

SEMI-ANNUAL PROGRESS REPORT SECOND SEMI-ANNUAL 2004 AND REMEDIAL PROGRESS EVALUATION

**FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK**

PREPARED FOR:

COMBUSTION ENGINEERING
CEP 880-1403
P.O. Box 500
2000 DAY HILL ROAD
WINDSOR, CT 06095

PREPARED BY:

MACTEC ENGINEERING AND CONSULTING, INC.
1431 CENTERPOINT BOULEVARD, SUITE 150
KNOXVILLE, TN 37932

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MACTEC Engineering and Consulting, Inc.

1431 Centerpoint Boulevard, Suite 150
Knoxville, TN 37932
(865) 531-1922

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Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

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LIST OF ACRONYMS

µg/L	micrograms per liter
%R	percentage of recovery
CO ₂	carbon dioxide
1,1-DCE	1,1-dichloroethylene
cis-1,2-DCE	cis-1,2-dichloroethylene
trans-1,2-DCE	trans-1,2-dichloroethylene
DO	dissolved oxygen
DPVE	dual-phase vacuum extraction
EPA	Environmental Protection Agency (United States)
gpm	gallons per minute
lbs/hr	pounds per hour
MACTEC	MACTEC Engineering and Consulting, Inc.
mg/L	milligrams per liter
mL/min	milliliters per minute
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
MSD	matrix spike duplicate
ND	not detected (nondetect)
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
ORP	oxidation-reduction potential
PARCC	precision, accuracy, representativeness, completeness, and comparability
QC	quality control
RPD	relative percent difference
SQL	sample quantitation limit
System	dual-phase vacuum extraction and groundwater remedial treatment system
TCE	trichloroethylene
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes activities and results for the second semi-annual sampling event for the year 2004. It also discusses the continued remedial progress of the dual-phase vacuum extraction (DPVE) and bedrock groundwater extraction system (System) since start up in January 2001. This continued remedial evaluation is consistent with the statement of remedial action objectives in Section 2.2 of the approved Remedial Work Plan, April 2000. “The short term criteria (approximately 2 years) to track the effectiveness of the remediation of VOCs [volatile organic compounds] in groundwater is to demonstrate a downward trend in VOC concentrations achieved using a combination of active, passive, and enhanced biodegradation remedial technology approaches.”

The first semi-annual sampling event for 2004 was conducted in June and the second in November/December. A summary of the quarterly sampling event results for 2001, 2002, and 2003 are also included. These activities occurred at the former Taylor Instruments Site – New York State Department of Environmental Conservation (NYSDEC) Site #828028a located at 95 Ames Street in Rochester, New York (Figure 1 in Appendix A), pursuant to a Voluntary Cleanup Agreement.

The site’s remedial progress since January 2001 has been measured by the change in trichloroethylene (TCE) concentrations in on-site monitor wells and System performance data including influent groundwater results and contaminant mass removal quantities to determine when extraction of this mass has reached asymptotic levels. TCE has been used to track remedial progress because it is the primary contaminant of concern remaining at the site.

The operation of the System was modified on May 10, 2004, from continuous operation to intermittent operation (also known as “pulsed pumping”). This modification was made based on the System’s contaminant recovery rate which had reached near-asymptotic conditions under continuous operation. The modified operation was approved by NYSDEC via letter dated January 8, 2004.

Since initial startup of the remediation system in January 2001, over 46.8 million gallons of groundwater have been extracted and treated, resulting in the removal of 3,244 pounds of contaminants from the subsurface soil and groundwater. Overall declines of TCE contamination have occurred in the majority of on-site monitor wells since startup of the system. Additionally, off-site monitor wells have shown no detectable levels of contamination (Haley & Aldrich of New York, 2001a and 2001b).

2.0 SCOPE OF WORK

2.1 NOVEMBER/DECEMBER 2004 SEMI-ANNUAL SAMPLING EVENT

MACTEC Engineering and Consulting, Inc. (MACTEC) personnel performed the November/December sampling event to provide an inclusive set of groundwater analytical data for the second semi-annual period of 2004. Forty-three samples were collected and submitted to Test America, Incorporated (Table 2-1). Forty-three samples were collected and submitted for volatile organic analyses by U.S.

Environmental Protection Agency (EPA) Method 8260B. Of the 43 samples collected, 8 were also submitted for natural biodegradation parameters, which include nitrate by Method 353.2; sulfate by Method 9038; chloride by Method 325.3; total organic carbon by Method 415.1; ferrous iron by Method 3500D; methane, ethane, and ethane by Method RKS175M; carbon dioxide by Method SM4500CO2C; and alkalinity by Method 310.1M. One sample was submitted for selected natural biodegradation parameters, which were alkalinity, chloride, and carbon dioxide. Thirty of the samples were environmental samples collected from monitor wells located on the site. Thirteen of the forty-one samples were associated with quality control efforts. All environmental samples, including field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples, were collected using low-flow peristaltic pumps at flow rates <400 milliliters per minute (mL/min).

A summary of analytical results for the extraction, overburden, and bedrock monitor wells is presented in Tables 3-1, 3-2, and 3-3 and Figures 2 and 3 (Appendix A), respectively. Laboratory reports and chain-of-custody forms for all samples are located in Appendices B and C, respectively. Field measurements of pH, conductivity, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen (DO) were collected during purging. Purge and sample data are presented on the field data records located in Appendix D.

2.2 TREATMENT SYSTEM OPERATION AND MAINTENANCE (O&M)

MACTEC provides full-scale O&M services for the System at the subject site. The System is monitored remotely on a daily basis via telemetry. Key operational data and alarms are accessed through the programmable logic controller via phone line which allows MACTEC personnel in Tennessee to determine the status of the System remotely and to quickly contact O&M personnel based in Rochester to perform maintenance, thus maximizing System runtime. Routine O&M activities are conducted monthly and major activities are conducted quarterly. These activities include the following:

**Table 2-1
Samples and Analysis,
November/December 2004 Sampling Event**

Semi-Annual Progress Report
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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
QATB01	11/30/2004	X		Trip Blank
QAFB01	11/30/2004	X		Field Blank
QARB01	11/30/2004	X		Rinsate Blank
W-2	11/30/2004	X	X ³	Environmental Sample
TW-04	11/30/2004	X	X ²	Environmental Sample
TW-17	11/30/2004	X	X ²	Environmental Sample
TW-20	12/1/2004	X	X ²	Environmental Sample
TW-07	12/1/2004	X	X ²	Environmental Sample
OB-06	12/1/2004	X		Environmental Sample
OB-09	12/1/2004	X	X ²	Environmental Sample
OB-07	12/1/2004	X	X ²	Environmental Sample
OB-07 (MS)	12/1/2004	X		Matrix Spike
OB-07 (MSD)	12/1/2004	X		Matrix Spike Duplicate
W-5	12/2/2004	X	X ²	Environmental Sample
W-5 (DUP)	12/2/2004	X		Duplicate
TW-09	12/2/2004	X	X ²	Environmental Sample
BR-08	12/2/2004	X		Environmental Sample
BR-17	12/2/2004	X		Environmental Sample
BR-03	12/3/2004	X		Environmental Sample
BR-14	12/3/2004	X		Environmental Sample
BR-01	12/3/2004	X		Environmental Sample
BR-02	12/3/2004	X		Environmental Sample
BR-07	12/4/2004	X		Environmental Sample
BR-07 (DUP)	12/4/2004	X		Duplicate
BR-12	12/4/2004	X		Environmental Sample
BR-12 (MS)	12/4/2004	X		Matrix Spike
BR-12 (MSD)	12/4/2004	X		Matrix Spike Duplicate
QATB02	12/3/2004	X		Trip Blank
QAFB02	12/3/2004	X		Field Blank
QARB02	12/3/2004	X		Rinsate Blank
Trip Blank	12/2/2004	X		Trip Blank

See notes at end of table.

**Table 2-1 (Continued)
Samples and Analysis,
December 2004 Sampling Event**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
BR-13	12/4/2004	X		Environmental Sample
W-6	12/3/2004	X		Environmental Sample
BR-15	12/4/2004	X		Environmental Sample
BR-10	12/4/2004	X		Environmental Sample
OB-04	12/5/2004	X		Environmental Sample
BR-04	12/5/2004	X		Environmental Sample
BR-05	12/5/2004	X		Environmental Sample
BR-09	12/5/2004	X		Environmental Sample
OB-08	12/6/2004	X		Environmental Sample
BR-11	12/6/2004	X		Environmental Sample
OB-05	12/5/2004	X		Environmental Sample
BR-06	12/6/2004	X		Environmental Sample

¹ VOCs analyzed by Method 8260B.

² Natural biodegradation parameters include nitrate by Method 353.2, sulfate by Method 9038, chloride by Method 325.3, total organic carbon by Method 415.1, sulfide by Method 376.1, ferrous iron by Method 3500D, methane by Method RSK175M, ethane by Method RSK175M, ethene by Method RSK175M, carbon dioxide by Method SM4500CO2C, and alkalinity by Method 310.1M.

³ Analyzed for alkalinity by Method 310.1M, chloride by Method 325.3, and carbon dioxide by Method SM4500CO2C.

Notes: DUP = duplicate
 ID = identification
 MS = matrix spike
 MSD = matrix spike duplicate
 VOC = volatile organic compound

Prepared by J. Deatherage on 1-31-05
Checked by M. Vandergriff on 2-4-05

- Monthly
 - Collecting System operational data including line pressures, equipment runtime, flow rates, vacuum levels, and other pertinent data.
 - Checking operation of all equipment for vibration or unusual noise, leaks, and unusual operation.
 - Checking filters, operating fluid levels, and cleanliness of vacuum and transfer pumps and groundwater treatment components.
 - Collecting System performance samples. Performance samples are collected from each vacuum pump and air stripper exhaust stack, and the influent and effluent of the air stripper.

- Quarterly
 - Completing all monthly activities.
 - Collecting water levels from site monitor wells.
 - Checking pump motors for wear.
 - Checking all electrical components for proper operation.
 - Cleaning groundwater treatment equipment.
 - Collecting System compliance samples.
 - Collecting compliance samples from the effluent of the System prior to discharge to the Monroe County Pure Waters Sewer System.

The O&M manual for the System contains the above information and full details of all equipment and components (Harding ESE, 2001).

To initiate intermittent operation, the System was shut down on October 25, 2004. Following the December 2004 semi-annual sampling event, the System will be restarted on January 12, 2005.

3.0 SUMMARY OF RESULTS

Presented below are the results of the groundwater sampling events conducted from November 2000 to December 2004. Also included is a discussion of contaminant trends from the baseline event (November/December 2000) through fourteen subsequent events.

The wells sampled during the second semi-annual (November/December 2004) event are divided into four categories. These categories are (1) the North and South TCE Source Areas; (2) Upgradient, which includes wells upgradient of the source areas; (3) Downgradient Perimeter, which includes wells downgradient of the source areas; and (4) Deep Bedrock, which includes BR-08 and BR-14. Well construction information is provided in Appendix E.

A summary of wells sampled and the analyses performed are found in Table 2-1. The baseline sampling event is summarized in Table 3-1. The sample results for the November/December 2004 sampling event are summarized in Tables 3-2 and 3-3. These tables present only detected volatile organic compound (VOC) results. Sample VOC results are also presented in “flag boxes” in Appendix A, Figures 2 and 3, representing overburden monitor wells and bedrock monitor wells. The following discussions will focus on TCE concentrations in the site’s monitor wells. TCE concentration trend graphs for both overburden and bedrock monitor wells are provided in Appendix F. These graphs present data from the baseline, 2001, 2002, 2003, and 2004 sampling events. Table 3-4 presents a summary of the decline of TCE concentrations over time in monitor wells. Comprehensive results can be found in the laboratory reports located in Appendix B.

3.1 NORTH AND SOUTH TCE SOURCE AREAS

Overburden Monitor Wells (South TCE Source Area)

Monitor wells OB-04 and OB-06 are both located within the South TCE Source Area while OB-07 is within the plume. Comprehensive results for these wells are presented in Table 3-2.

TCE concentrations in monitor wells OB-04 increased from levels detected in June 2004, but have continued to be below the highest results reported during baseline or post baseline sampling events, resulting in overall declines of 99 percent (Table 3-4). OB-06 concentrations of TCE continued to decrease resulting in a 99 percent decrease from baseline levels (Table 3-4).

**Table 3-1
Summary of Extraction Well VOC Results for the
Baseline Sampling Event**

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
EW-N-1*	11/10/00	2,400	93	28 J	--	--
EW-N-2*	11/10/00	7,200	1,100	--	--	--
EW-N-3*	11/10/00	13,000	490 J	--	--	--
EW-N-4*	11/11/00	840	31	--	--	--
EW-N-5*	11/11/00	640	--	--	--	--
EW-N-6*	11/11/00	6,800	130 J	--	--	--
EW-S-1S*	11/10/00	160	16 J	--	--	--
EW-S-1S (DUP)*	11/10/00	170	18 J	--	--	--
EW-S-1D*	11/10/00	200,000	11,000	--	--	--
EW-S-2*	11/08/00	360	180	18	180	4.5 J
EW-S-3*	10/27/00	1,100	60	--	--	--
EW-S-4*	10/26/00	60,000	36,000	--	--	--
EW-S-5*	10/27/00	590,000	--	--	--	--
EW-S-6*	10/27/00	13,000	1,200	--	--	--
EW-S-7*	11/08/00	130,000	1,900 J	--	--	--
EW-S-8*	10/27/00	570,000	--	--	--	--
EW-S-9*	11/08/00	16,000	460 J	--	--	--
EW-S-10*	11/09/00	--	--	--	--	--
EW-S-11*	11/08/00	--	--	--	--	--
EW-S-12*	11/08/00	--	--	--	--	--
EW-S-13*	11/09/00	--	--	--	--	--
EW-S-14*	11/09/00	--	--	--	--	--
EW-S-15*	11/09/00	--	--	--	--	--
EW-S-16*	11/09/00	--	--	--	--	--
BREW-N-1*	11/19/00	1,000	53	1.5 J	--	--
BREW-S-1*	11/19/00	250	140	3.1 J	--	--

Notes: -- = no detections
 * = one-time sampling event
 µg/L = micrograms per liter
 1,1-DCE = 1,1-dichloroethylene
 cis-1,2-DCE = cis-1,2-dichloroethylene
 DUP = duplicate

ID = identification
 J = estimated value
 TCE = trichloroethylene
 trans-1,2-DCE = trans-1,2-dichloroethylene
 VOC = volatile organic compound

**Table 3-2
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events**

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-04	11/19/00	70,000	2,900	--	--	--
OB-04	03/24/01	150	3.2 J	--	--	--
OB-04	06/18/01	39,000	21,000	--	--	--
OB-04	09/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-04	12/17/01	71,500	56,000	170	108	10.2
OB-04	03/12/02	65,600	1,640	16.6	3.8	--
OB-04	06/09/02	3,650	554	--	--	--
OB-04	09/23/02	3,760	1,950	7.5	4.9	2
OB-04	12/09/02	46.3	5.5	--	--	--
OB-04	03/22/03	11.3	1.3	--	--	--
OB-04	06/13/03	41.5	6.7	--	--	--
OB-04	09/21/03	2,780	125	1.9	--	--
OB-04	12/14/03	23.3	3	--	--	--
OB-04	06/19/04	394	87.2	1.3	--	--
OB-04	12/05/04	626	124	1.6	--	--
OB-05	11/19/00	25,000	4,600	--	--	350
OB-05	03/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	09/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	12/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	03/02	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/10/02	52.8	--	--	--	--
OB-05	09/23/02	489	15	--	--	--
OB-05	12/09/02	604	13	--	--	--
OB-05	03/03	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/13/03	97.2	2.5	--	--	--
OB-05	09/03	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	12/14/03	135	2.6	--	--	--
OB-05	06/20/04	65.4	1.2	--	--	--
OB-05	12/05/04	172	4.0	--	--	--
OB-06	11/17/00	2,600	60	--	--	--
OB-06 (DUP)	11/17/00	3,300	80 J	--	--	--
OB-06	03/21/01	540	--	--	--	--
OB-06	06/15/01	720	12 J	--	--	--
OB-06	09/13/01	5,600	240	9.0 J	--	--
OB-06	12/13/01	637	13.7	--	--	--
OB-06	03/08/02	526	7.8	--	--	--
OB-06	06/07/02	184	2.8	--	--	--
OB-06	09/20/02	386	10.1	--	--	--
OB-06	12/06/02	100	1.5	--	--	--
OB-06	03/20/03	84.9	1.5	--	--	--
OB-06	06/11/03	52.7	1.1	--	--	--
OB-06	09/18/03	242	2.6	--	--	--
OB-06	12/11/03	60	1	--	--	--
OB-06	06/17/04	38.6	--	--	--	--
OB-06	12/02/04	31.9	1.4	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-07	11/16/00	--	--	--	--	--
OB-07	03/28/01	7.5	--	--	--	--
OB-07	06/17/01	10 J	--	--	--	--
OB-07	09/17/01	17	1.8 J	--	--	--
OB-07	12/17/01	21.8	7	--	--	--
OB-07	03/07/02	4.2	--	--	--	--
OB-07	06/06/02	7.1	--	--	--	--
OB-07	09/19/02	12.4	--	--	--	--
OB-07	12/05/02	10.2	--	--	--	--
OB-07	03/19/03	--	--	--	--	--
OB-07	06/11/03	6.2	--	--	--	--
OB-07	09/17/03	11.2	--	--	--	--
OB-07	12/10/03	10.7	--	--	--	--
OB-07	06/16/04	10.2	--	--	--	--
OB-07	12/01/04	11.0	--	--	--	--
OB-08	11/16/00	40,000	390 J	--	--	--
OB-08	03/20/01	29,000	390 J	--	--	--
OB-08	06/19/01	15,000	240 J	--	--	--
OB-08	09/18/01	27,000	560 J	--	--	--
OB-08	12/18/01	500	9.3	--	--	--
OB-08	03/12/02	15,750	208	8.6	2.7	--
OB-08	06/10/02	5,370	--	--	--	--
OB-08	09/24/02	5,440	110	3.6	--	--
OB-08	12/09/02	8,050	94.2	5	1.3	--
OB-08	03/24/03	3,480	37.3	2.2	--	--
OB-08	06/13/03	2,250	15.3	1.2	--	--
OB-08	09/22/03	2,780	32.1	3.1	--	--
OB-08	12/15/03	1,360	10.8	1.5	--	--
OB-08	06/20/04	725	13.1	2.5	--	--
OB-08	12/06/04	429	5.80	--	--	--
OB-09	11/16/00	180	14	--	--	--
OB-09	03/26/01	150	16	--	--	--
OB-09	06/17/01	150	17	--	--	--
OB-09	09/15/01	180	23	3.5 J	--	--
OB-09	12/15/01	141	20.5	2.3	--	--
OB-09	03/06/02	117	12	--	--	--
OB-09	06/05/02	86	7.4	--	--	--
OB-09	09/18/02	153	16.6	1.6	--	--
OB-09	12/05/02	88.5	9.2	--	--	--
OB-09	03/19/03	44.2	4.6	--	--	--
OB-09	06/11/03	70.7	8.2	--	--	--
OB-09	09/17/03	95.9	10.3	--	--	--
OB-09	12/10/03	61.1	3.7	--	--	--
OB-09	06/16/04	57.5	3.1	--	--	--
OB-09	12/01/04	58.3	2.5	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
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Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
TW-01	10/24/00	--	--	--	--	--
TW-01 ¹	03/01	NS	NS	NS	NS	NS
TW-01 ¹	06/01	NS	NS	NS	NS	NS
TW-01 ¹	09/01	NS	NS	NS	NS	NS
TW-01 ¹	12/01	NS	NS	NS	NS	NS
TW-01 ¹	03/02	NS	NS	NS	NS	NS
TW-01 ¹	06/02	NS	NS	NS	NS	NS
TW-01 ¹	09/02	NS	NS	NS	NS	NS
TW-01 ¹	03/03	NS	NS	NS	NS	NS
TW-01 ¹	03/03	NS	NS	NS	NS	NS
TW-01 ¹	09/03	NS	NS	NS	NS	NS
TW-01 ¹	12/03	NS	NS	NS	NS	NS
TW-01 ¹	06/04	NS	NS	NS	NS	NS
TW-01 ¹	12/04	NS	NS	NS	NS	NS
TW-04	10/24/00	42	79	--	--	--
TW-04	03/22/01	14	16	--	--	--
TW-04	06/15/01	--	--	--	--	--
TW-04	09/14/01	27	38	--	--	--
TW-04	12/13/01	51.1	19.4	--	--	--
TW-04	03/05/02	51	3.7	--	--	--
TW-04	06/04/02	20.7	--	--	--	--
TW-04	09/17/02	21.2	7.1	--	--	--
TW-04	12/04/02	42.5	5.5	--	--	--
TW-04	03/18/03	--	--	--	--	--
TW-04	06/10/03	19.3	--	--	--	--
TW-04	09/16/03	29.2	3.1	--	--	--
TW-04	12/09/03	49.8	1.1	--	--	--
TW-04	06/15/04	12.7	--	--	--	--
TW-04	11/30/04	40.0	--	--	--	--
TW-07	10/25/00	28	7.2	28	--	--
TW-07	03/29/01	--	--	1.2 J	--	--
TW-07	06/16/01	27	3.9 J	13	--	--
TW-07	09/15/01	74	11	18	--	--
TW-07	12/15/01	42.6	7.7	21.4	--	--
TW-07	03/06/02	18.7	2.6	6.4	--	--
TW-07	06/05/02	5	--	--	--	--
TW-07	09/18/02	32.9	5.1	12.4	--	--
TW-07	12/04/02	46	6.3	15.4	--	--
TW-07	03/19/03	14.2	2.1	5.8	--	--
TW-07	06/10/03	8.1	--	1.1	--	--
TW-07	09/17/03	20.6	3.8	9.8	--	--
TW-07	12/10/03	21	2.9	6	--	--
TW-07	06/16/04	16.2	1.8	3.7	--	--
TW-07	12/01/04	23.0	5.6	8.4	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
TW-09	10/24/00	230	36	--	--	--
TW-09	03/27/01	120	1.9 J	--	--	--
TW-09	06/16/01	200	7.4	--	--	--
TW-09	09/16/01	150	9.6	--	--	--
TW-09	12/15/01	110	4	--	--	--
TW-09	03/06/02	55.4	2	--	--	--
TW-09	06/05/02	36.5	--	--	--	--
TW-09	09/19/02	91.5	4	--	--	--
TW-09	12/05/02	38	--	--	--	--
TW-09	03/19/03	--	--	--	--	--
TW-09	06/11/03	29.4	--	--	--	--
TW-09	09/17/03	77	6.4	--	--	--
TW-09	12/10/03	36.8	1.2	--	--	--
TW-09	06/16/04	43.1	1.0	--	--	--
TW-09	12/02/04	46.2	2.4	--	--	--
TW-13	11/16/00	--	--	--	--	--
TW-13	03/20/01	--	--	--	--	--
TW-13	06/14/01	--	--	--	--	--
TW-13	09/12/01	--	--	--	--	--
TW-13	12/12/01	--	--	--	--	--
TW-13	03/08/02	--	--	--	--	--
TW-13	06/07/02	--	--	--	--	--
TW-13	09/19/02	--	--	--	--	--
TW-13	12/06/02	--	--	--	--	--
TW-13 ⁴	03/03	NS	NS	NS	NS	NS
TW-13 ⁴	06/03	NS	NS	NS	NS	NS
TW-13 ⁴	09/03	NS	NS	NS	NS	NS
TW-13 ⁴	12/03	NS	NS	NS	NS	NS
TW-13 ⁴	06/04	NS	NS	NS	NS	NS
TW-13 ⁴	12/04	NS	NS	NS	NS	NS
TW-17	11/17/00	1,000	7.9 J	--	--	--
TW-17	03/23/01	530	--	--	--	--
TW-17	06/16/01	490	--	--	--	--
TW-17	09/14/01	740	--	--	--	--
TW-17	12/14/01	515	--	--	--	--
TW-17	03/05/02	339	--	--	--	--
TW-17	06/04/02	393	--	--	--	--
TW-17	09/18/02	666	--	--	--	--
TW-17	12/04/02	390	--	--	--	--
TW-17	03/18/03	379	--	--	--	--
TW-17	06/10/03	282	--	--	--	--
TW-17	09/16/03	435	--	--	--	--
TW-17	12/09/03	441	--	--	--	--
TW-17	06/15/04	280	--	--	--	--
TW-17	11/30/04	407	6.9	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
TW-20	10/25/00	5.2	--	--	--	--
TW-20	03/27/01	12	--	--	--	--
TW-20	06/16/01	2.9 J	--	--	--	--
TW-20	09/14/01	--	--	--	--	--
TW-20	12/14/01	3.1	--	--	--	--
TW-20	03/06/02	2.4	--	--	--	--
TW-20	06/05/02	2.7	--	--	--	--
TW-20	09/18/02	--	--	--	--	--
TW-20	12/04/02	11.6	--	--	--	--
TW-20	03/19/03	2.4	--	--	--	--
TW-20	06/10/03	--	--	--	--	--
TW-20	09/17/03	5.0	--	--	--	--
TW-20	12/10/03	14.8	--	--	--	--
TW-20	06/15/04	--	--	--	--	--
TW-20	12/01/04	--	--	--	--	--
W-2	10/21/00	--	--	--	--	--
W-2 ¹	03/01	NS	NS	NS	NS	NS
W-2 ¹	06/01	NS	NS	NS	NS	NS
W-2 ¹	09/01	NS	NS	NS	NS	NS
W-2 ¹	12/01	NS	NS	NS	NS	NS
W-2 ¹	03/02	NS	NS	NS	NS	NS
W-2 ¹	06/02	NS	NS	NS	NS	NS
W-2 ¹	09/02	NS	NS	NS	NS	NS
W-2 ¹	12/02	NS	NS	NS	NS	NS
W-2 ³	03/03	NS	NS	NS	NS	NS
W-2 ³	06/03	NS	NS	NS	NS	NS
W-2 ³	09/03	NS	NS	NS	NS	NS
W-2 ³	12/09/03	--	--	--	--	--
W-2 ³	06/04	NS	NS	NS	NS	NS
W-2 ³	11/30/04	--	--	--	--	--
W-4	11/17/00	--	--	--	--	--
W-4	03/22/01	1.6 J	--	--	--	--
W-4	06/15/01	1.1 J	--	--	--	--
W-4	09/13/01	--	--	--	--	--
W-4	12/12/01	--	--	--	--	--
W-4	03/08/02	--	--	--	--	--
W-4	06/07/02	--	--	--	--	--
W-4	09/19/02	--	--	--	--	--
W-4	12/06/02	1	--	--	--	--
W-4 ⁴	03/03	NS	NS	NS	NS	NS
W-4 ⁴	06/03	NS	NS	NS	NS	NS
W-4 ⁴	09/03	NS	NS	NS	NS	NS
W-4 ⁴	12/03	NS	NS	NS	NS	NS
W-4 ⁴	06/04	NS	NS	NS	NS	NS
W-4 ⁴	12/04	NS	NS	NS	NS	NS

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
W-5	11/16/00	--	27	11	--	--
W-5	03/23/01	120	25	8.1	--	--
W-5	06/18/01	62	23	9.6	--	--
W-5	09/17/01	64	9.1	6.5	--	--
W-5 (DUP)	09/17/01	62	11	7.3	--	--
W-5	12/17/01	1,435	39.5	9	--	--
W-5 (DUP)	12/17/01	1,780	36.2	8.5	--	--
W-5	03/07/02	737	21.6	3.5	--	--
W-5 (DUP)	03/07/02	607	23.2	3.9	--	--
W-5	06/06/02	155	15.7	--	--	--
W-5 (DUP)	06/06/02	150	13.8	--	--	--
W-5	09/19/02	960	49.6	--	--	--
W-5 (DUP)	09/19/02	676	48.5	4.7	--	--
W-5	12/05/02	777	52	3.6	--	--
W-5 (DUP)	12/05/02	843	51.7	4	--	--
W-5	03/20/03	262	132	3.4	--	--
W-5 (DUP)	03/20/03	232	119	3.3	--	--
W-5	06/11/03	234	128	5	--	--
W-5 (DUP)	06/11/03	234	152	5.1	--	--
W-5	09/18/03	510	129	4	--	--
W-5 (DUP)	09/18/03	444	112	3.9	--	--
W-5	12/11/03	550	127	3.5	--	--
W-5 (DUP)	12/11/03	520	118	3.4	--	--
W-5	06/16/04	348	98.9	5.4	--	--
W-5 (DUP)	06/16/04	360	71.6	4.6	--	--
W-5	12/02/04	569	125	4.7	--	--
W-5 (DUP)	12/02/04	725	89.4	4.4	--	--
W-6	10/24/00	--	--	--	--	--
W-6 ²	03/01	NS	NS	NS	NS	NS
W-6 ²	06/01	NS	NS	NS	NS	NS
W-6	9/13/01	--	--	--	--	--
W-6	12/12/01	--	--	--	--	--
W-6	03/09/02	--	3	--	--	--
W-6	06/08/02	--	10.3	--	--	--
W-6	09/21/02	--	9.6	--	--	--
W-6	12/07/02	--	8.1	--	--	--
W-6	03/22/03	--	5.7	--	--	--
W-6	06/13/03	--	9.7	1.4	--	--
W-6	09/20/03	--	14.2	--	--	--
W-6	12/11/03	1.7	4.6	--	--	--
W-6	06/19/04	--	3.2	--	--	--
W-6	12/03/04	1.0	7.1	1.0	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
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- ¹ Will not be sampled during quarterly events.
- ² W-6 was not sampled due to obstruction.
- ³ Sampled annually beginning in December 2003 based on recommendations made in the *Quarterly Progress Report, Fourth Quarter 2002 and 2-Year Progress Evaluation*, March (MACTEC, 2003).
- ⁴ Will not be sampled during quarterly sampling events based on based on recommendations made in the *Quarterly Progress Report, Fourth Quarter 2002 and 2-Year Progress Evaluation*, March (MACTEC, 2003).

Notes: -- = no detections
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
DUP = duplicate
ID = identification
J = estimated value
NS = not sampled
TCE = trichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
VOC = volatile organic compound

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

**Table 3-3
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-01	11/17/00	180	550	4.3 J	--	3.5 J
BR-01	03/21/01	320	34	2.2 J	--	--
BR-01 (DUP)	03/21/01	320	35	2.4 J	--	--
BR-01	06/16/01	270	59	4.4 J	--	--
BR-01	09/14/01	31	170	16	--	--
BR-01	12/14/01	63.8	77.5	2	--	--
BR-01	03/09/02	47.3	5.5	1.6	--	--
BR-01	06/08/02	85.7	10.1	3.2	--	--
BR-01	09/20/02	107	16	4	--	--
BR-01	12/07/02	14.3	83	3.8	--	--
BR-01	03/21/03	25.8	2.1	1	--	--
BR-01	06/12/03	60.9	4.6	2.8	--	--
BR-01	09/19/03	102	11.4	1.7	--	--
BR-01	12/12/03	127	61.7	20.6	--	--
BR-01	06/18/04	551	42	6.1	--	--
BR-01	12/03/04	65	4.3	1.4	--	--
BR-02	11/18/00	1,800	540	31 J	--	--
BR-02	03/21/01	1,200	95	--	--	--
BR-02	06/17/01	1,000	94	27 J	--	--
BR-02	09/15/01	7,000	1,500	63	31 J	--
BR-02	12/15/01	6,500	1,830	59.8	30.3	19.6
BR-02	03/09/02	588	79.6	20.8	1.2	--
BR-02	06/08/02	568	122	2.2	--	--
BR-02	09/21/02	768	518	24.4	4.6	18.7
BR-02	12/07/02	694	172	29.8	--	5.6
BR-02	03/21/03	4,000	19,100	154	156	64.9
BR-02	06/13/03	710	17,900	120	122	68.1
BR-02	09/18/03	372	245	23.3	--	--
BR-02	12/12/03	324	58.2	18.2	--	--
BR-02	06/18/04	450	257	33.8	2.8	2.3
BR-02	12/03/04	647	242	23.4	1.4	1.4
BR-03	11/18/00	440	99	1.2 J	2.2 J	--
BR-03	03/22/01	810	12 J	--	3.2 J	--
BR-03	06/15/01	500	20 J	--	--	--
BR-03	09/14/01	330	7.8 J	--	--	--
BR-03	12/13/01	780	7.6	--	2.2	--
BR-03	03/08/02	599	9.8	--	2.1	--
BR-03	06/07/02	854	19.7	--	2.8	--
BR-03	09/20/02	370	6.5	--	--	--
BR-03	12/07/02	821	13.5	--	--	--
BR-03	03/21/03	590	7.7	--	2	--
BR-03	06/12/03	632	25.3	1.9	3	--
BR-03	09/18/03	1,150	10.4	1.5	3.1	--
BR-03	12/12/03	--	--	--	--	--
BR-03	06/17/04	446	17.0	1.1	1.5	--
BR-03	12/03/04	60.6	27.0	--	1.0	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-04	11/19/00	10,000	600	140	17 J	25 J
BR-04	03/24/01	9,000	400	95 J	--	--
BR-04	06/19/01	4,300	320	61 J	--	--
BR-04	09/17/01	5,000	420	100 J	--	--
BR-04	12/17/01	5,700	430	79.9	9	27.4
BR-04	03/12/02	5,750	384	77	8.1	23.4
BR-04	06/10/02	4,570	338	49	--	--
BR-04	09/23/02	3,310	551	63.1	8.3	32.2
BR-04	12/09/02	5,300	535	77.6	8.3	27.1
BR-04	03/23/03	4,630	473	52	6.8	14.8
BR-04	06/13/03	302	1,280	19.5	3.6	1.2
BR-04	09/21/03	2,540	560	61	5.4	32.2
BR-04	12/14/03	3,650	507	51.9	6.2	14.3
BR-04	06/19/04	102	1,420	45.8	6.4	3.0
BR-04	12/05/04	4,090	2,810	90.0	15.3	8.3
BR-05	11/19/00	4,800	1,200	130	--	160
BR-05	03/25/01	5,800	850	120 J	--	160
BR-05	06/19/01	4,300	1,600	130	37 J	290
BR-05 (DUP)	06/19/01	3,700	1,500	--	--	270
BR-05	09/18/01	2,500	1,800	150	38 J	420
BR-05	12/18/01	3,420	2,480	153.5	41.5	290.5
BR-05	03/12/02	3,050	1,734	164	40.2	326
BR-05	06/10/02	4,470	118	23	25	176
BR-05	09/23/02	2,950	1,720	138	29.7	434
BR-05	12/09/02	3,140	2,240	170	49.1	390
BR-05	03/23/03	2,440	1,040	113	20	184
BR-05	06/13/03	56.8	216	15.3	1.9	38.7
BR-05	09/21/03	2,380	1,600	151	17.9	380
BR-05	12/14/03	1.2	3.7	--	--	--
BR-05	06/20/04	42.3	116	10.4	1.4	17.5
BR-05	12/05/04	1.7	12.8	--	--	2.1
BR-06	11/17/00	--	--	--	--	--
BR-06	03/22/01	--	--	--	--	--
BR-06	06/15/01	1.6 J	--	--	--	--
BR-06	09/12/01	--	--	--	--	--
BR-06	12/12/01	--	--	--	--	--
BR-06	03/09/02	--	--	--	--	--
BR-06	06/08/02	--	--	--	--	--
BR-06	09/21/02	--	--	--	--	--
BR-06	12/08/02	--	--	--	--	--
BR-06 ¹	03/03	NS	NS	NS	NS	NS
BR-06 ¹	06/03	NS	NS	NS	NS	NS
BR-06 ¹	09/03	NS	NS	NS	NS	NS
BR-06 ¹	12/09/03	--	--	--	--	--
BR-06 ¹	06/04	NS	NS	NS	NS	NS
BR-06 ¹	12/06/04	--	2.6	--	--	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

Semi-Annual Progress Report
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Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-07	11/18/00	7.4	29	10	--	220
BR-07	03/23/01	3.4 J	34	13	--	210
BR-07	06/14/01	2.7 J	33	13	--	200
BR-07 (DUP)	06/14/01	2.2 J	34	12	--	200
BR-07	09/12/01	6.2	32	16	--	180
BR-07 (DUP)	09/12/01	5.0	31	14	--	180
BR-07	12/12/01	4.7	28.5	10.2	--	101
BR-07 (DUP)	12/12/01	4.6	29.3	10.3	--	104
BR-07	03/11/02	--	9	4.3	--	33.6
BR-07 (DUP)	03/11/02	--	8.8	4.4	--	33.7
BR-07	06/08/02	4.9	32.9	14.4	--	119
BR-07 (DUP)	06/08/02	4.4	31	--	--	110
BR-07	09/21/02	4	27.3	14.8	--	90.4
BR-07 (DUP)	09/21/02	2.8	28.5	15.2	--	89.5
BR-07	12/08/02	--	17.6	10.1	--	64.6
BR-07 (DUP)	12/08/02	--	17.8	10.4	--	65.9
BR-07	03/21/03	3.9	35.9	18	--	97.5
BR-07 (DUP)	03/21/03	3.9	36	18.8	--	102
BR-07	06/13/03	2.3	30.7	15.8	--	101
BR-07 (DUP)	06/13/03	2.2	31.9	16	--	99.1
BR-07	09/19/03	1.1	12.8	8.1	--	55.9
BR-07 (DUP)	09/19/03	--	15.4	9.5	--	66.3
BR-07	12/12/03	--	13.7	8.5	--	46
BR-07 (DUP)	12/12/03	NA ³	NA ³	NA ³	NA ³	NA ³
BR-07	06/18/04	--	3.4	1.0	--	6.2
BR-07 (DUP)	06/18/04	--	3.4	1.0	--	6.8
BR-07	12/04/04	--	4.6	3.0	--	12.4
BR-07 (DUP)	12/04/04	--	4.9	3.4	--	13.9
BR-08 (Deep)	11/19/00	540	44	5.2 J	--	7.0 J
BR-08 (Deep)	03/24/01	1,100	320	6.7 J	--	--
BR-08 (Deep)	06/15/01	720	210	--	--	--
BR-08 (Deep)	09/13/01	830	250	--	--	--
BR-08 (Deep)	12/13/01	649	246	3	--	3.1
BR-08 (Deep)	03/08/02	621	242	3	--	4
BR-08 (Deep)	06/07/02	528	212	2.8	--	--
BR-08 (Deep)	09/20/02	463	220	2.8	--	--
BR-08 (Deep)	12/06/02	398	222	3.3	1.2	4.5
BR-08 (Deep)	03/20/03	256	150	--	--	--
BR-08 (Deep)	06/12/03	289	184	2.7	--	--
BR-08 (Deep)	09/18/03	322	242	8.7	--	--
BR-08 (Deep)	12/11/03	384	345	42	2.2	7.3
BR-08 (Deep)	06/17/04	106	188	18.7	--	2.9
BR-08 (Deep)	12/02/04	134	166	18.9	1.0	3.6

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-09	11/18/00	13,000	190 J	--	--	--
BR-09	03/28/01	9,500	100 J	--	--	--
BR-09	06/19/01	1,500	36 J	--	--	--
BR-09	09/18/01	5,500	68 J	--	--	--
BR-09	12/18/01	6,000	60	2.9	--	--
BR-09	03/12/02	2,420	302	5.4	--	--
BR-09	06/10/02	6,530	--	--	--	--
BR-09	09/23/02	4,590	64.3	5.1	--	--
BR-09	12/09/02	9,030	95.3	7.3	1.3	--
BR-09	03/23/03	343	303	2.1	1	--
BR-09	06/13/03	57.5	14.9	--	--	--
BR-09	09/22/03	4,330	43.1	3.2	--	--
BR-09	12/15/03	1.7	199	1.5	--	--
BR-09	06/20/04	390	110	--	--	--
BR-09	12/05/04	16.4	6.7	--	--	--
BR-10	11/18/00	4,000	450	27 J	--	--
BR-10	03/28/01	4,700	980	110 J	--	--
BR-10	06/18/01	8,500	1,000	--	--	--
BR-10	09/17/01	8,700	1,700	160 J	--	--
BR-10	12/16/01	5,350	1,200	82.8	3.4	5.6
BR-10	03/11/02	3,745	1,090	78.2	3.9	5.5
BR-10	06/09/02	5,100	1,290	64.6	4.7	5.3
BR-10	09/22/02	--	120	9.8	--	--
BR-10	12/09/02	3,060	750	60.1	2.3	--
BR-10	03/22/03	2,580	886	42.2	2.5	3.1
BR-10	06/13/03	2,950	1,080	61.7	3.2	5.1
BR-10	09/21/03	2,250	400	49.4	2	16.1
BR-10	12/13/03	1,420	442	36.4	1.4	8.8
BR-10	06/19/04	1,520	507	62.9	2.9	6.8
BR-10	12/04/04	1,270	436	41.2	1.8	5.0
BR-11	11/18/00	1,400	320	52	--	13 J
BR-11	03/28/01	44,000	260	120	21	--
BR-11 (DUP)	03/28/01	52,000	270	120	19 J	21
BR-11	06/20/01	39,000	660 J	--	--	--
BR-11	09/18/01	60,000	--	--	--	--
BR-11	12/18/01	140	339	108	2	35.4
BR-11	03/13/02	33,300	370	106	10.9	28.1
BR-11	06/10/02	874	52	--	--	32
BR-11	09/24/02	37,200	440	82.4	12.2	18
BR-11	12/09/02	34,100	1,650	80.1	25.8	31.1
BR-11	03/24/03	26,600	338	--	8.1	25.7
BR-11	06/13/03	5,890	313	52.6	3	23.8
BR-11	09/22/03	22,700	400	65.7	7.7	28.3
BR-11	12/15/03	17.6	320	60.2	1.9	39
BR-11	06/20/04	181	238	49.7	2.2	20.8
BR-11	12/06/04	2.7	190	33.0	--	15.1

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
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2004 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-12	11/19/00	200	8.1	--	--	--
BR-12	03/25/01	130	21	--	--	--
BR-12	06/17/01	99	26	--	--	--
BR-12	09/15/01	27	37	2.1 J	--	--
BR-12	12/16/01	--	3	--	--	--
BR-12	03/11/02	7.4	15.3	--	--	--
BR-12	06/09/02	17.4	9.6	--	--	--
BR-12	09/22/02	3.5	23.8	--	--	--
BR-12	12/08/02	--	28.6	--	--	--
BR-12	03/22/03	--	27.5	--	--	--
BR-12	06/13/03	--	18.3	--	--	--
BR-12	09/20/03	--	20.6	--	--	--
BR-12	12/12/03	--	2.2	--	--	--
BR-12	06/18/04	1.3	6.1	--	--	--
BR-12	12/04/04	1.0	5.1	--	--	--
BR-13	11/19/00	2.5 J	--	--	--	--
BR-13	03/25/01	3,200 J	150	14	1.7 J	1 J
BR-13	06/18/01	3,100	160	--	--	--
BR-13	09/16/01	2,600	160	--	--	--
BR-13	12/16/01	156	14.6	--	--	--
BR-13	03/11/02	132	23.7	--	--	--
BR-13	06/09/02	1,980	558	11.2	4.2	3.4
BR-13	09/22/02	3,240	800	22	6	5.1
BR-13	12/08/02	2.8	--	--	--	--
BR-13	03/22/03	--	--	--	--	--
BR-13	06/13/03	61.2	81	2.3	1	2.2
BR-13	09/20/03	3	8.5	--	--	--
BR-13	12/13/03	--	--	--	--	--
BR-13	06/19/04	--	--	--	--	--
BR-13	12/04/04	--	--	--	--	--
BR-14 (Deep)	11/19/00	--	1.2 J	--	--	--
BR-14 (Deep)	03/23/01	1.2 J	--	--	--	--
BR-14 (Deep)	06/16/01	--	--	--	--	--
BR-14 (Deep)	09/13/01	--	--	--	--	--
BR-14 (Deep)	12/14/01	2.2	--	--	--	--
BR-14 (Deep)	03/09/02	--	--	--	--	--
BR-14 (Deep)	06/08/02	--	--	--	--	--
BR-14 (Deep)	09/20/02	--	--	--	--	--
BR-14 (Deep)	12/07/02	--	--	--	--	--
BR-14 (Deep)	03/21/03	--	--	--	--	--
BR-14 (Deep)	06/12/03	--	--	--	--	--
BR-14 (Deep)	09/19/03	--	--	--	--	--
BR-14 (Deep)	12/12/03	148	17.6	--	--	--
BR-14 (Deep)	06/18/04	--	--	--	--	--
BR-14 (Deep)	12/03/04	--	--	--	--	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-15	11/19/00	2,700	54 J	--	--	--
BR-15 (DUP)	11/19/00	2,700	49 J	--	--	--
BR-15	03/26/01	2,500	33 J	--	--	--
BR-15	06/18/01	2,300	49 J	--	--	--
BR-15	09/16/01	4,800	110 J	--	--	--
BR-15	12/16/01	6,590	189	28.2	2	1.1
BR-15	03/11/02	5,500	172	36.6	2.2	--
BR-15	06/09/02	5,800	373	36.9	4.6	3.8
BR-15	09/22/02	4,390	555	40.3	7.5	5.4
BR-15	12/08/02	4,740	177	43.6	2.8	--
BR-15	03/22/03	2,500	404	21.9	4.3	1.2
BR-15	06/13/03	1,180	1,390	24.8	8.4	3.9
BR-15	09/21/03	1,230	580	35.3	6.9	8.3
BR-15	12/13/03	2,000	194	24.9	2.8	--
BR-15	06/19/04	512	556	18.0	12.8	199
BR-15	12/04/04	664	136	5.4	1.3	--
BR-16	11/19/00	6.0	3.8 J	--	--	--
BR-16	03/25/01	1.2 J	--	--	--	--
BR-16	06/17/01	--	--	--	--	--
BR-16	09/15/01	--	--	--	--	--
BR-16	12/16/01	--	--	--	--	--
BR-16	03/10/02	--	--	--	--	--
BR-16	06/09/02	--	--	--	--	--
BR-16	09/21/02	--	--	--	--	--
BR-16	12/08/02	--	--	--	--	--
BR-16 ²	03/03	NS	NS	NS	NS	NS
BR-16 ²	06/03	NS	NS	NS	NS	NS
BR-16 ²	09/03	NS	NS	NS	NS	NS
BR-16 ²	12/03	NS	NS	NS	NS	NS
BR-16 ²	06/04	NS	NS	NS	NS	NS
BR-16 ²	12/04	NS	NS	NS	NS	NS
BR-17	11/18/00	840	160	84	3.6 J	--
BR-17	03/24/01	6,900	360	93	9.4 J	52
BR-17	06/15/01	5,200	260	68 J	--	46
BR-17	09/13/01	4,100	220	60 J	--	57 J
BR-17	12/13/01	3,840	248	44	4.7	33.4
BR-17	03/08/02	2,600	208	56.5	5.1	57
BR-17	06/07/02	4,540	198	49.8	5	45.9
BR-17	09/20/02	2,740	210	36.8	5.2	24.5
BR-17	12/06/02	186	204	65.2	5.2	63.2
BR-17	03/20/03	2,020	159	41	3.3	36.3
BR-17	06/12/03	3,320	199	44	2.5	43.7
BR-17	09/18/03	3,200	173	39.2	3.1	77.8
BR-17	12/11/03	5,360	216	49.9	3.9	66.7
BR-17	06/17/04	3,140	279	44.0	--	52.0
BR-17	12/02/04	4,550	463	56.1	12.7	52.3

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, 2002, 2003, and
2004 Sampling Events

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¹ Will be sampled annually beginning in December 2003 based on recommendations made in the *Quarterly Progress Report, Fourth Quarter 2002 and 2-Year Progress Evaluation*, March (MACTEC, 2003).

