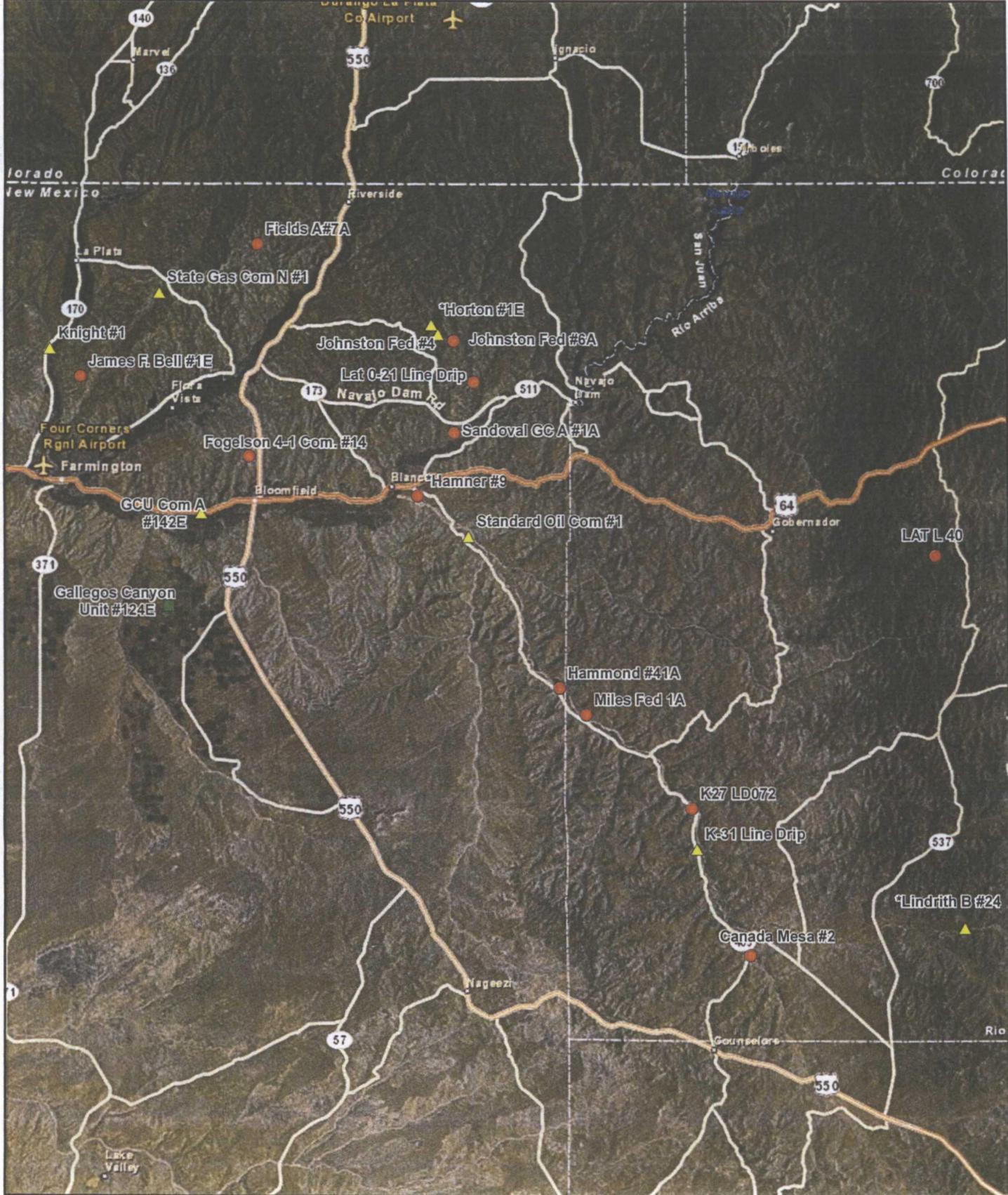
AUGUST 2012



MWH

1801 California Street
Suite 2900
Denver, Colorado 80202
303 291 2222

6446 V 03 08 12
10/10/12



LEGEND

- Sites on Federal Land
- Sites on Navajo Nation Land
- ▲ Sites on State/Fee "Non-Federal" Lands

*Closure Request Pending with the NMOCD.



PROJECT: SAN JUAN RIVER BASIN

FIGURE:

TITLE: Site Locations

1

LIST OF ACRONYMS

| | |
|--------|---|
| AMSL | above mean sea level |
| BTEX | benzene, toluene, ethylbenzene, xylenes |
| btoc | below top of casing |
| EPCGP | El Paso CGP Company |
| ft | foot/feet |
| GWEL | groundwater elevation |
| ID | identification |
| MW | monitoring well |
| NMWQCC | New Mexico Water Quality Control Commission |
| TOC | top of casing |
| NA | not applicable |
| NMOCD | New Mexico Oil Conservation Division |
| NS | not sampled |
| ORC | oxygen-releasing compound |
| µg/L | micrograms per liter |

2011 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I
EL PASO CGP COMPANY

TABLE OF CONTENTS

| METER or LINE ID | NMOCD CASE NO. | SITE NAME | TOWNSHIP | RANGE | SECTION | UNIT |
|-----------------------------|---------------------------|-----------------------|-----------------|--------------|----------------|-------------|
| 87640 | 3RP-155-0 | Canada Mesa #2 | 24N | 06W | 24 | I |
| 89961 | 3RP-170-0 | Fields A#7A | 32N | 11W | 34 | E |
| 73220 | 3RP-068-0 | Fogelson 4-1 Com. #14 | 29N | 11W | 4 | P |
| 89894 | 3RP-186-0 | Hammond #41A | 27N | 08W | 25 | O |
| 97213 | 3RP-190-0 | Hamner #9 | 29N | 09W | 20 | A |
| 94715 | 3RP-196-0 | James F. Bell #1E | 30N | 13W | 10 | P |
| 89232 | 3RP-202-0 | Johnston Fed #6A | 31N | 09W | 35 | F |
| LD072 | 3RP-204-0 | K27 LD072 | 25N | 06W | 4 | E |
| LD174 | 3RP-212-0 | LAT L 40 | 28N | 04W | 13 | H |
| LD151 | 3RP-213-0 | Lat 0-21 Line Drip | 30N | 09W | 12 | O |
| 94810 | 3RP-223-0 | Miles Fed 1A | 26N | 07W | 5 | F |
| 89620 | 3RP-235-0 | Sandoval GC A #1A | 30N | 09W | 35 | C |

* The Hamner #9 site was submitted for closure in January 2009 and is pending approval from NMOCD. There were no monitoring activities for this site in 2011.



**EPCGP GROUNDWATER SITES
2011 ANNUAL GROUNDWATER REPORT**

**Johnston Fed #6A
Meter Code: 89232**

SITE DETAILS

| | | | | |
|------------------------------|-------------------|------------------|---------------------------------|----------------|
| Legal Description: | Town: 31N | Range: 9W | Sec: 35 | Unit: F |
| NMOCD Haz Ranking: 40 | Land Type: | Federal | Operator: ConocoPhillips | |

PREVIOUS ACTIVITIES

| | | | | | |
|--------------------------------|------|---------------------------|-------------|-------------------------------|-------|
| Site Assessment: | 8/94 | Excavation: | 9/94 (80cy) | Soil Boring: | 8/95 |
| Monitor Well: | 8/95 | Geoprobe: | NA | Additional MWs: | 11/06 |
| Downgradient MWs: | 6/00 | Replace MW: | NA | Quarterly Initiated: | 4/96 |
| ORC Nutrient Injection: | NA | Re-Excavation: | NA | PSH Removal Initiated: | 7/97 |
| Annual Initiated: | NA | Quarterly Resumed: | NA | PSH Removal in 2011? | Yes |

SUMMARY OF 2011 ACTIVITIES

MW-1: Annual groundwater sampling (February), quarterly free-product recovery and water level monitoring were performed during 2011.

MW-2: Quarterly water level monitoring was performed during 2011.

MW-3: Annual groundwater sampling (February) and quarterly water level monitoring were performed during 2011.

MW-4: Quarterly water level monitoring was performed during 2011.

MW-5: Annual groundwater sampling (February) and quarterly water level monitoring were performed during 2011.