² Will not be sampled during quarterly sampling events based on based on recommendations made in the *Quarterly Progress Report, Fourth Quarter 2002 and 2-Year Progress Evaluation*, March (MACTEC, 2003).

³ Laboratory problem resulted in sample exceeding hold time.

Notes: -- = no detections
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
DUP = duplicate
ID = identification
J = estimated value
TCE = trichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
VOC = volatile organic compound

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

**Table 3-4
Decline of TCE Concentrations Over Time**

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Well ID ¹	Area	High (ppb) BL/ Post BL	November/ December 2004 result	% Decline ²
Source Area Monitor Wells				
OB-04	South	71,500	626	99
OB-06	South	5,600	31.9	99
OB-05	North	25,000	172	99
OB-08	North	40,000	429	99
BR-04	South	10,000	4,090	59
BR-09	South	13,000	16.4	99
BR-10	South	8,700	1,270	85
BR-11	South	60,000	2.70	99
BR-17	South	6,900	4,550	34
BR-05	North	5,800	1.70	99
BR-12	North	200	1.00	99
BR-15	North	6,590	664	90
BR-08 (deep)	South	1,100	134	88
BR-14 (deep)	North	148	1 U	99
Plume Monitor Wells				
OB-07	South	21.8	11.0	50
OB-09	North	180	58.3	68
Perimeter Monitor Wells				
TW-04	South	51.1	40.0	22
TW-07	South	74	23.0	69
TW-17	North	1,000	407	59
TW-20	Between	14.8	1 U	93
TW-09	Between	230	46.2	80
BR-02	South	7,000	647	91
BR-03	South	1,150	60.6	95
BR-01	North	551	65.0	88
BR-13	North	3,240	1 U	99
BR-07	North	7.4	1 U	86
W-5	North	1,435	569	60

¹ Upgradient wells not shown include W-4, BR-07, TW-13, MW-00, TW-69, W-2, BR-06, W-1, TW-01, TW-74, W-6, W-3, and BR-16.

² Percent decline determined by comparing current value (November/December 2004) to the highest BL/Post BL value.

Notes: -- = no detections
BL = baseline
ID = identification
J = estimated
NA = not applicable

NI = not installed
NS = not sampled
ppb = parts per billion
TCE = trichloroethylene
U = nondetect

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

Monitor Well OB-07 reported a TCE concentration of 11.0 micrograms per liter ($\mu\text{g/L}$) and no detections of daughter products in the November/December 2004 event resulting in an overall decline of 50 percent (Table 3-4).

Overburden Monitor Wells (North TCE Source Area)

Monitor wells OB-05 and OB-08 are both located within the North TCE Source Area while OB-09 is within the plume. Comprehensive results for these wells are presented in Table 3-2.

TCE concentrations in monitor well OB-05 increased from levels detected in June 2004, but remain below the highest reported value, with an overall decrease of 99 percent from baseline levels. TCE concentrations in monitor well OB-08 decreased from 725 $\mu\text{g/L}$ (June 2004) to 429 $\mu\text{g/L}$ during the November/December 2004 event resulting in an overall decline of 99 percent in TCE concentrations (Table 3-4). TCE concentrations in monitor well OB-09 remained mostly unchanged during the November/December 2004 event with an overall decrease of 68 percent (Table 3-4).

Bedrock Monitor Wells (South TCE Source Area)

Bedrock monitor wells BR-04, BR-09, BR-10, BR-11, and BR-17 are located within the South TCE Source Area. Comprehensive results for these wells are presented in Table 3-3.

TCE concentrations in monitor well BR-14 remained non-detectable, while concentrations in monitor well BR-17 increased during the November/December 2004 event, but remain below the highest reported values. The overall decline in these concentrations is 55 and 34 percent, respectively (Table 3-4).

TCE concentrations in monitor wells BR-09, BR-10, and BR-11 continued to decrease in November/December 2004 resulting in an overall decline of 99, 85, and 99 percent, respectively (Table 3-4).

Bedrock Monitor Wells (North TCE Source Area)

BR-05, BR-12, BR-15, and BR-16 are located in the North TCE Source Area. Comprehensive results are presented in Table 3-3. Monitor well BR-16 was not sampled during the November/December 2004 event based on the recommendations provided in the Quarterly Progress Report Fourth Quarter 2002 and 2-Year Progress Evaluation (MACTEC, 2003) and thus will not be discussed.

TCE concentrations in monitor well BR-15 increased in November/December 2004 but remained below the highest reported values. The overall decline was 90 percent (Table 3-4).

Monitor wells BR-05 and BR-12 reported a decrease of TCE concentrations, resulting in overall declines of 99 percent (Table 3-4).

3.2 UPGRADIENT MONITOR WELLS

Overburden Monitor Wells

W-2 and W-6 are southwest of the source areas and are considered upgradient.

TCE concentrations for W-2 were nondetectable, as has been the case in past sampling events since the baseline sampling event. TCE concentrations in monitor well W-6 were 1.0 µg/L, the laboratory minimum detection level.

Monitor well W-4 is located west of the North TCE Source Area and is also considered upgradient. This well has been removed from the quarterly sampling events based on recommendations provided in the Quarterly Progress Report Fourth Quarter 2002 and 2-Year Progress Evaluation (MACTEC, 2003).

TW-13 is considered to be upgradient of the North TCE Source Area. Concentrations of TCE have been nondetectable for the first eight quarterly sampling events, as well as the baseline event. Therefore, TW-13 was not sampled during the November/December 2004 event and will not be sampled during future semi-annual sampling events.

Bedrock Monitor Wells

BR-06 and BR-07 are also upgradient wells, located southwest and west of the South and North TCE Source Areas, respectively. BR-06 is considered a background well and is now only sampled annually. No TCE was detected in BR-06 during the November/December sampling event or during any past sampling event. In BR-07, TCE concentrations were at nondetectable levels during the November/December 2004 event and showed an overall decline of 86 percent (Table 3-4).

3.3 PERIMETER DOWNGRADIENT MONITOR WELLS

Overburden Monitor Wells

Monitor wells TW-04, TW-09, TW-17, TW-20, and W-5 are downgradient of the source areas and are located along the perimeter of the site. Comprehensive results for these wells are presented in Table 3-2.

TCE concentrations in monitor wells TW-04, TW-09, TW-17, and W-5 increased during the November/December 2004 event but remain below levels observed during the baseline sampling event, resulting in overall decreases of 22, 80, 59, and 60 percent, respectively (Table 3-4). TCE concentrations in monitor well TW-20 remained at non-detectable levels with an overall decline of 93 percent (Table 3-4).

Bedrock Monitor Wells

The perimeter downgradient bedrock monitor wells are BR-01, BR-02, BR-03, and BR-13. Comprehensive results are presented in Table 3-3 and on Figure 3 (Appendix A).

TCE concentrations in monitor well BR-02 increased from the June 2004 event but remained below the baseline sampling event. The overall decline in this concentration is 91 percent (Table 3-4).

Monitoring well BR-13 was at non-detectable levels of TCE during the November/December 2004 event resulting in an overall decrease in TCE concentrations of 99 percent (Table 3-4).

TCE concentrations in monitor wells BR-01 and BR-03 decreased from the June 2004 event. The overall decline in these concentrations is 88 and 95 percent, respectively (Table 3-4).

Deep Bedrock Monitor Wells

TCE concentrations for the deep bedrock monitor well BR-08 (South TCE Source Area) increased in November/December 2004 but remained below the highest concentration, resulting in an overall decrease of 88 percent. TCE concentrations in monitor well BR-14 (North TCE Source Area) remained at non-detectable levels in November/December 2004 with an overall decline of 99 percent (Table 3-4).

3.4 POTENTIOMETRIC SURFACE

Associated with each monitoring event, a potentiometric surface map is generated to depict groundwater elevations for the overburden groundwater. ServCADD Version CES was used to plot the potentiometric surface maps in Appendix A, Figures 4 and 6. This program mathematically calculates contours based upon groundwater elevation measurements collected in the field.

The October 2004 map (Figure 4 in Appendix A) was based upon water level information collected prior to shutdown of the System on October 25, 2004. The November/December 2004 map (Figure 6 in

Appendix A) was based upon water level information collected during the course of sampling activities on the subject site. Overburden potentiometric surface mapping for the October 2004 and November/December events agrees with past mapping in both the North TCE Source Area and South TCE Source Area. Overburden potentiometric mapping for December 2004 illustrates static groundwater conditions in the absence of impact from the extraction system.

Attempts have been made to contour the bedrock potentiometric surface, but the bedrock water level data cannot readily be plotted due to the large variation in elevation heads. These variations are due to the fractured bedrock system. The head data appears to be bi-modally distributed possibly reflecting differing elevations of water bearing fractures. The absence of contaminants at the southwest corner of the site (BR-06) and their presence in wells along the north and east site perimeter also support the interpretation that bedrock flow beneath the two source areas is generally towards the north. Bedrock water level elevations are presented on Figures 5 and 7 in Appendix A.

3.5 NATURAL BIODEGRADATION

During the November/December 2004 sampling event, natural biodegradation parameters were collected from nine monitor wells including background well W-2 and perimeter wells TW-04, TW-07, TW-09, TW-17, TW-20, and W-5. Samples were also collected from OB-07 and OB-09, which are located within the TCE source areas. Table 3-5 shows a comparison between the natural biodegradation parameters in nine monitor wells and the values given in the EPA screening protocol as favorable for natural biodegradation of chlorinated solvents (EPA, 1998). Shaded values in the table show values favorable for natural biodegradation. W-2 data is provided for background values.

Table 3-5 shows that TCE daughter products were detected in five out of the eight perimeter and source area monitor wells. Several other parameters measured in each of these monitor wells containing TCE daughter products were indicative that natural biodegradation is occurring. While daughter products were not detected in TW-04, TW-20, and OB-07, these wells have several other parameter readings favorable for natural biodegradation. Concentrations of daughter products may be present in the vicinity of these wells at concentrations less than the sample quantitation limits (SQLs), or daughter products may have completely degraded to non-toxic end products, such as carbon dioxide, water, and chloride.

In summary, values for various natural biodegradation parameters and the presence of TCE daughter products indicate that natural biodegradation is occurring.

**Table 3-5
Summary of Natural Biodegradation Results,
November/December 2004 Sampling Event¹**

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Parameter	Value Favorable for Natural Biodegradation	TW-04	TW-07	TW-09	TW-17	TW-20	W-5	OB-07	OB-09	W-2 (background)
DO (mg/L)	<0.5	5.93	9.56	4.04	1.60	7.52	4.75	8.73	1.46	6.90
Nitrate (mg/L)	<1	0.380	11.5	<0.1	0.310	1.41	<0.1	3.90	1.92	NA
Iron II (mg/L)	>1	0.234	0.384	0.104	2.86	0.102	0.586	0.184	0.139	NA
Sulfate (mg/L)	<20	154	400	229	88.5	68.0	85.0	361	223	NA
Sulfide (mg/L)	>1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methane (mg/L)	>0.5	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
ORP (mV)	<50	26	53	43	43	26	-56	-29	21	206
PH	5<pH<9	7.22	6.89	7.18	7.18	7.25	7.20	7.51	7.31	7.24
TOC (mg/L)	>20	1.40	1.20	<1.0	<1.0	<1.0	<1.0	2.47	<1.0	NA
Temperature (°C)	>20	14.12	12.69	12.26	13.86	13.20	13.31	13.37	13.07	13.39
CO ₂ (mg/L)	Note 1	12.8	40.5	25.6	36.9	33.4	20.0	7.8	14.8	5.6
Alkalinity (mg/L)	Note 1	192	327	269	403	338	374	127	241	185
Chloride (mg/L)	Note 1	6.04	22.5	9.36	18.9	24.0	14.1	36.4	9.65	8.48
BTEX (mg/L)	>0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethene (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
Ethane (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
Daughter Products Detected	Any detection of daughter products	No	Yes	Yes	Yes	No	Yes	No	Yes	No

See notes at end of table.

Table 3-5 (Continued)
Summary of Natural Biodegradation Results,
November/December 2004 Sampling Event¹

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Reference: EPA. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* EPA/600/R-98/128 (September).

¹ W-2 is the background well; other wells are perimeter wells.

Note 1: A value greater than two times the background value is considered favorable for natural biodegradation. The W-2 value is the background value.

Note: Shading indicates parameters supportive of natural biodegradation.

°C = degrees Celsius

BTEX= benzene, toluene, ethylbenzene, and xylene

CO₂ = carbon dioxide

DCE = dichloroethylene

DO = dissolved oxygen

EPA = Environmental Protection Agency (United States)

mg/L = milligrams per liter

mV = millivolt

NA = not applicable

ORP = oxygen reduction potential

TCE = trichloroethylene

TOC = total organic compound

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

3.6 TREATMENT SYSTEM PERFORMANCE

The System was fully operational on January 6, 2001. Since then, it has operated 94.4 percent of available hours through December 2004. The available hours do not include scheduled shutdown periods. There were two scheduled shutdown periods in 2004 as part of the intermittent operation (pulsed pumping) of the system. The System was first shut down on May 10, 2004, and it was re-started on July 28, 2004. The System was again shut down on October 25, 2004, for the remainder of the period to allow for groundwater stabilization prior to the November/December 2004 sampling event. Table 3-6 provides a summary of System operational data. The System extracts soil vapor and groundwater from 23 DPVE wells: EW-S-1 through EW-S-16 and EW-N-1 through EW-N-6, and groundwater from two bedrock extraction wells: BREW-S-1 and BREW-N-1 (see Figure 1 in Appendix A). The vapor extracted from the dual-phase operation is discharged through the effluent piping manifold of the three vacuum pumps. The groundwater collected from both the DPVE wells and from the bedrock extraction wells is combined in an equalization tank prior to treatment via the tray air stripper. The System has extracted approximately 46.8 million gallons of groundwater through December 2004.

During the last six months of operation in 2004, approximately 3.0 million gallons of groundwater was extracted with an average flow rate of 23.3 gallons per minute (gpm). A total of 66 pounds of VOCs were removed from the subsurface (see Figure 9 in Appendix A) yielding an approximate ratio of 1 pound of VOCs removed for every 45,277 gallons of water removed. A total of 3,244 pounds of contaminants have been removed since startup of the System. The majority of VOCs is removed from the overburden through the vapor phase and stripped from groundwater during the vacuum extraction process. Table 3-7 summarizes groundwater sample results from the equalization tank and vapor sampling results from the effluent of three vacuum pumps and air stripper. As indicated by the results, the total semi-annual mass of VOCs extracted (66 pounds) by the treatment system during the last six months of operation in 2004 was less than the total mass extracted during the first six months of 2004 (107 pounds). This is attributed to pulsed pumping operations, which resulted in less operating time in the second period (leading to lower mass extracted). The mass removal rate remained unchanged at 0.01 pounds per hour (lbs/hr). Overall, the mass of VOCs extracted continues to demonstrate a downward trend, even under intermittent operation of the System. This trend is expected to continue decreasing as contaminants within the subsurface are removed. It is evident by review of Figure 9 in Appendix A that the system mass removal rate has approached an asymptotic level.

**Table 3-6
System Operational Summary,
January 2001 – December 2004**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Parameter	2001			
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
System Up-time (%)	89	99.9	99	99.9
Average System Vacuum ¹				
South Source Area (in. Hg)	19	16	16	17
North Source Area (in. Hg)	15	18	16	16
Average System Groundwater Flowrates ²				
Total System (gpm)	26	26	24	25
Dual Phase Extraction (gpm)	8	7	6	7
Bedrock Extraction (gpm)	18	18	18	18
Average System Vapor Flowrates ¹				
Dual Phase Extraction South Source Area (CFM)	161	176	180	167
Dual Phase Extraction North Source Area (CFM)	117	113	175	127
System Mass Removal Rate (lbs./hr) ³	0.17	0.05	0.04	0.031
System Mass Removed (lbs.) ³	406	443	289	197
Cumulative Mass Removed (lbs.) ³	906	1,349	1,637	1,834
Air Stripper Removal Efficiency (%) ³	99.6	99.6	99.3	99.4
Quarterly Groundwater Recovered (gallons) ²	3,833,248	3,345,131	3,275,792	3,256,961
Cumulative Groundwater Recovered (gallons) ²	3,833,248	7,178,379	10,454,171	13,711,132
Gallons to Remove 1 Pound of VOC ³	9,441	7,551	11,335	16,533
See notes at end of table.				

Table 3-6 (Continued)
System Operational Summary,
January 2001 – December 2004

Semi-Annual Progress Report
 Second Semi-Annual 2004 and Remedial Progress Evaluation
 Former Taylor Instruments Site
 Rochester, New York

Parameter	2002			
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
System Up-time (%)	99.3	99.3	89	94
Average System Vacuum ¹				
South Source Area (in. Hg)	18	21	17	21
North Source Area (in. Hg)	17	22.5	14 ⁴	17
Average System Groundwater Flowrates ²				
Total System (gpm)	24	28	23	22
Dual Phase Extraction (gpm)	7	11	7	8
Bedrock Extraction (gpm)	17	17	16	14
Average System Vapor Flowrates ¹				
Dual Phase Extraction South Source Area (CFM)	167	128	165	110
Dual Phase Extraction North Source Area (CFM)	113	100	75 ⁴	112
System Mass Removal Rate (lbs./hr) ³	0.03	0.06	0.02	0.03
System Mass Removed (lbs.) ³	145	453	150	112
Cumulative Mass Removed (lbs.) ³	1,979	2,432	2,582	2,694
Air Stripper Removal Efficiency (%) ³	99.7	99.4	99.9	99.5
Quarterly Groundwater Recovered (gallons) ²	3,036,973	5,080,273	2,795,716	2,765,779
Cumulative Groundwater Recovered (gallons) ²	16,748,105	21,828,378	24,624,094	27,389,873
Gallons to Remove 1 Pound of VOC ³	20,945	11,215	18,638	24,695
See notes at end of table.				

Table 3-6 (Continued)
System Operational Summary,
January 2001 – December 2004

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Parameter	2003			
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
System Up-time (%)	95.8	99.9	70	84.5
Average System Vacuum ¹				
South Source Area (in. Hg)	22	21.5	21.5	20
North Source Area (in. Hg)	20	21	19	19
Average System Groundwater Flowrates ²				
Total System (gpm)	23	25	24	26
Dual Phase Extraction (gpm)	8	9	8	9
Bedrock Extraction (gpm)	15	16	16	17
Average System Vapor Flowrates ¹				
Dual Phase Extraction South Source Area (CFM)	114	103	103	104
Dual Phase Extraction North Source Area (CFM)	102	97	113	103
System Mass Removal Rate (lbs./hr) ³	0.02	0.02	0.01	0.01
System Mass Removed (lbs.) ³	95	129	82	71
Cumulative Mass Removed (lbs.) ³	2,789	2,918	3,000	3,071
Air Stripper Removal Efficiency (%) ³	99.8	99.9	99.8	99.8
Quarterly Groundwater Recovered (gallons) ²	2,960,081	3,331,381	2,246,547	2,963,219
Cumulative Groundwater Recovered (gallons) ²	30,349,954	33,681,335	35,927,882	38,891,101
Gallons to Remove 1 Pound of VOC ³	31,159	25,824	27,397	41,735

See notes at end of table.

Table 3-6 (Continued)
System Operational Summary,
January 2001 – December 2004

Semi-Annual Progress Report
 Second Semi-Annual 2004 and Remedial Progress Evaluation
 Former Taylor Instruments Site
 Rochester, New York

Parameter	2004	
	1 st Semi-Annual ⁵	2 nd Semi-Annual ⁵
System Up-time (%)	100	100
Average System Vacuum ¹		
South Source Area (in. Hg)	21	19.5
North Source Area (in. Hg)	20	19
Average System Groundwater Flowrates ²		
Total System (gpm)	26 ⁵	23 ⁵
Dual Phase Extraction (gpm)	10	7
Bedrock Extraction (gpm)	16	16
Average System Vapor Flowrates ¹		
Dual Phase Extraction South Source Area (CFM)	110	120
Dual Phase Extraction North Source Area (CFM)	100	100
System Mass Removal Rate (lbs./hr) ³	0.01	0.01
System Mass Removed (lbs.) ³	107	66
Cumulative Mass Removed (lbs.) ³	3,178	3,244
Air Stripper Removal Efficiency (%) ³	99.8	99.9
Semi-Annual Groundwater Recovered (gallons) ²	4,935,795	2,988,256
Cumulative Groundwater Recovered (gallons) ²	43,826,896	46,815,152
Gallons to Remove 1 Pound of VOC ³	46,128	45,277

¹ Instantaneous.

⁴ Vacuum pump down for repairs, causing a decrease in values.

² Continuous.

⁵ All parameter rate calculations based on available hours.

³ Calculated.

Notes: in. Hg = inches of mercury
 CFM = cubic feet per minute

gpm = gallons per minute
 lbs. = pounds

lbs./hr = pounds per hour
 VOC = volatile organic compound

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

**Table 3-7
System Analytical Data,
January 2001 – December 2004**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
Vacuum Pump #1 (South TCE Source Area)	1/6/01	<25	<25	914.00	<25
	2/7/01	2.70	<1.0	371.00	<1.0
	3/6/01	<5.0	<5.0	129.00	<5.0
	4/17/01	1.60	<1.0	215.00	<1.0
	5/16/01	1.20	<1.0	120.00	<1.0
	6/7/01	1.20	<1.0	110.00	<1.0
	7/13/01	<1.0	<1.0	80.00	<1.0
	8/7/01	<1.0	<1.0	90.00	<1.0
	9/12/01	1.10	<1.0	97.00	<1.0
	10/11/01	<1.0	<1.0	76.00	<1.0
	11/9/01	1.4	<1.0	160.00	<1.0
	12/14/01	<0.5	<0.5	10.90	<0.5
	1/8/02	<0.5	<0.5	9.25	<0.5
	2/18/02	2.10	<1.0	170.00	<1.0
	3/8/02	1.40	<1.0	90.00	<1.0
	4/5/02	4.20	<1.0	360.00	<1.0
	5/13/02	2.40	<1.0	260.00	<1.0
	6/10/02	1.60	<1.0	120.00	<1.0
	7/11/02	1.10	<1.0	79.00	<1.0
	8/14/02	<1.0	<1.0	37.00	<1.0
	9/12/02	<1.0	<1.0	24.00	<1.0
	10/9/02	<1.0	<1.0	56.00	<1.0
	11/15/02	2.10	<1.0	120.00	<1.0
	12/23/02	2.50	<1.0	190.00	<1.0
	1/16/03	<1.0	<1.0	72.00	<1.0
	2/18/03	<1.0	<1.0	28.00	<1.0
	3/14/03	<1.0	<1.0	74.00	<1.0
	6/20/03	<1.0	<1.0	41.00	<1.0
	7/2003	NS	NS	19.00	NS
	8/29/03	<1.0	<1.0	19.00	<1.0
	9/29/03	<1.0	<1.0	38.00	<1.0
	10/16/03	<1.0	<1.0	35.00	<1.0
	11/13/03	<1.0	<1.0	31.00	<1.0
12/23/03			Vacuum pump down		
1/27/04	<1.0	<1.0	16.00	<1.0	
2/20/04	<1.0	<1.0	21.00	<1.0	
3/11/04	<1.0	<1.0	46.00	<1.0	
4/26/04	<1.0	<1.0	48.00	<1.0	
5/10/04	<1.0	<1.0	7.80	<1.0	
6/04			Shutdown – intermittent operation		
7/04			Shutdown – intermittent operation		
8/23/04	<1.0	<1.0	28.00	<1.0	
9/15/04	<1.0	<1.0	22.00	<1.0	
10/25/04	<1.0	<1.0	15.00	<1.0	
11/04			Shutdown – intermittent operation		
12/04			Shutdown – intermittent operation		

See notes at end of table.

**Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2004**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
Vacuum Pump #2 (South TCE Source Area)	1/6/01	<25	<25	963.00	<25
	2/7/01	<12.5	<12.5	425.00	<12.5
	3/6/01	<5.0	<5.0	140.00	<5.0
	4/17/01	2.30	<1.0	247.00	<1.0
	5/16/01	1.20	<1.0	110.00	<1.0
	6/7/01	NS	NS	NS	NS
	7/13/01	<1.0	<1.0	78.00	<1.0
	8/7/01	<1.0	<1.0	89.00	<1.0
	9/12/01	1.2	<1.0	110.00	<1.0
	10/11/01	<1.0	<1.0	76.00	<1.0
	11/9/01	1.30	<1.0	170.00	<1.0
	12/14/01	<0.5	<0.5	7.75	<0.5
	1/8/02	<0.5	<0.5	8.61	<0.5
	2/18/02	2.10	<1.0	190.00	<1.0
	3/8/02	1.40	<1.0	86.00	<1.0
	4/5/02	3.90	<1.0	380.00	<1.0
	5/13/02	2.50	<1.0	250.00	<1.0
	6/10/02	1.40	<1.0	120.00	<1.0
	7/11/02	1.00	<1.0	86.00	<1.0
	8/14/02	<1.0	<1.0	35.00	<1.0
	9/12/02	<1.0	<1.0	24.00	<1.0
	10/9/02	<1.0	<1.0	33.00	<1.0
	11/15/02	<1.0	<1.0	28.00	<1.0
	12/23/02	2.50	<1.0	200.00	<1.0
	1/16/03	<1.0	<1.0	70.00	<1.0
	2/18/03	<1.0	<1.0	22.00	<1.0
	3/14/03	<1.0	<1.0	73.00	<1.0
	6/20/03	<1.0	<1.0	46.00	<1.0
	7/20/03	NS	NS	20.00	NS
	8/29/03	<1.0	<1.0	20.00	<1.0
	9/29/03	1.40	<1.0	79.00	<1.0
	10/16/03	<1.0	<1.0	37.00	<1.0
	11/13/03	<1.0	<1.0	45.00	<1.0
	12/23/03	<1.0	<1.0	47.00	<1.0
	1/27/04	<1.0	<1.0	15.00	<1.0
	2/20/04	<1.0	<1.0	17.00	<1.0
3/11/04	<1.0	<1.0	30.00	<1.0	
4/26/04	<1.0	<1.0	33.00	<1.0	
5/10/04	<1.0	<1.0	5.80	<1.0	
6/04			Shutdown – intermittent operation		
7/04			Shutdown – intermittent operation		
8/23/04	<1.0	<1.0	30.00	<1.0	
9/15/04	<1.0	<1.0	23.00	<1.0	
10/25/04	<1.0	<1.0	16.00	<1.0	
11/04			Shutdown – intermittent operation		
12/04			Shutdown – intermittent operation		

See notes at end of table.

**Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2004**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
Vacuum Pump #3 (North TCE Source Area)	1/6/01	<1.0	<1.0	41.00	<1.0
	2/7/01	1.40	<1.0	38.00	<1.0
	3/6/01	<1.0	<1.0	35.00	<1.0
	4/17/01	1.10	<1.0	42.00	<1.0
	5/16/01	2.20	<1.0	95.00	<1.0
	6/7/01	<1.0	<1.0	26.00	<1.0
	7/13/01	<1.0	<1.0	31.00	<1.0
	8/7/01	<1.0	<1.0	28.00	<1.0
	9/12/01	<1.0	<1.0	21.00	<1.0
	10/11/01	<1.0	<1.0	28.00	<1.0
	11/9/01	<1.0	<1.0	22.00	<1.0
	12/14/01	<0.5	<0.5	1.73	<0.5
	1/8/02	<0.5	<0.5	2.81	<0.5
	2/18/02	1.50	<1.0	35.00	<1.0
	3/8/02	<1.0	<1.0	52.00	<1.0
	4/5/02	1.80	<1.0	42.00	<1.0
	5/13/02	1.80	<1.0	48.00	<1.0
	6/10/02	1.50	<1.0	38.00	<1.0
	7/11/02	NS	NS	NS	NS
	8/14/02	NS	NS	NS	NS
	9/12/02	<1.0	<1.0	9.60	<1.0
	10/9/02	<1.0	<1.0	14.00	<1.0
	11/15/02	<1.0	<1.0	11.00	<1.0
	12/23/02	1.60	<1.0	29.00	<1.0
	1/16/03	<1.0	<1.0	23.00	<1.0
	2/18/03	<1.0	<1.0	5.20	<1.0
	3/14/03	<1.0	<1.0	22.00	<1.0
	6/20/03	<1.0	<1.0	13.00	<1.0
	7/2003	NS	NS	11.00	NS
	8/29/03	<1.0	<1.0	11.00	<1.0
	9/29/03	<1.0	<1.0	3.40	<1.0
	10/16/03	<1.0	<1.0	15.00	<1.0
	11/13/03	<1.0	<1.0	9.20	<1.0
	12/23/03	<1.0	<1.0	10.00	<1.0
	1/27/04	<1.0	<1.0	5.70	<1.0
	2/20/04	<1.0	<1.0	7.40	<1.0
3/11/04	<1.0	<1.0	13.00	<1.0	
4/26/04	<1.0	<1.0	11.00	<1.0	
5/10/04	<1.0	<1.0	2.00	<1.0	
6/04			Shutdown – intermittent operation		
7/04			Shutdown – intermittent operation		
8/23/04	<1.0	<1.0	13.00	<1.0	
9/15/04	<1.0	<1.0	16.00	<1.0	
10/25/04	<1.0	<1.0	6.70	<1.0	
11/04			Shutdown – intermittent operation		
12/04			Shutdown – intermittent operation		

See notes at end of table.

**Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2004**

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
Air Stripper Effluent	1/6/01	1.20	<1.0	32.00	<1.0
	2/7/01	1.20	<1.0	17.00	<1.0
	3/6/01	2.10	<1.0	25.00	<1.0
	4/17/01	4.00	<1.0	40.00	<1.0
	5/16/01	4.90	<1.0	26.00	<1.0
	6/7/01	4.50	<1.0	17.00	<1.0
	7/13/01	4.90	<1.0	17.00	<1.0
	8/7/01	3.90	<1.0	14.00	<1.0
	9/12/01	3.20	<1.0	11.00	<1.0
	10/11/01	5.00	<1.0	18.00	<1.0
	11/9/01	3.90	<1.0	15.00	<1.0
	12/14/01	<0.5	<0.5	0.74	<0.5
	1/8/02	0.76	<0.5	2.60	<0.5
	2/18/02	5.3	<1.0	30.00	<1.0
	3/8/02	3.7	<1.0	14.00	<1.0
	4/5/02	4.6	<1.0	24	<1.0
	5/13/02	3.5	<1.0	20	<1.0
	6/10/02	2.5	<1.0	14	<1.0
	7/11/02	2.1	<1.0	12	<1.0
	8/14/02	3.3	<1.0	11	<1.0
	9/12/02	1.9	<1.0	9.6	<1.0
	10/9/02	1.9	<1.0	12	<1.0
	11/15/02	2.1	<1.0	12	<1.0
	12/23/02	3.0	<1.0	18	<1.0
	1/16/03	1.3	<1.0	9.7	<1.0
	2/18/03	1.5	<1.0	8.1	<1.0
	3/14/03	1.5	<1.0	14	<1.0
	6/20/03	1.5	<1.0	6.4	<1.0
	7/2003	NS	NS	6.4	NS
	8/29/03	<1.0	<1.0	11	<1.0
	9/29/03	3.70	<1.0	17	<1.0
	10/16/03	3.10	<1.0	14	<1.0
	11/13/03	2.90	<1.0	16	<1.0
	12/23/03	4.40	<1.0	27	<1.0
	1/27/04	2.40	<1.0	11	<1.0
	2/20/04	3.80	<1.0	15	<1.0
3/11/04	2.60	<1.0	13	<1.0	
4/26/04	2.30	<1.0	11	<1.0	
5/10/04	<1.0	<1.0	2.1	<1.0	
6/04			Shutdown – intermittent operation		
7/04			Shutdown – intermittent operation		
8/23/04	2.40	<1.0	12	<1.0	
9/15/04	2.10	<1.0	8.6	<1.0	
10/25/04	2.80	<1.0	12	<1.0	
11/04			Shutdown – intermittent operation		
12/04			Shutdown – intermittent operation		

See notes at end of table.

Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2004

Semi-Annual Progress Report
 Second Semi-Annual 2004 and Remedial Progress Evaluation
 Former Taylor Instruments Site
 Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Groundwater Analytical Results² (µg/L)					
Air Stripper Influent	1/6/01	210	<130.00	5,000.00	<25.00
	2/7/01	300.00	12.00	4,100.00	1.10
	3/6/01	340.00	<130.00	4,000.00	<25.00
	4/17/01	390.00	12.00	3,500.00	<1.00
	5/16/01	660.00	16.00	3,200.00	<1.0
	6/7/01	750.00	15.00	3,000.00	1.50
	7/13/01	790.00	16.00	2,400.00	1.40
	8/7/01	1,100.00	16.00	3,200.00	<1.0
	9/12/01	660.00	10.00	2,000.00	3.00
	10/11/01	570.00	14.00	2,000.00	1.90
	11/9/01	640.00	12.00	2,300.00	2.20
	12/14/01	696.00	18.40	1,580.00	<2.0
	1/8/02	577.00	8.90	2,040.00	2.30
	2/18/02	427.00	<20	1,910.00	<20
	3/8/02	521.00	11.00	2,150.00	3.20
	4/5/02	432.00	6.70	2,060.00	2.20
	5/13/02	430.00	9.44	1,600.00	3.73
	6/10/02	318.00	6.73	1,650.00	1.60
	7/11/02	316.00	7.61	1,810.00	2.89
	8/14/02	589.00	14.20	1,820.00	<0.5
	9/12/02	472.00	8.19	1,490.00	4.19
	10/9/02	298.00	6.74	1,820.00	2.44
	11/15/02	73.00	6.20	437.00	<1.0
	12/23/02	374.00	7.80	2,180.00	<1.0
	1/16/03	300.00	8.60	2,080.00	2.70
	2/18/03	445.00	10.70	2,340.00	4.70
	3/14/03	236.00	6.70	1,980.00	4.00
	6/20/03	390.00	11.10	1,810.00	4.90
	9/29/03	310.00	7.40	1,750.00	6.20
	10/16/03	415.00	13.70	2,250.00	6.40
	11/13/03	470.00	13.70	2,220.00	6.20
	12/23/03	400.00	10.80	3,100.00	5.30
	1/27/04	315.00	15.70	1,470.00	5.80
	2/20/04	590.00	12.30	1,800.00	7.00
	3/11/04	320.00	11.40	1,440.00	5.90
	4/26/04	375.00	14.60	1,880.00	4.30
	5/10/04	329.00	11.20	1,990.00	6.30
	6/04		Shutdown – intermittent operation		
	7/04		Shutdown – intermittent operation		
	8/23/04	466.00	12.80	1,830.00	4.30
	9/15/04	495.00	9.00	2,280.00	4.50
	10/25/04	447.00	10.80	1,630.00	6.60
	11/04		Shutdown – intermittent operation		
	12/04		Shutdown – intermittent operation		

See notes at end of table.

Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2004

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

¹ Vapor Analysis is by EPA Method TO-14 Modified.

² Groundwater Analysis is by EPA Method 8260.

Notes: $\mu\text{g/L}$ = micrograms per liter
 DCE = dichloroethylene
 EPA = Environmental Protection Agency (United States)
 mg/m^3 = milligrams per cubic meter
 NS = Vacuum Pump #2 was not sampled because it was shut down due to mechanical problems.
 TCE = trichloroethylene

Prepared by J. Deatherage on 1-31-05

Checked by M. Vandergriff on 2-3-05

3.7 SYSTEM EVALUATION SINCE STARTUP

It is apparent by an evaluation of TCE concentrations detected in the on-site monitor wells that the System has been successful in removing contaminants from the subsurface. As shown by the Concentration Trend Graphs in Appendix F, the TCE concentrations show an overall decline in all wells.

As discussed above, the System has operated successfully since January 2001 maintaining a 94.4 percent operational rate during the four-year period. Since that time, 46.8 million gallons of groundwater have been extracted and treated. A total of 3,244 pounds of TCE have been removed from both the groundwater and subsurface soils via groundwater and soil vapor extraction. The performance of the System has been measured by tracking the change in TCE concentrations within on-site monitor wells, which was discussed in detail in Sections 3.1 through 3.4; as well as within the System groundwater influent and the System vapor effluent.

Contaminant mass removal is calculated from vapor results collected from four effluent locations. The first two locations include the vapor effluent ports for Vacuum Pumps #1 and #2, which measure the amount of soil vapor as well as contaminants stripped from groundwater during the turbulent extraction process associated with the South TCE Source Area. The third location includes the vapor effluent port for Vacuum Pump #3, which measures the amount of soil vapor as well as contaminants stripped from groundwater during the turbulent extraction process associated with the North TCE Source Area. The fourth and final location includes the vapor effluent port from the low profile air stripper. The air stripper removes contaminants from groundwater extracted by the three vacuum pumps and by the two bedrock extraction wells.

The cumulative mass of contaminants removed slightly increased as shown on Figure 9 (Appendix A), but has leveled off over time. Vapor concentrations have mostly stabilized over the past six months as shown on Figure 10 (Appendix A), which depicts the vapor concentrations from the three vacuum pumps over the four-year operational period. Overall, the vapor concentrations have declined by 98 percent for the South TCE Source Area and 93 percent in the North TCE Source Area. The spikes observed are likely associated with the creation of preferential pathways allowing contaminant vapors to mobilize to the extraction wells, as well as rebound effects associated with recent intermittent operations.

The groundwater TCE influent concentrations have been tracked over the four-year System operation period and presented on Figure 11 (Appendix A). Concentrations decreased slightly during the last six months and have decreased overall by 67 percent.

Coupling the System performance data with the groundwater monitoring results discussed in previous sections, it is evident that the System has been successful in removing a significant mass of contaminants from the site subsurface. Furthermore, despite shutdown of the System on October 25, 2004, overall contaminant levels in site monitor wells have not demonstrated significant rebound effects. The overall TCE concentrations have declined significantly in both the on-site monitor wells and system influent.

The following overall conclusion has been reached with respect to remedial system performance:

As is typical of VOC extraction systems, the rate of VOC mass removal (see Figures 7, 8, and 9 in Appendix A) was greatest when the System was first started up, with only 9,441 gallons of water having to be pumped to remove 1 pound of VOC during the first quarter of operation, as shown in Table 3-6. In contrast, during the last six months of 2004, 45,277 gallons of water had to be pumped to extract 1 pound of VOC. Similarly, looking at the TCE removal through both vapor and groundwater, the system mass removal rate was 0.17 pounds VOC per hour during the first quarter of 2001, but was 0.01 lbs/hr for the last six months of 2004. Clearly the System has reached asymptotic removal rates for continuous operations.

4.0 ANALYTICAL PROGRAM

Overall data quality is assessed by grouping particular data evaluation findings and reviewing them in terms of precision, accuracy, representativeness, completeness, and comparability (PARCC) criteria. Data generated during this monitoring period were evaluated for PARCC criteria after receipt of all analytical data.

4.1 PRECISION

Precision is a quantitative evaluation of the repeatability of a measurement. Precision of analytical measurements is determined by calculating the relative percent difference (RPD) between the two numerical values. For precision, the matrix spike (MS) is performed in duplicate, and the values from both analyses are evaluated. Comparison of results from duplicate field samples may also be indicative of overall precision of a data set. However, field duplicates may be influenced by sampling precision and are not as controlled as laboratory duplicates.

For quality control purposes, a MS and matrix spike duplicate (MSD) was taken for each set of 20 samples with a net result of 2 MS/MSD analyses for the December 2004 sampling event. The evaluation of MS/MSD criteria was used to qualify the data. The evaluations of MS/MSD analyses are presented in the following tables.

OB-07

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0501	100	0.0483	3.66	62-146	25
Chlorobenzene	0.0520	104	0.0507	2.53	68-139	23
1,1-Dichloroethylene	0.0543	109	0.0518	4.71	58-152	26
Toluene	0.0495	99	0.0496	0.20	68-141	29
Trichloroethylene	0.0570	92	0.0558	2.13	61-161	26
Tetrachloroethylene	0.0543	109	0.0532	2.05	62-151	27

BR-12

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0531	103	0.0508	4.43	62-146	25
Chlorobenzene	0.0528	106	0.0516	2.30	68-139	23
1,1-Dichloroethylene	0.0596	119	0.0578	3.07	58-152	26
Toluene	0.0536	107	0.0526	1.88	68-141	29
Trichloroethylene	0.0519	88	0.0495	4.73	61-161	26
Tetrachloroethylene	0.0594	119	0.0587	1.19	62-151	27

Note: mg/L = milligrams per liter

These evaluations demonstrate that MS/MSD analyses are within acceptable limits.

Field duplicate sampling followed the same sampling outline as MS/MSD analysis. One duplicate sample was collected for each set of 20 field samples, resulting in 2 duplicate samples for the December 2004 sampling event. Field duplicate precision is presented in the following table.

Sample ID	Analyte	Practical Quantitation Limit	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
BR-07	cis-1,2-Dichloroethylene	1	4.6		4.9		6.3
	trans-1,2-Dichloroethylene	1	3.0		3.4		12.5
	Vinyl chloride	1	12.4		13.9		11.4
	Benzene	1	1.5		1.4		6.9
W-5	cis-1,2-Dichloroethylene	1	125		89.4		33.2
	trans-1,2-Dichloroethylene	1	4.7		4.4		6.6
	Trichloroethene	10	569		725		24.1

The RPD for all analytes indicates that field duplicate precision as shown in this table is considered acceptable.

4.2 ACCURACY

Accuracy is a quantitative measurement of agreement between an analytical result and the true value.

Accuracy is determined by comparing known amounts of analytes, which are added to the sample prior to analysis, to the field analytical results. Accuracy is expressed as a percentage of recovery (%R) of the total amount of spiked analyte. For VOC analyses, each sample was spiked with surrogate compounds prior to analysis (and extraction), and chosen samples were spiked (in duplicate) with additional spikes (MS and MSD). Surrogate and MS/MSD recoveries evaluate accuracy and identify interferences from the sample matrix.

Surrogate recoveries were acceptable for VOC analyses for this sampling event.

4.3 REPRESENTATIVENESS

Representativeness is a qualitative measurement of the degree to which analytical results reflect the true concentrations of analytes that may (or not) be present in a sample. Representativeness of organic analytical results of true site conditions is evaluated using trip blanks, field blanks, method blanks, and rinsate from decontaminated sampling equipment. Target organic compounds in quality control (QC) samples may represent contamination during sampling or transportation of samples to the laboratory. Compliance with holding time and extraction criteria also assures representativeness of results.

Two field blanks for the December 2004 event were analyzed to characterize the water source used during these sampling events. Potable water was used by the field crews for field blanks. Low concentrations of chloroform and bromodichloromethane were reported in both field blanks; however, neither compound was reported in any of the groundwater samples tested. No other target VOCs were detected above the reporting limit in either field blank.

No target VOCs were detected above the reporting limit in any method blank.

Two trip blanks were analyzed as part of the VOC laboratory QC program. No target VOCs were detected above the reporting limit in either trip blank.

Equipment rinse samples were collected per every 20 production samples, using potable water to rinse field equipment, and analyzed for all target constituents. Two rinsate blanks were collected during the November/December 2004 event. Low concentrations of chloroform, bromodichloromethane, carbon disulfide, and chloromethane were reported in the rinse samples. No other target VOCs were detected above the reporting limit in either rinsate blank.

Representativeness is considered complete due to the lack of target VOC detections in QC efforts.

4.4 COMPLETENESS

Completeness is a quantitative measurement of the usability of a data set. Completeness is defined as the percentage of data that satisfy validation criteria. Rejected data are not usable. Data qualified as estimated, however, is usable. Completeness goals were 100 percent for this report and are considered to be met.

4.5 COMPARABILITY

Comparability is a qualitative assessment of the confidence with which different data sets may be used to characterize a site. Comparability is a necessary criteria because sampling is often performed at different times and precision, accuracy, and representativeness are unique to each sampling event. Comparability between data generated at different times at a single site is evaluated by reviewing sample collection and handling procedures, sample matrix, and analytical methods used. Standardization of sampling protocols and analytical methods assures comparability as long as precision and accuracy criteria are satisfied for each data set. The overall analytical performance for this report was evaluated, and should be comparable to previous and future data sets.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A comparison of analytical data from the fourteen sampling events that occurred in 2001, 2002, 2003, and 2004 provides an evaluation of the System performance. The following overall conclusions and recommendations have been reached in this remedial progress evaluation:

- Despite pulsed pumping operations, the mass removal rate and the gallons to remove one pound of VOCs remained at asymptotic levels (see Table 3-6).
- Overall decreases in TCE concentrations have been observed in all perimeter and site interior monitor wells (Table 3-4). A decrease in the System influent TCE concentrations has also been observed, which would be expected since contaminant levels have declined in the North and South TCE Source Areas where extraction is occurring (Table 3-7).
- The System has successfully removed 3,244 pounds of TCE from subsurface media.
- It is apparent that the System has reached an asymptotic level of operation as can be seen in the mass removal rates reported in Table 3-6.
- Despite shutdown of the System on October 25, 2004, overall contaminant levels in site monitor wells have not demonstrated significant rebound effects, and overall declines remain evident as shown in Table 3-4.
- Because the System has reached asymptotic removal rates, we recommend that future progress reports be submitted annually instead of semi-annually. Accordingly, the next Progress Report would summarize activities and results for the two semi-annual sampling events that will be performed during 2005.
- We also recommend that samples for natural biodegradation be collected annually instead of semi-annually. The next round of natural biodegradation sampling would be performed in December 2005.

6.0 REFERENCES

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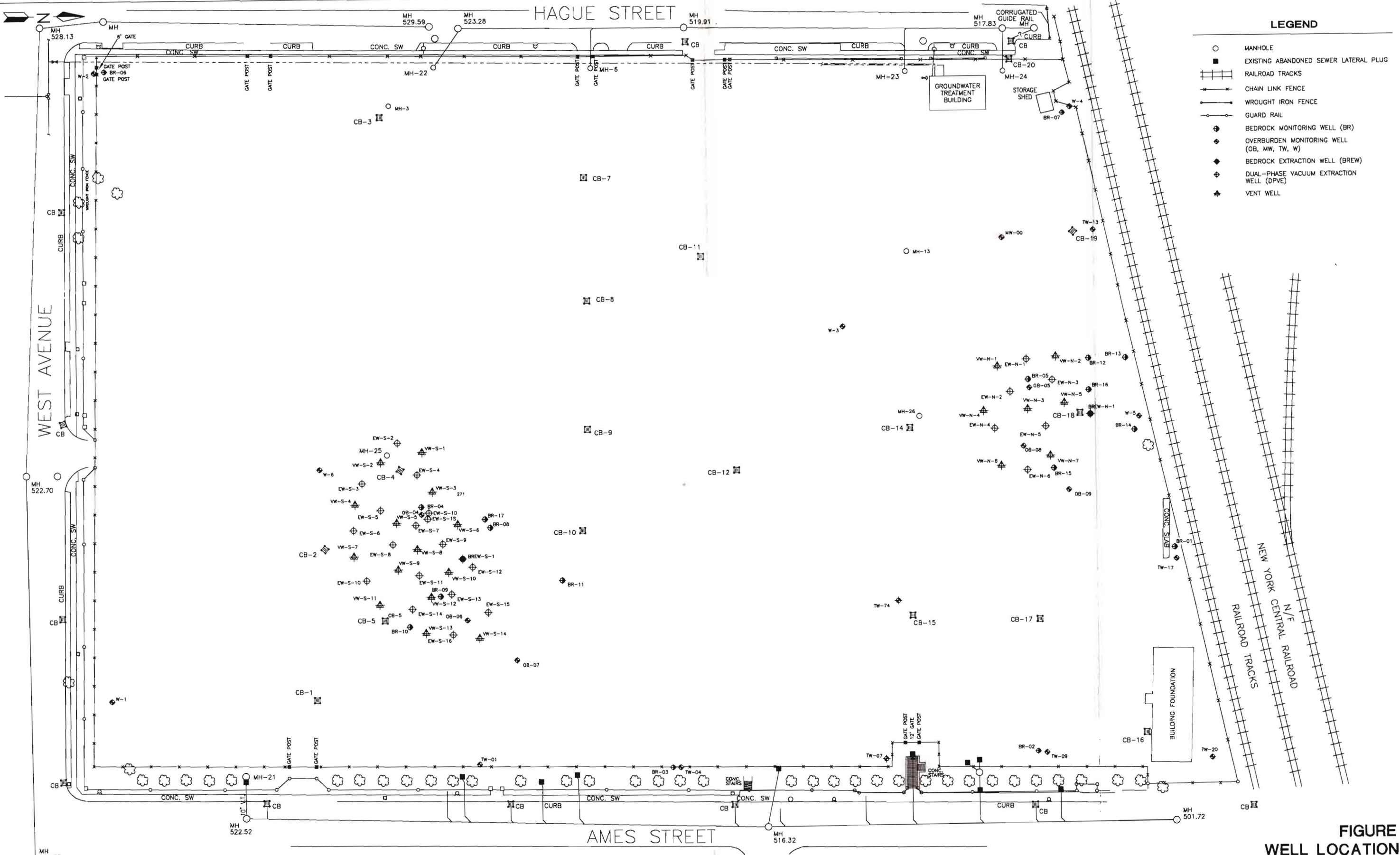
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NYSDEC. 1997. Voluntary Cleanup Agreement regarding the Taylor Instruments Site, Number B8-0508-97-02 (November).

APPENDIX A

FIGURES

P:\ZCADD\terpoint.office.projects\51870\C51870EP1.3.dwg Fri, 07 Jan 2005 - 3:34pm reverenc
 PREPARED BY: R. EVERENCE DATE: 07/23/04 CHECKED BY: J. PELMER DATE: 07/23/04



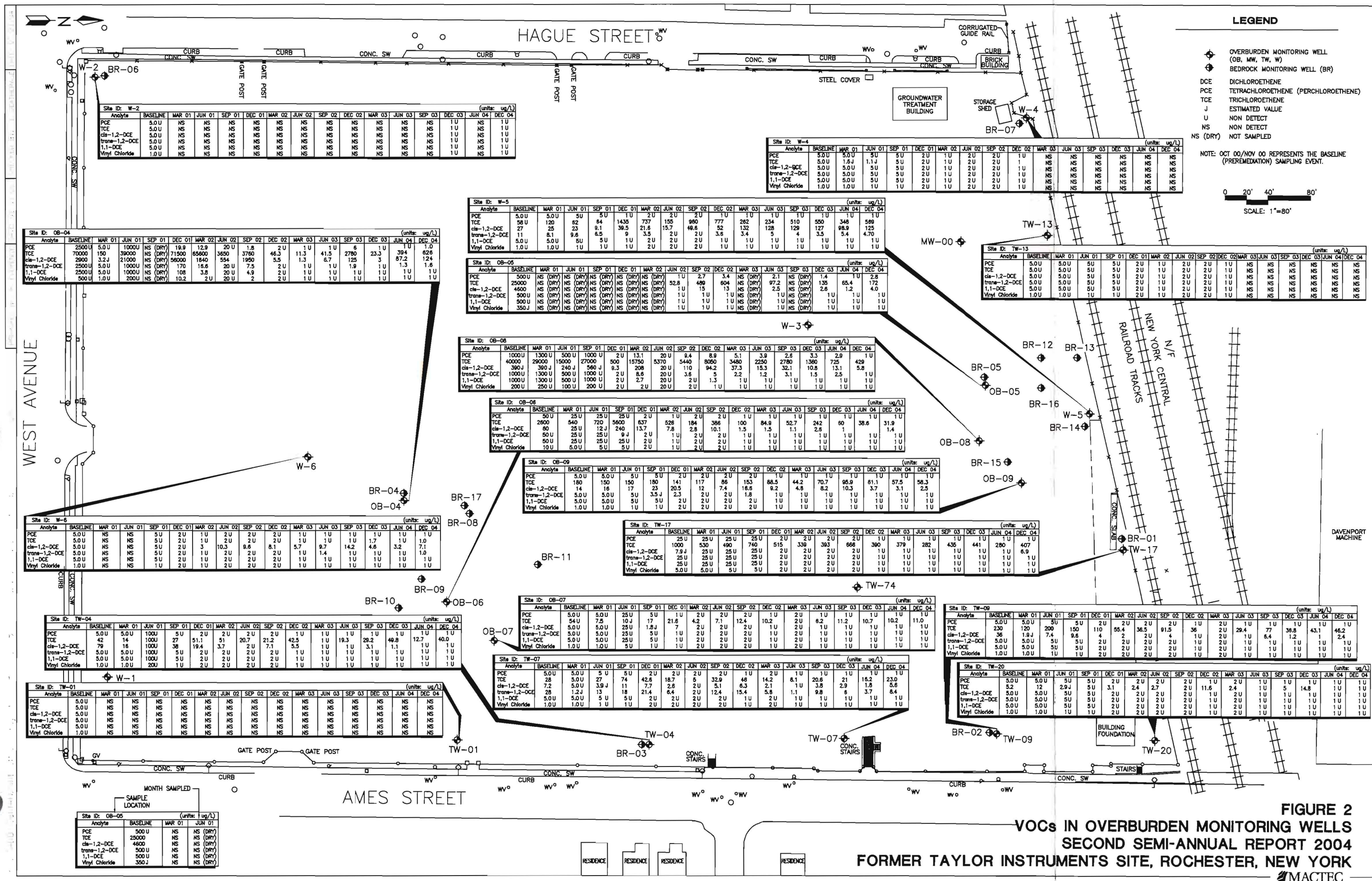
LEGEND

- MANHOLE
- EXISTING ABANDONED SEWER LATERAL PLUG
- ▬ RAILROAD TRACKS
- x— CHAIN LINK FENCE
- w— WROUGHT IRON FENCE
- o— GUARD RAIL
- ⊕ BEDROCK MONITORING WELL (BR)
- ⊕ OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- ⊕ BEDROCK EXTRACTION WELL (BREW)
- ⊕ DUAL-PHASE VACUUM EXTRACTION WELL (DPVE)
- ⊕ VENT WELL

FIGURE 1
WELL LOCATIONS
SECOND SEMI-ANNUAL REPORT 2004
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
 MACTEC

NOTE:
 THE AREA IS COVERED WITH BITUMINOUS
 PAVEMENT INSIDE FENCED AREA.

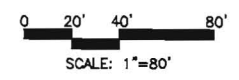
0' 20' 40' 80'
 SCALE: 1"=80'



LEGEND

- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- BEDROCK MONITORING WELL (BR)
- DCE DICHLOROETHENE
- PCE TETRACHLOROETHENE (PERCHLOROETHENE)
- TCE TRICHLOROETHENE
- J ESTIMATED VALUE
- U NON DETECT
- NS NON DETECT
- NS (DRY) NOT SAMPLED

NOTE: OCT 00/NOV 00 REPRESENTS THE BASELINE (PREREMEDIATION) SAMPLING EVENT.



Site ID: W-2 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U
TCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U
cis-1,2-DCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U
trans-1,2-DCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U
1,1-DCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U
Vinyl Chloride	1.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1U	1U

Site ID: W-4 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	5.0U	3U	5U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS
TCE	5.0U	1.6J	1.1J	5U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS
cis-1,2-DCE	5.0U	5.0U	5U	5U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS
trans-1,2-DCE	5.0U	5.0U	5U	5U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS
1,1-DCE	5.0U	5.0U	5U	5U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS
Vinyl Chloride	1.0U	1.0U	1U	1U	2U	1U	2U	2U	1U	NS	NS	NS	NS	NS	NS

Site ID: W-5 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	5.0U	5U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
TCE	58U	120	82	84	1435	737	155	950	777	262	234	510	550	348	589
cis-1,2-DCE	27	25	23	9.1	39.5	21.6	15.7	49.6	52	132	129	127	98.9	125	125
trans-1,2-DCE	11	8.1	9.6	6.5	9	3.5	2U	2U	3.6	3.4	5	4	3.5	5.4	4.70
1,1-DCE	5.0U	5.0U	5U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1.0U	1.0U	1U	1U	1U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: OB-04 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	2500U	5.0U	1000U	NS (DRY)	19.9	12.9	20U	1.8	2U	1U	1U	6	1U	1U	1.0
TCE	7000U	150	39000	NS (DRY)	71900	65600	3650	3760	46.3	11.3	41.5	2780	23.3	39.4	626
cis-1,2-DCE	2900	3.2J	21000	NS (DRY)	56000	1840	554	1950	5.5	1.3	6.7	125	3	87.2	124
trans-1,2-DCE	2500U	5.0U	1000U	NS (DRY)	170	16.6	20U	7.5	2U	1U	1U	1.9	1U	1.3	1.6
1,1-DCE	2500U	5.0U	1000U	NS (DRY)	108	3.8	20U	4.9	2U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	500U	1.0U	200U	NS (DRY)	10.2	2U	20U	2	2U	1U	1U	1U	1U	1U	1U

Site ID: OB-05 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	500U	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)
TCE	25000	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)
cis-1,2-DCE	4600	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)
trans-1,2-DCE	500U	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)
1,1-DCE	500U	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)
Vinyl Chloride	350J	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)

Site ID: OB-06 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	1000U	1300U	500U	1000U	2U	13.1	20U	8.4	8.9	2.1	3.4	NS (DRY)	2.1	NS (DRY)	2.8
TCE	40000	29000	15000	27000	500	15750	5370	5440	8050	2250	2780	1360	725	1U	31.9
cis-1,2-DCE	390J	390J	240J	580J	8.3	208	20U	110	94.2	37.3	15.3	32.1	10.8	13.1	5.8
trans-1,2-DCE	1000U	1300U	500U	1000U	2U	8.6	20U	3.6	5	2.2	1.2	3.1	1.5	2.5	1U
1,1-DCE	1000U	1300U	500U	1000U	2U	2.7	20U	2U	1.3	1U	1U	1U	1U	1U	1U
Vinyl Chloride	200U	250U	100U	200U	2U	2U	20U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: OB-08 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	50U	25U	25U	25U	2U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U
TCE	2600	540	720	5600	637	528	184	386	100	84.9	52.7	242	60	38.6	31.9
cis-1,2-DCE	80	25U	12J	240	13.7	7.8	2.8	10.1	1.5	1.5	1.1	2.6	1	1.4	1.4
trans-1,2-DCE	50U	25U	25U	9J	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
1,1-DCE	50U	25U	25U	25U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	10U	5.0U	5U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: OB-09 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	5.0U	5U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
TCE	180	150	150	180	141	117	86	153	68.5	44.2	70.7	95.9	61.1	57.5	58.3
cis-1,2-DCE	14	16	17	23	20.5	12	7.4	16.8	9.2	4.8	8.2	10.3	3.7	3.1	2.5
trans-1,2-DCE	5.0U	5.0U	5U	3.5J	2.3	2U	2U	1.8	1U	1U	1U	1U	1U	1U	1U
1,1-DCE	5.0U	5.0U	5U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1.0U	1.0U	1U	1U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: W-6 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	NS	NS	5U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
TCE	5.0U	NS	NS	5U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-DCE	5.0U	NS	NS	5U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-DCE	5.0U	NS	NS	5U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
1,1-DCE	5.0U	NS	NS	5U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1.0U	NS	NS	1U	2U	1U	2U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: TW-04 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	NS	NS	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
TCE	42	14	100U	27	51.1	51	20.7	21.2	42.5	1U	19.3	29.2	49.8	12.7	40.0
cis-1,2-DCE	79	18	100U	38	19.4	3.7	7.1	5.5	1U	1U	1U	1U	1U	1U	1U
trans-1,2-DCE	5.0U	5.0U	100U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
1,1-DCE	5.0U	5.0U	100U	5U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1.0U	1.0U	20U	1U	2U	2U	2U	2U	1U	1U	1U	1U	1U	1U	1U

Site ID: TW-01 (units: ug/L)

Analyte	BASELINE	MAR 01	JUN 01	SEP 01	DEC 01	MAR 02	JUN 02	SEP 02	DEC 02	MAR 03	JUN 03	SEP 03	DEC 03	JUN 04	DEC 04
PCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
TCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-DCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-DCE	5.0U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-DCE	5.0U	NS	NS	NS	NS										

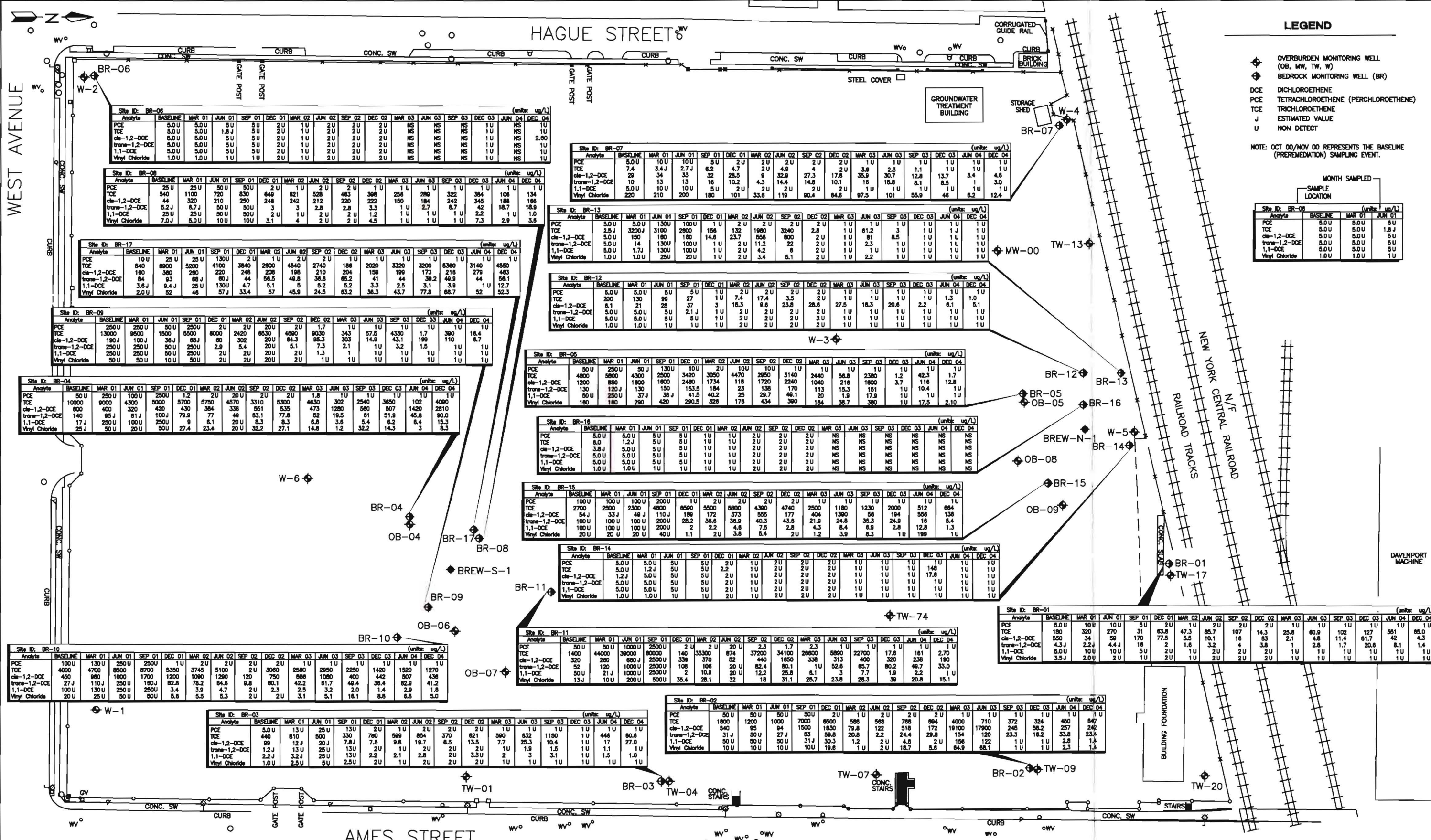
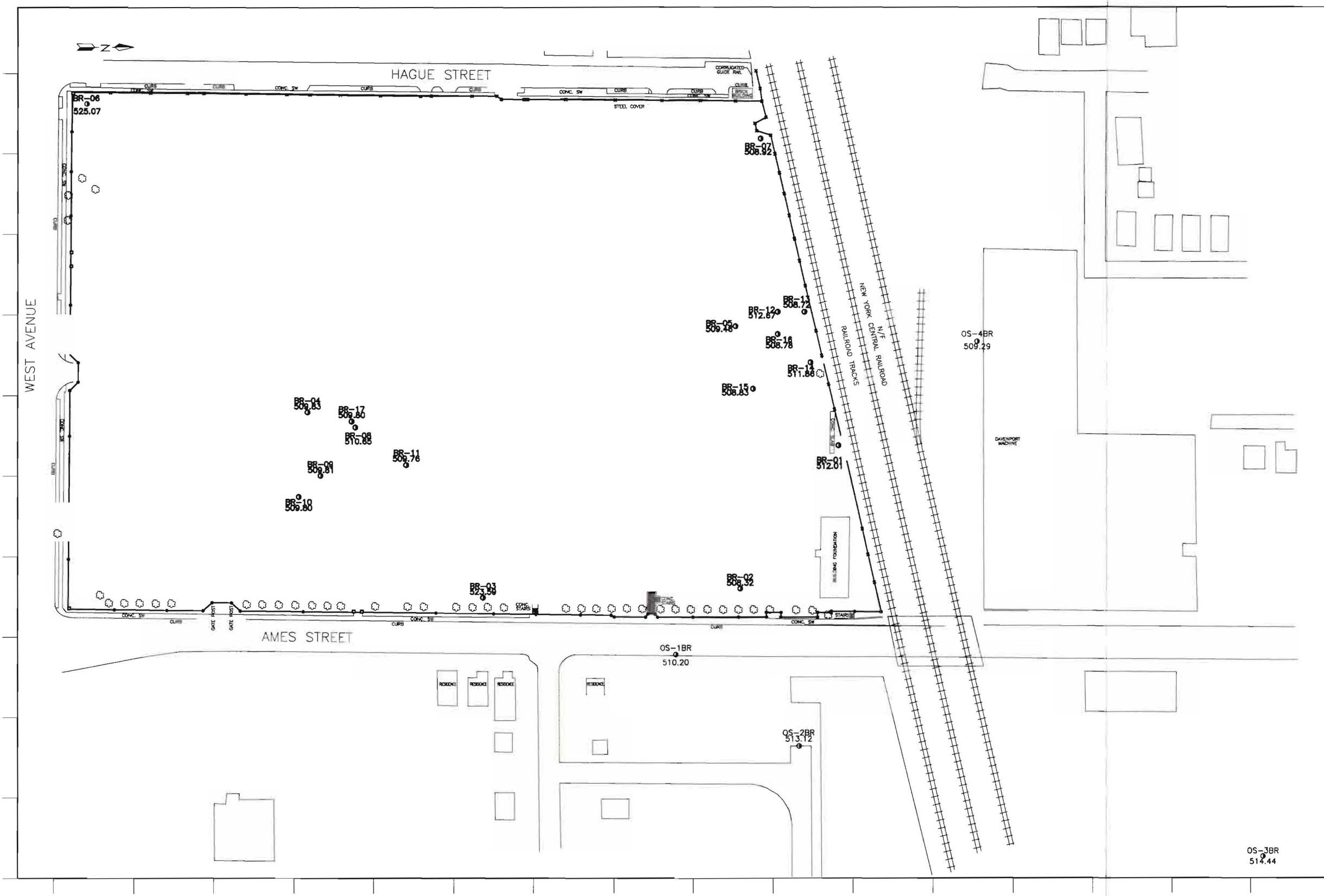


FIGURE 3
VOCs IN BEDROCK MONITORING WELLS
SECOND SEMI-ANNUAL REPORT 2004
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

P:\ZCADD\Cent office projects\51870\oct 2004 pre-shut BR pot mop.dwg Tue, 01 Feb 2005 - 1:43pm REVISED
 PREPARED BY: R. EVERENCE [DATE: 02/01/05] CHECKED BY: J. DEATHERAGE [DATE: 02/01/05]



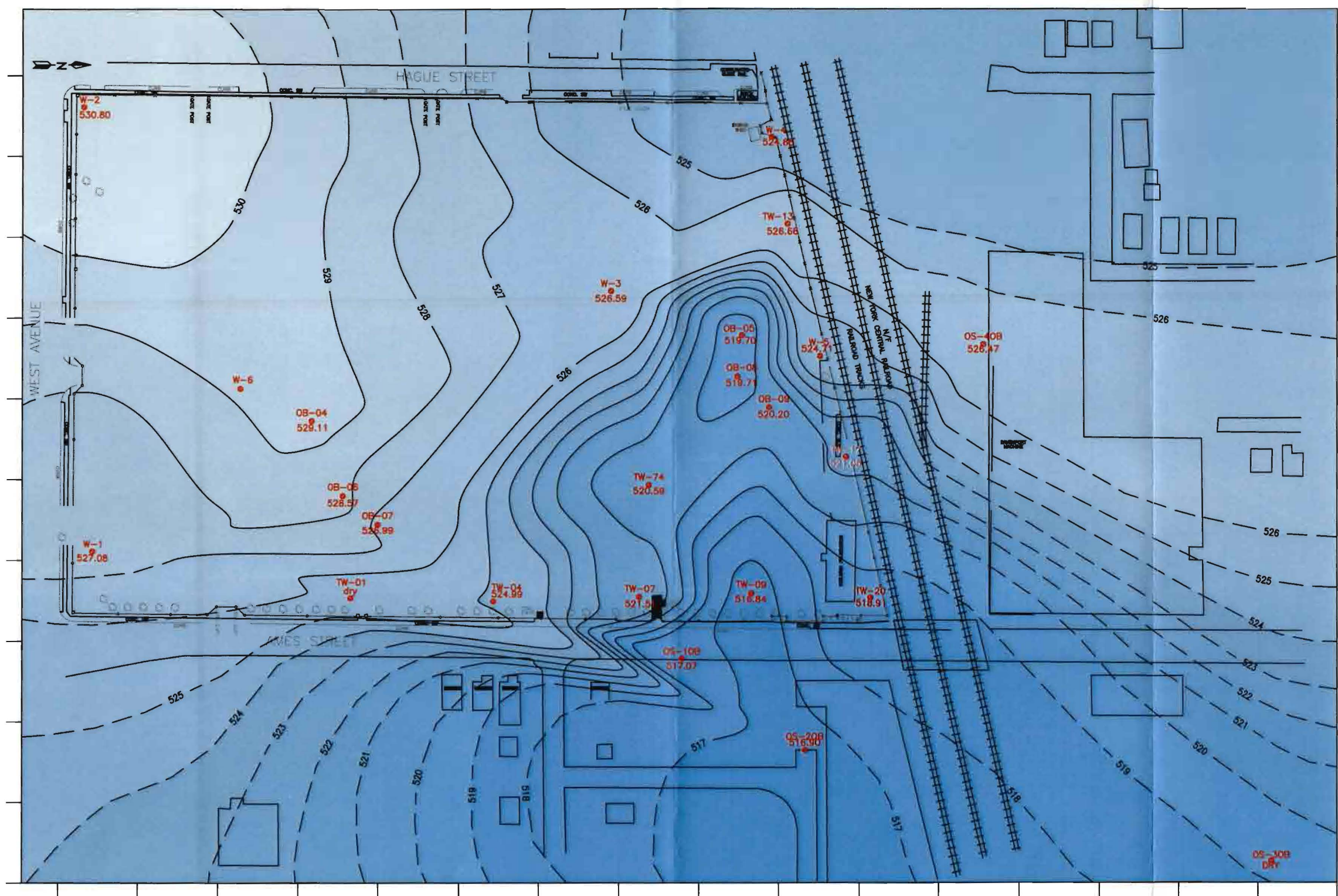
LEGEND	
BR-01	WELL ID
●	MONITORING WELL LOCATION (INCLUDES MW, W, TW, OB)
512.01	WATER LEVEL ELEVATION (feet)

NOTE: DATA FOR MONITOR OS-1BR, OS-2BR, OS-3BR, AND OS-4BR WAS PROVIDED BY HALEY AND ALDRICH OF NEW YORK. DATA COLLECTED ON OCTOBER 20, 2004.

FIGURE 5
BEDROCK GROUNDWATER ELEVATIONS
OCTOBER 2004 PRE-SHUTDOWN
SECOND SEMI-ANNUAL REPORT 2004
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

PREPARED BY: R. EVINCENDE [DATE: 02/07/06] [CHECKED BY: J. DEATHERAGE [DATE: 02/07/06]

C:\GME\Watermain\effluent\project\N.Y. State\2004\are-stud\OB job: mactec.dwg sub: 0: Feb 2006 - 2:51pm 30x40.dwg



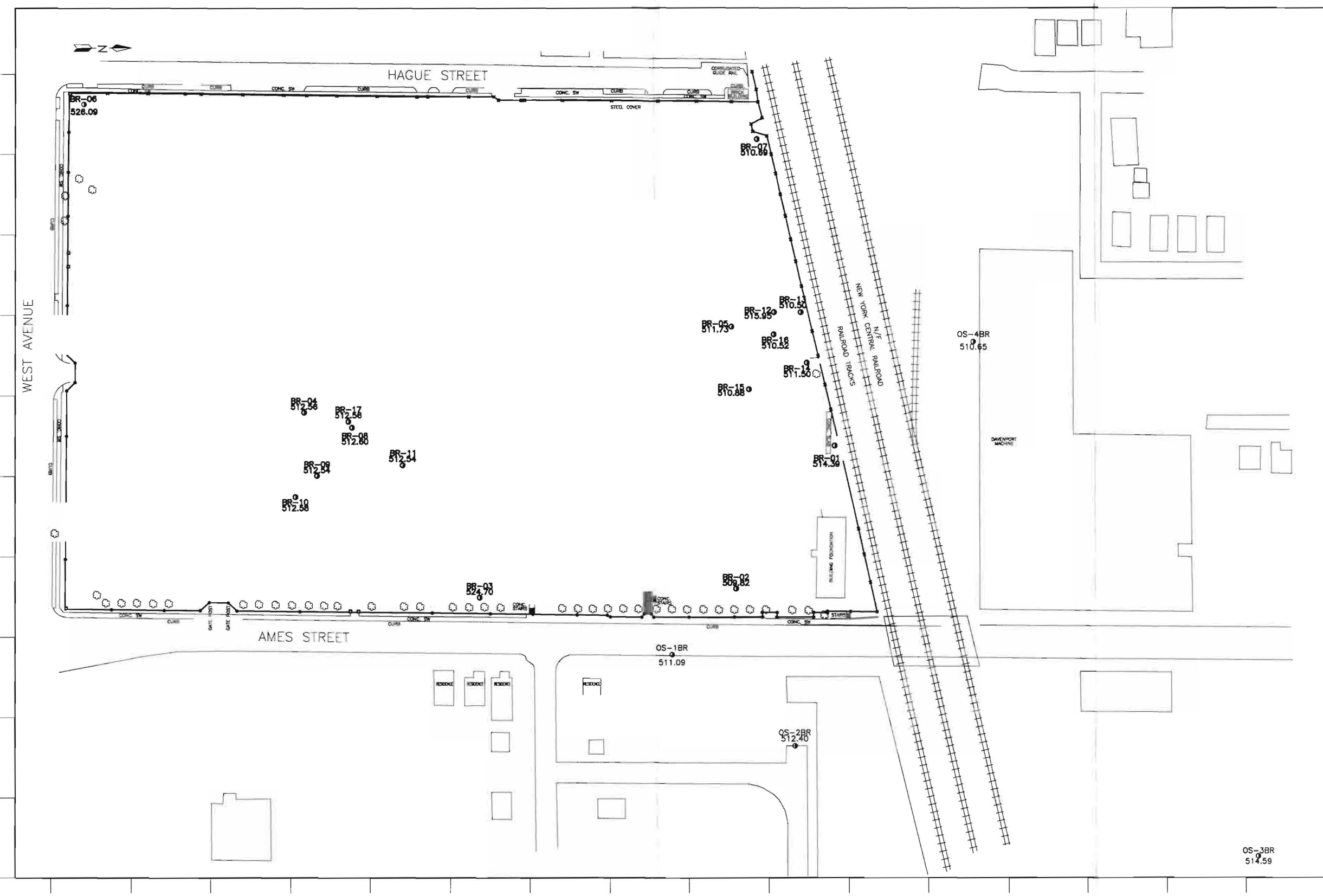
LEGEND

- 520 — CONTOUR LINE
1' INTERVAL
- OB-07 WELL ID
- MONITORING WELL LOCATION
(INCLUDES MW, W, TW, OB)
- 526.99 WATER LEVEL ELEVATION (feet)

NOTE: DATA FOR MONITOR OS-10B, OS-20B, OS-30B, AND OS-40B WAS PROVIDED BY HALEY AND ALDRICH OF NEW YORK. DATA COLLECTED ON NOVEMBER 30, 2004.

FIGURE 6
OVERBURDEN POTENTIOMETRIC SURFACE MAP
NOVEMBER/DECEMBER 2004 SAMPLING EVENT
SECOND SEMI-ANNUAL REPORT 2004
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

P:\ZC005\Cent office projects\51870\dec 2004 pre-shut BR pot map.dwg Tue, 01 Feb 2005 1:47pm REV: 01/05
 PREPARED BY: R. EVERENCE [DATE: 02/01/05] CHECKED BY: J. DEATHERAGE [DATE: 02/01/05]



LEGEND	
BR-01	WELL ID
●	MONITORING WELL LOCATION (INCLUDES MW, W, TW, OB)
514.32	WATER LEVEL ELEVATION (feet)

NOTE: DATA FOR MONITOR OS-1BR, OS-2BR, OS-3BR, AND OS-4BR WAS PROVIDED BY HALEY AND ALDRICH OF NEW YORK. DATA COLLECTED ON NOVEMBER 30, 2004.

FIGURE 7
BEDROCK GROUNDWATER ELEVATIONS
NOVEMBER/DECEMBER 2004 SAMPLING EVENT
SECOND SEMI-ANNUAL REPORT 2004
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
 MACTEC

Figure 8
Average Groundwater Flowrates

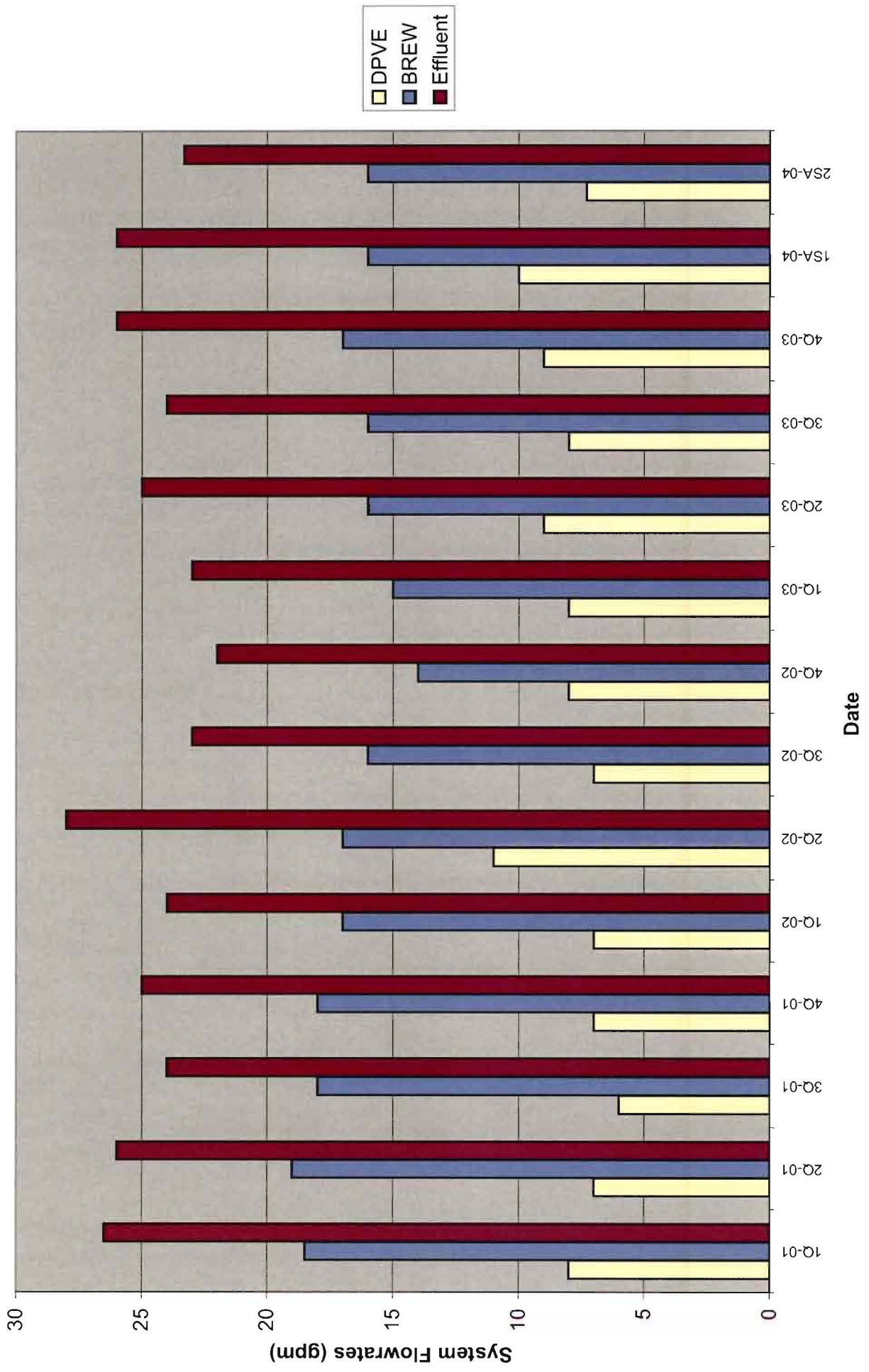


Figure 9
TCE Mass Removed

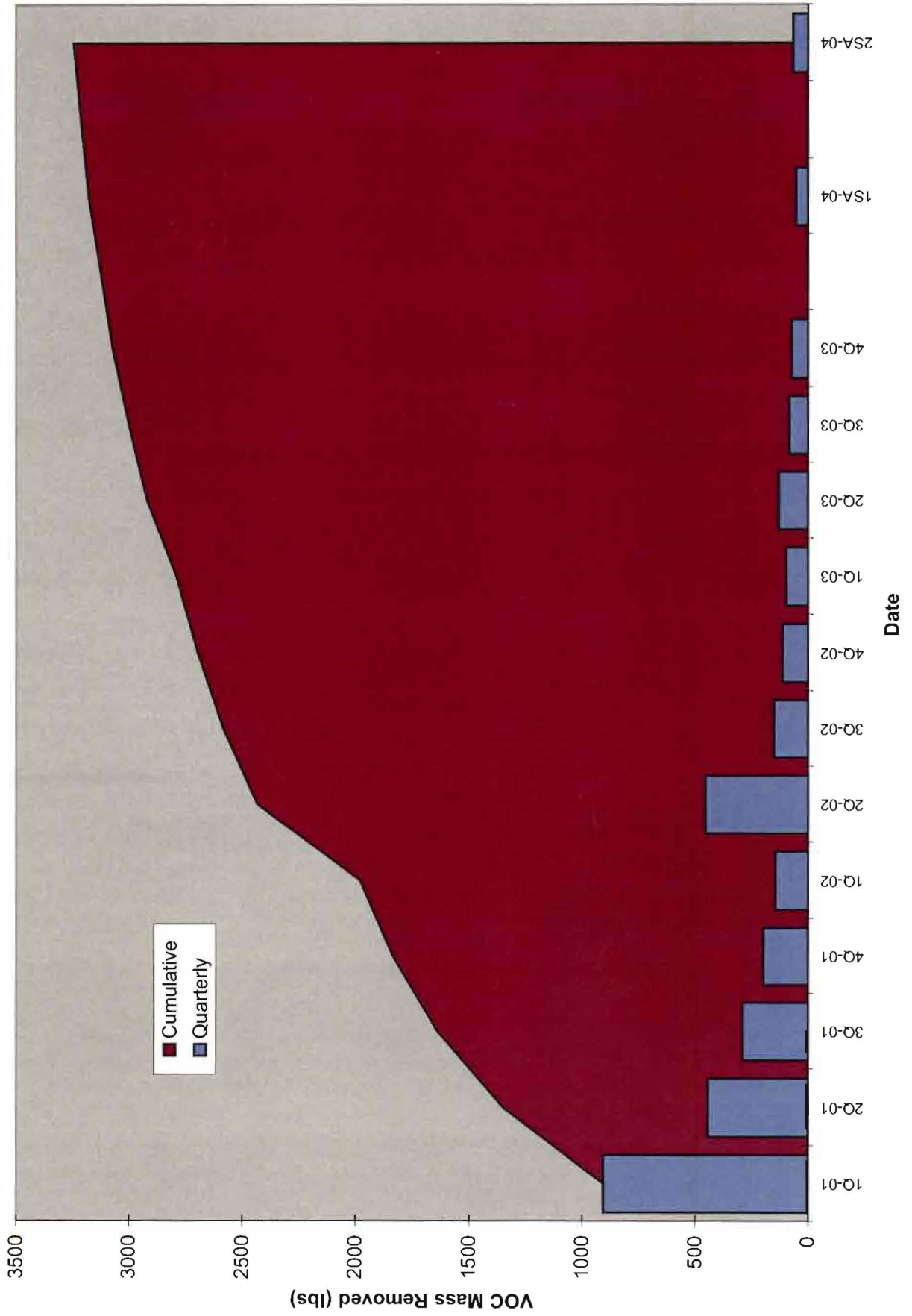


Figure 10
System TCE Effluent Vapor Results

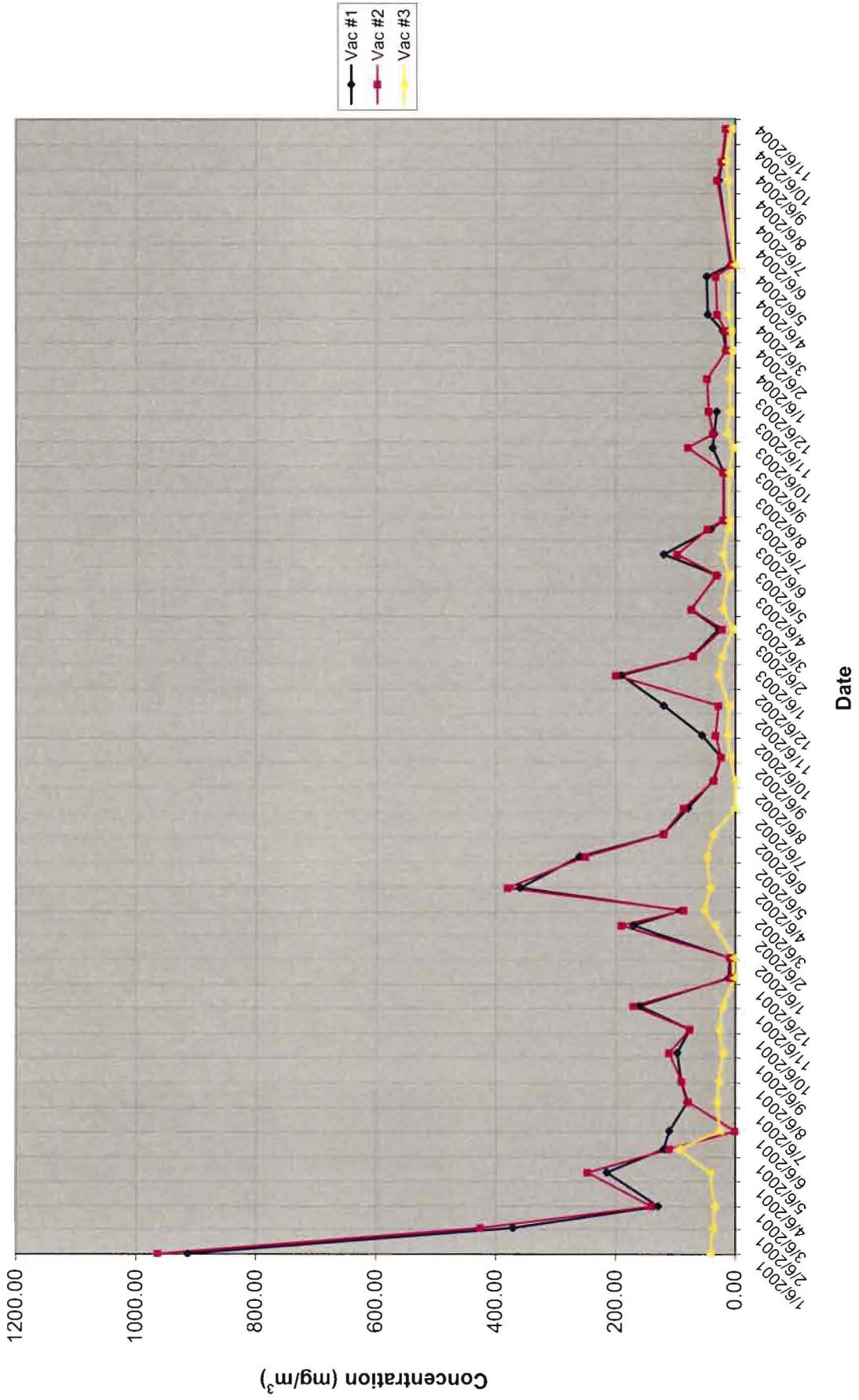
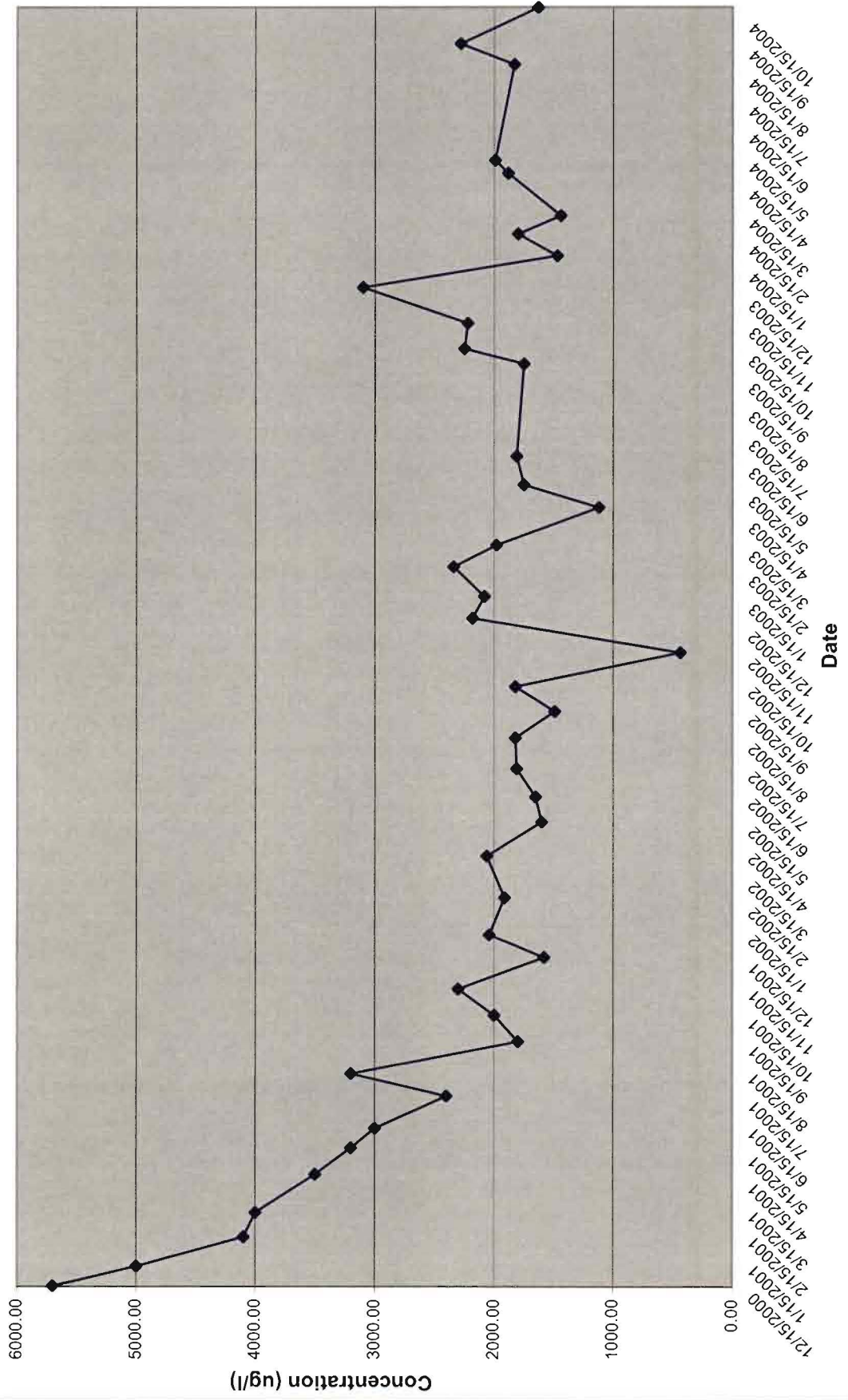