MW-6: Annual groundwater sampling (February) and quarterly free-product recovery and water level monitoring was performed during 2011.

Site-Wide Activities: No other activities were performed at this Site in 2011.

SITE MAP

A Site map (February) is attached as Figure 1.

**EPCGP GROUNDWATER SITES
2011 ANNUAL GROUNDWATER REPORT**

**Johnston Fed #6A
Meter Code: 89232**

SUMMARY TABLES AND GRAPHS

- Historic analytical and water level data are summarized in Table 1 and presented graphically in Figures 2 through 7. Where applicable, static water level elevations were corrected for measurable thicknesses of free-product (specific gravity of 0.8).
- Historic free-product recovery data are summarized in Table 2 and presented graphically in Figures 2, 4, and 6.
- The 2011 laboratory report is presented in Attachment 1 (included on CD).
- The 2011 field documentation is presented in Attachment 2 (included on CD).

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this Site during 2011.

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. Spent absorbent socks were managed as non-hazardous solid waste.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this Site; however, the attached Site map presents the analytical data collected during 2011, as well as a summary of product recovery volumes.

RESULTS

- The groundwater flow gradient is generally to the northeast.
- Free-product recovery efforts at MW-1 resulted in removal of approximately .98 gallons of free-product, bringing the cumulative total recovered to date to 11.87 gallons.
- The groundwater sample collected from MW-3 met the applicable NMWQCC standards for the third consecutive year.
- BTEX concentrations in the groundwater sample collected from MW-5 rebounded to above the applicable NMWQCC standards. Benzene (11.9 µg/L), toluene (920 µg/L), xylenes (1,870 µg/L) were above their respective standards. Ethylbenzene concentration levels of 177 µg/L were elevated from the previous sampling event, but remained below the NMWQCC standard.

**EPCGP GROUNDWATER SITES
2011 ANNUAL GROUNDWATER REPORT**

**Johnston Fed #6A
Meter Code: 89232**

- Free-product recovery efforts in MW-5 resulted in removal of approximately 0.07 gallons of free-product, bringing the cumulative total recovered to date to 0.39 gallons.
- Downgradient monitoring well MW-6 was sampled in the February 2011 annual sampling event. MW-6 was not sampled in 2010 due to a blockage in the well which has since been repaired. The groundwater samples collected from MW-6 remained below NMWQCC standards, similar to the historical concentrations.

REMAINING CLOSURE REQUIREMENTS

- This site is being managed per the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (El Paso Natural Gas Company / El Paso Field Services Company, 1995). This remediation plan was conditionally approved by the New Mexico Oil Conservation Division (OCD) in correspondence dated November 30, 1995; and the OCD approval conditions were adopted into El Paso's program methods.
- In order to meet the remaining closure requirements at this site, the following conditions must be achieved:
 1. Recoverable free-product must be removed from the subsurface. Generally, this corresponds with an absence of measurable free-product in the monitor wells. Currently, product recovery efforts are required at MW-1.
 2. Groundwater contaminant concentrations in the monitoring wells must meet the NMWQCC standards for at least 4 consecutive quarters. Alternatively, concentrations must be reduced to below background levels; however, there are no established background concentrations for the remaining constituents of concern. Currently, all the monitor wells ultimately require additional monitoring. The remaining applicable standards are:

| Constituent | NMWQCC GW Standard (µg/L) |
|--------------------|----------------------------------|
| Benzene | 10 |
| Toluene | 750 |
| Ethylbenzene | 750 |
| Total Xylenes | 620 |

RECOMMENDATIONS

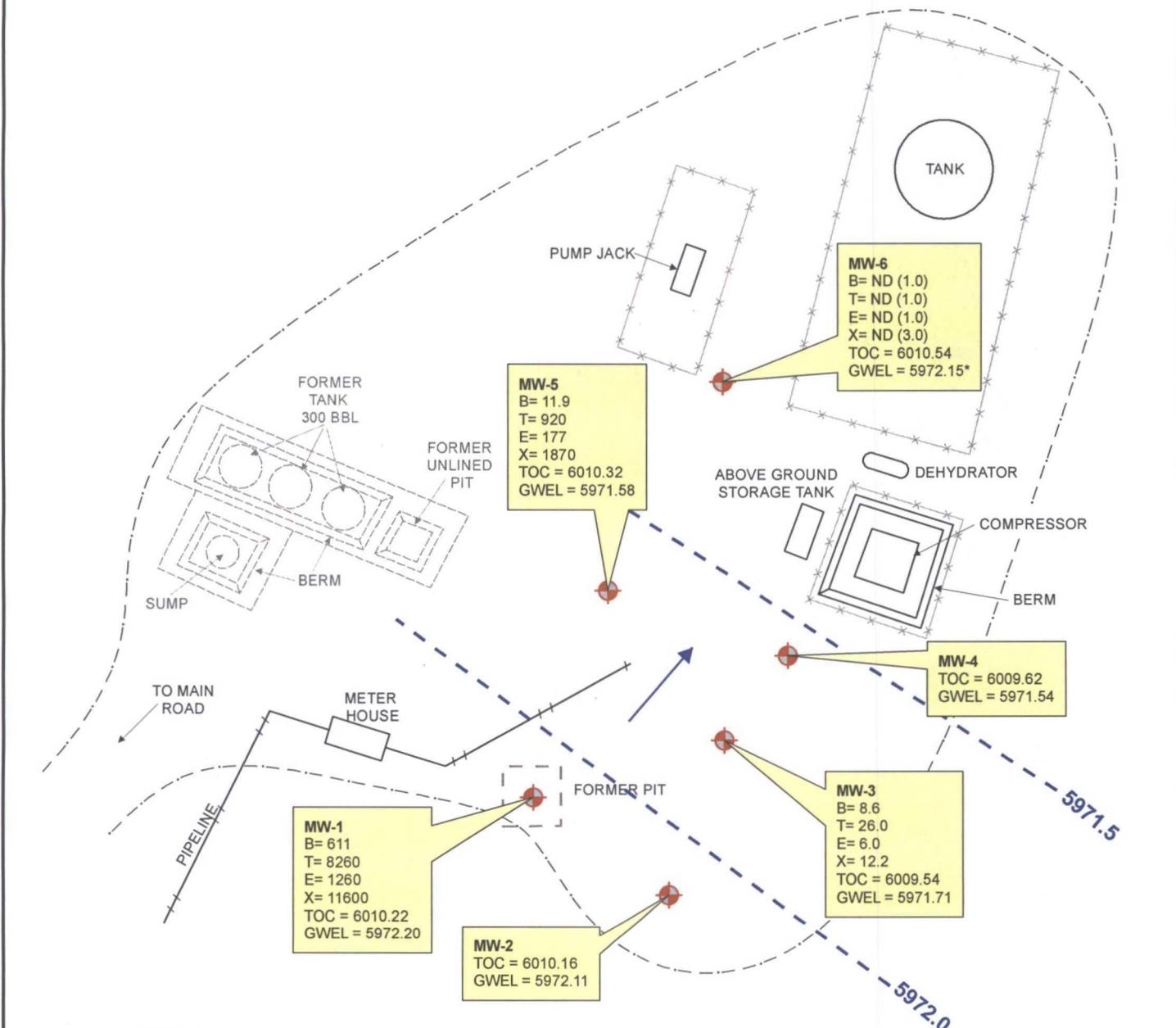
- EPCGP will continue quarterly free-product recovery efforts at MW-1 and MW-5; however, the frequency of these activities may be adjusted based on the observed

**EPCGP GROUNDWATER SITES
2011 ANNUAL GROUNDWATER REPORT**

**Johnston Fed #6A
Meter Code: 89232**

product thicknesses and amounts recovered during the monitoring visits. MW-1 will also be added to the annual sampling list.

- BTEX concentrations in MW-2 were below closure standards for four sampling events (1997 – 2002); however, this well will continue to be gauged and sampled along with the other wells at the site.
- EPCGP will continue to sample MW-3 annually and gauge the well quarterly to check for the re-appearance of free-product.
- BTEX concentrations in MW-4 were below closure standards for five sampling events (2003 – 2008); however, this well will continue to be gauged and sampled along with the other wells at the site.
- EPCGP will continue to sample MW-5 annually and gauge the well quarterly to check for free-product.
- BTEX concentrations in MW-6 have been below closure standards for four consecutive sampling events (2007-2011); however, this well will continue to be gauged and sampled along with the other wells at the site.

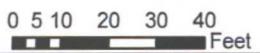


| Product Removed (Gallons) | 1/31/11 | 2/7/11 | 5/2/11 | 9/23/11 | 11/1/11 |
|---------------------------|---------|--------|--------|---------|---------|
| MW-1 | 0.23 | 0.04 | 0.23 | 0.23 | 0.23 |
| MW-5 | - | .02 | - | 0.09 | 0.07 |

* Water level appears to be anomalous.

LEGEND

- MW-1 Existing Monitoring / Observation Well
- Groundwater Flow Direction
- Potentiometric Surface Contour (Inferred Where Dashed)
- ND Not Detected; Reporting Limit Shown In Parenthesis
- B Benzene (ug/L)
- T Toluene (ug/L)
- E Ethylbenzene (ug/L)
- X Total Xylenes (ug/L)
- TOC Top of Casing (ft. AMSL)
- GWEL Groundwater Elevation (ft. AMSL)

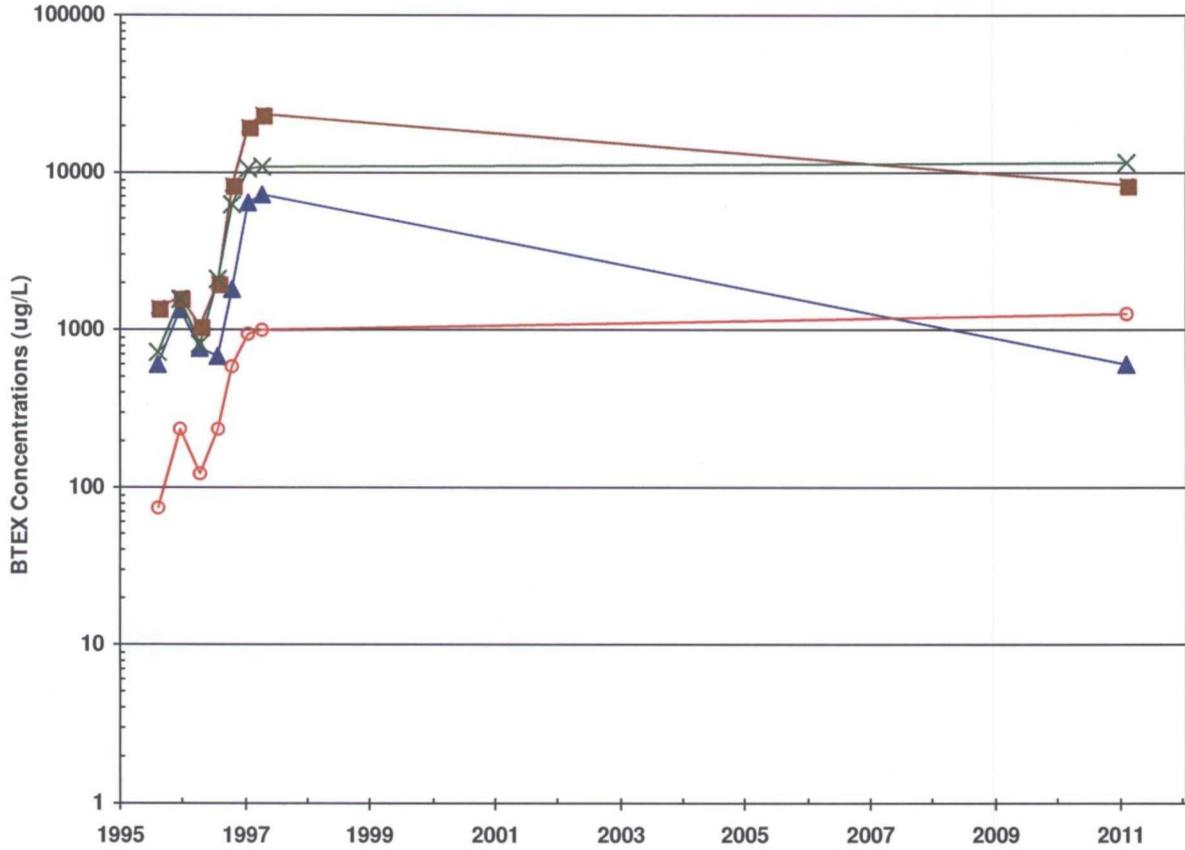


PROJECT: JOHNSTON FEDERAL #6A

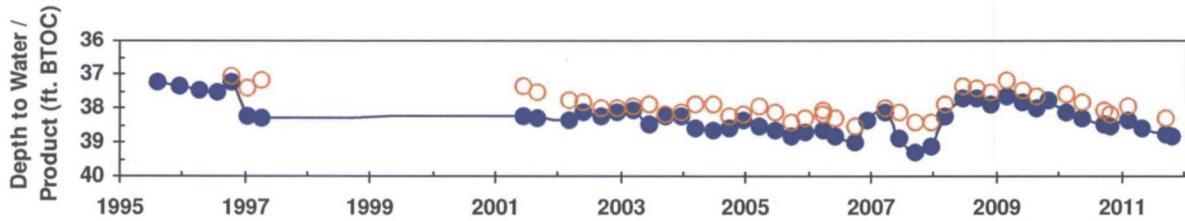
TITLE: Groundwater Potentiometric Surface Map, and BTEX Concentrations - February 7, 2011

FIGURE: 1

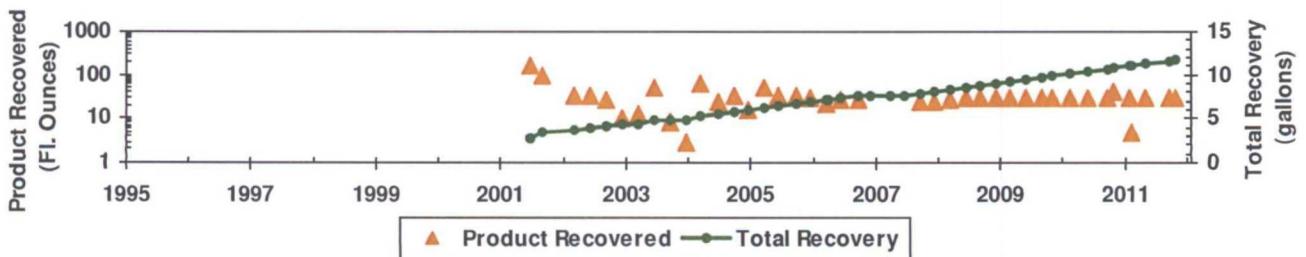
FIGURE 2
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS, FLUID LEVELS, AND PRODUCT RECOVERY
JOHNSTON FED #6A (METER #89232)
MW-1



NM Std.: ▲ Benzene (10 ug/L) ■ Toluene (750 ug/L) ○ Ethylbenzene (750 ug/L) ✕ Total Xylenes (620 ug/L)



● Groundwater Depth ○ Product Depth



▲ Product Recovered ● Total Recovery

**In some cases, older recovery event data are not available. However, the cumulative totals still include all historic recovery.*