Figure 11
System TCE Influent Groundwater Results



APPENDIX B

LABORATORY REPORTS

NOVEMBER 30, 2004
Analytical Data

12/ 7/04

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: ABB FORMER TAYLOR INSTRU
Project Number: 51870.11.
Laboratory Project Number: 398345.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
QATB01	04-A186863	11/30/04
QAFB01	04-A186864	11/30/04
QARB01	04-A186865	11/30/04
W-2	04-A186866	11/30/04
TW-04	04-A186867	11/30/04
TW-17	04-A186868	11/30/04

Sample Identification	Lab Number	Page 2 Collection Date
-----	-----	-----

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By: Roxanne L. Connor Report Date: 12/ 7/04

Johnny A. Mitchell, Lab Director	Gail A. Lage, Technical Services
Michael H. Dunn, M.S., Technical Director	Glenn L. Norton, Technical Services
Pamela A. Langford, Technical Services	Kelly S. Comstock, Technical Services
Eric S. Smith, QA/QC Director	Roxanne L. Connor, Technical Services
Sandra McMillin, Technical Services	

Laboratory Certification Number: 11342

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If you have received this material in error, please notify us immediately at 615-726-0177.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186863
Sample ID: QATB01
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 10:20
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	4:11	B.Herford	8260B	7481
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186863
Sample ID: QATB01
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	4:11	B.Herford	8260B	7481
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Trichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	4:11	B.Herford	8260B	7481
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	4:11	B.Herford	8260B	7481
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186863
 Sample ID: QATB01
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	4:11	B.Herford	8260B	7481

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186864
Sample ID: QAFB01
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 10:30
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	4:40	B.Herford	8260B	7481
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Chloroform	0.00440	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186864
Sample ID: QAFB01
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	4:40	B.Herford	8260B	7481
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Trichloroethene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	4:40	B.Herford	8260B	7481
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	4:40	B.Herford	8260B	7481
**Bromodichloromethane	0.00360	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186864
 Sample ID: QAFB01
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	4:40	B.Herford	8260B	7481

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186865
Sample ID: QARB01
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 10:35
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Chloroform	0.00380	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Chloromethane	0.00390	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186865
Sample ID: QARB01
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Trichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	18:21	S. Edwards	8260B	8363
**Bromodichloromethane	0.00340	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186865
Sample ID: QARB01
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:21	S. Edwards	8260B	8363

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	93.	79. - 125.
VOA Surr, DEFM	97.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186866
Sample ID: W-2
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 11:40
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186866
Sample ID: W-2
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Trichloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	18:50	S. Edwards	8260B	8363
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186866
 Sample ID: W-2
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:50	S. Edwards	8260B	8363
MISCELLANEOUS GC PARAMETERS									
Carbon Dioxide	5.6	mg/l	3.0	1	12/ 1/04	13:22	T. Beverly	SM4500CO2C	9333
MISCELLANEOUS CHEMISTRY									
**Alkalinity as CaCO3	185.	mg/l	5.00	1	12/ 1/04	23:08	J. Hill	310.1	5131
**Chloride	8.48	mg/l	1.00	1	12/ 1/04	21:45	W. Choate	325.2	5240

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	97.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186867
Sample ID: TW-04
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 13:40
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186867
Sample ID: TW-04
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Trichloroethene	0.0400	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	19:18	S. Edwards	8260B	8363
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186867
 Sample ID: TW-04
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	19:18	S. Edwards	8260B	8363
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	10:22	K. Roberso	RSK175M	6883
Carbon Dioxide	12.8	mg/l	3.0	1	12/ 1/04	13:22	T. Beverly	SM4500CO2C	9333
**Ethene	ND	mg/L	0.026	1	12/ 7/04	10:22	K. Roberso	RSK175M	6883
**Ethane	ND	mg/L	0.026	1	12/ 7/04	10:22	K. Roberso	RSK175M	6883
METALS									
**Ferrous Iron	0.234	mg/l	0.100	1	12/ 1/04	20:21	W. Choate	3500D	5232
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	0.380	mg/l	0.100	1	12/ 1/04	17:55	W. Choate	353.2	5226
**Sulfate	154.	mg/l	10.0	10	12/ 2/04	10:04	M.Shockley	375.4	5686
**Alkalinity as CaCO3	192.	mg/l	5.00	1	12/ 1/04	23:08	J. Hill	310.1	5131
**Total Organic Carbon	1.40	mg/l	1.00	1	12/ 3/04	0:00	S. Prayter	415.1	6297
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	6.04	mg/l	1.00	1	12/ 1/04	21:47	W. Choate	325.2	5240

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	97.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186867
Sample ID: TW-04
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A186868
Sample ID: TW-17
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 11/30/04
Time Collected: 15:05
Date Received: 12/ 1/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186868
Sample ID: TW-17
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**cis-1,2-Dichloroethene	0.00690	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Trichloroethene	0.407	mg/l	0.0100	10	12/ 4/04	18:55	S. Edwards	8260B	8925
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	19:47	S. Edwards	8260B	8363
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186868
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	19:47	S. Edwards	8260B	8363
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	10:38	K. Roberso	RSK175M	6883
Carbon Dioxide	36.9	mg/l	3.0	1	12/ 1/04	13:22	T. Beverly	SM4500CO2C	9333
**Ethene	ND	mg/L	0.026	1	12/ 7/04	10:38	K. Roberso	RSK175M	6883
**Ethane	ND	mg/L	0.026	1	12/ 7/04	10:38	K. Roberso	RSK175M	6883
METALS									
**Ferrous Iron	2.86	mg/l	0.100	1	12/ 1/04	20:21	W. Choate	3500D	5232
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	0.310	mg/l	0.100	1	12/ 1/04	17:55	W. Choate	353.2	5226
**Sulfate	88.5	mg/l	5.00	5	12/ 2/04	10:04	M.Shockley	375.4	5686
**Alkalinity as CaCO3	403.	mg/l	5.00	1	12/ 1/04	23:08	J. Hill	310.1	5131
**Total Organic Carbon	ND	mg/l	1.00	1	12/ 3/04	0:00	S. Prayter	415.1	6297
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	18.9	mg/l	1.00	1	12/ 1/04	21:48	W. Choate	325.2	5240

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	73. - 127.
VOA Surr Toluene-d8	97.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	98.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A186868
Sample ID: TW-17
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LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method prescribed holding time.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 1
Laboratory Receipt Date: 12/ 1/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0507	0.0500	101	62 - 146	7481	04-A187355
Benzene	mg/l	< 0.0010	0.0490	0.0500	98	62 - 146	8363	04-A187550
Chlorobenzene	mg/l	< 0.00100	0.0530	0.0500	106	68 - 139	7481	04-A187355
Chlorobenzene	mg/l	< 0.00100	0.0498	0.0500	100	68 - 139	8363	04-A187550
1,1-Dichloroethene	mg/l	< 0.00100	0.0536	0.0500	107	58 - 152	7481	04-A187355
1,1-Dichloroethene	mg/l	< 0.00100	0.0509	0.0500	102	58 - 152	8363	04-A187550
Toluene	mg/l	< 0.0010	0.0519	0.0500	104	68 - 141	7481	04-A187355
Toluene	mg/l	< 0.0010	0.0489	0.0500	98	68 - 141	8363	04-A187550
Trichloroethene	mg/l	< 0.00100	0.0467	0.0500	93	61 - 161	7481	04-A187355
Trichloroethene	mg/l	< 0.00100	0.0453	0.0500	91	61 - 161	8363	04-A187550
Trichloroethene	mg/l	< 0.00100	0.0458	0.0500	92	61 - 161	8925	188283
Tetrachloroethene	mg/l	< 0.00100	0.0543	0.0500	109	62 - 151	7481	04-A187355
Tetrachloroethene	mg/l	< 0.00100	0.0534	0.0500	107	62 - 151	8363	04-A187550
VOA Surr 1,2-DCA-d4	% Rec				92	73 - 127	7481	
VOA Surr 1,2-DCA-d4	% Rec				95	73 - 127	8363	
VOA Surr 1,2-DCA-d4	% Rec				95	73 - 127	8925	
VOA Surr Toluene-d8	% Rec				101	79 - 113	7481	
VOA Surr Toluene-d8	% Rec				98	79 - 113	8363	
VOA Surr Toluene-d8	% Rec				98	79 - 113	8925	
VOA Surr, 4-BFB	% Rec				92	79 - 125	7481	
VOA Surr, 4-BFB	% Rec				89	79 - 125	8363	
VOA Surr, 4-BFB	% Rec				90	79 - 125	8925	
VOA Surr, DBFM	% Rec				95	75 - 134	7481	
VOA Surr, DBFM	% Rec				97	75 - 134	8363	
VOA Surr, DBFM	% Rec				98	75 - 134	8925	

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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METALS									
Ferrous Iron	mg/l	0.234	1.30	1.00	107	75. - 125.	5232	04-A186867	
Ferrous Iron	mg/l	0.234	1.30	1.00	107	75. - 125.	5232	04-A186867	
MISC PARAMETERS									
Nitrate-N as N	mg/l	0.660	6.73	6.00	101	90. - 110.	5226	04-A186848	
Nitrate-N as N	mg/l	0.660	6.69	6.00	100	90. - 110.	5226	04-A186848	
Sulfate	mg/l	88.5	200.	100.	112	58. - 125.	5686	04-A186868	
Alkalinity as CaCO3	mg/l	185.	282.	100.	97	80. - 120.	5131	04-A186866	
Sulfide	mg/l	< 1.000	19.40	20.00	97	63. - 127.	6175	04-A186867	
Chloride	mg/l	8.48	18.4	10.0	99	71. - 123.	5240	04-A186866	
Methane	mg/L	< 0.026	1.62	1.33	122	62. - 132.	6883	04-A186867	
Ethene	mg/L	< 0.026	2.16	2.32	93	75. - 119.	6883	04-A186867	
Ethane	mg/L	< 0.026	2.34	2.50	94	72. - 119.	6883	04-A186867	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0507	0.0508	0.20	25.	7481
Benzene	mg/l	0.0490	0.0511	4.20	25.	8363
Chlorobenzene	mg/l	0.0530	0.0524	1.14	23.	7481
Chlorobenzene	mg/l	0.0498	0.0537	7.54	23.	8363
1,1-Dichloroethene	mg/l	0.0536	0.0536	0.00	26.	7481
1,1-Dichloroethene	mg/l	0.0509	0.0530	4.04	26.	8363
Toluene	mg/l	0.0519	0.0503	3.13	29.	7481
Toluene	mg/l	0.0489	0.0524	6.91	29.	8363
Trichloroethene	mg/l	0.0467	0.0461	1.29	26.	7481
Trichloroethene	mg/l	0.0453	0.0473	4.32	26.	8363
Trichloroethene	mg/l	0.0458	0.0468	2.16	26.	8925
Tetrachloroethene	mg/l	0.0543	0.0539	0.74	27.	7481
Tetrachloroethene	mg/l	0.0534	0.0565	5.64	27.	8363

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11
 Project Name: ABB FORMER TAYLOR INSTRU
 Page: 3
 Laboratory Receipt Date: 12/ 1/04

VOA Surr 1,2-DCA-d4	% Rec	93.	7481
VOA Surr 1,2-DCA-d4	% Rec	92.	8363
VOA Surr 1,2-DCA-d4	% Rec	95.	8925
VOA Surr Toluene-d8	% Rec	99.	7481
VOA Surr Toluene-d8	% Rec	100.	8363
VOA Surr Toluene-d8	% Rec	99.	8925
VOA Surr, 4-BFB	% Rec	91.	7481
VOA Surr, 4-BFB	% Rec	89.	8363
VOA Surr, 4-BFB	% Rec	91.	8925
VOA Surr, DBFM	% Rec	96.	7481
VOA Surr, DBFM	% Rec	98.	8363
VOA Surr, DBFM	% Rec	99.	8925

****METALS****

Ferrous Iron	mg/l	1.30	1.30	0.00	20	5232
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****MISC PARAMETERS****

Methane	mg/L	1.62	1.37	16.72	50	6883
Ethene	mg/L	2.16	2.18	0.92	50	6883
Ethane	mg/L	2.34	2.36	0.85	50	6883
Nitrate-N as N	mg/l	6.73	6.69	0.60	20	5226
Sulfate	mg/l	200.	200.	0.00	20	5686
Total Organic Carbon	mg/l	24.2	24.2	0.00	20	6297
Sulfide	mg/l	19.40	19.60	1.03	20	6175
Chloride	mg/l	18.4	18.3	0.54	20	5240

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 1/04

****VOA PARAMETERS****

Acetone	mg/l	0.250	0.173	69	55 - 146	7481
Acetone	mg/l	0.250	0.214	86	55 - 146	8363
Benzene	mg/l	0.0500	0.0451	90	76 - 127	7481
Benzene	mg/l	0.0500	0.0496	99	76 - 127	8363
Bromobenzene	mg/l	0.0500	0.0432	86	73 - 125	7481
Bromobenzene	mg/l	0.0500	0.0455	91	73 - 125	8363
Bromochloromethane	mg/l	0.0500	0.0483	97	71 - 137	7481
Bromochloromethane	mg/l	0.0500	0.0531	106	71 - 137	8363
Bromoform	mg/l	0.0500	0.0350	70	56 - 127	7481
Bromoform	mg/l	0.0500	0.0368	74	56 - 127	8363
Bromomethane	mg/l	0.0500	0.0442	88	50 - 166	7481
Bromomethane	mg/l	0.0500	0.0505	101	50 - 166	8363
2-Butanone	mg/l	0.250	0.195	78	63 - 138	7481
2-Butanone	mg/l	0.250	0.238	95	63 - 138	8363
n-Butylbenzene	mg/l	0.0500	0.0408	82	66 - 139	7481
n-Butylbenzene	mg/l	0.0500	0.0478	96	66 - 139	8363
sec-Butylbenzene	mg/l	0.0500	0.0421	84	71 - 136	7481
sec-Butylbenzene	mg/l	0.0500	0.0471	94	71 - 136	8363
tert-Butylbenzene	mg/l	0.0500	0.0428	86	71 - 135	7481
tert-Butylbenzene	mg/l	0.0500	0.0471	94	71 - 135	8363
Carbon disulfide	mg/l	0.0500	0.0401	80	72 - 138	7481
Carbon disulfide	mg/l	0.0500	0.0470	94	72 - 138	8363
Carbon tetrachloride	mg/l	0.0500	0.0387	77	69 - 138	7481
Carbon tetrachloride	mg/l	0.0500	0.0430	86	69 - 138	8363
Chlorobenzene	mg/l	0.0500	0.0476	95	81 - 123	7481
Chlorobenzene	mg/l	0.0500	0.0511	102	81 - 123	8363
Chloroethane	mg/l	0.0500	0.0459	92	56 - 155	7481
Chloroethane	mg/l	0.0500	0.0513	103	56 - 155	8363
Chloroform	mg/l	0.0500	0.0470	94	73 - 128	7481
Chloroform	mg/l	0.0500	0.0508	102	73 - 128	8363
Chloromethane	mg/l	0.0500	0.0443	89	36 - 157	7481
Chloromethane	mg/l	0.0500	0.0521	104	36 - 157	8363
2-Chlorotoluene	mg/l	0.0500	0.0539	108	74 - 131	7481
2-Chlorotoluene	mg/l	0.0500	0.0574	115	74 - 131	8363
4-Chlorotoluene	mg/l	0.0500	0.0482	96	76 - 130	7481

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
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Laboratory Receipt Date: 12/ 1/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
4-Chlorotoluene	mg/l	0.0500	0.0513	103	76 - 130	8363
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0327	65	53 - 138	7481
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0364	73	53 - 138	8363
Dibromochloromethane	mg/l	0.0500	0.0428	86	71 - 128	7481
Dibromochloromethane	mg/l	0.0500	0.0451	90	71 - 128	8363
1,2-Dibromoethane	mg/l	0.0500	0.0459	92	71 - 134	7481
1,2-Dibromoethane	mg/l	0.0500	0.0479	96	71 - 134	8363
Dibromomethane	mg/l	0.0500	0.0455	91	72 - 134	7481
Dibromomethane	mg/l	0.0500	0.0473	95	72 - 134	8363
1,2-Dichlorobenzene	mg/l	0.0500	0.0488	98	80 - 128	7481
1,2-Dichlorobenzene	mg/l	0.0500	0.0520	104	80 - 128	8363
1,3-Dichlorobenzene	mg/l	0.0500	0.0482	96	80 - 126	7481
1,3-Dichlorobenzene	mg/l	0.0500	0.0512	102	80 - 126	8363
1,4-Dichlorobenzene	mg/l	0.0500	0.0485	97	79 - 124	7481
1,4-Dichlorobenzene	mg/l	0.0500	0.0525	105	79 - 124	8363
Dichlorodifluoromethane	mg/l	0.0500	0.0412	82	35 - 160	7481
Dichlorodifluoromethane	mg/l	0.0500	0.0512	102	35 - 160	8363
1,1-Dichloroethane	mg/l	0.0500	0.0458	92	74 - 131	7481
1,1-Dichloroethane	mg/l	0.0500	0.0504	101	74 - 131	8363
1,2-Dichloroethane	mg/l	0.0500	0.0436	87	72 - 129	7481
1,2-Dichloroethane	mg/l	0.0500	0.0462	92	72 - 129	8363
1,1-Dichloroethene	mg/l	0.0500	0.0462	92	73 - 137	7481
1,1-Dichloroethene	mg/l	0.0500	0.0527	105	73 - 137	8363
cis-1,2-Dichloroethene	mg/l	0.0500	0.0407	81	67 - 137	7481
cis-1,2-Dichloroethene	mg/l	0.0500	0.0460	92	67 - 137	8363
trans-1,2-Dichloroethene	mg/l	0.0500	0.0430	86	70 - 138	7481
trans-1,2-Dichloroethene	mg/l	0.0500	0.0480	96	70 - 138	8363
1,2-Dichloropropane	mg/l	0.0500	0.0450	90	78 - 131	7481
1,2-Dichloropropane	mg/l	0.0500	0.0483	97	78 - 131	8363
1,3-Dichloropropane	mg/l	0.0500	0.0464	93	77 - 127	7481
1,3-Dichloropropane	mg/l	0.0500	0.0491	98	77 - 127	8363

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 1/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2,2-Dichloropropane	mg/l	0.0500	0.0364	73	43 - 146	7481
2,2-Dichloropropane	mg/l	0.0500	0.0534	107	43 - 146	8363
1,1-Dichloropropene	mg/l	0.0500	0.0404	81	75 - 132	7481
1,1-Dichloropropene	mg/l	0.0500	0.0461	92	75 - 132	8363
cis-1,3-Dichloropropene	mg/l	0.0500	0.0389	78	62 - 135	7481
cis-1,3-Dichloropropene	mg/l	0.0500	0.0424	85	62 - 135	8363
trans-1,3-Dichloropropene	mg/l	0.0500	0.0370	74	58 - 130	7481
trans-1,3-Dichloropropene	mg/l	0.0500	0.0414	83	58 - 130	8363
Ethylbenzene	mg/l	0.0500	0.0463	93	80 - 124	7481
Ethylbenzene	mg/l	0.0500	0.0508	102	80 - 124	8363
Hexachlorobutadiene	mg/l	0.0500	0.0435	87	63 - 140	7481
Hexachlorobutadiene	mg/l	0.0500	0.0518	104	63 - 140	8363
2-Hexanone	mg/l	0.250	0.203	81	66 - 138	7481
2-Hexanone	mg/l	0.250	0.215	86	66 - 138	8363
Isopropylbenzene	mg/l	0.0500	0.0437	87	67 - 137	7481
Isopropylbenzene	mg/l	0.0500	0.0476	95	67 - 137	8363
p-Isopropyltoluene	mg/l	0.0500	0.0437	87	74 - 133	7481
p-Isopropyltoluene	mg/l	0.0500	0.0492	98	74 - 133	8363
4-Methyl-2-pentanone	mg/l	0.250	0.217	87	68 - 139	7481
4-Methyl-2-pentanone	mg/l	0.250	0.224	90	68 - 139	8363
Methylene chloride	mg/l	0.0500	0.0474	95	71 - 138	7481
Methylene chloride	mg/l	0.0500	0.0524	105	71 - 138	8363
Naphthalene	mg/l	0.0500	0.0418	84	61 - 143	7481
Naphthalene	mg/l	0.0500	0.0461	92	61 - 143	8363
n-Propylbenzene	mg/l	0.0500	0.0443	89	70 - 136	7481
n-Propylbenzene	mg/l	0.0500	0.0488	98	70 - 136	8363
Styrene	mg/l	0.0500	0.0460	92	81 - 130	7481
Styrene	mg/l	0.0500	0.0491	98	81 - 130	8363
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0446	89	82 - 128	7481
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0475	95	82 - 128	8363
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0488	98	62 - 134	7481

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

Page: 7

Laboratory Receipt Date: 12/ 1/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0542	108	62 - 134	8363
Tetrachloroethene	mg/l	0.0500	0.0479	96	78 - 131	7481
Tetrachloroethene	mg/l	0.0500	0.0531	106	78 - 131	8363
Toluene	mg/l	0.0500	0.0449	90	79 - 124	7481
Toluene	mg/l	0.0500	0.0495	99	79 - 124	8363
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0463	93	68 - 136	7481
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0516	103	68 - 136	8363
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0452	90	65 - 138	7481
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0497	99	65 - 138	8363
1,1,1-Trichloroethane	mg/l	0.0500	0.0415	83	73 - 131	7481
1,1,1-Trichloroethane	mg/l	0.0500	0.0463	93	73 - 131	8363
1,1,2-Trichloroethane	mg/l	0.0500	0.0483	97	79 - 126	7481
1,1,2-Trichloroethane	mg/l	0.0500	0.0481	96	79 - 126	8363
Trichloroethene	mg/l	0.0500	0.0425	85	76 - 140	7481
Trichloroethene	mg/l	0.0500	0.0456	91	76 - 140	8363
Trichloroethene	mg/l	0.0500	0.0462	92	76 - 140	8925
1,2,3-Trichloropropane	mg/l	0.0500	0.0383	77	57 - 136	7481
1,2,3-Trichloropropane	mg/l	0.0500	0.0407	81	57 - 136	8363
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0427	85	74 - 131	7481
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0460	92	74 - 131	8363
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0439	88	78 - 129	7481
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0479	96	78 - 129	8363
Vinyl chloride	mg/l	0.0500	0.0416	83	51 - 150	7481
Vinyl chloride	mg/l	0.0500	0.0491	98	51 - 150	8363
Xylenes (Total)	mg/l	0.150	0.138	92	80 - 125	7481
Xylenes (Total)	mg/l	0.150	0.150	100	80 - 125	8363
Bromodichloromethane	mg/l	0.0500	0.0415	83	76 - 134	7481
Bromodichloromethane	mg/l	0.0500	0.0428	86	76 - 134	8363
Trichlorofluoromethane	mg/l	0.0500	0.0433	87	55 - 150	7481
Trichlorofluoromethane	mg/l	0.0500	0.0505	101	55 - 150	8363
Methane	mg/L	1.33	1.41	106	79 - 121	6883

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 8
Laboratory Receipt Date: 12/ 1/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Carbon Dioxide	mg/l	100.	109.	109	90 - 110	9333
Ethene	mg/L	2.32	2.24	97	77 - 119	6883
Ethane	mg/L	2.50	2.42	97	78 - 118	6883
VOA Surr 1,2-DCA-d4	% Rec			94	73 - 127	7481
VOA Surr 1,2-DCA-d4	% Rec			93	73 - 127	8363
VOA Surr 1,2-DCA-d4	% Rec			95	73 - 127	8925
VOA Surr Toluene-d8	% Rec			99	79 - 113	7481
VOA Surr Toluene-d8	% Rec			100	79 - 113	8363
VOA Surr Toluene-d8	% Rec			100	79 - 113	8925
VOA Surr, 4-BFB	% Rec			91	79 - 125	7481
VOA Surr, 4-BFB	% Rec			90	79 - 125	8363
VOA Surr, 4-BFB	% Rec			89	79 - 125	8925
VOA Surr, DBFM	% Rec			97	75 - 134	7481
VOA Surr, DBFM	% Rec			99	75 - 134	8363
VOA Surr, DBFM	% Rec			97	75 - 134	8925
METALS						
Ferrous Iron	mg/l	1.00	1.04	104	80 - 120	5232
MISC PARAMETERS						
Nitrate-N as N	mg/l	6.00	6.11	102	90 - 110	5226
Sulfate	mg/l	25.0	25.2	101	88 - 111	5686
Alkalinity as CaCO3	mg/l	100.	97.2	97	90 - 110	5131
Total Organic Carbon	mg/l	200.	188.	94	87 - 110	6297
Sulfide	mg/l	20.00	19.50	98	90 - 110	6175
Chloride	mg/l	10.0	10.2	102	87 - 113	5240

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 9
Laboratory Receipt Date: 12/ 1/04

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Ferrous Iron	mg/l	< 0.100	< 0.100	N/A	15.	5232	04-A187104
Nitrate-N as N	mg/l	2.90	2.94	1.37	15.	5226	04-A187221
Sulfate	mg/l	154.	154.	0.00	15.	5686	04-A186867
Alkalinity as CaCO3	mg/l	45.4	45.6	0.44	15.	5131	04-A187219
Sulfide	mg/l	< 1.000	< 1.000	N/A	15.	6175	04-A187683
Chloride	mg/l	18.9	19.0	0.53	15.	5240	04-A186868
Carbon Dioxide	mg/l	36.9	36.6	0.82	15.	9333	04-A186868

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00810	mg/l	7481	12/ 3/04	3:42
Acetone	< 0.00810	mg/l	8363	12/ 3/04	15:59
Benzene	< 0.0003	mg/l	7481	12/ 3/04	3:42
Benzene	< 0.0003	mg/l	8363	12/ 3/04	15:59
Bromobenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
Bromobenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Bromochloromethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
Bromochloromethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
Bromoform	< 0.00020	mg/l	7481	12/ 3/04	3:42
Bromoform	< 0.00020	mg/l	8363	12/ 3/04	15:59
Bromomethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
Bromomethane	< 0.00030	mg/l	8363	12/ 3/04	15:59

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 1/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Butanone	< 0.00620	mg/l	7481	12/ 3/04	3:42
2-Butanone	< 0.00620	mg/l	8363	12/ 3/04	15:59
n-Butylbenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
n-Butylbenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
sec-Butylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
sec-Butylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
tert-Butylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
tert-Butylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
Carbon disulfide	< 0.00030	mg/l	7481	12/ 3/04	3:42
Carbon disulfide	< 0.00030	mg/l	8363	12/ 3/04	15:59
Carbon tetrachloride	< 0.00030	mg/l	7481	12/ 3/04	3:42
Carbon tetrachloride	< 0.00030	mg/l	8363	12/ 3/04	15:59
Chlorobenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
Chlorobenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Chloroethane	< 0.00080	mg/l	7481	12/ 3/04	3:42
Chloroethane	< 0.00080	mg/l	8363	12/ 3/04	15:59
Chloroform	< 0.00030	mg/l	7481	12/ 3/04	3:42
Chloroform	< 0.00030	mg/l	8363	12/ 3/04	15:59
Chloromethane	< 0.00060	mg/l	7481	12/ 3/04	3:42
Chloromethane	< 0.00060	mg/l	8363	12/ 3/04	15:59
2-Chlorotoluene	< 0.00040	mg/l	7481	12/ 3/04	3:42
2-Chlorotoluene	< 0.00040	mg/l	8363	12/ 3/04	15:59
4-Chlorotoluene	< 0.00020	mg/l	7481	12/ 3/04	3:42
4-Chlorotoluene	< 0.00020	mg/l	8363	12/ 3/04	15:59
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	7481	12/ 3/04	3:42
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	8363	12/ 3/04	15:59
Dibromochloromethane	< 0.00060	mg/l	7481	12/ 3/04	3:42
Dibromochloromethane	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,2-Dibromoethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dibromoethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
Dibromomethane	< 0.00050	mg/l	7481	12/ 3/04	3:42

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 1/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dibromomethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,2-Dichlorobenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dichlorobenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,3-Dichlorobenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,3-Dichlorobenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,4-Dichlorobenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,4-Dichlorobenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
Dichlorodifluoromethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
Dichlorodifluoromethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,1-Dichloroethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1-Dichloroethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,2-Dichloroethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dichloroethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1-Dichloroethene	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1-Dichloroethene	< 0.00030	mg/l	8363	12/ 3/04	15:59
cis-1,2-Dichloroethene	< 0.00060	mg/l	7481	12/ 3/04	3:42
cis-1,2-Dichloroethene	< 0.00060	mg/l	8363	12/ 3/04	15:59
trans-1,2-Dichloroethene	< 0.00040	mg/l	7481	12/ 3/04	3:42
trans-1,2-Dichloroethene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,2-Dichloropropane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,2-Dichloropropane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,3-Dichloropropane	< 0.00020	mg/l	7481	12/ 3/04	3:42
1,3-Dichloropropane	< 0.00020	mg/l	8363	12/ 3/04	15:59
2,2-Dichloropropane	< 0.00040	mg/l	7481	12/ 3/04	3:42
2,2-Dichloropropane	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1-Dichloropropene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,1-Dichloropropene	< 0.00040	mg/l	8363	12/ 3/04	15:59
cis-1,3-Dichloropropene	< 0.00050	mg/l	7481	12/ 3/04	3:42
cis-1,3-Dichloropropene	< 0.00050	mg/l	8363	12/ 3/04	15:59
trans-1,3-Dichloropropene	< 0.00060	mg/l	7481	12/ 3/04	3:42
trans-1,3-Dichloropropene	< 0.00060	mg/l	8363	12/ 3/04	15:59

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 12
Laboratory Receipt Date: 12/ 1/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Ethylbenzene	< 0.0002	mg/l	7481	12/ 3/04	3:42
Ethylbenzene	< 0.0002	mg/l	8363	12/ 3/04	15:59
Hexachlorobutadiene	< 0.00080	mg/l	7481	12/ 3/04	3:42
Hexachlorobutadiene	< 0.00080	mg/l	8363	12/ 3/04	15:59
2-Hexanone	< 0.00280	mg/l	7481	12/ 3/04	3:42
2-Hexanone	< 0.00280	mg/l	8363	12/ 3/04	15:59
Isopropylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
Isopropylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
p-Isopropyltoluene	< 0.00040	mg/l	7481	12/ 3/04	3:42
p-Isopropyltoluene	< 0.00040	mg/l	8363	12/ 3/04	15:59
4-Methyl-2-pentanone	< 0.00230	mg/l	7481	12/ 3/04	3:42
4-Methyl-2-pentanone	< 0.00230	mg/l	8363	12/ 3/04	15:59
Methylene chloride	< 0.00190	mg/l	7481	12/ 3/04	3:42
Methylene chloride	< 0.00190	mg/l	8363	12/ 3/04	15:59
Naphthalene	< 0.00120	mg/l	7481	12/ 3/04	3:42
Naphthalene	< 0.00120	mg/l	8363	12/ 3/04	15:59
n-Propylbenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
n-Propylbenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Styrene	< 0.00040	mg/l	7481	12/ 3/04	3:42
Styrene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
Tetrachloroethene	< 0.00050	mg/l	7481	12/ 3/04	3:42
Tetrachloroethene	< 0.00050	mg/l	8363	12/ 3/04	15:59
Toluene	< 0.0002	mg/l	7481	12/ 3/04	3:42
Toluene	< 0.0002	mg/l	8363	12/ 3/04	15:59
1,2,3-Trichlorobenzene	< 0.00060	mg/l	7481	12/ 3/04	3:42
1,2,3-Trichlorobenzene	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7481	12/ 3/04	3:42

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 13
Laboratory Receipt Date: 12/ 1/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,1,1-Trichloroethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1,1-Trichloroethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,1,2-Trichloroethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
1,1,2-Trichloroethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
Trichloroethene	< 0.00030	mg/l	7481	12/ 3/04	3:42
Trichloroethene	< 0.00030	mg/l	8363	12/ 3/04	15:59
Trichloroethene	< 0.00030	mg/l	8925	12/ 4/04	14:11
1,2,3-Trichloropropane	< 0.00070	mg/l	7481	12/ 3/04	3:42
1,2,3-Trichloropropane	< 0.00070	mg/l	8363	12/ 3/04	15:59
1,2,4-Trimethylbenzene	< 0.0004	mg/l	7481	12/ 3/04	3:42
1,2,4-Trimethylbenzene	< 0.0004	mg/l	8363	12/ 3/04	15:59
1,3,5-Trimethylbenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
1,3,5-Trimethylbenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Vinyl chloride	< 0.00060	mg/l	7481	12/ 3/04	3:42
Vinyl chloride	< 0.00060	mg/l	8363	12/ 3/04	15:59
Xylenes (Total)	< 0.0006	mg/l	7481	12/ 3/04	3:42
Xylenes (Total)	< 0.0006	mg/l	8363	12/ 3/04	15:59
Bromodichloromethane	< 0.00090	mg/l	7481	12/ 3/04	3:42
Bromodichloromethane	< 0.00090	mg/l	8363	12/ 3/04	15:59
Trichlorofluoromethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
Trichlorofluoromethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
VOA Surr 1,2-DCA-d4	92.	% Rec	7481	12/ 3/04	3:42
VOA Surr 1,2-DCA-d4	94.	% Rec	8363	12/ 3/04	15:59
VOA Surr 1,2-DCA-d4	93.	% Rec	8925	12/ 4/04	14:11
VOA Surr Toluene-d8	100.	% Rec	7481	12/ 3/04	3:42
VOA Surr Toluene-d8	98.	% Rec	8363	12/ 3/04	15:59
VOA Surr Toluene-d8	97.	% Rec	8925	12/ 4/04	14:11
VOA Surr, 4-BFB	93.	% Rec	7481	12/ 3/04	3:42
VOA Surr, 4-BFB	94.	% Rec	8363	12/ 3/04	15:59
VOA Surr, 4-BFB	92.	% Rec	8925	12/ 4/04	14:11

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 1/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, DBFM	95.	% Rec	7481	12/ 3/04	3:42
VOA Surr, DBFM	96.	% Rec	8363	12/ 3/04	15:59
VOA Surr, DBFM	98.	% Rec	8925	12/ 4/04	14:11
METALS					
Ferrous Iron	< 0.100	mg/l	5232	12/ 1/04	20:21
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	5226	12/ 1/04	17:49
Sulfate	< 1.00	mg/l	5686	12/ 2/04	10:04
Alkalinity as CaCO3	< 5.00	mg/l	5131	12/ 1/04	23:08
Total Organic Carbon	< 1.00	mg/l	6297	12/ 3/04	0:00
Sulfide	< 1.000	mg/l	6175	12/ 2/04	17:10
Chloride	< 1.00	mg/l	5240	12/ 1/04	21:43
Methane	< 0.026	mg/L	6883	12/ 7/04	10:06
Carbon Dioxide	< 5.0	mg/l	9333	12/ 1/04	13:22
Ethene	< 0.026	mg/L	6883	12/ 7/04	10:06
Ethane	< 0.026	mg/L	6883	12/ 7/04	10:06

= Value outside Laboratory historical or method prescribed QC limits.