FIGURE 3
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS AND FLUID LEVELS
JOHNSTON FED #6A (METER #89232)
MW-2

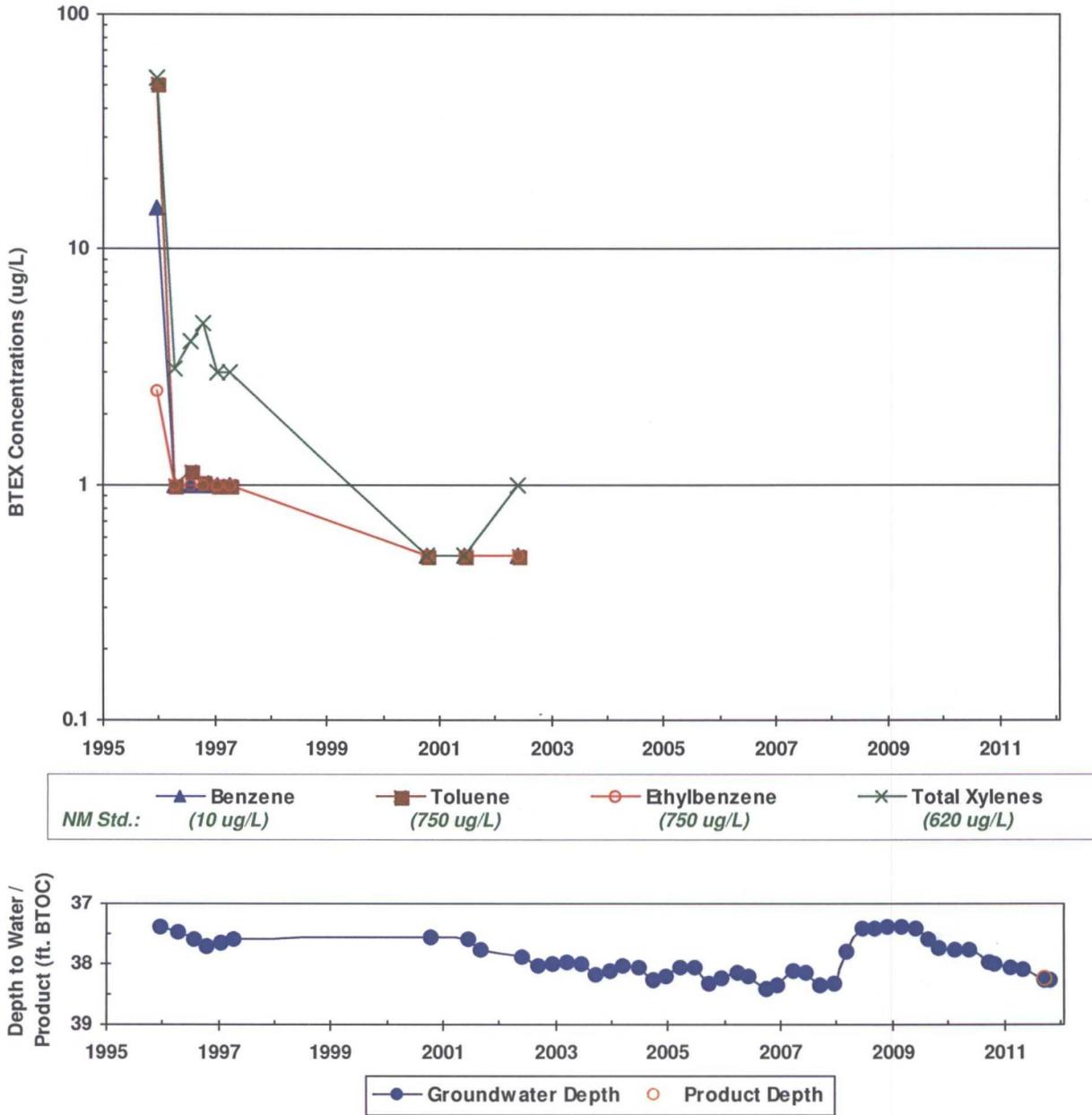
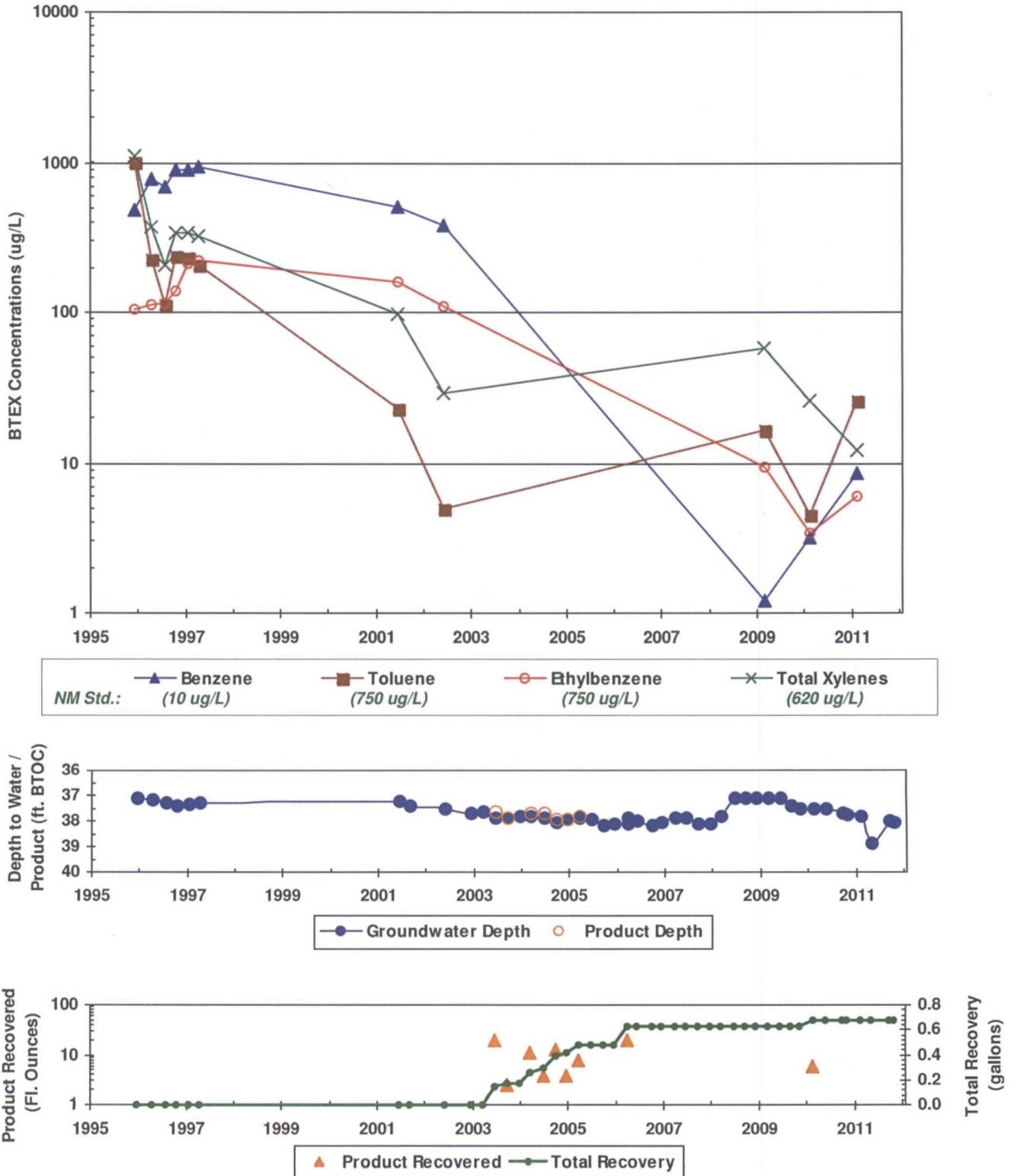


FIGURE 4
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS, FLUID LEVELS, AND PRODUCT RECOVERY
JOHNSTON FED #6A (METER #89232)
MW-3



**In some cases, older recovery event data are not available. However, the cumulative totals still include all historic recovery.*