December 1, 2004
Analytical Data

12/ 8/04

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: ABB FORMER TAYLOR INSTRU
Project Number: 51870.11.
Laboratory Project Number: 398513.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
TW-20	04-A187680	12/ 1/04
TW-07	04-A187681	12/ 1/04
OB-09	04-A187682	12/ 1/04
OB-07	04-A187683	12/ 1/04
Trip Blank	04-A187684	

Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By:

Roxanne L. Connor

Report Date: 12/ 8/04

Johnny A. Mitchell, Lab Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 11342

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ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A187680
Sample ID: TW-20
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 1/04
Time Collected: 8:35
Date Received: 12/ 2/04
Time Received: 8:35
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Benzene	ND	mg/l	0.0010	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Bromobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Bromoform	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Bromomethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**2-Butanone	ND	mg/l	0.0250	1	12/ 2/04	23:18	B.Herford	8260B	7461
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Chloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Chloroform	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Chloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Dibromomethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187680
Sample ID: TW-20
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**2-Hexanone	ND	mg/l	0.00500	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Methylene chloride	ND	mg/l	0.00250	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Naphthalene	ND	mg/l	0.00500	1	12/ 2/04	23:18	B.Herford	8260B	7461
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Styrene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Toluene	ND	mg/l	0.0010	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Trichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	23:18	B.Herford	8260B	7461
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 2/04	23:18	B.Herford	8260B	7461
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187680
 Sample ID: TW-20
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 2/04	23:18	B.Herford	8260B	7461
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	11:38	K. Roberso	RSK175M	6883
Carbon Dioxide	33.4	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	11:38	K. Roberso	RSK175M	6883
**Ethane	ND	mg/L	0.026	1	12/ 7/04	11:38	K. Roberso	RSK175M	6883
METALS									
**Ferrous Iron	0.102	mg/l	0.100	1	12/ 2/04	17:27	W. Choate	3500D	6334
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	1.41	mg/l	0.100	1	12/ 3/04	1:59	J. Hill	353.2	6256
**Sulfate	68.0	mg/l	2.00	2	12/ 3/04	9:35	M.Shockley	375.4	7359
Alkalinity as CaCO3	338.	mg/l	5.00	1	12/ 2/03	18:00	J. Hill	310.1	6262
**Total Organic Carbon	ND	mg/l	1.00	1	12/ 3/04	20:36	M.Checolle	415.1	6299
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	24.0	mg/l	1.00	1	12/ 4/04	22:50	W. Choate	325.2	6391

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	93.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187680
Sample ID: TW-20
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A187681
Sample ID: TW-07
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 1/04
Time Collected: 10:15
Date Received: 12/ 2/04
Time Received: 8:35
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	12:29	B.Herford	8260B	7481
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187681

Sample ID: TW-07

Project: 51870.11

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**cis-1,2-Dichloroethene	0.00560	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**trans-1,2-Dichloroethene	0.00840	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	12:29	B.Herford	8260B	7481
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Trichloroethene	0.0230	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	12:29	B.Herford	8260B	7481
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	12:29	B.Herford	8260B	7481
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187681
Sample ID: TW-07
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	12:29	B.Herford	8260B	7481
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	14:15	K. Roberso	RSK175M	9864
Carbon Dioxide	40.5	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	14:15	K. Roberso	RSK175M	9864
**Ethane	ND	mg/L	0.026	1	12/ 7/04	14:15	K. Roberso	RSK175M	9864
METALS									
**Ferrous Iron	0.384	mg/l	0.100	1	12/ 2/04	17:27	W. Choate	3500D	6334
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	11.5	mg/l	0.100	1	12/ 3/04	2:01	J. Hill	353.2	6256
**Sulfate	400.	mg/l	20.0	20	12/ 3/04	9:35	M.Shockley	375.4	7359
Alkalinity as CaCO3	327.	mg/l	5.00	1	12/ 2/03	18:00	J. Hill	310.1	6262
**Total Organic Carbon	1.20	mg/l	1.00	1	12/ 3/04	20:36	M.Checolle	415.1	6299
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	22.5	mg/l	1.00	1	12/ 4/04	22:51	W. Choate	325.2	6391

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	94.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187681
Sample ID: TW-07
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A187682
Sample ID: OB-09
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 1/04
Time Collected: 13:30
Date Received: 12/ 2/04
Time Received: 8:35
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187682
Sample ID: OB-09
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**cis-1,2-Dichloroethene	0.00250	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Trichloroethene	0.0583	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	17:53	S. Edwards	8260B	8363
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187682
Sample ID: OB-09
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	17:53	S. Edwards	8260B	8363
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	14:18	K. Roberso	RSK175M	9864
Carbon Dioxide	14.8	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	14:18	K. Roberso	RSK175M	9864
**Ethane	ND	mg/L	0.026	1	12/ 7/04	14:18	K. Roberso	RSK175M	9864
METALS									
**Ferrous Iron	0.139	mg/l	0.100	1	12/ 2/04	17:27	W. Choate	3500D	6334
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	1.92	mg/l	0.100	1	12/ 3/04	2:02	J. Hill	353.2	6256
**Sulfate	223.	mg/l	10.0	10	12/ 3/04	9:35	M.Shockley	375.4	7359
Alkalinity as CaCO3	241.	mg/l	5.00	1	12/ 2/03	18:00	J. Hill	310.1	6262
**Total Organic Carbon	ND	mg/l	1.00	1	12/ 3/04	20:36	M.Checolle	415.1	6299
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	9.65	mg/l	1.00	1	12/ 4/04	23:02	W. Choate	325.2	6391

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187682
Sample ID: OB-09
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A187683
Sample ID: OB-07
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 1/04
Time Collected: 14:45
Date Received: 12/ 2/04
Time Received: 8:35
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Benzene	ND	mg/l	0.0010	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Bromobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Bromoform	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Bromomethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**2-Butanone	ND	mg/l	0.0250	1	12/ 2/04	23:47	B.Herford	8260B	7461
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Chloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Chloroform	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Chloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Dibromomethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187683
Sample ID: OB-07
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**2-Hexanone	ND	mg/l	0.00500	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Methylene chloride	ND	mg/l	0.00250	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Naphthalene	ND	mg/l	0.00500	1	12/ 2/04	23:47	B.Herford	8260B	7461
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Styrene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Toluene	ND	mg/l	0.0010	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Trichloroethene	0.0110	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	23:47	B.Herford	8260B	7461
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 2/04	23:47	B.Herford	8260B	7461
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187683
Sample ID: OB-07
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 2/04	23:47	B.Herford	8260B	7461
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	14:21	K. Roberso	RSK175M	9864
Carbon Dioxide	7.8	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	14:21	K. Roberso	RSK175M	9864
**Ethane	ND	mg/L	0.026	1	12/ 7/04	14:21	K. Roberso	RSK175M	9864
METALS									
**Ferrous Iron	0.184	mg/l	0.100	1	12/ 2/04	17:27	W. Choate	3500D	6334
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	3.90	mg/l	0.100	1	12/ 3/04	2:02	J. Hill	353.2	6256
**Sulfate	361.	mg/l	10.0	10	12/ 3/04	9:35	M.Shockley	375.4	7359
Alkalinity as CaCO3	127.	mg/l	5.00	1	12/ 2/03	18:00	J. Hill	310.1	6262
**Total Organic Carbon	2.47	mg/l	1.00	1	12/ 3/04	20:36	M.Checolle	415.1	6299
**Sulfide	ND	mg/l	1.000	1	12/ 2/04	17:10	I. Barwari	376.1	6175
**Chloride	36.4	mg/l	2.00	2	12/ 4/04	23:05	W. Choate	325.2	6391

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	93.	79. - 125.
VOA Surr, DBFM	94.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187683
Sample ID: OB-07
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

December 2, 2004
Analytical Data

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A187684
 Sample ID: Trip Blank
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB FORMER TAYLOR INSTRU
 Sampler: JOE DEATHERAGE

Date Collected:
 Time Collected:
 Date Received: 12/ 2/04
 Time Received: 8:35
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Benzene	ND	mg/l	0.0010	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Bromobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Bromoform	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Bromomethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**2-Butanone	ND	mg/l	0.0250	1	12/ 2/04	20:51	B.Herford	8260B	7461
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Chloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Chloroform	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Chloromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Dibromomethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187684
Sample ID: Trip Blank
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**2-Hexanone	ND	mg/l	0.00500	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Methylene chloride	ND	mg/l	0.00250	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Naphthalene	ND	mg/l	0.00500	1	12/ 2/04	20:51	B.Herford	8260B	7461
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Styrene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Toluene	ND	mg/l	0.0010	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Trichloroethene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 2/04	20:51	B.Herford	8260B	7461
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 2/04	20:51	B.Herford	8260B	7461
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A187684
Sample ID: Trip Blank
Project: 51870.11
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 2/04	20:51	B.Herford	8260B	7461

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 1
Laboratory Receipt Date: 12/ 2/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0501	0.0500	100	62 - 146	7461	04-A187683
Benzene	mg/l	< 0.0010	0.0507	0.0500	101	62 - 146	7481	04-A187355
Benzene	mg/l	< 0.0010	0.0490	0.0500	98	62 - 146	8363	04-A187550
Chlorobenzene	mg/l	< 0.00100	0.0520	0.0500	104	68 - 139	7461	04-A187683
Chlorobenzene	mg/l	< 0.00100	0.0530	0.0500	106	68 - 139	7481	04-A187355
Chlorobenzene	mg/l	< 0.00100	0.0498	0.0500	100	68 - 139	8363	04-A187550
1,1-Dichloroethene	mg/l	< 0.00100	0.0543	0.0500	109	58 - 152	7461	04-A187683
1,1-Dichloroethene	mg/l	< 0.00100	0.0536	0.0500	107	58 - 152	7481	04-A187355
1,1-Dichloroethene	mg/l	< 0.00100	0.0509	0.0500	102	58 - 152	8363	04-A187550
Toluene	mg/l	< 0.0010	0.0495	0.0500	99	68 - 141	7461	04-A187683
Toluene	mg/l	< 0.0010	0.0519	0.0500	104	68 - 141	7481	04-A187355
Toluene	mg/l	< 0.0010	0.0489	0.0500	98	68 - 141	8363	04-A187550
Trichloroethene	mg/l	0.0110	0.0570	0.0500	92	61 - 161	7461	04-A187683
Trichloroethene	mg/l	< 0.00100	0.0467	0.0500	93	61 - 161	7481	04-A187355
Trichloroethene	mg/l	< 0.00100	0.0453	0.0500	91	61 - 161	8363	04-A187550
Tetrachloroethene	mg/l	< 0.00100	0.0543	0.0500	109	62 - 151	7461	04-A187683
Tetrachloroethene	mg/l	< 0.00100	0.0543	0.0500	109	62 - 151	7481	04-A187355
Tetrachloroethene	mg/l	< 0.00100	0.0534	0.0500	107	62 - 151	8363	04-A187550
VOA Surr 1,2-DCA-d4	% Rec				94	73 - 127	7461	
VOA Surr 1,2-DCA-d4	% Rec				92	73 - 127	7481	
VOA Surr 1,2-DCA-d4	% Rec				95	73 - 127	8363	
VOA Surr Toluene-d8	% Rec				99	79 - 113	7461	
VOA Surr Toluene-d8	% Rec				101	79 - 113	7481	
VOA Surr Toluene-d8	% Rec				98	79 - 113	8363	
VOA Surr, 4-BFB	% Rec				91	79 - 125	7461	
VOA Surr, 4-BFB	% Rec				92	79 - 125	7481	

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 2
Laboratory Receipt Date: 12/ 2/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA Surr, 4-BFB	% Rec				89	79 - 125	8363	
VOA Surr, DBFM	% Rec				97	75 - 134	7461	
VOA Surr, DBFM	% Rec				95	75 - 134	7481	
VOA Surr, DBFM	% Rec				97	75 - 134	8363	
METALS								
Ferrous Iron	mg/l	0.516	1.48	1.00	96	75. - 125.	6334	04-A187641
Ferrous Iron	mg/l	0.516	1.48	1.00	96	75. - 125.	6334	04-A187641
MISC PARAMETERS								
Nitrate-N as N	mg/l	1.41	7.68	6.00	104	90. - 110.	6256	04-A187680
Nitrate-N as N	mg/l	1.41	7.58	6.00	103	90. - 110.	6256	04-A187680
Sulfate	mg/l	< 1.00	17.5	20.0	88	58. - 125.	7359	04-A188053
Alkalinity as CaCO3	mg/l	338.	434.	100.	96	80. - 120.	6262	04-A187680
Total Organic Carbon	mg/l	2.47	22.9	20.0	102	71. - 140.	6299	04-A187683
Sulfide	mg/l	< 1.000	19.40	20.00	97	63. - 127.	6175	04-A186867
Chloride	mg/l	1.06	11.6	10.0	105	71. - 123.	6391	04-A187671
Methane	mg/L	< 0.026	1.62	1.33	122	62. - 132.	6883	04-A186867
Methane	mg/L	< 0.026	1.31	1.33	98	62. - 132.	9864	04-A187681
Ethene	mg/L	< 0.026	2.16	2.32	93	75. - 119.	6883	04-A186867
Ethene	mg/L	< 0.026	2.05	2.32	88	75. - 119.	9864	04-A187681
Ethane	mg/L	< 0.026	2.34	2.50	94	72. - 119.	6883	04-A186867
Ethane	mg/L	< 0.026	2.22	2.50	89	72. - 119.	9864	04-A187681

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

Page: 3

Laboratory Receipt Date: 12/ 2/04

****VOA PARAMETERS****

Benzene	mg/l	0.0501	0.0483	3.66	25.	7461
Benzene	mg/l	0.0507	0.0508	0.20	25.	7481
Benzene	mg/l	0.0490	0.0511	4.20	25.	8363
Chlorobenzene	mg/l	0.0520	0.0507	2.53	23.	7461
Chlorobenzene	mg/l	0.0530	0.0524	1.14	23.	7481
Chlorobenzene	mg/l	0.0498	0.0537	7.54	23.	8363
1,1-Dichloroethene	mg/l	0.0543	0.0518	4.71	26.	7461
1,1-Dichloroethene	mg/l	0.0536	0.0536	0.00	26.	7481
1,1-Dichloroethene	mg/l	0.0509	0.0530	4.04	26.	8363
Toluene	mg/l	0.0495	0.0496	0.20	29.	7461
Toluene	mg/l	0.0519	0.0503	3.13	29.	7481
Toluene	mg/l	0.0489	0.0524	6.91	29.	8363
Trichloroethene	mg/l	0.0570	0.0558	2.13	26.	7461
Trichloroethene	mg/l	0.0467	0.0461	1.29	26.	7481
Trichloroethene	mg/l	0.0453	0.0473	4.32	26.	8363
Tetrachloroethene	mg/l	0.0543	0.0532	2.05	27.	7461
Tetrachloroethene	mg/l	0.0543	0.0539	0.74	27.	7481
Tetrachloroethene	mg/l	0.0534	0.0565	5.64	27.	8363
VOA Surr 1,2-DCA-d4	% Rec		93.			7461
VOA Surr 1,2-DCA-d4	% Rec		93.			7481
VOA Surr 1,2-DCA-d4	% Rec		92.			8363
VOA Surr Toluene-d8	% Rec		101.			7461
VOA Surr Toluene-d8	% Rec		99.			7481
VOA Surr Toluene-d8	% Rec		100.			8363
VOA Surr, 4-BFB	% Rec		90.			7461
VOA Surr, 4-BFB	% Rec		91.			7481
VOA Surr, 4-BFB	% Rec		89.			8363
VOA Surr, DBFM	% Rec		95.			7461
VOA Surr, DBFM	% Rec		96.			7481
VOA Surr, DBFM	% Rec		98.			8363

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

Page: 4

Laboratory Receipt Date: 12/ 2/04

METALS						
Ferrous Iron	mg/l	1.48	1.48	0.00	20	6334
MISC PARAMETERS						
Methane	mg/L	1.62	1.37	16.72	50	6883
Methane	mg/L	1.31	1.28	2.32	50	9864
Ethene	mg/L	2.16	2.18	0.92	50	6883
Ethene	mg/L	2.05	2.04	0.49	50	9864
Ethane	mg/L	2.34	2.36	0.85	50	6883
Ethane	mg/L	2.22	2.20	0.90	50	9864
Nitrate-N as N	mg/l	7.68	7.58	1.31	20	6256
Sulfate	mg/l	17.5	17.7	1.14	20	7359
Total Organic Carbon	mg/l	22.9	22.6	1.32	20	6299
Sulfide	mg/l	19.40	19.60	1.03	20	6175
Chloride	mg/l	11.6	11.7	0.86	20	6391

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.181	72	55 - 146	7461
Acetone	mg/l	0.250	0.173	69	55 - 146	7481
Acetone	mg/l	0.250	0.214	86	55 - 146	8363
Benzene	mg/l	0.0500	0.0445	89	76 - 127	7461
Benzene	mg/l	0.0500	0.0451	90	76 - 127	7481
Benzene	mg/l	0.0500	0.0496	99	76 - 127	8363
Bromobenzene	mg/l	0.0500	0.0454	91	73 - 125	7461
Bromobenzene	mg/l	0.0500	0.0432	86	73 - 125	7481
Bromobenzene	mg/l	0.0500	0.0455	91	73 - 125	8363
Bromochloromethane	mg/l	0.0500	0.0488	98	71 - 137	7461
Bromochloromethane	mg/l	0.0500	0.0483	97	71 - 137	7481
Bromochloromethane	mg/l	0.0500	0.0531	106	71 - 137	8363
Bromoform	mg/l	0.0500	0.0372	74	56 - 127	7461

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 5
Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromoform	mg/l	0.0500	0.0350	70	56 - 127	7481
Bromoform	mg/l	0.0500	0.0368	74	56 - 127	8363
Bromomethane	mg/l	0.0500	0.0436	87	50 - 166	7461
Bromomethane	mg/l	0.0500	0.0442	88	50 - 166	7481
Bromomethane	mg/l	0.0500	0.0505	101	50 - 166	8363
2-Butanone	mg/l	0.250	0.218	87	63 - 138	7461
2-Butanone	mg/l	0.250	0.195	78	63 - 138	7481
2-Butanone	mg/l	0.250	0.238	95	63 - 138	8363
n-Butylbenzene	mg/l	0.0500	0.0452	90	66 - 139	7461
n-Butylbenzene	mg/l	0.0500	0.0408	82	66 - 139	7481
n-Butylbenzene	mg/l	0.0500	0.0478	96	66 - 139	8363
sec-Butylbenzene	mg/l	0.0500	0.0446	89	71 - 136	7461
sec-Butylbenzene	mg/l	0.0500	0.0421	84	71 - 136	7481
sec-Butylbenzene	mg/l	0.0500	0.0471	94	71 - 136	8363
tert-Butylbenzene	mg/l	0.0500	0.0449	90	71 - 135	7461
tert-Butylbenzene	mg/l	0.0500	0.0428	86	71 - 135	7481
tert-Butylbenzene	mg/l	0.0500	0.0471	94	71 - 135	8363
Carbon disulfide	mg/l	0.0500	0.0409	82	72 - 138	7461
Carbon disulfide	mg/l	0.0500	0.0401	80	72 - 138	7481
Carbon disulfide	mg/l	0.0500	0.0470	94	72 - 138	8363
Carbon tetrachloride	mg/l	0.0500	0.0388	78	69 - 138	7461
Carbon tetrachloride	mg/l	0.0500	0.0387	77	69 - 138	7481
Carbon tetrachloride	mg/l	0.0500	0.0430	86	69 - 138	8363
Chlorobenzene	mg/l	0.0500	0.0486	97	81 - 123	7461
Chlorobenzene	mg/l	0.0500	0.0476	95	81 - 123	7481
Chlorobenzene	mg/l	0.0500	0.0511	102	81 - 123	8363
Chloroethane	mg/l	0.0500	0.0448	90	56 - 155	7461
Chloroethane	mg/l	0.0500	0.0459	92	56 - 155	7481
Chloroethane	mg/l	0.0500	0.0513	103	56 - 155	8363
Chloroform	mg/l	0.0500	0.0464	93	73 - 128	7461
Chloroform	mg/l	0.0500	0.0470	94	73 - 128	7481

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 6
Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chloroform	mg/l	0.0500	0.0508	102	73 - 128	8363
Chloromethane	mg/l	0.0500	0.0438	88	36 - 157	7461
Chloromethane	mg/l	0.0500	0.0443	89	36 - 157	7481
Chloromethane	mg/l	0.0500	0.0521	104	36 - 157	8363
2-Chlorotoluene	mg/l	0.0500	0.0558	112	74 - 131	7461
2-Chlorotoluene	mg/l	0.0500	0.0539	108	74 - 131	7481
2-Chlorotoluene	mg/l	0.0500	0.0574	115	74 - 131	8363
4-Chlorotoluene	mg/l	0.0500	0.0499	100	76 - 130	7461
4-Chlorotoluene	mg/l	0.0500	0.0482	96	76 - 130	7481
4-Chlorotoluene	mg/l	0.0500	0.0513	103	76 - 130	8363
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0375	75	53 - 138	7461
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0327	65	53 - 138	7481
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0364	73	53 - 138	8363
Dibromochloromethane	mg/l	0.0500	0.0429	86	71 - 128	7461
Dibromochloromethane	mg/l	0.0500	0.0428	86	71 - 128	7481
Dibromochloromethane	mg/l	0.0500	0.0451	90	71 - 128	8363
1,2-Dibromoethane	mg/l	0.0500	0.0481	96	71 - 134	7461
1,2-Dibromoethane	mg/l	0.0500	0.0459	92	71 - 134	7481
1,2-Dibromoethane	mg/l	0.0500	0.0479	96	71 - 134	8363
Dibromomethane	mg/l	0.0500	0.0454	91	72 - 134	7461
Dibromomethane	mg/l	0.0500	0.0455	91	72 - 134	7481
Dibromomethane	mg/l	0.0500	0.0473	95	72 - 134	8363
1,2-Dichlorobenzene	mg/l	0.0500	0.0504	101	80 - 128	7461
1,2-Dichlorobenzene	mg/l	0.0500	0.0488	98	80 - 128	7481
1,2-Dichlorobenzene	mg/l	0.0500	0.0520	104	80 - 128	8363
1,3-Dichlorobenzene	mg/l	0.0500	0.0495	99	80 - 126	7461
1,3-Dichlorobenzene	mg/l	0.0500	0.0482	96	80 - 126	7481
1,3-Dichlorobenzene	mg/l	0.0500	0.0512	102	80 - 126	8363
1,4-Dichlorobenzene	mg/l	0.0500	0.0502	100	79 - 124	7461
1,4-Dichlorobenzene	mg/l	0.0500	0.0485	97	79 - 124	7481
1,4-Dichlorobenzene	mg/l	0.0500	0.0525	105	79 - 124	8363

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
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Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dichlorodifluoromethane	mg/l	0.0500	0.0430	86	35 - 160	7461
Dichlorodifluoromethane	mg/l	0.0500	0.0412	82	35 - 160	7481
Dichlorodifluoromethane	mg/l	0.0500	0.0512	102	35 - 160	8363
1,1-Dichloroethane	mg/l	0.0500	0.0452	90	74 - 131	7461
1,1-Dichloroethane	mg/l	0.0500	0.0458	92	74 - 131	7481
1,1-Dichloroethane	mg/l	0.0500	0.0504	101	74 - 131	8363
1,2-Dichloroethane	mg/l	0.0500	0.0438	88	72 - 129	7461
1,2-Dichloroethane	mg/l	0.0500	0.0436	87	72 - 129	7481
1,2-Dichloroethane	mg/l	0.0500	0.0462	92	72 - 129	8363
1,1-Dichloroethene	mg/l	0.0500	0.0450	90	73 - 137	7461
1,1-Dichloroethene	mg/l	0.0500	0.0462	92	73 - 137	7481
1,1-Dichloroethene	mg/l	0.0500	0.0527	105	73 - 137	8363
cis-1,2-Dichloroethene	mg/l	0.0500	0.0423	85	67 - 137	7461
cis-1,2-Dichloroethene	mg/l	0.0500	0.0407	81	67 - 137	7481
cis-1,2-Dichloroethene	mg/l	0.0500	0.0460	92	67 - 137	8363
trans-1,2-Dichloroethene	mg/l	0.0500	0.0430	86	70 - 138	7461
trans-1,2-Dichloroethene	mg/l	0.0500	0.0430	86	70 - 138	7481
trans-1,2-Dichloroethene	mg/l	0.0500	0.0480	96	70 - 138	8363
1,2-Dichloropropane	mg/l	0.0500	0.0428	86	78 - 131	7461
1,2-Dichloropropane	mg/l	0.0500	0.0450	90	78 - 131	7481
1,2-Dichloropropane	mg/l	0.0500	0.0483	97	78 - 131	8363
1,3-Dichloropropane	mg/l	0.0500	0.0474	95	77 - 127	7461
1,3-Dichloropropane	mg/l	0.0500	0.0464	93	77 - 127	7481
1,3-Dichloropropane	mg/l	0.0500	0.0491	98	77 - 127	8363
2,2-Dichloropropane	mg/l	0.0500	0.0485	97	43 - 146	7461
2,2-Dichloropropane	mg/l	0.0500	0.0364	73	43 - 146	7481
2,2-Dichloropropane	mg/l	0.0500	0.0534	107	43 - 146	8363
1,1-Dichloropropene	mg/l	0.0500	0.0412	82	75 - 132	7461
1,1-Dichloropropene	mg/l	0.0500	0.0404	81	75 - 132	7481
1,1-Dichloropropene	mg/l	0.0500	0.0461	92	75 - 132	8363
cis-1,3-Dichloropropene	mg/l	0.0500	0.0424	85	62 - 135	7461

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
cis-1,3-Dichloropropene	mg/l	0.0500	0.0389	78	62 - 135	7481
cis-1,3-Dichloropropene	mg/l	0.0500	0.0424	85	62 - 135	8363
trans-1,3-Dichloropropene	mg/l	0.0500	0.0409	82	58 - 130	7461
trans-1,3-Dichloropropene	mg/l	0.0500	0.0370	74	58 - 130	7481
trans-1,3-Dichloropropene	mg/l	0.0500	0.0414	83	58 - 130	8363
Ethylbenzene	mg/l	0.0500	0.0474	95	80 - 124	7461
Ethylbenzene	mg/l	0.0500	0.0463	93	80 - 124	7481
Ethylbenzene	mg/l	0.0500	0.0508	102	80 - 124	8363
Hexachlorobutadiene	mg/l	0.0500	0.0485	97	63 - 140	7461
Hexachlorobutadiene	mg/l	0.0500	0.0435	87	63 - 140	7481
Hexachlorobutadiene	mg/l	0.0500	0.0518	104	63 - 140	8363
2-Hexanone	mg/l	0.250	0.220	88	66 - 138	7461
2-Hexanone	mg/l	0.250	0.203	81	66 - 138	7481
2-Hexanone	mg/l	0.250	0.215	86	66 - 138	8363
Isopropylbenzene	mg/l	0.0500	0.0455	91	67 - 137	7461
Isopropylbenzene	mg/l	0.0500	0.0437	87	67 - 137	7481
Isopropylbenzene	mg/l	0.0500	0.0476	95	67 - 137	8363
p-Isopropyltoluene	mg/l	0.0500	0.0463	93	74 - 133	7461
p-Isopropyltoluene	mg/l	0.0500	0.0437	87	74 - 133	7481
p-Isopropyltoluene	mg/l	0.0500	0.0492	98	74 - 133	8363
4-Methyl-2-pentanone	mg/l	0.250	0.237	95	68 - 139	7461
4-Methyl-2-pentanone	mg/l	0.250	0.217	87	68 - 139	7481
4-Methyl-2-pentanone	mg/l	0.250	0.224	90	68 - 139	8363
Methylene chloride	mg/l	0.0500	0.0470	94	71 - 138	7461
Methylene chloride	mg/l	0.0500	0.0474	95	71 - 138	7481
Methylene chloride	mg/l	0.0500	0.0524	105	71 - 138	8363
Naphthalene	mg/l	0.0500	0.0483	97	61 - 143	7461
Naphthalene	mg/l	0.0500	0.0418	84	61 - 143	7481
Naphthalene	mg/l	0.0500	0.0461	92	61 - 143	8363
n-Propylbenzene	mg/l	0.0500	0.0469	94	70 - 136	7461
n-Propylbenzene	mg/l	0.0500	0.0443	89	70 - 136	7481

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
n-Propylbenzene	mg/l	0.0500	0.0488	98	70 - 136	8363
Styrene	mg/l	0.0500	0.0470	94	81 - 130	7461
Styrene	mg/l	0.0500	0.0460	92	81 - 130	7481
Styrene	mg/l	0.0500	0.0491	98	81 - 130	8363
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0453	91	82 - 128	7461
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0446	89	82 - 128	7481
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0475	95	82 - 128	8363
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0544	109	62 - 134	7461
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0488	98	62 - 134	7481
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0542	108	62 - 134	8363
Tetrachloroethene	mg/l	0.0500	0.0484	97	78 - 131	7461
Tetrachloroethene	mg/l	0.0500	0.0479	96	78 - 131	7481
Tetrachloroethene	mg/l	0.0500	0.0531	106	78 - 131	8363
Toluene	mg/l	0.0500	0.0456	91	79 - 124	7461
Toluene	mg/l	0.0500	0.0449	90	79 - 124	7481
Toluene	mg/l	0.0500	0.0495	99	79 - 124	8363
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0510	102	68 - 136	7461
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0463	93	68 - 136	7481
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0516	103	68 - 136	8363
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0495	99	65 - 138	7461
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0452	90	65 - 138	7481
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0497	99	65 - 138	8363
1,1,1-Trichloroethane	mg/l	0.0500	0.0414	83	73 - 131	7461
1,1,1-Trichloroethane	mg/l	0.0500	0.0415	83	73 - 131	7481
1,1,1-Trichloroethane	mg/l	0.0500	0.0463	93	73 - 131	8363
1,1,2-Trichloroethane	mg/l	0.0500	0.0474	95	79 - 126	7461
1,1,2-Trichloroethane	mg/l	0.0500	0.0483	97	79 - 126	7481
1,1,2-Trichloroethane	mg/l	0.0500	0.0481	96	79 - 126	8363
Trichloroethene	mg/l	0.0500	0.0408	82	76 - 140	7461
Trichloroethene	mg/l	0.0500	0.0425	85	76 - 140	7481
Trichloroethene	mg/l	0.0500	0.0456	91	76 - 140	8363

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
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Laboratory Receipt Date: 12/ 2/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2,3-Trichloropropane	mg/l	0.0500	0.0416	83	57 - 136	7461
1,2,3-Trichloropropane	mg/l	0.0500	0.0383	77	57 - 136	7481
1,2,3-Trichloropropane	mg/l	0.0500	0.0407	81	57 - 136	8363
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0449	90	74 - 131	7461
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0427	85	74 - 131	7481
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0460	92	74 - 131	8363
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0460	92	78 - 129	7461
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0439	88	78 - 129	7481
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0479	96	78 - 129	8363
Vinyl chloride	mg/l	0.0500	0.0412	82	51 - 150	7461
Vinyl chloride	mg/l	0.0500	0.0416	83	51 - 150	7481
Vinyl chloride	mg/l	0.0500	0.0491	98	51 - 150	8363
Xylenes (Total)	mg/l	0.150	0.142	95	80 - 125	7461
Xylenes (Total)	mg/l	0.150	0.138	92	80 - 125	7481
Xylenes (Total)	mg/l	0.150	0.150	100	80 - 125	8363
Bromodichloromethane	mg/l	0.0500	0.0409	82	76 - 134	7461
Bromodichloromethane	mg/l	0.0500	0.0415	83	76 - 134	7481
Bromodichloromethane	mg/l	0.0500	0.0428	86	76 - 134	8363
Trichlorofluoromethane	mg/l	0.0500	0.0446	89	55 - 150	7461
Trichlorofluoromethane	mg/l	0.0500	0.0433	87	55 - 150	7481
Trichlorofluoromethane	mg/l	0.0500	0.0505	101	55 - 150	8363
Methane	mg/L	1.33	1.41	106	79 - 121	6883
Methane	mg/L	1.33	1.37	103	79 - 121	9864
Carbon Dioxide	mg/l	100.	103.	103	90 - 110	549
Ethene	mg/L	2.32	2.24	97	77 - 119	6883
Ethene	mg/L	2.32	2.17	94	77 - 119	9864
Ethane	mg/L	2.50	2.42	97	78 - 118	6883
Ethane	mg/L	2.50	2.35	94	78 - 118	9864

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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VOA Surr 1,2-DCA-d4	% Rec			94	73 - 127	7461
VOA Surr 1,2-DCA-d4	% Rec			94	73 - 127	7481
VOA Surr 1,2-DCA-d4	% Rec			93	73 - 127	8363
VOA Surr Toluene-d8	% Rec			101	79 - 113	7461
VOA Surr Toluene-d8	% Rec			99	79 - 113	7481
VOA Surr Toluene-d8	% Rec			100	79 - 113	8363
VOA Surr, 4-BFB	% Rec			92	79 - 125	7461
VOA Surr, 4-BFB	% Rec			91	79 - 125	7481
VOA Surr, 4-BFB	% Rec			90	79 - 125	8363
VOA Surr, DBFM	% Rec			96	75 - 134	7461
VOA Surr, DBFM	% Rec			97	75 - 134	7481
VOA Surr, DBFM	% Rec			99	75 - 134	8363
METALS						
Ferrous Iron	mg/l	1.00	1.04	104	80 - 120	6334
MISC PARAMETERS						
Nitrate-N as N	mg/l	6.00	6.09	102	90 - 110	6256
Sulfate	mg/l	25.0	24.6	98	88 - 111	7359
Alkalinity as CaCO3	mg/l	100.	99.6	100	90 - 110	6262
Total Organic Carbon	mg/l	200.	186.	93	87 - 110	6299
Sulfide	mg/l	20.00	19.50	98	90 - 110	6175
Chloride	mg/l	10.0	9.64	96	87 - 113	6391

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Ferrous Iron	mg/l	< 0.100	< 0.100	N/A	15.	6334	04-A187686
Sulfate	mg/l	361.	357.	1.11	15.	7359	04-A187683
Alkalinity as CaCO3	mg/l	< 5.00	< 5.00	N/A	15.	6262	04-A187904
Sulfide	mg/l	< 1.000	< 1.000	N/A	15.	6175	04-A187683
Chloride	mg/l	23800	23500	1.27	15.	6391	04-A188053
Carbon Dioxide	mg/l	40.5	41.2	1.71	15.	549	04-A187681

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Project Name: ABB FORMER TAYLOR INSTRU
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00810	mg/l	7461	12/ 2/04	15:27
Acetone	< 0.00810	mg/l	7481	12/ 3/04	3:42
Acetone	< 0.00810	mg/l	8363	12/ 3/04	15:59
Benzene	< 0.0003	mg/l	7461	12/ 2/04	15:27
Benzene	< 0.0003	mg/l	7481	12/ 3/04	3:42
Benzene	< 0.0003	mg/l	8363	12/ 3/04	15:59
Bromobenzene	< 0.00020	mg/l	7461	12/ 2/04	15:27
Bromobenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
Bromobenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Bromochloromethane	< 0.00030	mg/l	7461	12/ 2/04	15:27
Bromochloromethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
Bromochloromethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
Bromoform	< 0.00020	mg/l	7461	12/ 2/04	15:27
Bromoform	< 0.00020	mg/l	7481	12/ 3/04	3:42
Bromoform	< 0.00020	mg/l	8363	12/ 3/04	15:59
Bromomethane	< 0.00030	mg/l	7461	12/ 2/04	15:27
Bromomethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
Bromomethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
2-Butanone	< 0.00620	mg/l	7461	12/ 2/04	15:27
2-Butanone	< 0.00620	mg/l	7481	12/ 3/04	3:42
2-Butanone	< 0.00620	mg/l	8363	12/ 3/04	15:59
n-Butylbenzene	< 0.00040	mg/l	7461	12/ 2/04	15:27
n-Butylbenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
n-Butylbenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
sec-Butylbenzene	< 0.00030	mg/l	7461	12/ 2/04	15:27
sec-Butylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
sec-Butylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
tert-Butylbenzene	< 0.00030	mg/l	7461	12/ 2/04	15:27
tert-Butylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
tert-Butylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
Carbon disulfide	< 0.00030	mg/l	7461	12/ 2/04	15:27
Carbon disulfide	< 0.00030	mg/l	7481	12/ 3/04	3:42
Carbon disulfide	< 0.00030	mg/l	8363	12/ 3/04	15:59
Carbon tetrachloride	< 0.00030	mg/l	7461	12/ 2/04	15:27
Carbon tetrachloride	< 0.00030	mg/l	7481	12/ 3/04	3:42
Carbon tetrachloride	< 0.00030	mg/l	8363	12/ 3/04	15:59
Chlorobenzene	< 0.00020	mg/l	7461	12/ 2/04	15:27
Chlorobenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
Chlorobenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Chloroethane	< 0.00080	mg/l	7461	12/ 2/04	15:27
Chloroethane	< 0.00080	mg/l	7481	12/ 3/04	3:42
Chloroethane	< 0.00080	mg/l	8363	12/ 3/04	15:59
Chloroform	< 0.00030	mg/l	7461	12/ 2/04	15:27
Chloroform	< 0.00030	mg/l	7481	12/ 3/04	3:42
Chloroform	< 0.00030	mg/l	8363	12/ 3/04	15:59
Chloromethane	< 0.00060	mg/l	7461	12/ 2/04	15:27
Chloromethane	< 0.00060	mg/l	7481	12/ 3/04	3:42
Chloromethane	< 0.00060	mg/l	8363	12/ 3/04	15:59
2-Chlorotoluene	< 0.00040	mg/l	7461	12/ 2/04	15:27
2-Chlorotoluene	< 0.00040	mg/l	7481	12/ 3/04	3:42
2-Chlorotoluene	< 0.00040	mg/l	8363	12/ 3/04	15:59
4-Chlorotoluene	< 0.00020	mg/l	7461	12/ 2/04	15:27
4-Chlorotoluene	< 0.00020	mg/l	7481	12/ 3/04	3:42
4-Chlorotoluene	< 0.00020	mg/l	8363	12/ 3/04	15:59
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	7461	12/ 2/04	15:27
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	7481	12/ 3/04	3:42
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	8363	12/ 3/04	15:59
Dibromochloromethane	< 0.00060	mg/l	7461	12/ 2/04	15:27

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dibromochloromethane	< 0.00060	mg/l	7481	12/ 3/04	3:42
Dibromochloromethane	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,2-Dibromoethane	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,2-Dibromoethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dibromoethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
Dibromomethane	< 0.00050	mg/l	7461	12/ 2/04	15:27
Dibromomethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
Dibromomethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,2-Dichlorobenzene	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,2-Dichlorobenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dichlorobenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,3-Dichlorobenzene	< 0.00030	mg/l	7461	12/ 2/04	15:27
1,3-Dichlorobenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,3-Dichlorobenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,4-Dichlorobenzene	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,4-Dichlorobenzene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,4-Dichlorobenzene	< 0.00040	mg/l	8363	12/ 3/04	15:59
Dichlorodifluoromethane	< 0.00050	mg/l	7461	12/ 2/04	15:27
Dichlorodifluoromethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
Dichlorodifluoromethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,1-Dichloroethane	< 0.00030	mg/l	7461	12/ 2/04	15:27
1,1-Dichloroethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1-Dichloroethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,2-Dichloroethane	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,2-Dichloroethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,2-Dichloroethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1-Dichloroethene	< 0.00030	mg/l	7461	12/ 2/04	15:27
1,1-Dichloroethene	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1-Dichloroethene	< 0.00030	mg/l	8363	12/ 3/04	15:59
cis-1,2-Dichloroethene	< 0.00060	mg/l	7461	12/ 2/04	15:27
cis-1,2-Dichloroethene	< 0.00060	mg/l	7481	12/ 3/04	3:42

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
cis-1,2-Dichloroethene	< 0.00060	mg/l	8363	12/ 3/04	15:59
trans-1,2-Dichloroethene	< 0.00040	mg/l	7461	12/ 2/04	15:27
trans-1,2-Dichloroethene	< 0.00040	mg/l	7481	12/ 3/04	3:42
trans-1,2-Dichloroethene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,2-Dichloropropane	< 0.00030	mg/l	7461	12/ 2/04	15:27
1,2-Dichloropropane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,2-Dichloropropane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,3-Dichloropropane	< 0.00020	mg/l	7461	12/ 2/04	15:27
1,3-Dichloropropane	< 0.00020	mg/l	7481	12/ 3/04	3:42
1,3-Dichloropropane	< 0.00020	mg/l	8363	12/ 3/04	15:59
2,2-Dichloropropane	< 0.00040	mg/l	7461	12/ 2/04	15:27
2,2-Dichloropropane	< 0.00040	mg/l	7481	12/ 3/04	3:42
2,2-Dichloropropane	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1-Dichloropropene	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,1-Dichloropropene	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,1-Dichloropropene	< 0.00040	mg/l	8363	12/ 3/04	15:59
cis-1,3-Dichloropropene	< 0.00050	mg/l	7461	12/ 2/04	15:27
cis-1,3-Dichloropropene	< 0.00050	mg/l	7481	12/ 3/04	3:42
cis-1,3-Dichloropropene	< 0.00050	mg/l	8363	12/ 3/04	15:59
trans-1,3-Dichloropropene	< 0.00060	mg/l	7461	12/ 2/04	15:27
trans-1,3-Dichloropropene	< 0.00060	mg/l	7481	12/ 3/04	3:42
trans-1,3-Dichloropropene	< 0.00060	mg/l	8363	12/ 3/04	15:59
Ethylbenzene	< 0.0002	mg/l	7461	12/ 2/04	15:27
Ethylbenzene	< 0.0002	mg/l	7481	12/ 3/04	3:42
Ethylbenzene	< 0.0002	mg/l	8363	12/ 3/04	15:59
Hexachlorobutadiene	< 0.00080	mg/l	7461	12/ 2/04	15:27
Hexachlorobutadiene	< 0.00080	mg/l	7481	12/ 3/04	3:42
Hexachlorobutadiene	< 0.00080	mg/l	8363	12/ 3/04	15:59
2-Hexanone	< 0.00280	mg/l	7461	12/ 2/04	15:27
2-Hexanone	< 0.00280	mg/l	7481	12/ 3/04	3:42
2-Hexanone	< 0.00280	mg/l	8363	12/ 3/04	15:59

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Isopropylbenzene	< 0.00030	mg/l	7461	12/ 2/04	15:27
Isopropylbenzene	< 0.00030	mg/l	7481	12/ 3/04	3:42
Isopropylbenzene	< 0.00030	mg/l	8363	12/ 3/04	15:59
p-Isopropyltoluene	< 0.00040	mg/l	7461	12/ 2/04	15:27
p-Isopropyltoluene	< 0.00040	mg/l	7481	12/ 3/04	3:42
p-Isopropyltoluene	< 0.00040	mg/l	8363	12/ 3/04	15:59
4-Methyl-2-pentanone	< 0.00230	mg/l	7461	12/ 2/04	15:27
4-Methyl-2-pentanone	< 0.00230	mg/l	7481	12/ 3/04	3:42
4-Methyl-2-pentanone	< 0.00230	mg/l	8363	12/ 3/04	15:59
Methylene chloride	< 0.00190	mg/l	7461	12/ 2/04	15:27
Methylene chloride	< 0.00190	mg/l	7481	12/ 3/04	3:42
Methylene chloride	< 0.00190	mg/l	8363	12/ 3/04	15:59
Naphthalene	< 0.00120	mg/l	7461	12/ 2/04	15:27
Naphthalene	< 0.00120	mg/l	7481	12/ 3/04	3:42
Naphthalene	< 0.00120	mg/l	8363	12/ 3/04	15:59
n-Propylbenzene	< 0.00020	mg/l	7461	12/ 2/04	15:27
n-Propylbenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
n-Propylbenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Styrene	< 0.00040	mg/l	7461	12/ 2/04	15:27
Styrene	< 0.00040	mg/l	7481	12/ 3/04	3:42
Styrene	< 0.00040	mg/l	8363	12/ 3/04	15:59
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	7461	12/ 2/04	15:27
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7461	12/ 2/04	15:27
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
Tetrachloroethene	< 0.00050	mg/l	7461	12/ 2/04	15:27
Tetrachloroethene	< 0.00050	mg/l	7481	12/ 3/04	3:42
Tetrachloroethene	< 0.00050	mg/l	8363	12/ 3/04	15:59
Toluene	< 0.0002	mg/l	7461	12/ 2/04	15:27

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

Page: 17

Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Toluene	< 0.0002	mg/l	7481	12/ 3/04	3:42
Toluene	< 0.0002	mg/l	8363	12/ 3/04	15:59
1,2,3-Trichlorobenzene	< 0.00060	mg/l	7461	12/ 2/04	15:27
1,2,3-Trichlorobenzene	< 0.00060	mg/l	7481	12/ 3/04	3:42
1,2,3-Trichlorobenzene	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7461	12/ 2/04	15:27
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7481	12/ 3/04	3:42
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8363	12/ 3/04	15:59
1,1,1-Trichloroethane	< 0.00030	mg/l	7461	12/ 2/04	15:27
1,1,1-Trichloroethane	< 0.00030	mg/l	7481	12/ 3/04	3:42
1,1,1-Trichloroethane	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,1,2-Trichloroethane	< 0.00050	mg/l	7461	12/ 2/04	15:27
1,1,2-Trichloroethane	< 0.00050	mg/l	7481	12/ 3/04	3:42
1,1,2-Trichloroethane	< 0.00050	mg/l	8363	12/ 3/04	15:59
Trichloroethene	< 0.00030	mg/l	7461	12/ 2/04	15:27
Trichloroethene	< 0.00030	mg/l	7481	12/ 3/04	3:42
Trichloroethene	< 0.00030	mg/l	8363	12/ 3/04	15:59
1,2,3-Trichloropropane	< 0.00070	mg/l	7461	12/ 2/04	15:27
1,2,3-Trichloropropane	< 0.00070	mg/l	7481	12/ 3/04	3:42
1,2,3-Trichloropropane	< 0.00070	mg/l	8363	12/ 3/04	15:59
1,2,4-Trimethylbenzene	< 0.0004	mg/l	7461	12/ 2/04	15:27
1,2,4-Trimethylbenzene	< 0.0004	mg/l	7481	12/ 3/04	3:42
1,2,4-Trimethylbenzene	< 0.0004	mg/l	8363	12/ 3/04	15:59
1,3,5-Trimethylbenzene	< 0.00020	mg/l	7461	12/ 2/04	15:27
1,3,5-Trimethylbenzene	< 0.00020	mg/l	7481	12/ 3/04	3:42
1,3,5-Trimethylbenzene	< 0.00020	mg/l	8363	12/ 3/04	15:59
Vinyl chloride	< 0.00060	mg/l	7461	12/ 2/04	15:27
Vinyl chloride	< 0.00060	mg/l	7481	12/ 3/04	3:42
Vinyl chloride	< 0.00060	mg/l	8363	12/ 3/04	15:59
Xylenes (Total)	< 0.0006	mg/l	7461	12/ 2/04	15:27
Xylenes (Total)	< 0.0006	mg/l	7481	12/ 3/04	3:42

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB FORMER TAYLOR INSTRU
Page: 18
Laboratory Receipt Date: 12/ 2/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Xylenes (Total)	< 0.0006	mg/l	8363	12/ 3/04	15:59
Bromodichloromethane	< 0.00090	mg/l	7461	12/ 2/04	15:27
Bromodichloromethane	< 0.00090	mg/l	7481	12/ 3/04	3:42
Bromodichloromethane	< 0.00090	mg/l	8363	12/ 3/04	15:59
Trichlorofluoromethane	< 0.00040	mg/l	7461	12/ 2/04	15:27
Trichlorofluoromethane	< 0.00040	mg/l	7481	12/ 3/04	3:42
Trichlorofluoromethane	< 0.00040	mg/l	8363	12/ 3/04	15:59
VOA Surr 1,2-DCA-d4	95.	% Rec	7461	12/ 2/04	15:27
VOA Surr 1,2-DCA-d4	92.	% Rec	7481	12/ 3/04	3:42
VOA Surr 1,2-DCA-d4	94.	% Rec	8363	12/ 3/04	15:59
VOA Surr Toluene-d8	98.	% Rec	7461	12/ 2/04	15:27
VOA Surr Toluene-d8	100.	% Rec	7481	12/ 3/04	3:42
VOA Surr Toluene-d8	98.	% Rec	8363	12/ 3/04	15:59
VOA Surr, 4-BFB	97.	% Rec	7461	12/ 2/04	15:27
VOA Surr, 4-BFB	93.	% Rec	7481	12/ 3/04	3:42
VOA Surr, 4-BFB	94.	% Rec	8363	12/ 3/04	15:59
VOA Surr, DBFM	96.	% Rec	7461	12/ 2/04	15:27
VOA Surr, DBFM	95.	% Rec	7481	12/ 3/04	3:42
VOA Surr, DBFM	96.	% Rec	8363	12/ 3/04	15:59
METALS					
Ferrous Iron	< 0.100	mg/l	6334	12/ 2/04	17:27
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	6256	12/ 3/04	1:57
Sulfate	< 1.00	mg/l	7359	12/ 3/04	9:35
Alkalinity as CaCO3	< 5.00	mg/l	6262	12/ 2/03	18:00
Total Organic Carbon	< 1.00	mg/l	6299	12/ 3/04	20:36
Sulfide	< 1.000	mg/l	6175	12/ 2/04	17:10
Chloride	< 1.00	mg/l	6391	12/ 4/04	22:40

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB FORMER TAYLOR INSTRU

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Laboratory Receipt Date: 12/ 2/04

Methane	< 0.026	mg/L	6883	12/ 7/04	10:06
Methane	< 0.026	mg/L	9864	12/ 7/04	13:57
Carbon Dioxide	< 5.0	mg/l	549	12/ 3/04	10:10
Ethene	< 0.026	mg/L	6883	12/ 7/04	10:06
Ethene	< 0.026	mg/L	9864	12/ 7/04	13:57
Ethane	< 0.026	mg/L	6883	12/ 7/04	10:06
Ethane	< 0.026	mg/L	9864	12/ 7/04	13:57

= Value outside Laboratory historical or method prescribed QC limits.

December 2, 2004
Analytical Data

12/10/04

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: ABB-FORMER TAYLLOR INSTR
Project Number: 51870.11.
Laboratory Project Number: 398726.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Page 1

Sample Identification	Lab Number	Collection Date
W-5	04-A188720	12/ 2/04
TW-09	04-A188721	12/ 2/04
W-5 (DUP)	04-A188722	12/ 2/04
OB-06	04-A188723	12/ 2/04
BR-08	04-A188724	12/ 2/04
BR-17	04-A188725	12/ 2/04
Trip Blank	04-A188726	12/ 2/04

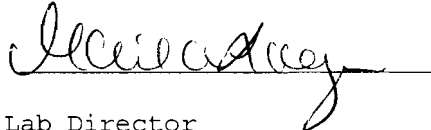
Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By:



Report Date: 12/10/04

Johnny A. Mitchell, Lab Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 11342

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ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188720
Sample ID: W-5
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 8:33
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	16:39	J.Haley	8260B	1689
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188720
Sample ID: W-5
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**cis-1,2-Dichloroethene	0.125	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**trans-1,2-Dichloroethene	0.00470	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	16:39	J.Haley	8260B	1689
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Trichloroethene	0.569	mg/l	0.0100	10	12/ 4/04	5:05	J.Haley	8260B	1694
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	16:39	J.Haley	8260B	1689
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	16:39	J.Haley	8260B	1689
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188720
 Sample ID: W-5
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	16:39	J.Haley	8260B	1689
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	15:02	K. Roberso	RSK175M	9864
Carbon Dioxide	20.0	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	15:02	K. Roberso	RSK175M	9864
**Ethane	ND	mg/L	0.026	1	12/ 7/04	15:02	K. Roberso	RSK175M	9864
METALS									
**Ferrous Iron	0.586	mg/l	0.100	1	12/ 3/04	19:53	W. Choate	3500D	7592
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	ND	mg/l	0.100	1	12/ 3/04	18:06	J. Hill	353.2	7593
**Sulfate	85.0	mg/l	5.00	5	12/ 7/04	10:11	M.Shockley	375.4	144
**Alkalinity as CaCO3	374.	mg/l	5.00	1	12/ 3/04	18:00	J. Hill	310.1	7574
**Total Organic Carbon	ND	mg/l	1.00	1	12/ 6/04	14:52	S. Prayter	415.1	8763
**Sulfide	ND	mg/l	1.000	1	12/ 9/04	12:35	I. Barwari	376.1	1915
**Chloride	14.1	mg/l	1.00	1	12/ 5/04	0:26	W. Choate	325.2	7598

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	73. - 127.
VOA Surr Toluene-d8	94.	79. - 113.
VOA Surr, 4-BFB	102.	79. - 125.
VOA Surr, DBFM	106.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188720
Sample ID: W-5
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

M = Method RSK175M/8015BM modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188721
Sample ID: TW-09
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 10:10
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Benzene	ND	mg/l	0.0010	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Bromobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Bromoform	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Bromomethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**2-Butanone	ND	mg/l	0.0250	1	12/ 4/04	4:15	J.Haley	8260B	1694
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Chloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Chloroform	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Chloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Dibromomethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188721
Sample ID: TW-09
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**cis-1,2-Dichloroethene	0.00240	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**2-Hexanone	ND	mg/l	0.00500	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Methylene chloride	ND	mg/l	0.00250	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Naphthalene	ND	mg/l	0.00500	1	12/ 4/04	4:15	J.Haley	8260B	1694
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Styrene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Toluene	ND	mg/l	0.0010	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Trichloroethene	0.0462	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 4/04	4:15	J.Haley	8260B	1694
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 4/04	4:15	J.Haley	8260B	1694
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188721

Sample ID: TW-09

Project: 51870.11

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 4/04	4:15	J.Haley	8260B	1694
MISCELLANEOUS GC PARAMETERS									
**Methane	ND	mg/L	0.026	1	12/ 7/04	15:05	K. Roberso	RSK175M	9864
Carbon Dioxide	25.6	mg/l	3.0	1	12/ 3/04	10:10	T. Beverly	SM4500CO2C	549
**Ethene	ND	mg/L	0.026	1	12/ 7/04	15:05	K. Roberso	RSK175M	9864
**Ethane	ND	mg/L	0.026	1	12/ 7/04	15:05	K. Roberso	RSK175M	9864
METALS									
**Ferrous Iron	0.104	mg/l	0.100	1	12/ 3/04	19:53	W. Choate	3500D	7592
MISCELLANEOUS CHEMISTRY									
**Nitrate-N as N	ND	mg/l	0.100	1	12/ 3/04	18:05	J. Hill	353.2	7593
**Sulfate	229.	mg/l	10.0	10	12/ 7/04	10:11	M.Shockley	375.4	144
**Alkalinity as CaCO3	269.	mg/l	5.00	1	12/ 3/04	18:00	J. Hill	310.1	7574
**Total Organic Carbon	ND	mg/l	1.00	1	12/ 6/04	14:52	S. Prayter	415.1	8763
**Sulfide	ND	mg/l	1.000	1	12/ 9/04	12:35	I. Barwari	376.1	1915
**Chloride	9.36	mg/l	1.00	1	12/ 5/04	0:28	W. Choate	325.2	7598

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 127.
VOA Surr Toluene-d8	100.	79. - 113.
VOA Surr, 4-BFB	107.	79. - 125.
VOA Surr, DBFM	105.	75. - 134.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188721
Sample ID: TW-09
Project: 51870.11
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
M = Method RSK175M/8015BM modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188722
Sample ID: W-5(DUP)
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 8:48
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	17:29	J.Haley	8260B	1689
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188722
Sample ID: W-5 (DUP)
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**cis-1,2-Dichloroethene	0.0894	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**trans-1,2-Dichloroethene	0.00440	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	17:29	J.Haley	8260B	1689
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Trichloroethene	0.725	mg/l	0.0100	10	12/ 4/04	5:30	J.Haley	8260B	1694
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	17:29	J.Haley	8260B	1689
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	17:29	J.Haley	8260B	1689
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188722
Sample ID: W-5 (DUP)
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	17:29	J.Haley	8260B	1689

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	105.	79. - 125.
VOA Surr, DBFM	104.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188723
Sample ID: OB-06
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 11:25
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Benzene	ND	mg/l	0.0010	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Bromobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Bromoform	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Bromomethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**2-Butanone	ND	mg/l	0.0250	1	12/ 4/04	4:40	J.Haley	8260B	1694
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Chloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Chloroform	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Chloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Dibromomethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188723
Sample ID: OB-06
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**cis-1,2-Dichloroethene	0.00140	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**2-Hexanone	ND	mg/l	0.00500	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Methylene chloride	ND	mg/l	0.00250	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Naphthalene	ND	mg/l	0.00500	1	12/ 4/04	4:40	J.Haley	8260B	1694
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Styrene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Toluene	ND	mg/l	0.0010	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Trichloroethene	0.0319	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 4/04	4:40	J.Haley	8260B	1694
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 4/04	4:40	J.Haley	8260B	1694
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188723
 Sample ID: OB-06
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 4/04	4:40	J.Haley	8260B	1694

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	104.	79. - 125.
VOA Surr, DBFM	102.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188724
Sample ID: BR-08
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 13:50
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	0.264	mg/l	0.0250	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Benzene	0.0016	mg/l	0.0010	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	18:19	J.Haley	8260B	1689
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Chloromethane	0.00110	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188724

Sample ID: BR-08

Project: 51870.11

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1-Dichloroethene	0.00100	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**cis-1,2-Dichloroethene	0.166	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**trans-1,2-Dichloroethene	0.0189	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	18:19	J.Haley	8260B	1689
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Toluene	0.0034	mg/l	0.0010	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Trichloroethene	0.134	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:19	J.Haley	8260B	1689
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Vinyl chloride	0.00360	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Xylenes (Total)	0.0028	mg/l	0.0010	1	12/ 3/04	18:19	J.Haley	8260B	1689
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188724

Sample ID: BR-08

Project: 51870.11

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:19	J.Haley	8260B	1689

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 127.
VOA Surr Toluene-d8	96.	79. - 113.
VOA Surr, 4-BFB	103.	79. - 125.
VOA Surr, DBFM	105.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188725
Sample ID: BR-17
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected: 15:00
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	18:44	J.Haley	8260B	1689
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188725
Sample ID: BR-17
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1-Dichloroethene	0.0127	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**cis-1,2-Dichloroethene	0.463	mg/l	0.0100	10	12/ 4/04	5:55	J.Haley	8260B	1694
**trans-1,2-Dichloroethene	0.0561	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	18:44	J.Haley	8260B	1689
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Trichloroethene	4.55	mg/l	0.100	100	12/ 4/04	6:20	J.Haley	8260B	1697
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	18:44	J.Haley	8260B	1689
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Vinyl chloride	0.0523	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	18:44	J.Haley	8260B	1689
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188725
 Sample ID: BR-17
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	18:44	J.Haley	8260B	1689

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	73. - 127.
VOA Surr Toluene-d8	100.	79. - 113.
VOA Surr, 4-BFB	99.	79. - 125.
VOA Surr, DBFM	105.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A188726
Sample ID: Trip Blank
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Sampler: JOE DEATHERAGE

Date Collected: 12/ 2/04
Time Collected:
Date Received: 12/ 3/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Benzene	ND	mg/l	0.0010	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Bromobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Bromoform	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Bromomethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**2-Butanone	ND	mg/l	0.0250	1	12/ 3/04	16:14	J.Haley	8260B	1689
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Chloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Chloroform	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Chloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Dibromomethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188726

Sample ID: Trip Blank

Project: 51870.11

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**2-Hexanone	ND	mg/l	0.00500	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Methylene chloride	ND	mg/l	0.00250	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Naphthalene	ND	mg/l	0.00500	1	12/ 3/04	16:14	J.Haley	8260B	1689
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Styrene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Toluene	ND	mg/l	0.0010	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Trichloroethene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 3/04	16:14	J.Haley	8260B	1689
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 3/04	16:14	J.Haley	8260B	1689
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A188726
 Sample ID: Trip Blank
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 3/04	16:14	J.Haley	8260B	1689

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	96.	79. - 113.
VOA Surr, 4-BFB	103.	79. - 125.
VOA Surr, DBFM	101.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLLOR INSTR
Page: 1
Laboratory Receipt Date: 12/ 3/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	0.0016	0.0560	0.0500	109	62 - 146	1689	04-A188724
Benzene	mg/l	< 0.0010	0.0547	0.0500	109	62 - 146	1694	04-A189146
Chlorobenzene	mg/l	< 0.00100	0.0534	0.0500	107	68 - 139	1689	04-A188724
1,1-Dichloroethene	mg/l	0.00100	0.0560	0.0500	110	58 - 152	1689	04-A188724
Toluene	mg/l	0.0034	0.0593	0.0500	112	68 - 141	1689	04-A188724
Toluene	mg/l	< 0.0010	0.0547	0.0500	109	68 - 141	1694	04-A189146
Trichloroethene	mg/l	0.134	0.182	0.0500	96	61 - 161	1689	04-A188724
Tetrachloroethene	mg/l	< 0.00100	0.0579	0.0500	116	62 - 151	1689	04-A188724
VOA Surr 1,2-DCA-d4	% Rec				102	73 - 127	1689	
VOA Surr 1,2-DCA-d4	% Rec				83	73 - 127	1694	
VOA Surr Toluene-d8	% Rec				94	79 - 113	1689	
VOA Surr Toluene-d8	% Rec				94	79 - 113	1694	
VOA Surr, 4-BFB	% Rec				98	79 - 125	1689	
VOA Surr, 4-BFB	% Rec				92	79 - 125	1694	
VOA Surr, DBFM	% Rec				104	75 - 134	1689	
VOA Surr, DBFM	% Rec				97	75 - 134	1694	
METALS								
Ferrous Iron	mg/l	1.24	2.13	1.00	89	75. - 125.	7592	04-A188845
Ferrous Iron	mg/l	1.24	2.16	1.00	92	75. - 125.	7592	04-A188845
MISC PARAMETERS								
Alkalinity as CaCO3	mg/l	374.	472.	100.	98	80. - 120.	7574	04-A188720
Sulfide	mg/l	< 1.000	19.30	20.00	96	63. - 127.	1915	04-A188720
Chloride	mg/l	< 1.00	10.8	10.0	108	71. - 123.	7598	04-A188756

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.11
 Project Name: ABB-FORMER TAYLLOR INSTR
 Page: 2
 Laboratory Receipt Date: 12/ 3/04

Methane	mg/L	< 0.026	1.31	1.33	98	62. - 132.	9864	04-A187681
Ethene	mg/L	< 0.026	2.05	2.32	88	75. - 119.	9864	04-A187681
Ethane	mg/L	< 0.026	2.22	2.50	89	72. - 119.	9864	04-A187681

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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VOA PARAMETERS

Benzene	mg/l	0.0560	0.0569	1.59	25.	1689
Benzene	mg/l	0.0547	0.0554	1.27	25.	1694
Chlorobenzene	mg/l	0.0534	0.0536	0.37	23.	1689
Chlorobenzene	mg/l	0.0527	0.0528	0.19	23.	1694
1,1-Dichloroethene	mg/l	0.0560	0.0540	3.64	26.	1689
1,1-Dichloroethene	mg/l	0.0530	0.0537	1.31	26.	1694
Toluene	mg/l	0.0593	0.0595	0.34	29.	1689
Toluene	mg/l	0.0547	0.0576	5.16	29.	1694
Trichloroethene	mg/l	0.182	0.175	3.92	26.	1689
Trichloroethene	mg/l	0.0536	0.0530	1.13	26.	1694
Tetrachloroethene	mg/l	0.0579	0.0616	6.19	27.	1689
Tetrachloroethene	mg/l	0.0555	0.0582	4.75	27.	1694
VOA Surr 1,2-DCA-d4	% Rec		102.			1689
VOA Surr 1,2-DCA-d4	% Rec		92.			1694
VOA Surr Toluene-d8	% Rec		96.			1689
VOA Surr Toluene-d8	% Rec		101.			1694
VOA Surr, 4-BFB	% Rec		92.			1689
VOA Surr, 4-BFB	% Rec		96.			1694
VOA Surr, DBFM	% Rec		102.			1689
VOA Surr, DBFM	% Rec		97.			1694

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

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****METALS****

Ferrous Iron	mg/l	2.13	2.16	1.40	20	7592
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****MISC PARAMETERS****

Methane	mg/L	1.31	1.28	2.32	50	9864
Ethene	mg/L	2.05	2.04	0.49	50	9864
Ethane	mg/L	2.22	2.20	0.90	50	9864
Nitrate-N as N	mg/l	5.92	5.88	0.68	20	7593
Sulfide	mg/l	19.30	19.20	0.52	20	1915
Chloride	mg/l	10.8	10.9	0.92	20	7598

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.289	116	55 - 146	1689
Acetone	mg/l	0.250	0.203	81	55 - 146	1694
Benzene	mg/l	0.0500	0.0508	102	76 - 127	1689
Benzene	mg/l	0.0500	0.0529	106	76 - 127	1694
Bromobenzene	mg/l	0.0500	0.0512	102	73 - 125	1689
Bromobenzene	mg/l	0.0500	0.0530	106	73 - 125	1694
Bromochloromethane	mg/l	0.0500	0.0537	107	71 - 137	1689
Bromochloromethane	mg/l	0.0500	0.0546	109	71 - 137	1694
Bromoform	mg/l	0.0500	0.0485	97	56 - 127	1689
Bromoform	mg/l	0.0500	0.0478	96	56 - 127	1694
Bromomethane	mg/l	0.0500	0.0486	97	50 - 166	1689
Bromomethane	mg/l	0.0500	0.0412	82	50 - 166	1694
2-Butanone	mg/l	0.250	0.305	122	63 - 138	1689
2-Butanone	mg/l	0.250	0.281	112	63 - 138	1694
n-Butylbenzene	mg/l	0.0500	0.0623	125	66 - 139	1689
n-Butylbenzene	mg/l	0.0500	0.0619	124	66 - 139	1694
sec-Butylbenzene	mg/l	0.0500	0.0575	115	71 - 136	1689
sec-Butylbenzene	mg/l	0.0500	0.0563	113	71 - 136	1694

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
tert-Butylbenzene	mg/l	0.0500	0.0511	102	71 - 135	1689
tert-Butylbenzene	mg/l	0.0500	0.0528	106	71 - 135	1694
Carbon disulfide	mg/l	0.0500	0.0554	111	72 - 138	1689
Carbon disulfide	mg/l	0.0500	0.0569	114	72 - 138	1694
Carbon tetrachloride	mg/l	0.0500	0.0532	106	69 - 138	1689
Carbon tetrachloride	mg/l	0.0500	0.0540	108	69 - 138	1694
Chlorobenzene	mg/l	0.0500	0.0508	102	81 - 123	1689
Chlorobenzene	mg/l	0.0500	0.0532	106	81 - 123	1694
Chloroethane	mg/l	0.0500	0.0476	95	56 - 155	1689
Chloroethane	mg/l	0.0500	0.0472	94	56 - 155	1694
Chloroform	mg/l	0.0500	0.0504	101	73 - 128	1689
Chloroform	mg/l	0.0500	0.0515	103	73 - 128	1694
Chloromethane	mg/l	0.0500	0.0489	98	36 - 157	1689
Chloromethane	mg/l	0.0500	0.0468	94	36 - 157	1694
2-Chlorotoluene	mg/l	0.0500	0.0519	104	74 - 131	1689
2-Chlorotoluene	mg/l	0.0500	0.0543	109	74 - 131	1694
4-Chlorotoluene	mg/l	0.0500	0.0542	108	76 - 130	1689
4-Chlorotoluene	mg/l	0.0500	0.0561	112	76 - 130	1694
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0498	100	53 - 138	1689
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0514	103	53 - 138	1694
Dibromochloromethane	mg/l	0.0500	0.0502	100	71 - 128	1689
Dibromochloromethane	mg/l	0.0500	0.0500	100	71 - 128	1694
1,2-Dibromoethane	mg/l	0.0500	0.0526	105	71 - 134	1689
1,2-Dibromoethane	mg/l	0.0500	0.0541	108	71 - 134	1694
Dibromomethane	mg/l	0.0500	0.0528	106	72 - 134	1689
Dibromomethane	mg/l	0.0500	0.0544	109	72 - 134	1694
1,2-Dichlorobenzene	mg/l	0.0500	0.0512	102	80 - 128	1689
1,2-Dichlorobenzene	mg/l	0.0500	0.0517	103	80 - 128	1694
1,3-Dichlorobenzene	mg/l	0.0500	0.0516	103	80 - 126	1689
1,3-Dichlorobenzene	mg/l	0.0500	0.0524	105	80 - 126	1694
1,4-Dichlorobenzene	mg/l	0.0500	0.0504	101	79 - 124	1689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
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Page: 5
Laboratory Receipt Date: 12/ 3/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,4-Dichlorobenzene	mg/l	0.0500	0.0510	102	79 - 124	1694
Dichlorodifluoromethane	mg/l	0.0500	0.0564	113	35 - 160	1689
Dichlorodifluoromethane	mg/l	0.0500	0.0518	104	35 - 160	1694
1,1-Dichloroethane	mg/l	0.0500	0.0506	101	74 - 131	1689
1,1-Dichloroethane	mg/l	0.0500	0.0524	105	74 - 131	1694
1,2-Dichloroethane	mg/l	0.0500	0.0521	104	72 - 129	1689
1,2-Dichloroethane	mg/l	0.0500	0.0548	110	72 - 129	1694
1,1-Dichloroethene	mg/l	0.0500	0.0494	99	73 - 137	1689
1,1-Dichloroethene	mg/l	0.0500	0.0490	98	73 - 137	1694
cis-1,2-Dichloroethene	mg/l	0.0500	0.0532	106	67 - 137	1689
cis-1,2-Dichloroethene	mg/l	0.0500	0.0540	108	67 - 137	1694
trans-1,2-Dichloroethene	mg/l	0.0500	0.0546	109	70 - 138	1689
trans-1,2-Dichloroethene	mg/l	0.0500	0.0554	111	70 - 138	1694
1,2-Dichloropropane	mg/l	0.0500	0.0490	98	78 - 131	1689
1,2-Dichloropropane	mg/l	0.0500	0.0523	105	78 - 131	1694
1,3-Dichloropropane	mg/l	0.0500	0.0502	100	77 - 127	1689
1,3-Dichloropropane	mg/l	0.0500	0.0534	107	77 - 127	1694
2,2-Dichloropropane	mg/l	0.0500	0.0642	128	43 - 146	1689
2,2-Dichloropropane	mg/l	0.0500	0.0630	126	43 - 146	1694
1,1-Dichloropropene	mg/l	0.0500	0.0556	111	75 - 132	1689
1,1-Dichloropropene	mg/l	0.0500	0.0552	110	75 - 132	1694
cis-1,3-Dichloropropene	mg/l	0.0500	0.0557	111	62 - 135	1689
cis-1,3-Dichloropropene	mg/l	0.0500	0.0566	113	62 - 135	1694
trans-1,3-Dichloropropene	mg/l	0.0500	0.0550	110	58 - 130	1689
trans-1,3-Dichloropropene	mg/l	0.0500	0.0576	115	58 - 130	1694
Ethylbenzene	mg/l	0.0500	0.0536	107	80 - 124	1689
Ethylbenzene	mg/l	0.0500	0.0536	107	80 - 124	1694
Hexachlorobutadiene	mg/l	0.0500	0.0542	108	63 - 140	1689
Hexachlorobutadiene	mg/l	0.0500	0.0596	119	63 - 140	1694
2-Hexanone	mg/l	0.250	0.285	114	66 - 138	1689
2-Hexanone	mg/l	0.250	0.264	106	66 - 138	1694

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
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Page: 6
Laboratory Receipt Date: 12/ 3/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Isopropylbenzene	mg/l	0.0500	0.0559	112	67 - 137	1689
Isopropylbenzene	mg/l	0.0500	0.0571	114	67 - 137	1694
p-Isopropyltoluene	mg/l	0.0500	0.0588	118	74 - 133	1689
p-Isopropyltoluene	mg/l	0.0500	0.0587	117	74 - 133	1694
4-Methyl-2-pentanone	mg/l	0.250	0.273	109	68 - 139	1689
4-Methyl-2-pentanone	mg/l	0.250	0.282	113	68 - 139	1694
Methylene chloride	mg/l	0.0500	0.0509	102	71 - 138	1689
Methylene chloride	mg/l	0.0500	0.0537	107	71 - 138	1694
Naphthalene	mg/l	0.0500	0.0535	107	61 - 143	1689
Naphthalene	mg/l	0.0500	0.0550	110	61 - 143	1694
n-Propylbenzene	mg/l	0.0500	0.0548	110	70 - 136	1689
n-Propylbenzene	mg/l	0.0500	0.0556	111	70 - 136	1694
Styrene	mg/l	0.0500	0.0550	110	81 - 130	1689
Styrene	mg/l	0.0500	0.0554	111	81 - 130	1694
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0524	105	82 - 128	1689
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0525	105	82 - 128	1694
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0521	104	62 - 134	1689
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0541	108	62 - 134	1694
Tetrachloroethene	mg/l	0.0500	0.0561	112	78 - 131	1689
Tetrachloroethene	mg/l	0.0500	0.0545	109	78 - 131	1694
Toluene	mg/l	0.0500	0.0523	105	79 - 124	1689
Toluene	mg/l	0.0500	0.0533	107	79 - 124	1694
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0532	106	68 - 136	1689
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0591	118	68 - 136	1694
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0578	116	65 - 138	1689
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0571	114	65 - 138	1694
1,1,1-Trichloroethane	mg/l	0.0500	0.0513	103	73 - 131	1689
1,1,1-Trichloroethane	mg/l	0.0500	0.0507	101	73 - 131	1694
1,1,2-Trichloroethane	mg/l	0.0500	0.0515	103	79 - 126	1689
1,1,2-Trichloroethane	mg/l	0.0500	0.0530	106	79 - 126	1694
Trichloroethene	mg/l	0.0500	0.0511	102	76 - 140	1689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Trichloroethene	mg/l	0.0500	0.0513	103	76 - 140	1694
Trichloroethene	mg/l	0.0500	0.0513	103	76 - 140	1697
1,2,3-Trichloropropane	mg/l	0.0500	0.0508	102	57 - 136	1689
1,2,3-Trichloropropane	mg/l	0.0500	0.0513	103	57 - 136	1694
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0547	109	74 - 131	1689
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0560	112	74 - 131	1694
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0538	108	78 - 129	1689
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0558	112	78 - 129	1694
Vinyl chloride	mg/l	0.0500	0.0512	102	51 - 150	1689
Vinyl chloride	mg/l	0.0500	0.0510	102	51 - 150	1694
Xylenes (Total)	mg/l	0.150	0.161	107	80 - 125	1689
Xylenes (Total)	mg/l	0.150	0.168	112	80 - 125	1694
Bromodichloromethane	mg/l	0.0500	0.0502	100	76 - 134	1689
Bromodichloromethane	mg/l	0.0500	0.0531	106	76 - 134	1694
Trichlorofluoromethane	mg/l	0.0500	0.0548	110	55 - 150	1689
Trichlorofluoromethane	mg/l	0.0500	0.0546	109	55 - 150	1694
Methane	mg/L	1.33	1.37	103	79 - 121	9864
Carbon Dioxide	mg/l	100.	103.	103	90 - 110	549
Ethene	mg/L	2.32	2.17	94	77 - 119	9864
Ethane	mg/L	2.50	2.35	94	78 - 118	9864
VOA Surr 1,2-DCA-d4	% Rec			102	73 - 127	1689
VOA Surr 1,2-DCA-d4	% Rec			104	73 - 127	1694
VOA Surr 1,2-DCA-d4	% Rec			104	73 - 127	1697
VOA Surr Toluene-d8	% Rec			95	79 - 113	1689
VOA Surr Toluene-d8	% Rec			98	79 - 113	1694
VOA Surr Toluene-d8	% Rec			98	79 - 113	1697
VOA Surr, 4-BFB	% Rec			96	79 - 125	1689
VOA Surr, 4-BFB	% Rec			91	79 - 125	1694
VOA Surr, 4-BFB	% Rec			91	79 - 125	1697
VOA Surr, DBFM	% Rec			101	75 - 134	1689
VOA Surr, DBFM	% Rec			102	75 - 134	1694

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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 Project Name: ABB-FORMER TAYLLOR INSTR
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, DBFM	% Rec			102	75 - 134	1697
METALS						
Ferrous Iron	mg/l	1.00	1.03	103	80 - 120	7592
MISC PARAMETERS						
Nitrate-N as N	mg/l	6.00	5.87	98	90 - 110	7593
Sulfate	mg/l	25.0	24.1	96	88 - 111	144
Alkalinity as CaCO3	mg/l	100.	99.2	99	90 - 110	7574
Total Organic Carbon	mg/l	200.	196.	98	87 - 110	8763
Sulfide	mg/l	20.00	19.60	98	90 - 110	1915
Chloride	mg/l	10.0	10.1	101	87 - 113	7598

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Ferrous Iron	mg/l	2.62	2.58	1.54	15.	7592	04-A188699
Nitrate-N as N	mg/l	0.450	0.440	2.25	15.	7593	04-A188748
Sulfate	mg/l	229.	229.	0.00	15.	144	04-A188721
Alkalinity as CaCO3	mg/l	< 5.00	< 5.00	N/A	15.	7574	04-A188756
Total Organic Carbon	mg/l	< 1.00	< 1.00	N/A	15.	8763	04-A188781
Sulfide	mg/l	< 1.000	< 1.000	N/A	15.	1915	04-A190745
Chloride	mg/l	14.1	14.4	2.11	15.	7598	04-A188720
Carbon Dioxide	mg/l	40.5	41.2	1.71	15.	549	04-A187681

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: ABB-FORMER TAYLLOR INSTR

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Laboratory Receipt Date: 12/ 3/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00810	mg/l	1689	12/ 3/04	15:50
Acetone	< 0.00810	mg/l	1694	12/ 4/04	3:50
Benzene	< 0.0003	mg/l	1689	12/ 3/04	15:50
Benzene	< 0.0003	mg/l	1694	12/ 4/04	3:50
Bromobenzene	< 0.00020	mg/l	1689	12/ 3/04	15:50
Bromobenzene	< 0.00020	mg/l	1694	12/ 4/04	3:50
Bromochloromethane	< 0.00030	mg/l	1689	12/ 3/04	15:50
Bromochloromethane	< 0.00030	mg/l	1694	12/ 4/04	3:50
Bromoform	< 0.00020	mg/l	1689	12/ 3/04	15:50
Bromoform	< 0.00020	mg/l	1694	12/ 4/04	3:50
Bromomethane	< 0.00030	mg/l	1689	12/ 3/04	15:50
Bromomethane	< 0.00030	mg/l	1694	12/ 4/04	3:50
2-Butanone	< 0.00620	mg/l	1689	12/ 3/04	15:50
2-Butanone	< 0.00620	mg/l	1694	12/ 4/04	3:50
n-Butylbenzene	< 0.00040	mg/l	1689	12/ 3/04	15:50
n-Butylbenzene	< 0.00040	mg/l	1694	12/ 4/04	3:50
sec-Butylbenzene	< 0.00030	mg/l	1689	12/ 3/04	15:50
sec-Butylbenzene	< 0.00030	mg/l	1694	12/ 4/04	3:50
tert-Butylbenzene	< 0.00030	mg/l	1689	12/ 3/04	15:50
tert-Butylbenzene	< 0.00030	mg/l	1694	12/ 4/04	3:50
Carbon disulfide	< 0.00030	mg/l	1689	12/ 3/04	15:50
Carbon disulfide	< 0.00030	mg/l	1694	12/ 4/04	3:50
Carbon tetrachloride	< 0.00030	mg/l	1689	12/ 3/04	15:50
Carbon tetrachloride	< 0.00030	mg/l	1694	12/ 4/04	3:50
Chlorobenzene	< 0.00020	mg/l	1689	12/ 3/04	15:50
Chlorobenzene	< 0.00020	mg/l	1694	12/ 4/04	3:50
Chloroethane	< 0.00080	mg/l	1689	12/ 3/04	15:50

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloroethane	< 0.00080	mg/l	1694	12/ 4/04	3:50
Chloroform	< 0.00030	mg/l	1689	12/ 3/04	15:50
Chloroform	< 0.00030	mg/l	1694	12/ 4/04	3:50
Chloromethane	< 0.00060	mg/l	1689	12/ 3/04	15:50
Chloromethane	< 0.00060	mg/l	1694	12/ 4/04	3:50
2-Chlorotoluene	< 0.00040	mg/l	1689	12/ 3/04	15:50
2-Chlorotoluene	< 0.00040	mg/l	1694	12/ 4/04	3:50
4-Chlorotoluene	< 0.00020	mg/l	1689	12/ 3/04	15:50
4-Chlorotoluene	< 0.00020	mg/l	1694	12/ 4/04	3:50
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	1689	12/ 3/04	15:50
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	1694	12/ 4/04	3:50
Dibromochloromethane	< 0.00060	mg/l	1689	12/ 3/04	15:50
Dibromochloromethane	< 0.00060	mg/l	1694	12/ 4/04	3:50
1,2-Dibromoethane	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,2-Dibromoethane	< 0.00040	mg/l	1694	12/ 4/04	3:50
Dibromomethane	< 0.00050	mg/l	1689	12/ 3/04	15:50
Dibromomethane	< 0.00050	mg/l	1694	12/ 4/04	3:50
1,2-Dichlorobenzene	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,2-Dichlorobenzene	< 0.00040	mg/l	1694	12/ 4/04	3:50
1,3-Dichlorobenzene	< 0.00030	mg/l	1689	12/ 3/04	15:50
1,3-Dichlorobenzene	< 0.00030	mg/l	1694	12/ 4/04	3:50
1,4-Dichlorobenzene	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,4-Dichlorobenzene	< 0.00040	mg/l	1694	12/ 4/04	3:50
Dichlorodifluoromethane	< 0.00050	mg/l	1689	12/ 3/04	15:50
Dichlorodifluoromethane	< 0.00050	mg/l	1694	12/ 4/04	3:50
1,1-Dichloroethane	< 0.00030	mg/l	1689	12/ 3/04	15:50
1,1-Dichloroethane	< 0.00030	mg/l	1694	12/ 4/04	3:50
1,2-Dichloroethane	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,2-Dichloroethane	< 0.00040	mg/l	1694	12/ 4/04	3:50
1,1-Dichloroethene	< 0.00030	mg/l	1689	12/ 3/04	15:50
1,1-Dichloroethene	< 0.00030	mg/l	1694	12/ 4/04	3:50

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
cis-1,2-Dichloroethene	< 0.00060	mg/l	1689	12/ 3/04	15:50
cis-1,2-Dichloroethene	< 0.00060	mg/l	1694	12/ 4/04	3:50
trans-1,2-Dichloroethene	< 0.00040	mg/l	1689	12/ 3/04	15:50
trans-1,2-Dichloroethene	< 0.00040	mg/l	1694	12/ 4/04	3:50
1,2-Dichloropropane	< 0.00030	mg/l	1689	12/ 3/04	15:50
1,2-Dichloropropane	< 0.00030	mg/l	1694	12/ 4/04	3:50
1,3-Dichloropropane	< 0.00020	mg/l	1689	12/ 3/04	15:50
1,3-Dichloropropane	< 0.00020	mg/l	1694	12/ 4/04	3:50
2,2-Dichloropropane	< 0.00040	mg/l	1689	12/ 3/04	15:50
2,2-Dichloropropane	< 0.00040	mg/l	1694	12/ 4/04	3:50
1,1-Dichloropropene	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,1-Dichloropropene	< 0.00040	mg/l	1694	12/ 4/04	3:50
cis-1,3-Dichloropropene	< 0.00050	mg/l	1689	12/ 3/04	15:50
cis-1,3-Dichloropropene	< 0.00050	mg/l	1694	12/ 4/04	3:50
trans-1,3-Dichloropropene	< 0.00060	mg/l	1689	12/ 3/04	15:50
trans-1,3-Dichloropropene	< 0.00060	mg/l	1694	12/ 4/04	3:50
Ethylbenzene	< 0.0002	mg/l	1689	12/ 3/04	15:50
Ethylbenzene	< 0.0002	mg/l	1694	12/ 4/04	3:50
Hexachlorobutadiene	< 0.00080	mg/l	1689	12/ 3/04	15:50
Hexachlorobutadiene	< 0.00080	mg/l	1694	12/ 4/04	3:50
2-Hexanone	< 0.00280	mg/l	1689	12/ 3/04	15:50
2-Hexanone	< 0.00280	mg/l	1694	12/ 4/04	3:50
Isopropylbenzene	< 0.00030	mg/l	1689	12/ 3/04	15:50
Isopropylbenzene	< 0.00030	mg/l	1694	12/ 4/04	3:50
p-Isopropyltoluene	< 0.00040	mg/l	1689	12/ 3/04	15:50
p-Isopropyltoluene	< 0.00040	mg/l	1694	12/ 4/04	3:50
4-Methyl-2-pentanone	< 0.00230	mg/l	1689	12/ 3/04	15:50
4-Methyl-2-pentanone	< 0.00230	mg/l	1694	12/ 4/04	3:50
Methylene chloride	< 0.00190	mg/l	1689	12/ 3/04	15:50
Methylene chloride	< 0.00190	mg/l	1694	12/ 4/04	3:50
Naphthalene	< 0.00120	mg/l	1689	12/ 3/04	15:50

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

Page: 12

Laboratory Receipt Date: 12/ 3/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	1694	12/ 4/04	3:50
n-Propylbenzene	< 0.00020	mg/l	1689	12/ 3/04	15:50
n-Propylbenzene	< 0.00020	mg/l	1694	12/ 4/04	3:50
Styrene	< 0.00040	mg/l	1689	12/ 3/04	15:50
Styrene	< 0.00040	mg/l	1694	12/ 4/04	3:50
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	1689	12/ 3/04	15:50
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	1694	12/ 4/04	3:50
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	1689	12/ 3/04	15:50
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	1694	12/ 4/04	3:50
Tetrachloroethene	< 0.00050	mg/l	1689	12/ 3/04	15:50
Tetrachloroethene	< 0.00050	mg/l	1694	12/ 4/04	3:50
Toluene	< 0.0002	mg/l	1689	12/ 3/04	15:50
Toluene	< 0.0002	mg/l	1694	12/ 4/04	3:50
1,2,3-Trichlorobenzene	< 0.00060	mg/l	1689	12/ 3/04	15:50
1,2,3-Trichlorobenzene	< 0.00060	mg/l	1694	12/ 4/04	3:50
1,2,4-Trichlorobenzene	< 0.00060	mg/l	1689	12/ 3/04	15:50
1,2,4-Trichlorobenzene	< 0.00060	mg/l	1694	12/ 4/04	3:50
1,1,1-Trichloroethane	< 0.00030	mg/l	1689	12/ 3/04	15:50
1,1,1-Trichloroethane	< 0.00030	mg/l	1694	12/ 4/04	3:50
1,1,2-Trichloroethane	< 0.00050	mg/l	1689	12/ 3/04	15:50
1,1,2-Trichloroethane	< 0.00050	mg/l	1694	12/ 4/04	3:50
Trichloroethene	< 0.00030	mg/l	1689	12/ 3/04	15:50
Trichloroethene	< 0.00030	mg/l	1694	12/ 4/04	3:50
Trichloroethene	< 0.00030	mg/l	1697	12/ 4/04	3:50
1,2,3-Trichloropropane	< 0.00070	mg/l	1689	12/ 3/04	15:50
1,2,3-Trichloropropane	< 0.00070	mg/l	1694	12/ 4/04	3:50
1,2,4-Trimethylbenzene	< 0.0004	mg/l	1689	12/ 3/04	15:50
1,2,4-Trimethylbenzene	< 0.0004	mg/l	1694	12/ 4/04	3:50
1,3,5-Trimethylbenzene	< 0.00020	mg/l	1689	12/ 3/04	15:50
1,3,5-Trimethylbenzene	< 0.00020	mg/l	1694	12/ 4/04	3:50
Vinyl chloride	< 0.00060	mg/l	1689	12/ 3/04	15:50

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

Page: 13

Laboratory Receipt Date: 12/ 3/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Vinyl chloride	< 0.00060	mg/l	1694	12/ 4/04	3:50
Xylenes (Total)	< 0.0006	mg/l	1689	12/ 3/04	15:50
Xylenes (Total)	< 0.0006	mg/l	1694	12/ 4/04	3:50
Bromodichloromethane	< 0.00090	mg/l	1689	12/ 3/04	15:50
Bromodichloromethane	< 0.00090	mg/l	1694	12/ 4/04	3:50
Trichlorofluoromethane	< 0.00040	mg/l	1689	12/ 3/04	15:50
Trichlorofluoromethane	< 0.00040	mg/l	1694	12/ 4/04	3:50
VOA Surr 1,2-DCA-d4	99.	% Rec	1689	12/ 3/04	15:50
VOA Surr 1,2-DCA-d4	102.	% Rec	1694	12/ 4/04	3:50
VOA Surr 1,2-DCA-d4	102.	% Rec	1697	12/ 4/04	3:50
VOA Surr Toluene-d8	96.	% Rec	1689	12/ 3/04	15:50
VOA Surr Toluene-d8	100.	% Rec	1694	12/ 4/04	3:50
VOA Surr Toluene-d8	100.	% Rec	1697	12/ 4/04	3:50
VOA Surr, 4-BFB	100.	% Rec	1689	12/ 3/04	15:50
VOA Surr, 4-BFB	100.	% Rec	1694	12/ 4/04	3:50
VOA Surr, 4-BFB	100.	% Rec	1697	12/ 4/04	3:50
VOA Surr, DBFM	101.	% Rec	1689	12/ 3/04	15:50
VOA Surr, DBFM	102.	% Rec	1694	12/ 4/04	3:50
VOA Surr, DBFM	102.	% Rec	1697	12/ 4/04	3:50
METALS					
Ferrous Iron	< 0.100	mg/l	7592	12/ 3/04	19:53
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	7593	12/ 3/04	18:00
Sulfate	< 1.00	mg/l	144	12/ 7/04	10:11
Alkalinity as CaCO3	< 5.00	mg/l	7574	12/ 3/04	18:00
Total Organic Carbon	< 1.00	mg/l	8763	12/ 6/04	14:52
Sulfide	< 1.000	mg/l	1915	12/ 9/04	12:35
Chloride	< 1.00	mg/l	7598	12/ 5/04	0:14

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLLOR INSTR

Page: 14

Laboratory Receipt Date: 12/ 3/04

Methane	< 0.026	mg/L	9864	12/ 7/04	13:57
Carbon Dioxide	< 5.0	mg/l	549	12/ 3/04	10:10
Ethene	< 0.026	mg/L	9864	12/ 7/04	13:57
Ethane	< 0.026	mg/L	9864	12/ 7/04	13:57

= Value outside Laboratory historical or method prescribed QC limits.

December 3-6, 2004
Analytical Data

12/10/04

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: ABB-FORMER TAYLOR INS.
Project Number: 51870.11.
Laboratory Project Number: 399141.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
W-6	04-A190599	12/ 3/04
BR-03	04-A190600	12/ 3/04
QATB02	04-A190601	12/ 3/04
QAFB02	04-A190602	12/ 3/04
QARB02	04-A190603	12/ 3/04
BR-14	04-A190604	12/ 3/04
BR-01	04-A190605	12/ 3/04
BR-02	04-A190606	12/ 3/04
BR-07	04-A190607	12/ 4/04
BR-07 (DUP)	04-A190608	12/ 4/04
BR-12 MS/MSD	04-A190609	12/ 4/04
BR-13	04-A190610	12/ 4/04
BR-15	04-A190611	12/ 4/04
BR-10	04-A190612	12/ 4/04
OB-04	04-A190613	12/ 5/04
BR-04	04-A190614	12/ 5/04

Sample Identification -----	Lab Number -----	Collection Date -----
BR-05	04-A190615	12/ 5/04
OB-05	04-A190616	12/ 5/04

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By: Roxanne Connor Report Date: 12/10/04

Johnny A. Mitchell, Lab Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 11342

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ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190599
Sample ID: W-6
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
Time Collected: 8:10
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	18:34	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	18:34	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	18:34	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	15:39	B.Herford	8260B	2058
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	18:34	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190599
Sample ID: W-6
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00710	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00100	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	18:34	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	18:34	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	18:34	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	18:34	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	18:34	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Trichloroethene	0.00100	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	18:34	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	18:34	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190599
Sample ID: W-6
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	18:34	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	100.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190600
 Sample ID: BR-03
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
 Time Collected: 9:12
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	19:03	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	19:03	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	19:03	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	19:03	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190600
 Sample ID: BR-03
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1-Dichloroethene	0.00100	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.0270	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	19:03	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	19:03	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	19:03	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	19:03	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	19:03	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Trichloroethene	0.0606	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	19:03	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	19:03	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190600
 Sample ID: BR-03
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit		Factor	Date			
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	19:03	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	95.	79. - 125.
VOA Surr, DBFM	97.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190601
 Sample ID: QATB02
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
 Time Collected: 9:58
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	19:31	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	19:31	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	19:31	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	19:31	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190601
Sample ID: QATB02
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	19:31	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	19:31	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	19:31	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	19:31	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	19:31	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	19:31	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	19:31	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190601
Sample ID: QATB02
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	19:31	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	98.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190602
Sample ID: QAFB02
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
Time Collected: 10:02
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	20:00	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	20:00	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	20:00	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Chloroform	0.00460	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	16:07	B.Herford	8260B	2058
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	20:00	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190602
Sample ID: QAFB02
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:00	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	20:00	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	20:00	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	20:00	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	20:00	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:00	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	20:00	B.Herford	8260B	458
**Bromodichloromethane	0.00350	mg/l	0.00100	1	12/ 7/04	20:00	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190602
 Sample ID: QAFB02
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch	
			Limit		Factor	Date				Time
**Trichlorofluoromethane	ND	mg/l	0.00100	1		12/ 7/04	20:00	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	91.	79. - 125.
VOA Surr, DBFM	102.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190603
Sample ID: QARB02
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
Time Collected: 10:10
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	20:28	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	20:28	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	20:28	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Carbon disulfide	0.00100	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Chloroform	0.00420	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	16:36	B.Herford	8260B	2058
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	20:28	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190603
Sample ID: QARB02
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:28	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	20:28	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	20:28	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	20:28	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	20:28	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:28	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	20:28	B.Herford	8260B	458
**Bromodichloromethane	0.00340	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190603
 Sample ID: QARB02
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	20:28	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	101.	79. - 113.
VOA Surr, 4-BFB	91.	79. - 125.
VOA Surr, DBFM	101.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190604
Sample ID: BR-14
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
Time Collected: 11:00
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	20:57	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	20:57	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	20:57	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	20:57	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190604
 Sample ID: BR-14
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:57	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	20:57	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	20:57	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	20:57	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	20:57	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	20:57	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	20:57	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190604
 Sample ID: BR-14
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	20:57	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	95.	79. - 125.
VOA Surr, DBFM	96.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190605
 Sample ID: BR-01
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
 Time Collected: 13:10
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	21:25	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	21:25	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	21:25	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	21:25	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190605
Sample ID: BR-01
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00430	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00140	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	21:25	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	21:25	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	21:25	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	21:25	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	21:25	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Trichloroethene	0.0650	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	21:25	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	21:25	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190605
 Sample ID: BR-01
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	21:25	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	97.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190606
Sample ID: BR-02
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 3/04
Time Collected: 14:30
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	21:54	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	21:54	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	21:54	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	21:54	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190606
 Sample ID: BR-02
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1-Dichloroethene	0.00140	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.242	mg/l	0.0100	10	12/ 9/04	17:59	B.Herford	8260B	3623
**trans-1,2-Dichloroethene	0.0234	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	21:54	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	21:54	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	21:54	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	21:54	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	21:54	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Trichloroethene	0.647	mg/l	0.0100	10	12/ 9/04	17:59	B.Herford	8260B	3623
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	21:54	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Vinyl chloride	0.00140	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	21:54	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190606
 Sample ID: BR-02
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit		Factor	Date			
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	21:54	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	91.	79. - 125.
VOA Surr, DBFM	101.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190607
Sample ID: BR-07
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
Time Collected: 9:02
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	22:22	B.Herford	8260B	458
**Benzene	0.0014	mg/l	0.0010	1	12/ 7/04	22:22	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	22:22	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	22:22	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190607
Sample ID: BR-07
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00460	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00300	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	22:22	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	22:22	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	22:22	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	22:22	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	22:22	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 8/04	17:04	B.Herford	8260B	2058
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	22:22	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Vinyl chloride	0.0124	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	22:22	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190607
Sample ID: BR-07
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	22:22	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	90.	79. - 125.
VOA Surr, DBFM	100.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190608
 Sample ID: BR-07 (DUP)
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
 Time Collected: 9:05
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	22:51	B.Herford	8260B	458
**Benzene	0.0015	mg/l	0.0010	1	12/ 7/04	22:51	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	22:51	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	22:51	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190608

Sample ID: BR-07 (DUP)

Project: 51870.11

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00490	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00340	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	22:51	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	22:51	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	22:51	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	22:51	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	22:51	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	22:51	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Vinyl chloride	0.0139	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	22:51	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190608
 Sample ID: BR-07 (DUP)
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	22:51	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	96.	79. - 125.
VOA Surr, DBFM	97.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190609
Sample ID: BR-12 MS/MSD
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
Time Collected: 10:11
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	23:19	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	23:19	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	23:19	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	23:19	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190609

Sample ID: BR-12 MS/MSD

Project: 51870.11

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00510	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	23:19	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	23:19	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	23:19	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	23:19	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	23:19	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Trichloroethene	0.00100	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	23:19	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	23:19	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190609
 Sample ID: BR-12 MS/MSD
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	23:19	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	93.	79. - 125.
VOA Surr, DBFM	98.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190610
 Sample ID: BR-13
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
 Time Collected: 11:50
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 7/04	23:48	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 7/04	23:48	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 7/04	23:48	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 7/04	23:48	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190610
 Sample ID: BR-13
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	23:48	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 7/04	23:48	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 7/04	23:48	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 7/04	23:48	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 7/04	23:48	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Trichloroethene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 7/04	23:48	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 7/04	23:48	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190610
 Sample ID: BR-13
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 7/04	23:48	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	94.	79. - 125.
VOA Surr, DBFM	98.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190611
Sample ID: BR-15
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
Time Collected: 14:10
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	0:16	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	0:16	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	0:16	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	0:16	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190611
Sample ID: BR-15
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1-Dichloroethene	0.00130	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.136	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00540	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	0:16	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	0:16	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	0:16	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	0:16	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	0:16	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Trichloroethene	0.664	mg/l	0.0100	10	12/10/04	1:06	B.Herford	8260B	3736
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	0:16	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	0:16	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190611
 Sample ID: BR-15
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	0:16	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	73. - 127.
VOA Surr Toluene-d8	98.	79. - 113.
VOA Surr, 4-BFB	89.	79. - 125.
VOA Surr, DBFM	102.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190612
Sample ID: BR-10
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 4/04
Time Collected: 15:18
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	0:45	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	0:45	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	0:45	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	0:45	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190612
Sample ID: BR-10
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1-Dichloroethene	0.00180	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.436	mg/l	0.0200	20	12/10/04	1:35	B.Herford	8260B	3736
**trans-1,2-Dichloroethene	0.0412	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	0:45	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	0:45	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	0:45	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	0:45	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	0:45	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Trichloroethene	1.27	mg/l	0.0200	20	12/10/04	1:35	B.Herford	8260B	3736
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	0:45	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Vinyl chloride	0.00500	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	0:45	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190612
 Sample ID: BR-10
 Project: 51870.11
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	0:45	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	73. - 127.
VOA Surr Toluene-d8	100.	79. - 113.
VOA Surr, 4-BFB	88.	79. - 125.
VOA Surr, DBFM	101.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190613
Sample ID: OB-04
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 5/04
Time Collected: 8:57
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	1:13	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	1:13	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	1:13	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	1:13	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190613
Sample ID: OB-04
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.124	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**trans-1,2-Dichloroethene	0.00160	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	1:13	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	1:13	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	1:13	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	1:13	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	1:13	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Tetrachloroethene	0.00100	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Trichloroethene	0.626	mg/l	0.0100	10	12/10/04	2:03	B.Herford	8260B	3736
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	1:13	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	1:13	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190613
 Sample ID: OB-04
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	1:13	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	88.	79. - 125.
VOA Surr, DBFM	103.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190614
Sample ID: BR-04
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 5/04
Time Collected: 10:10
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	1:42	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	1:42	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	1:42	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	1:42	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190614
Sample ID: BR-04
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1-Dichloroethene	0.0153	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**cis-1,2-Dichloroethene	2.81	mg/l	0.100	100	12/10/04	2:32	B.Herford	8260B	3736
**trans-1,2-Dichloroethene	0.0900	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	1:42	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	1:42	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	1:42	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	1:42	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	1:42	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Trichloroethene	4.09	mg/l	0.100	100	12/10/04	2:32	B.Herford	8260B	3736
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	1:42	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Vinyl chloride	0.00830	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	1:42	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190614
 Sample ID: BR-04
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit		Date	Time			
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	1:42	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 127.
VOA Surr Toluene-d8	99.	79. - 113.
VOA Surr, 4-BFB	88.	79. - 125.
VOA Surr, DEFM	103.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190615
Sample ID: BR-05
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 5/04
Time Collected: 11:30
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	2:10	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	2:10	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	2:10	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	2:10	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190615
Sample ID: BR-05
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.0128	mg/l	0.00100	1	12/ 9/04	12:18	B.Herford	8260B	3623
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	2:10	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	2:10	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	2:10	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	2:10	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	2:10	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Trichloroethene	0.00170	mg/l	0.00100	1	12/ 9/04	12:18	B.Herford	8260B	3623
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	2:10	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Vinyl chloride	0.00210	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	2:10	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190615
 Sample ID: BR-05
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	2:10	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 127.
VOA Surr Toluene-d8	101.	79. - 113.
VOA Surr, 4-BFB	92.	79. - 125.
VOA Surr, DBFM	99.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190616
Sample ID: OB-05
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Sampler: JOE DEATHERAGE

Date Collected: 12/ 5/04
Time Collected: 13:38
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	2:39	B.Herford	8260B	458
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	2:39	B.Herford	8260B	458
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	2:39	B.Herford	8260B	458
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	2:39	B.Herford	8260B	458
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190616

Sample ID: OB-05

Project: 51870.11

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**cis-1,2-Dichloroethene	0.00400	mg/l	0.00100	1	12/ 9/04	12:46	B.Herford	8260B	3623
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	2:39	B.Herford	8260B	458
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	2:39	B.Herford	8260B	458
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	2:39	B.Herford	8260B	458
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	2:39	B.Herford	8260B	458
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	2:39	B.Herford	8260B	458
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Tetrachloroethene	0.00280	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Trichloroethene	0.172	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	2:39	B.Herford	8260B	458
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	2:39	B.Herford	8260B	458
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190616
 Sample ID: OB-05
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	2:39	B.Herford	8260B	458

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	101.	79. - 113.
VOA Surr, 4-BFB	90.	79. - 125.
VOA Surr, DBFM	102.	75. - 134.