FIGURE 5
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS AND FLUID LEVELS
JOHNSTON FED #6A (METER #89232)
MW-4

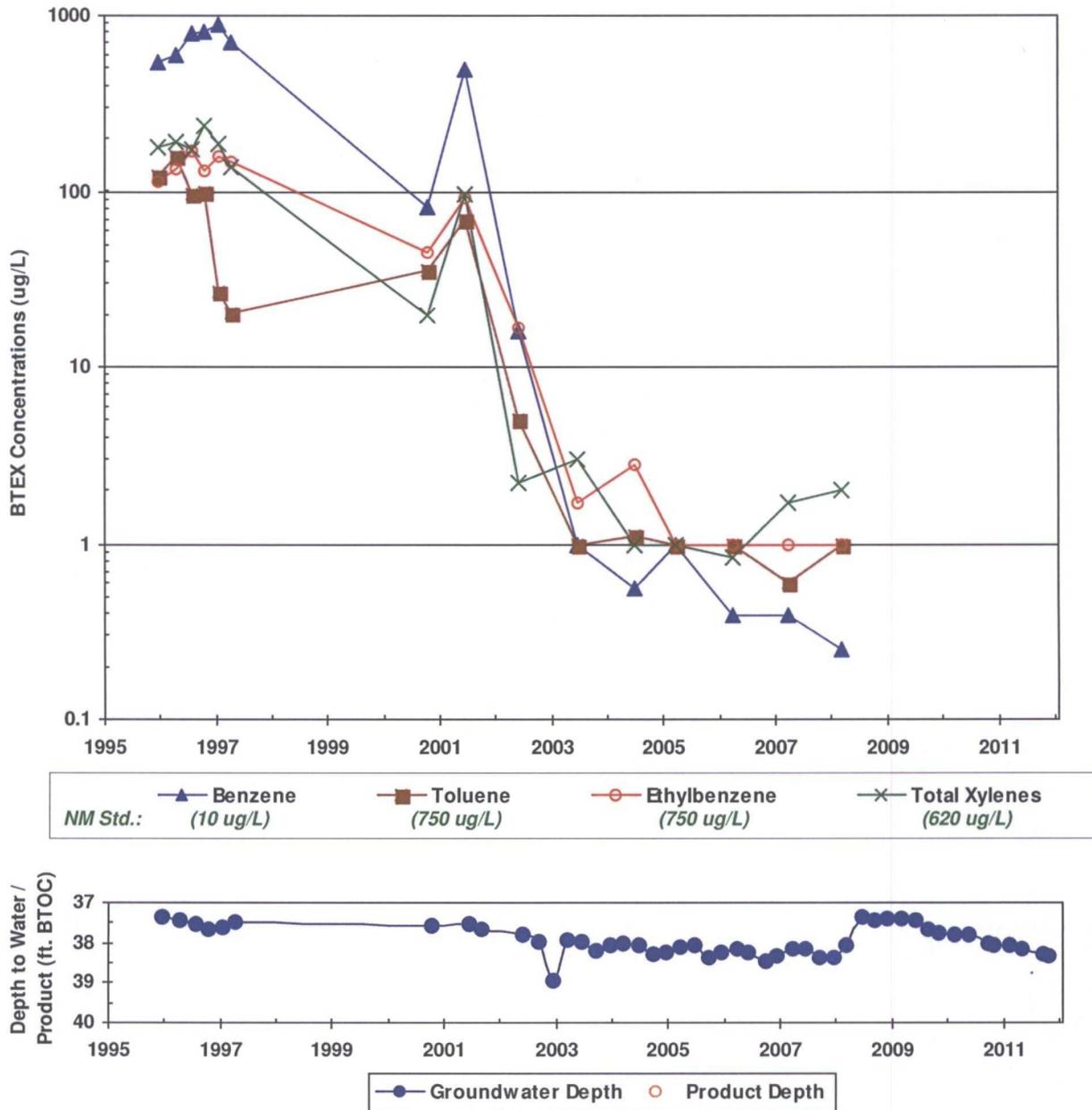
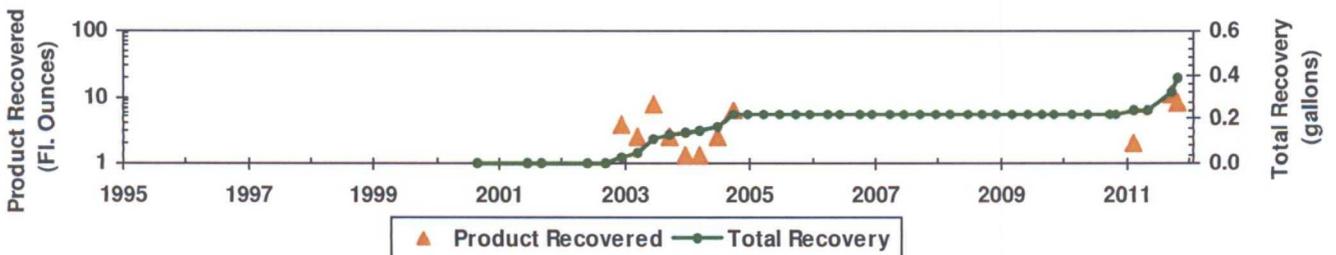
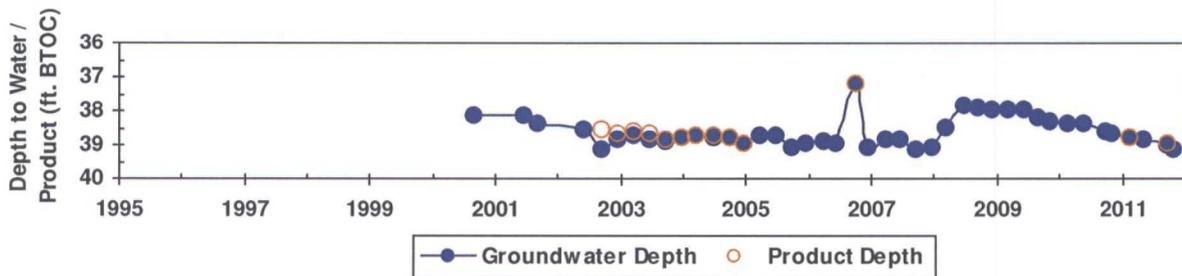
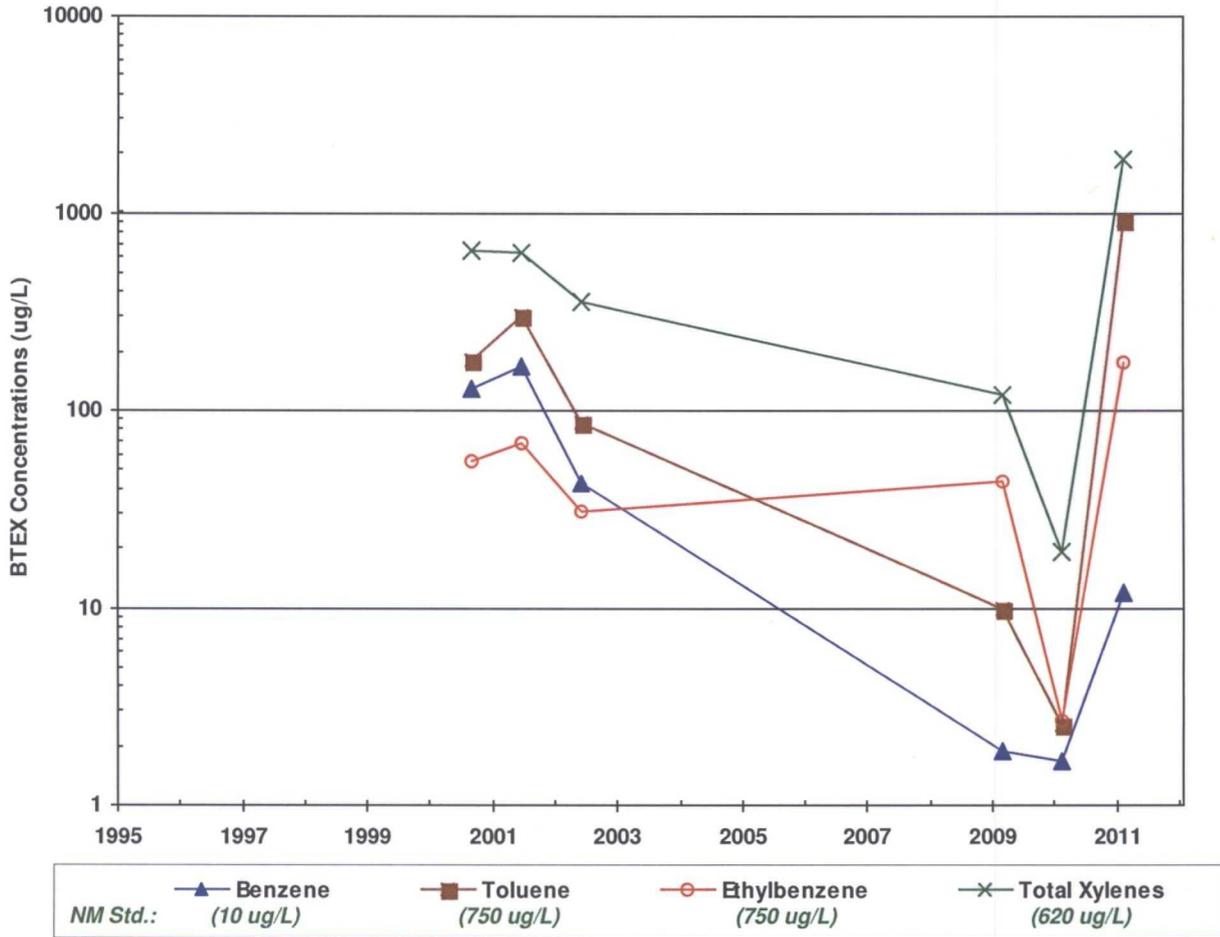