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.
- ** = NELAC E87358 Certified Analyte

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INS.
Page: 1
Laboratory Receipt Date: 12/ 7/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	0.0014	0.0531	0.0500	103	62 - 146	458	04-A190607
Chlorobenzene	mg/l	< 0.00100	0.0528	0.0500	106	68 - 139	458	04-A190607
1,1-Dichloroethene	mg/l	< 0.00100	0.0596	0.0500	119	58 - 152	458	04-A190607
Toluene	mg/l	< 0.0010	0.0536	0.0500	107	68 - 141	458	04-A190607
Trichloroethene	mg/l	< 0.00030	0.0442	0.0500	88	61 - 161	3623	BLANK
Trichloroethene	mg/l	< 0.00030	0.0475	0.0500	95	61 - 161	3736	BLANK
Tetrachloroethene	mg/l	< 0.00100	0.0594	0.0500	119	62 - 151	458	04-A190607
VOA Surr 1,2-DCA-d4	% Rec				92	73 - 127	458	
VOA Surr 1,2-DCA-d4	% Rec				93	73 - 127	3623	
VOA Surr 1,2-DCA-d4	% Rec				96	73 - 127	3736	
VOA Surr Toluene-d8	% Rec				103	79 - 113	458	
VOA Surr Toluene-d8	% Rec				101	79 - 113	3623	
VOA Surr Toluene-d8	% Rec				102	79 - 113	3736	
VOA Surr, 4-BFB	% Rec				93	79 - 125	458	
VOA Surr, 4-BFB	% Rec				86	79 - 125	3623	
VOA Surr, 4-BFB	% Rec				85	79 - 125	3736	
VOA Surr, DBFM	% Rec				100	75 - 134	458	
VOA Surr, DBFM	% Rec				101	75 - 134	3623	
VOA Surr, DBFM	% Rec				104	75 - 134	3736	

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Page: 2
 Laboratory Receipt Date: 12/ 7/04

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0531	0.0508	4.43	25.	458
Chlorobenzene	mg/l	0.0528	0.0516	2.30	23.	458
1,1-Dichloroethene	mg/l	0.0596	0.0578	3.07	26.	458
Toluene	mg/l	0.0536	0.0526	1.88	29.	458
Trichloroethene	mg/l	0.0519	0.0495	4.73	26.	458
Trichloroethene	mg/l	0.0442	0.0455	2.90	26.	3623
Trichloroethene	mg/l	0.0475	0.0458	3.64	26.	3736
Tetrachloroethene	mg/l	0.0594	0.0587	1.19	27.	458
VOA Surr 1,2-DCA-d4	% Rec		90.			458
VOA Surr 1,2-DCA-d4	% Rec		91.			3623
VOA Surr 1,2-DCA-d4	% Rec		95.			3736
VOA Surr Toluene-d8	% Rec		104.			458
VOA Surr Toluene-d8	% Rec		102.			3623
VOA Surr Toluene-d8	% Rec		102.			3736
VOA Surr, 4-BFB	% Rec		92.			458
VOA Surr, 4-BFB	% Rec		87.			3623
VOA Surr, 4-BFB	% Rec		84.			3736
VOA Surr, DBFM	% Rec		99.			458
VOA Surr, DBFM	% Rec		100.			3623
VOA Surr, DBFM	% Rec		100.			3736

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Page: 3
 Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.227	91	55 - 146	458
Benzene	mg/l	0.0500	0.0504	101	76 - 127	458
Bromobenzene	mg/l	0.0500	0.0462	92	73 - 125	458
Bromochloromethane	mg/l	0.0500	0.0508	102	71 - 137	458
Bromoform	mg/l	0.0500	0.0360	72	56 - 127	458
Bromomethane	mg/l	0.0500	0.0341	68	50 - 166	458
2-Butanone	mg/l	0.250	0.232	93	63 - 138	458
n-Butylbenzene	mg/l	0.0500	0.0504	101	66 - 139	458
sec-Butylbenzene	mg/l	0.0500	0.0490	98	71 - 136	458
tert-Butylbenzene	mg/l	0.0500	0.0485	97	71 - 135	458
Carbon disulfide	mg/l	0.0500	0.0484	97	72 - 138	458
Carbon tetrachloride	mg/l	0.0500	0.0426	85	69 - 138	458
Chlorobenzene	mg/l	0.0500	0.0500	100	81 - 123	458
Chloroethane	mg/l	0.0500	0.0514	103	56 - 155	458
Chloroform	mg/l	0.0500	0.0512	102	73 - 128	458
Chloromethane	mg/l	0.0500	0.102	204 #	36 - 157	458
Chloromethane	mg/l	0.0500	0.0792	158 #	36 - 157	2058
2-Chlorotoluene	mg/l	0.0500	0.0514	103	74 - 131	458
4-Chlorotoluene	mg/l	0.0500	0.0521	104	76 - 130	458
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0412	82	53 - 138	458
Dibromochloromethane	mg/l	0.0500	0.0438	88	71 - 128	458
1,2-Dibromoethane	mg/l	0.0500	0.0503	101	71 - 134	458
Dibromomethane	mg/l	0.0500	0.0453	91	72 - 134	458
1,2-Dichlorobenzene	mg/l	0.0500	0.0525	105	80 - 128	458
1,3-Dichlorobenzene	mg/l	0.0500	0.0525	105	80 - 126	458
1,4-Dichlorobenzene	mg/l	0.0500	0.0529	106	79 - 124	458
Dichlorodifluoromethane	mg/l	0.0500	0.0340	68	35 - 160	458

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INS.

Page: 4

Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethane	mg/l	0.0500	0.0523	105	74 - 131	458
1,2-Dichloroethane	mg/l	0.0500	0.0453	91	72 - 129	458
1,1-Dichloroethene	mg/l	0.0500	0.0564	113	73 - 137	458
cis-1,2-Dichloroethene	mg/l	0.0500	0.0464	93	67 - 137	458
cis-1,2-Dichloroethene	mg/l	0.0500	0.0447	89	67 - 137	3623
cis-1,2-Dichloroethene	mg/l	0.0500	0.0448	90	67 - 137	3736
trans-1,2-Dichloroethene	mg/l	0.0500	0.0492	98	70 - 138	458
1,2-Dichloropropane	mg/l	0.0500	0.0478	96	78 - 131	458
1,3-Dichloropropane	mg/l	0.0500	0.0492	98	77 - 127	458
2,2-Dichloropropane	mg/l	0.0500	0.0535	107	43 - 146	458
1,1-Dichloropropene	mg/l	0.0500	0.0473	95	75 - 132	458
cis-1,3-Dichloropropene	mg/l	0.0500	0.0480	96	62 - 135	458
trans-1,3-Dichloropropene	mg/l	0.0500	0.0432	86	58 - 130	458
Ethylbenzene	mg/l	0.0500	0.0496	99	80 - 124	458
Hexachlorobutadiene	mg/l	0.0500	0.0563	113	63 - 140	458
2-Hexanone	mg/l	0.250	0.218	87	66 - 138	458
Isopropylbenzene	mg/l	0.0500	0.0461	92	67 - 137	458
p-Isopropyltoluene	mg/l	0.0500	0.0500	100	74 - 133	458
4-Methyl-2-pentanone	mg/l	0.250	0.232	93	68 - 139	458
Methylene chloride	mg/l	0.0500	0.0502	100	71 - 138	458
Naphthalene	mg/l	0.0500	0.0485	97	61 - 143	458
n-Propylbenzene	mg/l	0.0500	0.0503	101	70 - 136	458
Styrene	mg/l	0.0500	0.0471	94	81 - 130	458
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0472	94	82 - 128	458
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0544	109	62 - 134	458
Tetrachloroethene	mg/l	0.0500	0.0564	113	78 - 131	458
Toluene	mg/l	0.0500	0.0516	103	79 - 124	458
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0519	104	68 - 136	458
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0513	103	65 - 138	458
1,1,1-Trichloroethane	mg/l	0.0500	0.0476	95	73 - 131	458
1,1,2-Trichloroethane	mg/l	0.0500	0.0504	101	79 - 126	458

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INS.

Page: 5

Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Trichloroethene	mg/l	0.0500	0.0457	91	76 - 140	458
Trichloroethene	mg/l	0.0500	0.0448	90	76 - 140	2058
Trichloroethene	mg/l	0.0500	0.0447	89	76 - 140	3623
Trichloroethene	mg/l	0.0500	0.0464	93	76 - 140	3736
1,2,3-Trichloropropane	mg/l	0.0500	0.0372	74	57 - 136	458
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0477	95	74 - 131	458
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0494	99	78 - 129	458
Vinyl chloride	mg/l	0.0500	0.0426	85	51 - 150	458
Xylenes (Total)	mg/l	0.150	0.143	95	80 - 125	458
Bromodichloromethane	mg/l	0.0500	0.0414	83	76 - 134	458
Trichlorofluoromethane	mg/l	0.0500	0.0484	97	55 - 150	458
VOA Surr 1,2-DCA-d4	% Rec			90	73 - 127	458
VOA Surr 1,2-DCA-d4	% Rec			91	73 - 127	2058
VOA Surr 1,2-DCA-d4	% Rec			91	73 - 127	3623
VOA Surr 1,2-DCA-d4	% Rec			92	73 - 127	3736
VOA Surr Toluene-d8	% Rec			104	79 - 113	458
VOA Surr Toluene-d8	% Rec			103	79 - 113	2058
VOA Surr Toluene-d8	% Rec			103	79 - 113	3623
VOA Surr Toluene-d8	% Rec			102	79 - 113	3736
VOA Surr, 4-BFB	% Rec			95	79 - 125	458
VOA Surr, 4-BFB	% Rec			86	79 - 125	2058
VOA Surr, 4-BFB	% Rec			90	79 - 125	3623
VOA Surr, 4-BFB	% Rec			86	79 - 125	3736
VOA Surr, DBFM	% Rec			96	75 - 134	458
VOA Surr, DBFM	% Rec			96	75 - 134	2058
VOA Surr, DBFM	% Rec			100	75 - 134	3623
VOA Surr, DBFM	% Rec			99	75 - 134	3736

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INS.

Page: 6

Laboratory Receipt Date: 12/ 7/04

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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****VOA PARAMETERS****

Acetone	< 0.00810	mg/l	458	12/ 7/04	18:06
Benzene	< 0.0003	mg/l	458	12/ 7/04	18:06
Bromobenzene	< 0.00020	mg/l	458	12/ 7/04	18:06
Bromochloromethane	< 0.00030	mg/l	458	12/ 7/04	18:06
Bromoform	< 0.00020	mg/l	458	12/ 7/04	18:06
Bromomethane	< 0.00030	mg/l	458	12/ 7/04	18:06
2-Butanone	< 0.00620	mg/l	458	12/ 7/04	18:06
n-Butylbenzene	< 0.00040	mg/l	458	12/ 7/04	18:06
sec-Butylbenzene	< 0.00030	mg/l	458	12/ 7/04	18:06
tert-Butylbenzene	< 0.00030	mg/l	458	12/ 7/04	18:06
Carbon disulfide	< 0.00030	mg/l	458	12/ 7/04	18:06
Carbon tetrachloride	< 0.00030	mg/l	458	12/ 7/04	18:06
Chlorobenzene	< 0.00020	mg/l	458	12/ 7/04	18:06
Chloroethane	< 0.00080	mg/l	458	12/ 7/04	18:06
Chloroform	< 0.00030	mg/l	458	12/ 7/04	18:06
Chloromethane	0.00160	mg/l	458	12/ 7/04	18:06
Chloromethane	< 0.00060	mg/l	2058	12/ 8/04	14:58
2-Chlorotoluene	< 0.00040	mg/l	458	12/ 7/04	18:06
4-Chlorotoluene	< 0.00020	mg/l	458	12/ 7/04	18:06

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INS.

Page: 7

Laboratory Receipt Date: 12/ 7/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	458	12/ 7/04	18:06
Dibromochloromethane	< 0.00060	mg/l	458	12/ 7/04	18:06
1,2-Dibromoethane	< 0.00040	mg/l	458	12/ 7/04	18:06
Dibromomethane	< 0.00050	mg/l	458	12/ 7/04	18:06
1,2-Dichlorobenzene	< 0.00040	mg/l	458	12/ 7/04	18:06
1,3-Dichlorobenzene	< 0.00030	mg/l	458	12/ 7/04	18:06
1,4-Dichlorobenzene	< 0.00040	mg/l	458	12/ 7/04	18:06
Dichlorodifluoromethane	< 0.00050	mg/l	458	12/ 7/04	18:06
1,1-Dichloroethane	< 0.00030	mg/l	458	12/ 7/04	18:06
1,2-Dichloroethane	< 0.00040	mg/l	458	12/ 7/04	18:06
1,1-Dichloroethene	< 0.00030	mg/l	458	12/ 7/04	18:06
cis-1,2-Dichloroethene	< 0.00060	mg/l	458	12/ 7/04	18:06
cis-1,2-Dichloroethene	< 0.00060	mg/l	3623	12/ 9/04	9:26
cis-1,2-Dichloroethene	< 0.00060	mg/l	3736	12/ 9/04	21:47
trans-1,2-Dichloroethene	< 0.00040	mg/l	458	12/ 7/04	18:06
1,2-Dichloropropane	< 0.00030	mg/l	458	12/ 7/04	18:06
1,3-Dichloropropane	< 0.00020	mg/l	458	12/ 7/04	18:06
2,2-Dichloropropane	< 0.00040	mg/l	458	12/ 7/04	18:06
1,1-Dichloropropene	< 0.00040	mg/l	458	12/ 7/04	18:06
cis-1,3-Dichloropropene	< 0.00050	mg/l	458	12/ 7/04	18:06
trans-1,3-Dichloropropene	< 0.00060	mg/l	458	12/ 7/04	18:06
Ethylbenzene	< 0.0002	mg/l	458	12/ 7/04	18:06
Hexachlorobutadiene	< 0.00080	mg/l	458	12/ 7/04	18:06
2-Hexanone	< 0.00280	mg/l	458	12/ 7/04	18:06
Isopropylbenzene	< 0.00030	mg/l	458	12/ 7/04	18:06
p-Isopropyltoluene	< 0.00040	mg/l	458	12/ 7/04	18:06
4-Methyl-2-pentanone	< 0.00230	mg/l	458	12/ 7/04	18:06
Methylene chloride	< 0.00190	mg/l	458	12/ 7/04	18:06
Naphthalene	< 0.00120	mg/l	458	12/ 7/04	18:06
n-Propylbenzene	< 0.00020	mg/l	458	12/ 7/04	18:06
Styrene	< 0.00040	mg/l	458	12/ 7/04	18:06

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.11
 Project Name: ABB-FORMER TAYLOR INS.
 Page: 8
 Laboratory Receipt Date: 12/ 7/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	458	12/ 7/04	18:06
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	458	12/ 7/04	18:06
Tetrachloroethene	< 0.00050	mg/l	458	12/ 7/04	18:06
Toluene	< 0.0002	mg/l	458	12/ 7/04	18:06
1,2,3-Trichlorobenzene	< 0.00060	mg/l	458	12/ 7/04	18:06
1,2,4-Trichlorobenzene	< 0.00060	mg/l	458	12/ 7/04	18:06
1,1,1-Trichloroethane	< 0.00030	mg/l	458	12/ 7/04	18:06
1,1,2-Trichloroethane	< 0.00050	mg/l	458	12/ 7/04	18:06
Trichloroethene	< 0.00030	mg/l	458	12/ 7/04	18:06
Trichloroethene	< 0.00030	mg/l	2058	12/ 8/04	14:58
Trichloroethene	< 0.00030	mg/l	3623	12/ 9/04	9:26
Trichloroethene	< 0.00030	mg/l	3736	12/ 9/04	21:47
1,2,3-Trichloropropane	< 0.00070	mg/l	458	12/ 7/04	18:06
1,2,4-Trimethylbenzene	< 0.0004	mg/l	458	12/ 7/04	18:06
1,3,5-Trimethylbenzene	< 0.00020	mg/l	458	12/ 7/04	18:06
Vinyl chloride	< 0.00060	mg/l	458	12/ 7/04	18:06
Xylenes (Total)	< 0.0006	mg/l	458	12/ 7/04	18:06
Bromodichloromethane	< 0.00090	mg/l	458	12/ 7/04	18:06
Trichlorofluoromethane	< 0.00040	mg/l	458	12/ 7/04	18:06
VOA Surr 1,2-DCA-d4	91.	% Rec	458	12/ 7/04	18:06
VOA Surr 1,2-DCA-d4	95.	% Rec	2058	12/ 8/04	14:58
VOA Surr 1,2-DCA-d4	93.	% Rec	3623	12/ 9/04	9:26
VOA Surr 1,2-DCA-d4	98.	% Rec	3736	12/ 9/04	21:47
VOA Surr Toluene-d8	103.	% Rec	458	12/ 7/04	18:06
VOA Surr Toluene-d8	102.	% Rec	2058	12/ 8/04	14:58
VOA Surr Toluene-d8	103.	% Rec	3623	12/ 9/04	9:26
VOA Surr Toluene-d8	100.	% Rec	3736	12/ 9/04	21:47
VOA Surr, 4-BFB	93.	% Rec	458	12/ 7/04	18:06
VOA Surr, 4-BFB	92.	% Rec	2058	12/ 8/04	14:58
VOA Surr, 4-BFB	92.	% Rec	3623	12/ 9/04	9:26
VOA Surr, 4-BFB	90.	% Rec	3736	12/ 9/04	21:47

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INS.

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Laboratory Receipt Date: 12/ 7/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, DBFM	96.	% Rec	458	12/ 7/04	18:06
VOA Surr, DBFM	99.	% Rec	2058	12/ 8/04	14:58
VOA Surr, DBFM	97.	% Rec	3623	12/ 9/04	9:26
VOA Surr, DBFM	101.	% Rec	3736	12/ 9/04	21:47

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 399141

12/11/04

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: ABB-FORMER TAYLOR INSTRU
Project Number: 51870.11.
Laboratory Project Number: 399091.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
BR-09	04-A190410	12/ 5/04
OB-08	04-A190411	12/ 6/04
BR-11	04-A190412	12/ 6/04
BR-06	04-A190413	12/ 6/04

Sample Identification	Lab Number	Page 2
-----	-----	Collection Date

These results relate only to the items tested.
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Report Approved By: Roxanne L. Connor Report Date: 12/11/04

Johnny A. Mitchell, Lab Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 11342

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ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190410
Sample ID: BR-09
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 5/04
Time Collected: 15:12
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	18:08	S. Udeze	8260B	935
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190410
Sample ID: BR-09
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**cis-1,2-Dichloroethene	0.00670	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	18:08	S. Udeze	8260B	935
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Trichloroethene	0.0164	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	18:08	S. Udeze	8260B	935
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	18:08	S. Udeze	8260B	935
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190410
Sample ID: BR-09
Project: 51870.11
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	18:08	S. Udeze	8260B	935

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	78.	73. - 127.
VOA Surr Toluene-d8	104.	79. - 113.
VOA Surr, 4-BFB	103.	79. - 125.
VOA Surr, DBFM	91.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190411
 Sample ID: OB-08
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INSTRU
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 6/04
 Time Collected: 8:57
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	18:38	S. Udeze	8260B	935
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190411
Sample ID: OB-08
Project: 51870.11
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**cis-1,2-Dichloroethene	0.00580	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	18:38	S. Udeze	8260B	935
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Trichloroethene	0.429	mg/l	0.0100	10	12/ 9/04	16:43	S. Udeze	8260B	3790
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	18:38	S. Udeze	8260B	935
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	18:38	S. Udeze	8260B	935
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190411
 Sample ID: OB-08
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	18:38	S. Udeze	8260B	935

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	79.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	103.	79. - 125.
VOA Surr, DBFM	87.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
JOE DEATHERAGE
1431 CENTERPOINT BLVD, STE.150
KNOXVILLE, TN 37932-1968

Lab Number: 04-A190412
Sample ID: BR-11
Sample Type: Ground water
Site ID:

Project: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Sampler: JOE DEATHERAGE

Date Collected: 12/ 6/04
Time Collected: 10:10
Date Received: 12/ 7/04
Time Received: 8:15
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	19:07	S. Udeze	8260B	935
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190412
 Sample ID: BR-11
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**cis-1,2-Dichloroethene	0.190	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**trans-1,2-Dichloroethene	0.0330	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	19:07	S. Udeze	8260B	935
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 9/04	12:15	S. Udeze	8260B	3790
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Trichloroethene	0.00270	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	19:07	S. Udeze	8260B	935
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Vinyl chloride	0.0151	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	19:07	S. Udeze	8260B	935
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190412
 Sample ID: BR-11
 Project: 51870.11
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	19:07	S. Udeze	8260B	935

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	78.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	102.	79. - 125.
VOA Surr, DBFM	91.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.
 ** = NELAC E87358 Certified Analyte

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 JOE DEATHERAGE
 1431 CENTERPOINT BLVD, STE.150
 KNOXVILLE, TN 37932-1968

Lab Number: 04-A190413
 Sample ID: BR-06
 Sample Type: Ground water
 Site ID:

Project: 51870.11
 Project Name: ABB-FORMER TAYLOR INSTRU
 Sampler: JOE DEATHERAGE

Date Collected: 12/ 6/04
 Time Collected: 11:17
 Date Received: 12/ 7/04
 Time Received: 8:15
 Page: 1

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit		Factor	Date			
VOLATILE ORGANICS									
**Acetone	ND	mg/l	0.0250	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Benzene	ND	mg/l	0.0010	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Bromobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Bromoform	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Bromomethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**2-Butanone	ND	mg/l	0.0250	1	12/ 8/04	21:43	S. Udeze	8260B	935
**n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**tert-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Chloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Chloroform	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Chloromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Dibromomethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190413
 Sample ID: BR-06
 Project: 51870.11
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
**1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**cis-1,2-Dichloroethene	0.00260	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**2-Hexanone	ND	mg/l	0.00500	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**p-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Methylene chloride	ND	mg/l	0.00250	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Naphthalene	ND	mg/l	0.00500	1	12/ 8/04	21:43	S. Udeze	8260B	935
**n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Styrene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Toluene	ND	mg/l	0.0010	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Trichloroethene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/04	21:43	S. Udeze	8260B	935
**1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/04	21:43	S. Udeze	8260B	935
**Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A190413

Sample ID: BR-06

Project: 51870.11

Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit		Date	Time			
**Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/04	21:43	S. Udeze	8260B	935

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	75.	73. - 127.
VOA Surr Toluene-d8	104.	79. - 113.
VOA Surr, 4-BFB	107.	79. - 125.
VOA Surr, DBFM	89.	75. - 134.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Page: 1
Laboratory Receipt Date: 12/ 7/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0475	0.0500	95	62 - 146	935	04-A190410
Chlorobenzene	mg/l	< 0.00100	0.0494	0.0500	99	68 - 139	935	04-A190410
1,1-Dichloroethene	mg/l	< 0.00100	0.0406	0.0500	81	58 - 152	935	04-A190410
Toluene	mg/l	< 0.0010	0.0500	0.0500	100	68 - 141	935	04-A190410
Trichloroethene	mg/l	0.0164	0.0636	0.0500	94	61 - 161	935	04-A190410
Trichloroethene	mg/l	< 0.00100	0.0474	0.0500	95	61 - 161	3790	04-A189894
Tetrachloroethene	mg/l	< 0.00100	0.0491	0.0500	98	62 - 151	935	04-A190410
Tetrachloroethene	mg/l	< 0.00100	0.0492	0.0500	98	62 - 151	3790	04-A189894
VOA Surr 1,2-DCA-d4	% Rec				78	73 - 127	935	
VOA Surr 1,2-DCA-d4	% Rec				78	73 - 127	3790	
VOA Surr Toluene-d8	% Rec				104	79 - 113	935	
VOA Surr Toluene-d8	% Rec				102	79 - 113	3790	
VOA Surr, 4-BFB	% Rec				101	79 - 125	935	
VOA Surr, 4-BFB	% Rec				101	79 - 125	3790	
VOA Surr, DBFM	% Rec				90	75 - 134	935	
VOA Surr, DBFM	% Rec				91	75 - 134	3790	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Page: 2
Laboratory Receipt Date: 12/ 7/04

VOA PARAMETERS

Benzene	mg/l	0.0475	0.0491	3.31	25.	935
Chlorobenzene	mg/l	0.0494	0.0518	4.74	23.	935
1,1-Dichloroethene	mg/l	0.0406	0.0420	3.39	26.	935
Toluene	mg/l	0.0500	0.0522	4.31	29.	935
Trichloroethene	mg/l	0.0636	0.0651	2.33	26.	935
Trichloroethene	mg/l	0.0474	0.0493	3.93	26.	3790
Tetrachloroethene	mg/l	0.0491	0.0516	4.97	27.	935
Tetrachloroethene	mg/l	0.0492	0.0506	2.81	27.	3790
VOA Surr 1,2-DCA-d4	% Rec		78.			935
VOA Surr 1,2-DCA-d4	% Rec		77.			3790
VOA Surr Toluene-d8	% Rec		104.			935
VOA Surr Toluene-d8	% Rec		104.			3790
VOA Surr, 4-BFB	% Rec		102.			935
VOA Surr, 4-BFB	% Rec		102.			3790
VOA Surr, DBFM	% Rec		90.			935
VOA Surr, DBFM	% Rec		92.			3790

Laboratory Control Data

Analyte	units	Known Val.	Analyzed val	% Recovery	Target Range	Q.C. Batch
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VOA PARAMETERS						
Acetone	mg/l	0.250	0.145	58	55 - 146	935
Benzene	mg/l	0.0500	0.0471	94	76 - 127	935
Bromobenzene	mg/l	0.0500	0.0510	102	73 - 125	935
Bromochloromethane	mg/l	0.0500	0.0505	101	71 - 137	935
Bromoform	mg/l	0.0500	0.0417	83	56 - 127	935
Bromomethane	mg/l	0.0500	0.0372	74	50 - 166	935
2-Butanone	mg/l	0.250	0.203	81	63 - 138	935
n-Butylbenzene	mg/l	0.0500	0.0489	98	66 - 139	935
sec-Butylbenzene	mg/l	0.0500	0.0524	105	71 - 136	935
tert-Butylbenzene	mg/l	0.0500	0.0499	100	71 - 135	935

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INSTRU

Page: 3

Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Carbon disulfide	mg/l	0.0500	0.0377	75	72 - 138	935
Carbon tetrachloride	mg/l	0.0500	0.0396	79	69 - 138	935
Chlorobenzene	mg/l	0.0500	0.0496	99	81 - 123	935
Chloroethane	mg/l	0.0500	0.0417	83	56 - 155	935
Chloroform	mg/l	0.0500	0.0431	86	73 - 128	935
Chloromethane	mg/l	0.0500	0.0392	78	36 - 157	935
2-Chlorotoluene	mg/l	0.0500	0.0488	98	74 - 131	935
4-Chlorotoluene	mg/l	0.0500	0.0486	97	76 - 130	935
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0415	83	53 - 138	935
Dibromochloromethane	mg/l	0.0500	0.0498	100	71 - 128	935
1,2-Dibromoethane	mg/l	0.0500	0.0524	105	71 - 134	935
Dibromomethane	mg/l	0.0500	0.0484	97	72 - 134	935
1,2-Dichlorobenzene	mg/l	0.0500	0.0486	97	80 - 128	935
1,3-Dichlorobenzene	mg/l	0.0500	0.0497	99	80 - 126	935
1,4-Dichlorobenzene	mg/l	0.0500	0.0471	94	79 - 124	935
Dichlorodifluoromethane	mg/l	0.0500	0.0422	84	35 - 160	935
1,1-Dichloroethane	mg/l	0.0500	0.0454	91	74 - 131	935
1,2-Dichloroethane	mg/l	0.0500	0.0414	83	72 - 129	935
1,1-Dichloroethene	mg/l	0.0500	0.0385	77	73 - 137	935
cis-1,2-Dichloroethene	mg/l	0.0500	0.0440	88	67 - 137	935
trans-1,2-Dichloroethene	mg/l	0.0500	0.0444	89	70 - 138	935
1,2-Dichloropropane	mg/l	0.0500	0.0491	98	78 - 131	935
1,3-Dichloropropane	mg/l	0.0500	0.0517	103	77 - 127	935
2,2-Dichloropropane	mg/l	0.0500	0.0216	43	43 - 146	935
1,1-Dichloropropene	mg/l	0.0500	0.0467	93	75 - 132	935
cis-1,3-Dichloropropene	mg/l	0.0500	0.0534	107	62 - 135	935
trans-1,3-Dichloropropene	mg/l	0.0500	0.0390	78	58 - 130	935
Ethylbenzene	mg/l	0.0500	0.0502	100	80 - 124	935
Hexachlorobutadiene	mg/l	0.0500	0.0451	90	63 - 140	935
2-Hexanone	mg/l	0.250	0.234	94	66 - 138	935
Isopropylbenzene	mg/l	0.0500	0.0508	102	67 - 137	935

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INSTRU

Page: 4

Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
p-Isopropyltoluene	mg/l	0.0500	0.0505	101	74 - 133	935
4-Methyl-2-pentanone	mg/l	0.250	0.259	104	68 - 139	935
Methylene chloride	mg/l	0.0500	0.0480	96	71 - 138	935
Naphthalene	mg/l	0.0500	0.0454	91	61 - 143	935
n-Propylbenzene	mg/l	0.0500	0.0521	104	70 - 136	935
Styrene	mg/l	0.0500	0.0536	107	81 - 130	935
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0508	102	82 - 128	935
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0537	107	62 - 134	935
Tetrachloroethene	mg/l	0.0500	0.0461	92	78 - 131	935
Tetrachloroethene	mg/l	0.0500	0.0484	97	78 - 131	3790
Toluene	mg/l	0.0500	0.0501	100	79 - 124	935
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0476	95	68 - 136	935
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0474	95	65 - 138	935
1,1,1-Trichloroethane	mg/l	0.0500	0.0424	85	73 - 131	935
1,1,2-Trichloroethane	mg/l	0.0500	0.0517	103	79 - 126	935
Trichloroethene	mg/l	0.0500	0.0456	91	76 - 140	935
Trichloroethene	mg/l	0.0500	0.0501	100	76 - 140	3790
1,2,3-Trichloropropane	mg/l	0.0500	0.0485	97	57 - 136	935
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0506	101	74 - 131	935
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0521	104	78 - 129	935
Vinyl chloride	mg/l	0.0500	0.0404	81	51 - 150	935
Xylenes (Total)	mg/l	0.150	0.145	97	80 - 125	935
Bromodichloromethane	mg/l	0.0500	0.0448	90	76 - 134	935
Trichlorofluoromethane	mg/l	0.0500	0.0404	81	55 - 150	935
VOA Surr 1,2-DCA-d4	% Rec			77	73 - 127	935
VOA Surr 1,2-DCA-d4	% Rec			78	73 - 127	3790
VOA Surr Toluene-d8	% Rec			105	79 - 113	935
VOA Surr Toluene-d8	% Rec			104	79 - 113	3790
VOA Surr, 4-BFB	% Rec			101	79 - 125	935
VOA Surr, 4-BFB	% Rec			103	79 - 125	3790
VOA Surr, DBFM	% Rec			91	75 - 134	935

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Page: 5
Laboratory Receipt Date: 12/ 7/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, DBFM	% Rec			91	75 - 134	3790

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
---------	-------	------------	-----------	-----	-------	------------	--------------

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

****VOA PARAMETERS****

Acetone	< 0.00810	mg/l	935	12/ 8/04	10:46
Benzene	< 0.0003	mg/l	935	12/ 8/04	10:46
Bromobenzene	< 0.00020	mg/l	935	12/ 8/04	10:46
Bromochloromethane	< 0.00030	mg/l	935	12/ 8/04	10:46
Bromoform	< 0.00020	mg/l	935	12/ 8/04	10:46
Bromomethane	< 0.00030	mg/l	935	12/ 8/04	10:46
2-Butanone	< 0.00620	mg/l	935	12/ 8/04	10:46
n-Butylbenzene	< 0.00040	mg/l	935	12/ 8/04	10:46
sec-Butylbenzene	< 0.00030	mg/l	935	12/ 8/04	10:46
tert-Butylbenzene	< 0.00030	mg/l	935	12/ 8/04	10:46
Carbon disulfide	< 0.00030	mg/l	935	12/ 8/04	10:46
Carbon tetrachloride	< 0.00030	mg/l	935	12/ 8/04	10:46
Chlorobenzene	< 0.00020	mg/l	935	12/ 8/04	10:46

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.11

Project Name: ABB-FORMER TAYLOR INSTRU

Page: 6

Laboratory Receipt Date: 12/ 7/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloroethane	< 0.00080	mg/l	935	12/ 8/04	10:46
Chloroform	< 0.00030	mg/l	935	12/ 8/04	10:46
Chloromethane	< 0.00060	mg/l	935	12/ 8/04	10:46
2-Chlorotoluene	< 0.00040	mg/l	935	12/ 8/04	10:46
4-Chlorotoluene	< 0.00020	mg/l	935	12/ 8/04	10:46
1,2-Dibromo-3-chloropropane	< 0.00180	mg/l	935	12/ 8/04	10:46
Dibromochloromethane	< 0.00060	mg/l	935	12/ 8/04	10:46
1,2-Dibromoethane	< 0.00040	mg/l	935	12/ 8/04	10:46
Dibromomethane	< 0.00050	mg/l	935	12/ 8/04	10:46
1,2-Dichlorobenzene	< 0.00040	mg/l	935	12/ 8/04	10:46
1,3-Dichlorobenzene	< 0.00030	mg/l	935	12/ 8/04	10:46
1,4-Dichlorobenzene	< 0.00040	mg/l	935	12/ 8/04	10:46
Dichlorodifluoromethane	< 0.00050	mg/l	935	12/ 8/04	10:46
1,1-Dichloroethane	< 0.00030	mg/l	935	12/ 8/04	10:46
1,2-Dichloroethane	< 0.00040	mg/l	935	12/ 8/04	10:46
1,1-Dichloroethene	< 0.00030	mg/l	935	12/ 8/04	10:46
cis-1,2-Dichloroethene	< 0.00060	mg/l	935	12/ 8/04	10:46
trans-1,2-Dichloroethene	< 0.00040	mg/l	935	12/ 8/04	10:46
1,2-Dichloropropane	< 0.00030	mg/l	935	12/ 8/04	10:46
1,3-Dichloropropane	< 0.00020	mg/l	935	12/ 8/04	10:46
2,2-Dichloropropane	< 0.00040	mg/l	935	12/ 8/04	10:46
1,1-Dichloropropene	< 0.00040	mg/l	935	12/ 8/04	10:46
cis-1,3-Dichloropropene	< 0.00050	mg/l	935	12/ 8/04	10:46
trans-1,3-Dichloropropene	< 0.00060	mg/l	935	12/ 8/04	10:46
Ethylbenzene	< 0.0002	mg/l	935	12/ 8/04	10:46
Hexachlorobutadiene	< 0.00080	mg/l	935	12/ 8/04	10:46
2-Hexanone	< 0.00280	mg/l	935	12/ 8/04	10:46
Isopropylbenzene	< 0.00030	mg/l	935	12/ 8/04	10:46
p-Isopropyltoluene	< 0.00040	mg/l	935	12/ 8/04	10:46
4-Methyl-2-pentanone	< 0.00230	mg/l	935	12/ 8/04	10:46
Methylene chloride	< 0.00190	mg/l	935	12/ 8/04	10:46

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Page: 7
Laboratory Receipt Date: 12/ 7/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	935	12/ 8/04	10:46
n-Propylbenzene	< 0.00020	mg/l	935	12/ 8/04	10:46
Styrene	< 0.00040	mg/l	935	12/ 8/04	10:46
1,1,1,2-Tetrachloroethane	< 0.00050	mg/l	935	12/ 8/04	10:46
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	935	12/ 8/04	10:46
Tetrachloroethene	< 0.00050	mg/l	935	12/ 8/04	10:46
Tetrachloroethene	< 0.00050	mg/l	3790	12/ 9/04	10:36
Toluene	< 0.0002	mg/l	935	12/ 8/04	10:46
1,2,3-Trichlorobenzene	< 0.00060	mg/l	935	12/ 8/04	10:46
1,2,4-Trichlorobenzene	< 0.00060	mg/l	935	12/ 8/04	10:46
1,1,1-Trichloroethane	< 0.00030	mg/l	935	12/ 8/04	10:46
1,1,2-Trichloroethane	< 0.00050	mg/l	935	12/ 8/04	10:46
Trichloroethene	< 0.00030	mg/l	935	12/ 8/04	10:46
Trichloroethene	< 0.00030	mg/l	3790	12/ 9/04	10:36
1,2,3-Trichloropropane	< 0.00070	mg/l	935	12/ 8/04	10:46
1,2,4-Trimethylbenzene	< 0.0004	mg/l	935	12/ 8/04	10:46
1,3,5-Trimethylbenzene	< 0.00020	mg/l	935	12/ 8/04	10:46
Vinyl chloride	< 0.00060	mg/l	935	12/ 8/04	10:46
Xylenes (Total)	< 0.0006	mg/l	935	12/ 8/04	10:46
Bromodichloromethane	< 0.00090	mg/l	935	12/ 8/04	10:46
Trichlorofluoromethane	< 0.00040	mg/l	935	12/ 8/04	10:46
VOA Surr 1,2-DCA-d4	76.	% Rec	935	12/ 8/04	10:46
VOA Surr 1,2-DCA-d4	77.	% Rec	3790	12/ 9/04	10:36
VOA Surr Toluene-d8	103.	% Rec	935	12/ 8/04	10:46
VOA Surr Toluene-d8	102.	% Rec	3790	12/ 9/04	10:36
VOA Surr, 4-BFB	101.	% Rec	935	12/ 8/04	10:46
VOA Surr, 4-BFB	101.	% Rec	3790	12/ 9/04	10:36
VOA Surr, DBFM	89.	% Rec	935	12/ 8/04	10:46
VOA Surr, DBFM	90.	% Rec	3790	12/ 9/04	10:36

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.11
Project Name: ABB-FORMER TAYLOR INSTRU
Page: 8
Laboratory Receipt Date: 12/ 7/04

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 399091

APPENDIX C

CHAIN-OF-CUSTODY FORMS

Test America

ANALYTICAL TESTING CORPORATION

Nashville Division Phone: 615-726-0177
 2960 Foster Creighton Fax: 615-726-3404
 Nashville, TN 37204

To assist us in using the proper analytical methods,
 is this work being conducted for regulatory purposes?
 Compliance Monitoring _____

Client Name MACTEC ENGINEERING AND CONSULT Client #: 4997

Address: 1431 CENTERPOINT BLVD, STE 150

City/Zip Code: KNOXVILLE TN 37932-1968

Contact Manager: Joe Deatherage

Telephone Number: 8655311922 Fax: 615655318226

Sampler Name: (Print Name) Joe Deatherage

Sampler Signature: Joe Deatherage

Project Name: ABB- Former Taylor Instruments

Project #: 51870.11

Site/Location ID: Rochester State: NY

Report To: Joe Deatherage

Invoice To: Rick Ryan

Quote #: 121102-217-199 PO#: 15096 ; MEC03030352

398726

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										QC Deliverables <input checked="" type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____		
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	Vocs 8260	Nitrate 353.2	Sulfate 375.4	Sulfide 376.1	Ethene, ethene, methane 8015m	TUC 415.1	Chloride 335.1	Alkalinity 310.1	Iron GH/6010-Fe	CO ₂ 4500B	REMARKS			
			12-20-04	08:33	G		GW	9	1									3	1	1	1	3	2	1	1	1	2	188720
				08:48	G		GW	3										3										188722
				10:10	G		GW	9	1									3	1	1	1	3	2	1	1	1	2	188721
				11:25	G		GW	3										3										73
				13:50	G		GW	3										3										74
				15:00	G		GW	3										3										75
																		1										Trip Blank

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:
 Rec Lab Temp:

Custody Seals: Y N N/A
 Bottles Supplied by Test America: Y N

Relinquished By: <u>Joe Deatherage</u>	Date: <u>12-2-04</u>	Time: <u>16:30</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>12/3/04</u>	Time: <u>8:40</u>

Method of Shipment:

Test America

ANALYTICAL TESTING CORPORATION

Nashville Division Phone: 615-726-0177
 2960 Foster Creighton Fax: 615-726-3404
 Nashville, TN 37204

399091

Client Name WACTEC ENGINEERING AND CONSULT Client #: 4997

Address: 1431 CENTERPOINT BLVD, STE 150

City/State/Zip Code: KNOXVILLE TN 37932-1968

Project Manager: Joe Deatherage

Telephone Number: 8655311922 Fax: R. 18655318226

Sampler Name: (Print Name) Joe Deatherage

Sampler Signature: Joe Deatherage

To assist us in using the proper analytical methods,
 is this work being conducted for regulatory purposes?
 Compliance Monitoring _____

Project Name: ABB-Former Taylor Instruments

Project #: 51870.11

Site/Location ID: Rochester State: NY

Report To: Joe Deatherage

Invoice To: Rick Ryan

Quote #: 121102-217-199 PO#: 150918;MEC03030352

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: _____	Fax Results: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	QC Deliverables ____ None ____ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____		
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)			REMARKS	
			12-5-04	15-12	G		GW	3									190410	
			12-6-04	08-57	G		GW	3									11	
			↓	10-10	G		GW	3									12	
			↓	11-17	G		GW	3									13	
Special Instructions:													LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N N/A Bottles Supplied by Test America: Y N Method of Shipment:					
Relinquished By: <u>Joe Deatherage</u>	Date: <u>12-6-04</u>	Time: <u>10:00</u>	Received By:	Date:	Time:													
Relinquished By:	Date:	Time:	Received By:	Date:	Time:													
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>12/1/04</u>	Time: <u>8:15</u>													

APPENDIX D

FIELD DATA RECORDS

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 11-30-04

SITE ID TW-04

SITE TYPE Monitor Well

SITE ACTIVITY START END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 11.15 FT

WELL DEPTH 20.72 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 13.10 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN 1.95 FT

DRAWDOWN VOLUME 0.31 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.14 L/MIN

BEGIN PURGING 13:19

END PURGING 13:37

TOTAL VOL. PURGED 0.65 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
13:22	0.5	7.21	0.98	31.0	0 17.51	14.14	26	≈ 107 ml/min
13:25	1.0	7.23	0.98	40.0	3.62 7.49	14.13	28	≈ 107 ml/min
13:30	1.5	7.22	0.98	44.8	3.51 6.64	14.12	25	≈ 100 ml/min
13:34	2.0	7.22	0.98	53.2	3.88 5.93	14.12	26	≈ 125 ml/min
13:40		Collect sample TW-04 for 8200 and bio parameters						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
<input checked="" type="checkbox"/> PERISTALTIC	<input type="checkbox"/> TEFLON OR TEFLON LINED	<input type="checkbox"/> POLYVINYL CHLORIDE	<input type="checkbox"/> TEFLON
<input type="checkbox"/> SUBMERSIBLE	<input checked="" type="checkbox"/> HIGH DENSITY POLYETHYLENE	<input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> OTHER _____
<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER _____	

PURGE OBSERVATIONS

NOTES

SIGNATURE: Joe Deather

13:25 DTW = 11.97'
 13:30 DTW = 12.40'
 13:34 DTW = 12.71'

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-1-04

SITE ID OB-09

SITE TYPE Monitor Well

SITE ACTIVITY START 12:57 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 11.52/11.92 FT

WELL DEPTH 233 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER 12.25 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.33 FT

DRAWDOWN VOLUME 0.55 GAL

PRODUCT THICKNESS FT

WELL INTEGRITY: CASING LOCKED COLLAR YES NO N/A

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.12 L/MIN

BEGIN PURGING 13:04

END PURGING 13:51

TOTAL VOL PURGED 1.47 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
13:12	0.43	7.31	0.822	4.5	0	12.01	40	≈ 116 ml/min
13:17	1.55	7.31	0.825	1.4	0	12.76	33	≈ 123 ml/min
13:22	2.11	7.30	0.831	3.2	0	13.24	22	≈ 111 ml/min
13:27	2.66	7.31	0.832	1.4	0	13.07	21	≈ 111 ml/min
13:30		Collect sample OB-09 for 8260 2 bio parameters.						