FIGURE 6
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS, FLUID LEVELS, AND PRODUCT RECOVERY
JOHNSTON FED #6A (METER #89232)
MW-5



**In some cases, older recovery event data are not available. However, the cumulative totals still include all historic recovery.*

FIGURE 7
SUMMARY OF GROUNDWATER BTEX CONCENTRATIONS AND FLUID LEVELS
JOHNSTON FED #6A (METER #89232)
MW-6

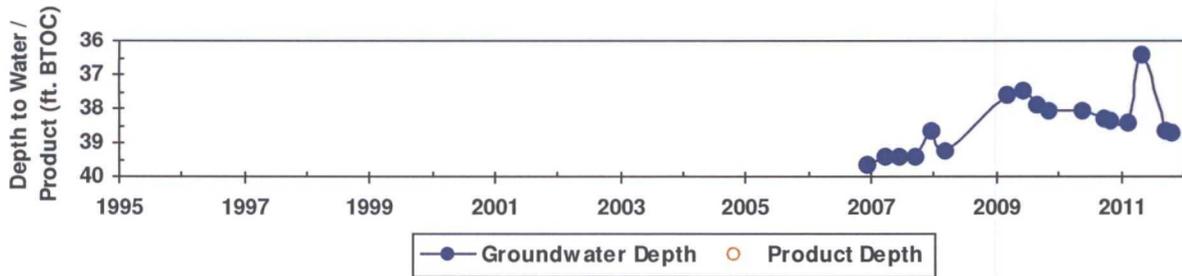
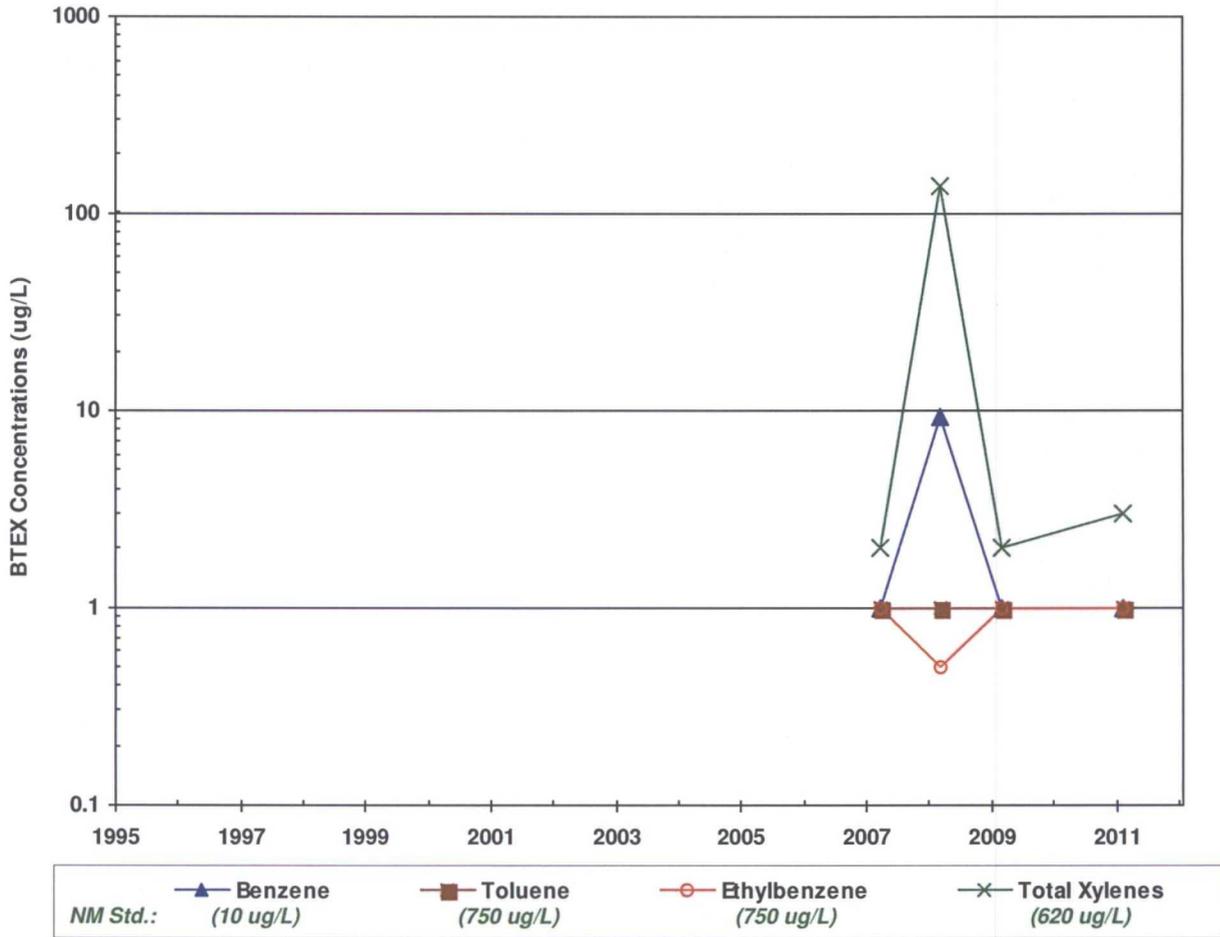


TABLE 1

**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER
JOHNSTON FED #6A (METER #89232)**

| Monitor Well | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes | Depth to Water (ft BTOC) | Corr. GW Elevation (ft AMSL) |
|-----------------|-------------|----------------|----------------|---------------------|---------------|--------------------------|------------------------------|
| NMWQCC GW Std.: | | 10 | 750 | 750 | 620 | | |
| B1(33-37) | 1/6/2006 | <1.0 | 0.55J | <1.0 | 1.3J | NA | NA |
| B2(34-38) | 1/6/2006 | <1.0 | 0.89J | <1.0 | 2.2 | NA | NA |
| MW-1 | 8/10/1995 | 605 | 1380 | 74.6 | 718 | 37.24 | 5972.98 |
| MW-1 | 12/13/1995 | 1330 | 1610 | 235 | 1540 | 37.35 | 5972.87 |
| MW-1 | 4/11/1996 | 775 | 1070 | 124 | 810 | 37.48 | 5972.74 |
| MW-1 | 7/23/1996 | 676 | 1980 | 233 | 2090 | 37.55 | 5972.67 |
| MW-1 | 10/14/1996 | 1790 | 8350 | 580 | 6200 | 37.22 | 5973.12 |
| MW-1 | 1/22/1997 | 6420 | 19800 | 934 | 10700 | 38.26 | 5972.62 |
| MW-1 | 4/11/1997 | 7310 | 23500 | 1010 | 10800 | 38.31 | 5972.80 |
| MW-1 | 2/7/2011 | 611 | 8260 | 1260 | 11600 | 38.37 | 5972.20 |
| MW-2 | 12/13/1995 | 15.1 | 50.8 | <2.5 | 53.8 | 37.39 | 5972.77 |
| MW-2 | 4/11/1996 | <1.0 | <1.0 | <1.0 | 3.13 | 37.47 | 5972.69 |
| MW-2 | 7/23/1996 | <1.0 | 1.15 | <1.0 | 4.06 | 37.60 | 5972.56 |
| MW-2 | 10/14/1996 | <1.0 | 1.04 | <1.0 | 4.85 | 37.70 | 5972.46 |
| MW-2 | 1/22/1997 | <1.0 | <1.0 | <1.0 | <3.0 | 37.66 | 5972.50 |
| MW-2 | 4/11/1997 | <1.0 | <1.0 | <1.0 | <3.0 | 37.58 | 5972.58 |
| MW-2 | 10/9/2000 | <0.5 | <0.5 | <0.5 | <0.5 | 37.56 | 5972.60 |
| MW-2 | 6/18/2001 | <0.5 | <0.5 | <0.5 | <0.5 | 37.58 | 5972.58 |
| MW-2 | 6/3/2002 | <0.5 | <0.5 | <0.5 | <1.0 | 37.88 | 5972.28 |
| MW-3 | 12/13/1995 | 488 | 1020 | 104 | 1120 | 37.11 | 5972.43 |
| MW-3 | 4/11/1996 | 772 | 231 | 113 | 379 | 37.17 | 5972.37 |
| MW-3 | 7/25/1996 | 687 | 112 | 115 | 209 | 37.30 | 5972.24 |
| MW-3 | 10/14/1996 | 900 | 240 | 140 | 340 | 37.40 | 5972.14 |
| MW-3 | 1/22/1997 | 907 | 234 | 215 | 340 | 37.35 | 5972.19 |
| MW-3 | 4/11/1997 | 944 | 209 | 223 | 322 | 37.29 | 5972.25 |
| MW-3 | 6/18/2001 | 510 | 23 | 160 | 98 | 37.26 | 5972.28 |
| MW-3 | 6/3/2002 | 380 | <5.0 | 110 | 29 | 37.55 | 5971.99 |
| MW-3 | 3/5/2009 | 1.2 | 16.5 | 9.4 | 58.2 | 37.14 | 5972.40 |
| MW-3 | 2/17/2010 | 3.2 | 4.5 | 3.4 | 25.9 | 37.53 | 5972.01 |
| MW-3 | 2/7/2011 | 8.6 | 26.0 | 6.0 | 12.2 | 37.83 | 5971.71 |
| MW-4 | 12/13/1995 | 545 | 121 | 114 | 177 | 37.34 | 5972.28 |
| MW-4 | 4/11/1996 | 591 | 160 | 133 | 193 | 37.42 | 5972.20 |
| MW-4 | 7/25/1996 | 793 | 96.4 | 172 | 174 | 37.54 | 5972.08 |
| MW-4 | 10/14/1996 | 800 | 100 | 130 | 235 | 37.64 | 5971.98 |

TABLE 1

**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER
JOHNSTON FED #6A (METER #89232)**

| Monitor Well | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes | Depth to Water (ft BTOC) | Corr. GW Elevation (ft AMSL) |
|------------------------|-------------|----------------|----------------|---------------------|---------------|--------------------------|------------------------------|
| NMWQCC GW Std.: | | 10 | 750 | 750 | 620 | | |
| MW-4 | 1/22/1997 | 899 | 26.7 | 157 | 186 | 37.60 | 5972.02 |
| MW-4 | 4/11/1997 | 703 | 20.1 | 149 | 138 | 37.47 | 5972.15 |
| MW-4 | 10/9/2000 | 81 | 36 | 45 | 20 | 37.56 | 5972.06 |
| MW-4 | 6/18/2001 | 490 | 70 | 91 | 96 | 37.53 | 5972.09 |
| MW-4 | 6/3/2002 | 16 | <5.0 | 17 | 2.2 | 37.80 | 5971.82 |
| MW-4 | 6/18/2003 | <1.0 | <1.0 | 1.7 | <3.0 | 37.95 | 5971.67 |
| MW-4 | 6/22/2004 | 0.56J | 1.1 | 2.8 | <1.0 | 38.04 | 5971.58 |
| MW-4 | 3/23/2005 | <1.0 | <1.0 | <1.0 | 0.99 | 38.11 | 5971.51 |
| MW-4 | 3/27/2006 | 0.39J | <1.0 | <1.0 | 0.83J | 38.16 | 5971.46 |
| MW-4 | 3/28/2007 | 0.39J | 0.60J | <1.0 | 1.7J | 38.16 | 5971.46 |
| MW-4 | 3/10/2008 | 0.25J | <1.0 | <1.0 | <2.0 | 38.05 | 5971.57 |
| MW-5 | 8/30/2000 | 130 | 180 | 56 | 650 | 38.11 | 5972.21 |
| MW-5 | 6/18/2001 | 170 | 300 | 68 | 630 | 38.13 | 5972.19 |
| MW-5 | 6/4/2002 | 43 | 87 | 31 | 360 | 38.51 | 5971.81 |
| MW-5 | 3/5/2009 | 1.9 | 9.8 | 44.0 | 120 | 37.93 | 5972.39 |
| MW-5 | 2/17/2010 | 1.7 | 2.6 | 2.7 | 19.2 | 38.38 | 5971.94 |
| MW-5 | 2/7/2011 | 11.9 | 920 | 177 | 1870 | 38.74 | 5971.58 |
| MW-6 | 3/28/2007 | <1.0 | <1.0 | <1.0 | <2.0 | 39.43 | 5971.11 |
| MW-6 | 3/10/2008 | 9.4 | <1.0 | 0.50J | 139 | 39.21 | 5971.33 |
| MW-6 | 3/5/2009 | <1.0 | <1.0 | <1.0 | <2.0 | 37.61 | 5972.93 |
| MW-6 | 2/7/2011 | <1.0 | <1.0 | <1.0 | <3.0 | 38.39 | 5972.15 |

Notes:

Results shown in bold typeface exceed their respective New Mexico Water Quality Control Commission standards.

"J" = result is qualified as estimated. See laboratory report and/or supplemental data validation report for further detail.

"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit)

Static groundwater elevations have been corrected for product thickness where applicable. Specific gravity of 0.8 used

TABLE 2

SUMMARY OF FREE-PRODUCT REMOVAL
JOHNSTON FED #6A (METER #89232)

| Monitor Well | Removal Date | Depth to Product (ft BTOC) | Depth to Water (ft BTOC) | Product Thickness (feet) | Volume Removed (gallons) | Cumulative Removal (gallons) | Corrected GW Elevation (ft AMSL) |
|--------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|------------------------------|----------------------------------|
| MW-1 | 10/14/1996 | 37.07 | 37.22 | 0.15 | NA | NA | 5973.12 |
| MW-1 | 1/22/1997 | 37.43 | 38.26 | 0.83 | NA | NA | 5972.62 |
| MW-1 | 4/11/1997 | 37.20 | 38.31 | 1.11 | NA | NA | 5972.80 |
| MW-1 | 6/18/2001 | 37.34 | 38.21 | 0.87 | 1.25 | 2.75 | 5972.71 |
| MW-1 | 9/4/2001 | 37.54 | 38.27 | 0.73 | 0.75 | 3.50 | 5972.53 |
| MW-1 | 3/4/2002 | 37.74 | 38.35 | 0.61 | 0.25 | 3.75 | 5972.36 |
| MW-1 | 6/4/2002 | 37.81 | 38.14 | 0.33 | 0.25 | 4.00 | 5972.34 |
| MW-1 | 9/10/2002 | 38.00 | 38.24 | 0.24 | 0.20 | 4.20 | 5972.17 |
| MW-1 | 12/12/2002 | 38.01 | 38.11 | 0.10 | 0.08 | 4.28 | 5972.19 |
| MW-1 | 3/14/2003 | 37.95 | 38.08 | 0.13 | 0.10 | 4.38 | 5972.24 |
| MW-1 | 6/18/2003 | 37.88 | 38.47 | 0.59 | 0.40 | 4.78 | 5972.22 |
| MW-1 | 9/16/2003 | 38.17 | 38.25 | 0.08 | 0.06 | 4.84 | 5972.03 |
| MW-1 | 12/17/2003 | 38.13 | 38.23 | 0.10 | 0.02 | 4.87 | 5972.07 |
| MW-1 | 3/16/2004 | 37.90 | 38.57 | 0.67 | 0.47 | 5.33 | 5972.19 |
| MW-1 | 6/22/2004 | 37.90 | 38.65 | 0.75 | 0.19 | 5.52 | 5972.17 |
| MW-1 | 9/22/2004 | 38.21 | 38.60 | 0.39 | 0.25 | 5.77 | 5971.93 |
| MW-1 | 12/21/2004 | 38.20 | 38.38 | 0.18 | 0.13 | 5.90 | 5971.98 |
| MW-1 | 3/23/2005 | 37.95 | 38.50 | 0.55 | 0.39 | 6.29 | 5972.16 |
| MW-1 | 6/17/2005 | 38.13 | 38.62 | 0.49 | 0.25 | 6.54 | 5971.99 |
| MW-1 | 9/20/2005 | 38.40 | 38.83 | 0.43 | 0.25 | 6.79 | 5971.73 |
| MW-1 | 12/14/2005 | 38.31 | 38.72 | 0.41 | 0.23 | 7.02 | 5971.83 |
| MW-1 | 3/25/2006 | 38.15 | 38.66 | 0.51 | 0.17 | 7.19 | 5971.97 |
| MW-1 | 3/27/2006 | 38.05 | 38.62 | 0.57 | -- | 7.19 | 5972.06 |
| MW-1 | 6/6/2006 | 38.29 | 38.84 | 0.55 | 0.22 | 7.41 | 5971.82 |
| MW-1 | 9/25/2006 | 38.51 | 39.01 | 0.50 | 0.22 | 7.63 | 5971.61 |
| MW-1 | 3/28/2007 | 38.02 | 38.09 | 0.07 | -- | 7.63 | 5972.19 |
| MW-1 | 6/18/2007 | 38.09 | 38.86 | 0.77 | -- | 7.63 | 5971.98 |
| MW-1 | 9/17/2007 | 38.40 | 39.32 | 0.92 | 0.19 | 7.82 | 5971.64 |
| MW-1 | 12/17/2007 | 38.42 | 39.13 | 0.71 | 0.19 | 8.01 | 5971.66 |
| MW-1 | 3/10/2008 | 37.90 | 38.24 | 0.34 | 0.22 | 8.22 | 5972.25 |
| MW-1 | 6/17/2008 | 37.38 | 37.71 | 0.33 | 0.23 | 8.45 | 5972.77 |
| MW-1 | 9/10/2008 | 37.41 | 37.72 | 0.31 | 0.23 | 8.68 | 5972.75 |
| MW-1 | 12/2/2008 | 37.51 | 37.89 | 0.38 | 0.23 | 8.91 | 5972.63 |
| MW-1 | 3/5/2009 | 37.20 | 37.63 | 0.43 | 0.23 | 9.15 | 5972.93 |

TABLE 2

SUMMARY OF FREE-PRODUCT REMOVAL
JOHNSTON FED #6A (METER #89232)

| Monitor Well | Removal Date | Depth to Product (ft BTOC) | Depth to Water (ft BTOC) | Product Thickness (feet) | Volume Removed (gallons) | Cumulative Removal (gallons) | Corrected GW Elevation (ft AMSL) |
|--------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|------------------------------|----------------------------------|
| MW-1 | 6/2/2009 | 37.49 | 37.83 | 0.34 | 0.23 | 9.38 | 5972.66 |
| MW-1 | 8/28/2009 | 37.65 | 37.99 | 0.34 | 0.23 | 9.62 | 5972.50 |
| MW-1 | 11/4/2009 | -- | 37.77 | 0.00 | 0.23 | 9.85 | 5972.45 |
| MW-1 | 2/11/2010 | NA | NA | NA | 0.23 | 10.09 | NA |
| MW-1 | 2/17/2010 | 37.60 | 38.11 | 0.51 | -- | 10.09 | 5972.52 |
| MW-1 | 5/24/2010 | 37.81 | 38.27 | 0.46 | 0.23 | 10.32 | 5972.32 |
| MW-1 | 9/24/2010 | 38.05 | 38.46 | 0.41 | 0.23 | 10.55 | 5972.09 |
| MW-1 | 11/2/2010 | 38.16 | 38.55 | 0.39 | 0.33 | 10.89 | 5971.98 |
| MW-1 | 1/31/2011 | NA | NA | NA | 0.23 | 11.12 | NA |
| MW-1 | 2/7/2011 | 37.93 | 38.37 | 0.44 | 0.04 | 11.16 | 5972.20 |
| MW-1 | 5/2/2011 | -- | 38.57 | 0.00 | 0.23 | 11.40 | 5971.65 |
| MW-1 | 9/23/2011 | 38.32 | 38.75 | 0.43 | 0.23 | 11.63 | 5971.81 |
| MW-1 | 11/1/2011 | -- | 38.80 | 0.00 | 0.23 | 11.87 | 5971.42 |
| MW-2 | 9/23/2011 | 38.23 | 38.25 | 0.02 | -- | 0.00 | 5971.93 |
| MW-3 | 6/18/2003 | 37.63 | 37.87 | 0.24 | 0.15 | 0.15 | 5971.86 |
| MW-3 | 9/16/2003 | 37.87 | 37.88 | 0.01 | 0.02 | 0.17 | 5971.67 |
| MW-3 | 3/16/2004 | 37.72 | 37.85 | 0.13 | 0.09 | 0.26 | 5971.79 |
| MW-3 | 6/22/2004 | 37.72 | 37.88 | 0.16 | 0.03 | 0.29 | 5971.79 |
| MW-3 | 9/22/2004 | 37.96 | 38.07 | 0.11 | 0.10 | 0.39 | 5971.56 |
| MW-3 | 12/21/2004 | 37.93 | 37.96 | 0.03 | 0.03 | 0.42 | 5971.60 |
| MW-3 | 3/23/2005 | 37.80 | 37.88 | 0.08 | 0.06 | 0.48 | 5971.72 |
| MW-3 | 3/25/2006 | -- | 38.09 | 0.00 | 0.15 | 0.63 | 5971.45 |
| MW-3 | 2/11/2010 | NA | NA | NA | 0.05 | 0.68 | NA |
| MW-5 | 9/10/2002 | 38.54 | 39.13 | 0.58 | -- | 0.00 | 5971.66 |
| MW-5 | 12/12/2002 | 38.62 | 38.83 | 0.21 | 0.03 | 0.03 | 5971.66 |
| MW-5 | 3/14/2003 | 38.60 | 38.70 | 0.10 | 0.02 | 0.05 | 5971.70 |
| MW-5 | 6/18/2003 | 38.62 | 38.85 | 0.23 | 0.06 | 0.11 | 5971.65 |
| MW-5 | 9/16/2003 | 38.83 | 38.88 | 0.05 | 0.02 | 0.13 | 5971.48 |
| MW-5 | 12/17/2003 | 38.74 | 38.75 | 0.01 | 0.01 | 0.14 | 5971.58 |
| MW-5 | 3/16/2004 | 38.68 | 38.72 | 0.04 | 0.01 | 0.15 | 5971.63 |
| MW-5 | 6/22/2004 | 38.70 | 38.74 | 0.04 | 0.02 | 0.17 | 5971.61 |
| MW-5 | 9/22/2004 | 38.74 | 38.74 | 0.00 | 0.05 | 0.22 | 5971.58 |
| MW-5 | 12/21/2004 | 38.92 | 38.93 | 0.01 | -- | 0.22 | 5971.40 |
| MW-5 | 9/25/2006 | 37.18 | 37.20 | 0.02 | -- | 0.22 | 5973.14 |

TABLE 2

SUMMARY OF FREE-PRODUCT REMOVAL
JOHNSTON FED #6A (METER #89232)

| Monitor Well | Removal Date | Depth to Product (ft BTOC) | Depth to Water (ft BTOC) | Product Thickness (feet) | Volume Removed (gallons) | Cumulative Removal (gallons) | Corrected GW Elevation (ft AMSL) |
|--------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|------------------------------|----------------------------------|
| MW-5 | 2/7/2011 | 38.74 | 38.74 | 0.00 | 0.02 | 0.24 | 5971.58 |
| MW-5 | 9/23/2011 | 38.97 | 38.99 | 0.02 | 0.09 | 0.32 | 5971.35 |
| MW-5 | 11/1/2011 | -- | 39.09 | 0.00 | 0.07 | 0.39 | 5971.23 |

Notes:

"--" indicates either that product was not measurably detected or that product was not recovered.

"NA" indicates that the respective data point is not available.

Groundwater elevations may not be static due to removal of equipment. Corrections for product thickness utilize SG of 0.8.