EQUIPMENT DOCUMENTATION

- | | | | |
|---|---|---|---|
| TYPE OF PUMP | TYPE OF TUBING | TYPE OF PUMP MATERIAL | TYPE OF BLADDER MATERIAL (if applicable) |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> TEFLON OR TEFLON LINED | <input type="checkbox"/> POLYVINYL CHLORIDE | <input type="checkbox"/> TEFLON |
| <input type="checkbox"/> SUBMERSIBLE | <input checked="" type="checkbox"/> HIGH DENSITY POLYETHYLENE | <input type="checkbox"/> STAINLESS STEEL | <input type="checkbox"/> OTHER |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | |

PURGE OBSERVATIONS

NOTES

13:17 DTW = 12.06
13:22 DTW = 12.15
13:27 DTW = 12.15

SIGNATURE: *[Signature]*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-1-04

SITE ID 0B-07

SITE TYPE Monitor Well

SITE ACTIVITY START 14:17 END 15:09

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 6.30 FT

WELL DEPTH 20.01 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER _____ IN

FINAL DEPTH TO WATER 6.83 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.53 FT

DRAWDOWN VOLUME 0.08 GAL

PRODUCT THICKNESS _____ FT

WELL INTEGRITY: CASING LOCKED COLLAR _____

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.14 L/MIN

BEGIN PURGING 14:25

END PURGING 15:09

TOTAL VOL PURGED 1.6 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
14:31	0.82	7.52	1.82	2.4	0	10.75	-17	≈ 136 ml/min
14:35	1.38	7.52	1.85	0.2	0	9.64	-21	≈ 142 ml/min
14:39	1.95	7.52	1.86	0.4	0	9.39	-25	≈ 142 ml/min
14:44	2.58	7.51	1.86	0.7	0	8.73	-29	≈ 125 ml/min
14:45	Collect sample 0B-07 for 8200 → BioParameters							
15:05	Collect sample 0B-07 (MS) for Matrix Spike							
15:07	Collect sample 0B-07 (MSD) for matrix spike duplicate.							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
 SUBMERSIBLE
 OTHER _____

TYPE OF TUBING

- TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 OTHER _____

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
 STAINLESS STEEL
 OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
 OTHER _____

PURGE OBSERVATIONS

NOTES

14:31 DTW = 6.60'
 14:35 DTW = 6.67'
 14:39 DTW = 6.70'
 14:44 DTW = 6.70'

SIGNATURE: *J. Peatthay*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-1-04

SITE ID W-6

SITE TYPE Monitor Well

SITE ACTIVITY START 09:26 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 3.95 FT

WELL DEPTH 11.30 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: YES NO N/A

DRAWDOWN FT

DRAWDOWN VOLUME GAL

PRODUCT THICKNESS FT

INTEGRITY: CAP _____
CASING _____
LOCKED _____
COLLAR _____

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.15 L/MIN

BEGIN PURGING 09:32

END PURGING 09:50

TOTAL VOL PURGED 0.70 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
09:40	1.14	9.31	1.23	4.4	3.04	12.81	133	~142ml/min
09:43	1.64	9.31	1.22	3.9	2.92	12.83	129	~167ml/min
09:47	2.15	9.32	1.22	9.3	3.40	12.67	128	~133ml/min
09:50	cannot minimize drawdown - pumped well dry							

EQUIPMENT DOCUMENTATION

- | | | | |
|---|---|---|--|
| TYPE OF PUMP | TYPE OF TUBING | TYPE OF PUMP MATERIAL | TYPE OF BLADDER MATERIAL (if applicable) |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> TEFLON OR TEFLON LINED | <input type="checkbox"/> POLYVINYL CHLORIDE | <input type="checkbox"/> TEFLON |
| <input type="checkbox"/> SUBMERSIBLE | <input checked="" type="checkbox"/> HIGH DENSITY POLYETHYLENE | <input type="checkbox"/> STAINLESS STEEL | <input type="checkbox"/> OTHER |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | |

PURGE OBSERVATIONS

Well dries at 09:50

NOTES

09:40 DTW = 5.14
09:43 DTW = 5.65
09:47 DTW = 6.46

SIGNATURE: Joe Deatherage

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-2-04

SITE ID W-5

SITE TYPE Monitor Well

SITE ACTIVITY START 07:57 END 08:50

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 7.70 FT

WELL DEPTH 21.80 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER _____ IN

FINAL DEPTH TO WATER 10.12 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 2.42 FT

DRAWDOWN VOLUME 0.39 GAL

PRODUCT THICKNESS _____ FT

INTEGRITY: CASING LOCKED COLLAR _____

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.12 L/MIN

BEGIN PURGING 08:03

END PURGING 08:50

TOTAL VOL. PURGED 1.47 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
08:10	1.05	7.25	0.98	66.4	0.17	13.05	-18	≈ 150 ml/min
08:15	1.70	7.26	0.98	16.8	0.50	13.07	-30	≈ 130 ml/min
08:19	2.14	7.23	0.98	25.4	0.78	13.04	-46	≈ 110 ml/min
08:24	2.70	7.22	0.98	36.4	0.70	12.99	-53	≈ 113 ml/min
08:29	3.30	7.20	0.98	43.6	0.75	13.31	-56	≈ 120 ml/min
08:35	Collect Sample w-5 for 8200 & bio parameters							
08:48	Collect Sample w-5 (dup) for 8200							

EQUIPMENT DOCUMENTATION

- | | | | |
|---|---|---|---|
| TYPE OF PUMP | TYPE OF TUBING | TYPE OF PUMP MATERIAL | TYPE OF BLADDER MATERIAL (if applicable) |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> TEFLON OR TEFLON LINED | <input type="checkbox"/> POLYVINYL CHLORIDE | <input type="checkbox"/> TEFLON |
| <input type="checkbox"/> SUBMERSIBLE | <input checked="" type="checkbox"/> HIGH DENSITY POLYETHYLENE | <input type="checkbox"/> STAINLESS STEEL | <input type="checkbox"/> OTHER _____ |
| <input type="checkbox"/> OTHER _____ | <input type="checkbox"/> OTHER _____ | <input type="checkbox"/> OTHER _____ | |

PURGE OBSERVATIONS

NOTES

08:10 DTW = 8.25
 08:15 DTW = 8.55
 08:19 DTW = 8.81
 08:24 DTW = 9.10
 = 9.20

SIGNATURE: Joe Deathero

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-2-04

SITE ID OB-06

SITE TYPE Monitor Well

SITE ACTIVITY START 10:51 END _____

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 4.43 FT

WELL DEPTH 16.45 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER _____ IN

FINAL DEPTH TO WATER 5.19 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP _____ YES NO N/A
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN 0.76 FT

DRAWDOWN VOLUME 0.12 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.14 L/MIN

BEGIN PURGING 10:55 11:03

END PURGING 11:27

TOTAL VOL PURGED 0.87 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:09	1.08	8.05	0.610	15.4	5.72 / 8.30	13.14	164	~180 ml/min
11:13	1.61	8.03	0.606	10.9	5.45 / 8.18	12.75	160	~133 ml/min
11:18	2.18	8.02	0.601	8.1	5.20 / 8.18	12.66	161	~115 ml/min
11:22	2.66	8.02	0.601	4.2	5.13 / 8.13	12.57	161	~120 ml/min
11:25		Collect	Sample	OB-06	for	8260		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE OTHER _____

TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE OTHER _____

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL OTHER _____

TYPE OF BLADDER MATERIAL (if applicable): TEFLON OTHER _____

PURGE OBSERVATIONS

NOTES

11:09 DTW = 4.76
 11:13 DTW = 4.92
 11:18 DTW = 5.06
 11:22 DTW = 5.15
 Final = 5.19

SIGNATURE: Joe Deatherage

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-3-04

SITE ID BR-03

SITE TYPE Monitor Well

SITE ACTIVITY START 08:59 END 09:15

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 11.13 FT

WELL DEPTH 42.20 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER _____ IN

FINAL DEPTH TO WATER 11.68 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.55 FT

DRAWDOWN VOLUME 0.10 GAL

PRODUCT THICKNESS _____ FT

CASING LOCKED _____

COLLAR _____

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.15 L/MIN

BEGIN PURGING 08:59

END PURGING 09:15

TOTAL VOL PURGED 0.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
08:59	0.9	8.89	0.99	45.0	0	11.40	-86	≈ 175 ml/min
09:02	1.4	8.87	0.99	34.1	0	12.26	-154	≈ 150 ml/min
09:06	2.0	8.87	0.99	40.9	0	11.18	-182	≈ 142 ml/min
09:10	2.6	8.86	0.99	34.5	0	12.30	-196	≈ 150 ml/min
09:12		Collect	sample	BR-03	for	8260		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

08:59 DTW = 11.25
 09:02 DTW = 11.41
 09:06 DTW = 11.53
 09:10 DTW = 11.63

SIGNATURE: *Joe Deatman*

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-3-04

SITE ID BA-01

SITE TYPE Monitor Well

SITE ACTIVITY START 12:36 END 13:11

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 17.45 FT

WELL DEPTH 38.60 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER 17.54 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.12 FT

DRAWDOWN VOLUME 0.08 GAL

PRODUCT THICKNESS FT

CASING LOCKED YES NO N/A

COLLAR YES NO N/A

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.17 L/MIN

BEGIN PURGING 12:41

END PURGING 13:11

TOTAL VOL PURGED 1.34 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
12:47	1.2	7.13	0.811	39.1	0	12.58	-101	~298 ml/min
12:50	1.7	7.12	0.821	34.8	0	12.58	-107	~178 ml/min
12:53	2.2	7.11	0.827	37.7	0	12.35	-109	~167 ml/min
12:57	2.8	7.11	0.832	44.2	0	12.21	-110	~155 ml/min
13:01	3.4	7.10	0.834	48.4	0	12.22	-107	~150 ml/min
13:06	4.2	7.09	0.837	60.3	0	12.17	-106	~150 ml/min
13:10								collect sample BA-01 for 8260

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

12:47 DTW = 17.49
 12:50 DTW = 17.51
 12:53 DTW = 17.53
 12:57 DTW = 17.54
 13:01 DTW = 17.54
 13:06 DTW = 17.54

SIGNATURE: Joe Deatherage

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-3-04

SITE ID BR-02

SITE TYPE Monitor Well

SITE ACTIVITY START 13:49 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 22.38 FT

WELL DEPTH 42.75 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER 22.43 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN 0.05 FT

DRAWDOWN VOLUME 0.03 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 13:55

END PURGING 14:34

TOTAL VOL PURGED 0.81 GAL
 (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
14:07	1.1	7.19	0.940	60.9	0	10.01	-35	≈ 92 ml/min
14:11	1.7	7.18	0.941	52.1	0	10.86	-46	≈ 83 ml/min
14:20	2.2	7.17	0.938	41.4	0	10.44	-52	≈ 83 ml/min
14:28	2.8	7.17	0.938	50.9	0	10.42	-56	≈ 75 ml/min
14:30		Collect Sample BR-02 for VOCs & 260						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

14:07 DTW = 22.38
 14:11 DTW = 22.42
 14:20 DTW = 22.42
 14:28 DTW = 22.43
 14:34 DTW = 22.43

SIGNATURE: *[Signature]*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-1-04

SITE ID BR-07

SITE TYPE Monitor Well

SITE ACTIVITY START 08:25 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 23.56 FT

WELL DEPTH 53.3 FT

PID AMBIENT AIR PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 23.56 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0 FT

DRAWDOWN VOLUME 0 GAL

PRODUCT THICKNESS FT

CASING LOCKED COLLAR

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.12 L/MIN

BEGIN PURGING 08:31

END PURGING 09:07

TOTAL VOL PURGED 1.12 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
08:38	0.2	7.51	4.08	6.0	0	11.60	-247	≈ 102 ml/min
08:43	1.4	7.47	4.09	5.4	0	11.66	-257	≈ 109 ml/min
08:49	2.0	7.46	4.09	4.6	0	11.46	-267	≈ 96 ml/min
08:54	2.6	7.47	4.09	4.4	0	11.60	-271	≈ 111 ml/min
08:59	3.2	7.43	4.08	4.5	0	11.79	-272	≈ 111 ml/min
09:02		Collect sample BR-07 for 8200						
09:05		Collect sample BR-07 (dup) for 8200						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

08:38 DTW = 23.56
 08:43 DTW = 23.56
 08:49 DTW = 23.56
 08:54 DTW = 23.56

SIGNATURE: DePeters

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-4-04

SITE ID BR-15

SITE TYPE Monitor Well

SITE ACTIVITY START 13:23 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 20.842 FT

WELL DEPTH 77.45 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 20.76 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP _____ YES NO N/A
CASING _____
LOCKED _____
COLLAR _____

DRAWDOWN 0.34 FT

DRAWDOWN VOLUME 0.51 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.10 L/MIN

BEGIN PURGING 13:27

END PURGING 14:14

TOTAL VOL PURGED 1.2 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Archie Downwell

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
13:35	1.1	11.09	0.722	14.7	0	13.32	-89	~142 ml/min
13:40	1.7	11.77	0.725	10.7	0	13.15	-81	~111 ml/min
13:46	2.3	11.81	0.728	4.8	0	12.83	-84	~95 ml/min
13:53	2.9	11.80	0.728	2.3	0	12.53	-83	~80 ml/min
14:00	3.5	11.81	0.727	4.3	0	12.46	-81	~80 ml/min
14:07	4.0	11.80	0.726	2.9	0	12.37	-79	~74 ml/min
14:10		Collect	sample	BR-15 for	8200			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

13:35 DTW = 20.50
 13:40 DTW = 20.56
 13:46 DTW = 20.62
 13:53 DTW = 20.65
 14:07 DTW = 20.68
 Final = 20.76

SIGNATURE: *Jacob...*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-4-04

SITE ID BR-10

SITE TYPE Monitor Well

SITE ACTIVITY START 4:38 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 19.25 FT

WELL DEPTH 20.25 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 19.25 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN 0 FT

DRAWDOWN VOLUME 0 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.13 L/MIN

BEGIN PURGING 14:43

END PURGING 15:22

TOTAL VOL PURGED 1.35 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
14:51	0.9	7.60	0.669	36.3	0	12.53	-212	≈ 117 ml/min
14:57	1.6	7.58	0.686	39.7	0	12.54	-209	≈ 115 ml/min
15:03	2.2	7.56	0.699	42.2	0	12.38	-204	≈ 95 ml/min
15:10	2.9	7.55	0.708	19.2	0	12.16	-201	≈ 95 ml/min
15:15	3.4	7.54	0.711	19.8	0	12.25	-196	≈ 95 ml/min
15:18								Collect sample BR-10 for 8260

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

14:51 DTW = 19.25
 15:03 DTW = 19.25
 15:10 DTW = 19.25
 15:15 DTW = 19.25

SIGNATURE: 

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-5-04

SITE ID OB-04

SITE TYPE Monitor Well

SITE ACTIVITY START 08:20 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 4.09 FT

WELL DEPTH 16.45 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 4.40 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN 0.31 FT

DRAWDOWN VOLUME 0.05 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.14 L/MIN

BEGIN PURGING 08:22

END PURGING ~~08:29~~

TOTAL VOL PURGED 1.35 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
08:28	0.9	7.93	0.402	9.8	5.78 8.93	12.82	61	≈ 1.54 ml/min
08:33	1.5	7.93	0.403	11.1	5.43 8.59	12.80	45	≈ 1.25 ml/min
08:37	2.1	7.94	0.404	12.1	5.30 8.43	12.31	35	≈ 1.43 ml/min
08:41	2.7	7.93	0.406	13.8	5.15 8.30	12.79	28	≈ 1.47 ml/min
08:46	3.3	7.93	0.409	14.5	5.06 8.20	12.47	34	≈ 1.17 ml/min
08:51	3.9	7.94	0.411	13.6	4.94 8.16	12.67	27	≈ 1.33 ml/min
08:55	4.4	7.93	0.414	14.2	4.91 8.10	12.09	34	≈ 1.33 ml/min
08:57								Collect sample OB-04 for 260

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC, SUBMERSIBLE, OTHER
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, OTHER
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, OTHER
 TYPE OF BLADDER MATERIAL (if applicable): TEFLON, OTHER

PURGE OBSERVATIONS

NOTES

08:28 DTW = 4.14
 08:33 DTW = 4.21
 08:37 DTW = 4.21
 08:41 DTW = 4.29
 08:46 DTW = 4.29
 08:51 DTW = 4.32
 08:55 DTW = 4.35

SIGNATURE: Joe Deatherage

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-5-04

SITE ID BR-04

SITE TYPE Monitor Well

SITE ACTIVITY START 09:29 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 19.84 FT

WELL DEPTH 50.15 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 19.84 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0 FT

DRAWDOWN VOLUME 0 GAL

PRODUCT THICKNESS _____ FT

INTEGRITY: CASING LOCKED COLLAR

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 09:32

END PURGING 10:13

TOTAL VOL PURGED 0.75 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
09:41	1.0	7.70	1.31	23.9	0	12.40	-252	~10 ml/min
09:51	1.6	7.65	1.38	33.7	0	11.68	-253	~50 ml/min
10:00	2.1	7.68	1.51	24.8	0	11.48	-257	~50 ml/min
10:08	2.7	7.63	1.64	27.7	0	10.81	-221	~75 ml/min
10:10	Collect sample BR-04 for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

09:41 DTW = 19.84
 09:51 DTW = 19.84
 10:00 DTW = 19.84
 10:08 DTW = 19.84

SIGNATURE: *J. Deatherage*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-5-04

SITE ID BR-05

SITE TYPE Monitor Well

SITE ACTIVITY START 10:19 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 19.83 FT

WELL DEPTH 50.15 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 19.83 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0 FT

DRAWDOWN VOLUME 0 GAL

PRODUCT THICKNESS _____ FT

CASING LOCKED COLLAR YES NO N/A

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 10:52

END PURGING 11:33

TOTAL VOL PURGED 0.75 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:05	1.1	9.27	0.133	62.4	0	12.83	-1	5.86 ml/min
11:12	1.6	9.31	0.130	52.7	0	12.61	-17	5.71 ml/min
11:21	2.1	9.31	0.130	42.5	0	12.49	-27	5.60 ml/min
11:28	2.6	9.30	0.129	34.8	0	13.59	-37	5.75 ml/min
11:30	Collect Sample BR-05 for 8260							

EQUIPMENT DOCUMENTATION

- | | | | |
|---|---|---|---|
| <u>TYPE OF PUMP</u> | <u>TYPE OF TUBING</u> | <u>TYPE OF PUMP MATERIAL</u> | <u>TYPE OF BLADDER MATERIAL (if applicable)</u> |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> TEFLON OR TEFLON LINED | <input type="checkbox"/> POLYVINYL CHLORIDE | <input type="checkbox"/> TEFLON |
| <input type="checkbox"/> SUBMERSIBLE | <input checked="" type="checkbox"/> HIGH DENSITY POLYETHYLENE | <input type="checkbox"/> STAINLESS STEEL | <input type="checkbox"/> OTHER _____ |
| <input type="checkbox"/> OTHER _____ | <input type="checkbox"/> OTHER _____ | <input type="checkbox"/> OTHER _____ | |

PURGE OBSERVATIONS

NOTES

11:05 OTW = 19.83
 11:12 OTW = 19.83
 11:21 OTW = 19.83
 11:28 OTW = 19.83

SIGNATURE: *Joe Beath...*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-5-04

SITE ID OB-05

SITE TYPE Monitor Well

SITE ACTIVITY START 13:09 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 11.59 FT

WELL DEPTH 17.34 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 12.22 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.63 FT

DRAWDOWN VOLUME 0.1 GAL

PRODUCT THICKNESS FT

CASING LOCKED
COLLAR

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.4 L/MIN

BEGIN PURGING 13:13

END PURGING 13:41

TOTAL VOL PURGED 1.02 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
13:19	0.9	7.48	1.96	8.1	0	14.81	-23	~150ml/min
13:23	1.5	7.36	1.89	8.5	0	14.80	-51	~150ml/min
13:27	2.0	7.36	1.82	8.8	0	14.93	-36	~133ml/min
13:31	2.5	7.36	1.82	9.4	0	14.95	-40	~133ml/min
13:36	3.2	7.36	1.80	8.8	0	14.97	-43	~133ml/min
13:38		collected	Sample OB-05 for 8260					

EQUIPMENT DOCUMENTATION

- TYPE OF PUMP: PERISTALTIC, SUBMERSIBLE, OTHER
- TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, OTHER
- TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, OTHER
- TYPE OF BLADDER MATERIAL (if applicable): TEFLON, OTHER

PURGE OBSERVATIONS

NOTES

13:19 DTW = 11.71
 13:23 DTW = 11.83
 13:27 DTW = 11.95
 13:31 DTW = 12.06
 13:36 DTW = 12.17
 13:41 DTW = 12.22

SIGNATURE: *Joe Deather*

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-5-04

SITE ID BR-09

SITE TYPE Monitor Well

SITE ACTIVITY START 14:30 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 30.91 FT

WELL DEPTH 49.40 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 8 IN

FINAL DEPTH TO WATER 20.91 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP YES NO N/A
CASING _____
LOCKED _____
COLLAR _____

DRAWDOWN 0 FT

DRAWDOWN VOLUME 0 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.085 L/MIN

BEGIN PURGING 14:34

END PURGING 15:14

TOTAL VOL PURGED 0.884 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
14:43	0.78	11.98	1.28	13.4	0	11.59	-36	~87 ml/min
14:50	1.35	12.01	1.29	8.1	0	11.26	-60	~81 ml/min
14:56	1.86	12.01	1.29	8.4	0	11.16	-75	~85 ml/min
15:03	2.47	12.01	1.29	7.9	0	11.13	-84	~87 ml/min
15:09	2.99	11.99	1.29	4.0	0	11.15	-91	~87 ml/min
15:12		Collect sample BR-09 for 8260						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC, SUBMERSIBLE, OTHER

TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, OTHER

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, OTHER

TYPE OF BLADDER MATERIAL (if applicable): TEFLON, OTHER

PURGE OBSERVATIONS

NOTES

SIGNATURE: Joe Deatherage

14:43 DTW = 20.91
14:50 DTW = 20.91
14:56 DTW = 20.91
15:03 DTW = 20.91

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-6-04

SITE ID OB-08

SITE TYPE Monitor Well

SITE ACTIVITY START 08:18 END

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 11.33 FT

WELL DEPTH 24.85 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 12.12 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.79 FT

DRAWDOWN VOLUME 0.13 GAL

PRODUCT THICKNESS FT

CASING LOCKED COLLAR

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.12 L/MIN

BEGIN PURGING 08:22

END PURGING 08:59

TOTAL VOL PURGED 1.15 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
08:31	1.0	7.73	0.158	24.2	4.84	13.52	138	~ 117 ml/min
08:35	1.45	7.79	0.158	20.4	4.86	13.17	89	~ 117 ml/min
08:40	2.04	7.80	0.157	20.9	4.90	13.25	82	~ 117 ml/min
08:45	2.62	7.82	0.148	15.8	4.93	13.28	61	~ 117 ml/min
08:50	3.20	7.87	0.147	17.8	4.97	13.30	55	~ 117 ml/min
08:55	3.78	7.85	0.148	23.6	4.69	13.45	53	~ 117 ml/min
08:57	Collect Sample OB-08 for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

08:31 DTW = 11.61'
 08:35 DTW = 11.79'
 08:40 DTW = 11.91'
 08:45 DTW = 11.99'
 08:50 DTW = 12.06'
 08:55 DTW = 12.12'

SIGNATURE: Joe Deatherage

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2004 2nd Semi-Annual Sampling Event

DATE 12-6-04

SITE ID BR-08

SITE TYPE Monitor Well

SITE ACTIVITY START 10:40 END 11:19

JOB NUMBER 51870.11

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- TOP OF WELL RISER
- TOP OF PROTECTIVE CASING
- OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 13.21 FT

WELL DEPTH 42.6 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 14.84 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP _____ YES NO N/A
CASING _____
LOCKED _____
COLLAR _____

DRAWDOWN 1.63 FT

DRAWDOWN VOLUME 1.06 GAL

PRODUCT THICKNESS _____ FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.14 L/MIN

BEGIN PURGING 10:51

END PURGING 11:19

TOTAL VOL PURGED 1.02 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:04	1.73	8.96	0.524	74.4	0 0.85	12.27	48	≈ 133 ml/min
11:08	2.26	8.94	0.525	82.9	0 0.81	13.00	25	≈ 133 ml/min
11:12	2.88	8.95	0.529	75.5	0 0.84	12.95	5	≈ 154 ml/min
11:15	3.28	8.95	0.529	77.0	0 0.90	13.10	-12	≈ 135 ml/min
11:17		Collect	sample	BR-08	for	8200		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- PERISTALTIC
- SUBMERSIBLE
- OTHER

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- OTHER

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- TEFLON
- OTHER

PURGE OBSERVATIONS

NOTES

11:04 DTW = 13.35
11:08 DTW = 13.52
11:12 DTW = 13.68

SIGNATURE: Joe Decker

APPENDIX E

WELL CONSTRUCTION INFORMATION

Appendix E
Well Construction Information

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Well ID	Date Installed	Well Purpose/Type	Well Location	Boring Depth	Well Depth	Screen Interval		Survey Coordinates			Well Material Riser/Screen	Completion		
						Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
BR-01	09/02/97	Monitor	Perimeter	42.2	42.2	NA	NA	750364.06	1150086.89	531.92	Stainless / Open	X		
BR-02	09/02/97	Monitor	Perimeter	44.0	44.0	NA	NA	750541.81	1149964.51	532.39	Stainless / Open	X		
BR-03	09/02/97	Monitor	Perimeter	40.1	40.1	NA	NA	750552.93	1149641.68	536.32	Stainless / Open			X
BR-04	09/03/97	Monitor	South Source	44.2	44.2	NA	NA	750322.96	1149422.13	532.68	Stainless / Open	X		
BR-05	09/03/97	Monitor	North Source	49.9	49.9	NA	NA	750216.62	1149958.67	531.76	Stainless / Open	X		
BR-06	09/03/97	Monitor	Background	42.6	42.6	NA	NA	749939.91	1149145.54	539.10	Stainless / Open	X		
BR-07	09/03/97	Monitor	Upgradient	53.3	53.3	NA	NA	749983.50	1149989.76	534.46	Stainless / Open			X
BR-08	07/28/00	Monitor	South Plume (Deep)	73.0	73.0	NA	NA	750340.94	1149482.41	533.13	Iron / Open	X		
BR-09	07/28/00	Monitor	South Source	47.0	47.0	NA	NA	750400.72	1149438.67	532.72	Iron / Open	X		
BR-10	07/28/00	Monitor	South Source	47.0	47.0	NA	NA	750426.90	1149411.76	532.29	Iron / Open	X		
BR-11	07/28/00	Monitor	South Source	52.0	52.0	NA	NA	750387.82	1149546.25	532.53	Iron / Open	X		
BR-12	07/28/00	Monitor	North Source	42.0	42.0	NA	NA	750195.19	1150010.12	531.90	Iron / Open	X		
BR-13	07/28/00	Monitor	Perimeter	67.5	67.5	NA	NA	750197.49	1150044.27	532.01	Iron / Open	X		
BR-14	07/28/00	Monitor	North Plume (Deep)	75.3	75.3	NA	NA	750260.61	1150052.20	531.67	Iron / Open	X		
BR-15	07/26/00	Monitor	North Source	72.0	72.0	NA	NA	750293.39	1149980.43	531.69	Iron / Open	X		
BR-16	07/26/00	Monitor	North Source	55.0	55.0	NA	NA	750223.79	1150013.71	531.32	Iron / Open	X		
BR-17	07/28/00	Monitor	South Source	52.0	52.0	NA	NA	750333.76	1149478.26	533.16	Iron / Open	X		
EW-N-1	08/15/00	Extraction	North Area	27.0	27.0	5.2	26.0	750198.77	1149956.96	529.28	Stainless / PVC		X	
EW-N-2	08/23/00	Extraction	North Area	27.0	27.0	5.5	26.0	750225.81	1149942.16	528.76	Stainless / PVC		X	
EW-N-3	08/22/00	Extraction	North Area	26.8	26.8	5.2	25.8	750217.16	1149980.06	528.69	Stainless / PVC		X	
EW-N-4	08/23/00	Extraction	North Area	26.0	26.0	7.2	25.0	750259.43	1149928.84	529.32	Stainless / PVC		X	
EW-N-5	08/16/00	Extraction	North Area	27.0	27.0	5.5	26.0	750257.98	1149972.33	528.26	Stainless / PVC		X	
EW-N-6	08/18/00	Extraction	North Area	25.5	25.0	6.1	24.0	750293.49	1149957.98	529.18	Stainless / PVC		X	
EW-S-1S	10/01/98	Extraction	South Area	14.0	13.7	4.3	13.7	750332.80	1149428.08	529.41	Stainless		X	
EW-S-1D	10/01/98	Extraction	South Area	18.3	18.3	4.3	17.9	750327.22	1149428.49	529.41	Stainless		X	
EW-S-2	07/26/00	Extraction	South Area	23.1	22.0	5.5	21.0	750256.26	1149404.38	528.68	Stainless / PVC		X	
EW-S-3	07/28/00	Extraction	South Area	23.5	22.0	5.5	21.0	750301.18	1149370.46	529.55	Stainless / PVC		X	
EW-S-4	07/26/00	Extraction	South Area	23.5	22.0	5.5	21.0	750293.94	1149418.71	532.41	Stainless / PVC		X	
EW-S-5	08/01/00	Extraction	South Area	23.5	22.5	5.8	21.5	750325.14	1149386.52	529.53	Stainless / PVC		X	
EW-S-6	07/31/00	Extraction	South Area	22.9	22.4	5.9	20.9	750341.87	1149362.58	529.27	Stainless / PVC		X	
EW-S-7	08/07/00	Extraction	South Area	23.1	22.5	5.9	21.6	750339.03	1149413.8	529.59	Stainless / PVC		X	
EW-S-8	08/02/00	Extraction	South Area	23.0	22.5	5.8	21.5	750359.86	1149402.69	529.65	Stainless / PVC		X	
EW-S-9	08/03/00	Extraction	South Area	23.0	22.5	6.0	21.5	750355.07	1149440.13	532.99	Stainless / PVC		X	

Appendix E
Well Construction Information

Semi-Annual Progress Report
Second Semi-Annual 2004 and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

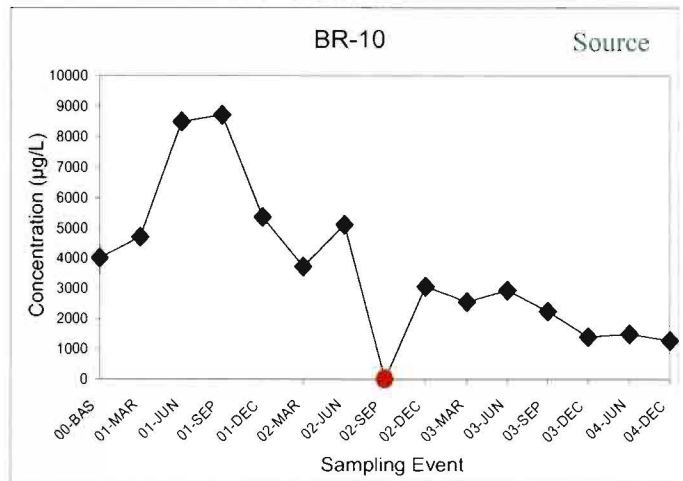
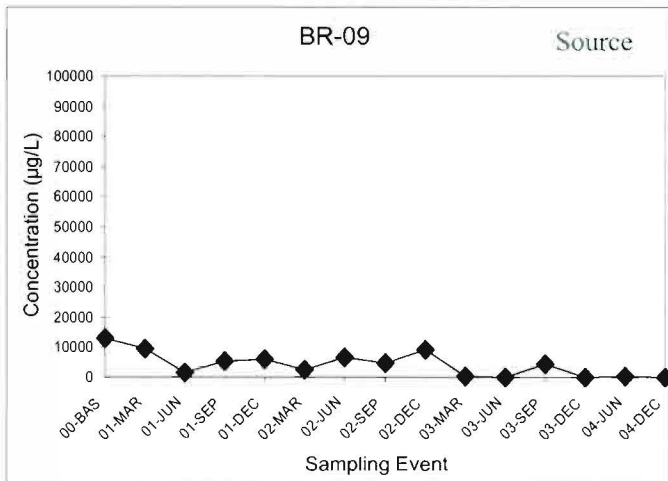
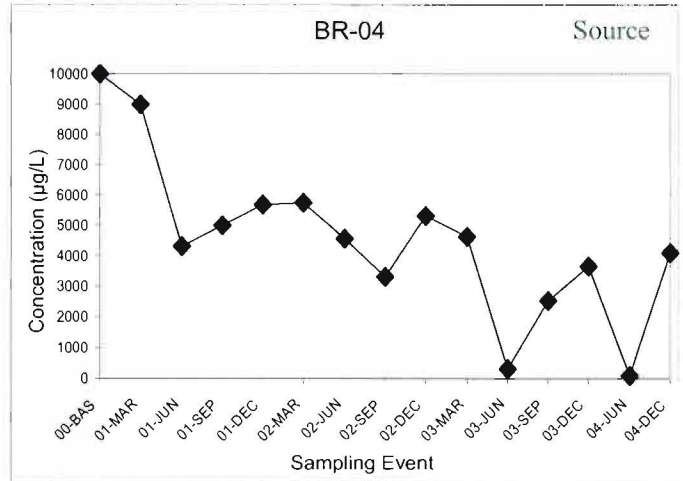
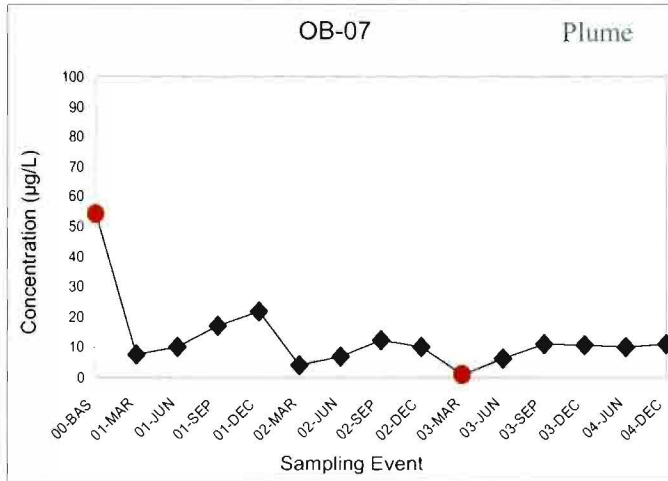
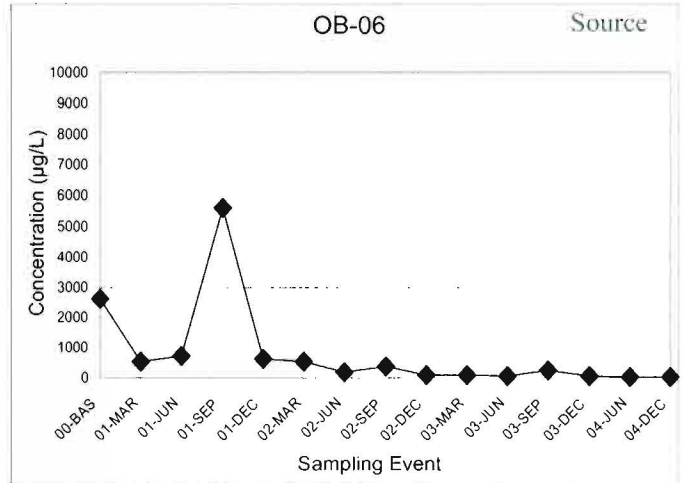
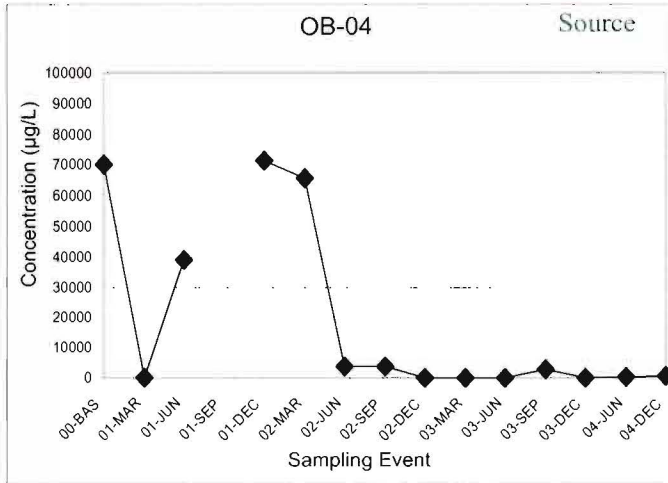
Well ID	Date Installed	Well Purpose/Type	Well Location	Boring Depth	Well Depth	Screen Interval		Survey Coordinates			Well Material Riser/Screen	Completion		
						Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
EW-S-10	08/09/00	Extraction	South Area	22.6	22.5	6.0	21.5	750381.30	1149367.65	529.43	Stainless / PVC		X	
EW-S-11	08/08/00	Extraction	South Area	22.6	22.5	5.9	22.0	750377.04	1149418.02	529.50	Stainless / PVC		X	
EW-S-12	08/04/00	Extraction	South Area	22.3	22.3	5.8	21.3	750375.38	1149466.45	529.96	Stainless / PVC		X	
EW-S-13	08/10/00	Extraction	South Area	22.0	22.0	6.0	21.0	750399.16	1149448.68	529.53	Stainless / PVC		X	
EW-S-14	08/11/00	Extraction	South Area	22.0	22.0	5.6	21.0	750406.59	1149410.24	529.37	Stainless / PVC		X	
EW-S-15	08/14/00	Extraction	South Area	22.0	21.8	5.2	20.8	750414.78	1149480.34	529.96	Stainless / PVC		X	
EW-S-16	08/10/00	Extraction	South Area	21.3	21.3	5.2	20.3	750433.72	1149448.95	529.57	Stainless / PVC		X	
BREW-S-1	08/03/00	Extraction	South Area	61.8	61.8	26.6	56.4	750368.27	1149458.11	533.67	Stainless / PVC		X	
BREW-N-1	08/17/00	Extraction	North Area	75.8	75.8	25.8	70.3	750253.53	1150013.88	531.68	Stainless / PVC		X	
OB-04	09/05/97	Monitor	South Source	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.80	PVC	X		
OB-05	09/05/97	Monitor	North Source	18.0	18.0	4.0	18.0	750223.51	1149958.83	531.50	PVC	X		
OB-06	07/19/00	Monitor	South Source	17.0	17.0	6.8	16.8	750421.89	1149461.50	532.60	PVC	X		
OB-07	07/19/00	Monitor	South Plume	20.5	20.5	10.2	20.2	750461.13	1149512.60	533.03	PVC	X		
OB-08	07/28/00	Monitor	North Source	25.5	25.3	15.3	25.1	750279.00	1149957.45	531.64	PVC	X		
OB-09	07/28/00	Monitor	North Plume	23.5	23.3	13.3	23.1	750312.26	1149992.94	531.85	PVC	X		
TW-01	03/12/96	Monitor	Perimeter	22.0	22.0	17.0	22.0	750548.13	1149471.23	533.30	PVC	X		
TW-04	03/15/96	Monitor	Perimeter	17.5	17.3	12.3	17.3	750552.18	1149648.54	536.34	PVC			X
TW-07	03/15/96	Monitor	Perimeter	17.5	17.5	12.5	17.5	750546.69	1149830.01	532.55	PVC	X		
TW-09	03/30/96	Monitor	Perimeter	16.0	16.0	11.0	16.0	750542.22	1149971.84	532.30	PVC	X		
TW-13	03/12/96	Monitor	Upgradient	15.0	15.0	10.0	15.0	750086.24	1150016.03	531.69	PVC	X		
TW-17	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750373.39	1150088.34	531.86	PVC			X
TW-20	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750547.88	1150118.75	532.42	PVC			X
TW-74	04/09/96	Monitor	Mid-Plume	15.0	15.0	7.5	15.0	750407.92	1149841.78	531.96	PVC	X		
W-1	09/16/82	Monitor	Perimeter	14.0	14.0	7.0	13.9	750490.21	1149147.95	534.10	PVC			X
W-2	09/15/82	Monitor	Background	21.0	18.0	13.0	18.0	749940.43	1149136.77	539.10	PVC			X
W-3	09/16/82	Monitor	Upgradient	24.0	17.0	16.0	21.0	750168.37	1149794.82	533.00	PVC	X		
W-4	09/22/82	Monitor	Upgradient	29.0	26.0	21.0	26.0	749977.63	1149996.42	533.12	PVC			X
W-5	09/15/82	Monitor	Perimeter	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.52	PVC	X		
W-6	09/15/82	Monitor	Upgradient	16.5	15.0	13.0	15.0	750288.78	1149332.79	532.66	PVC	X		

APPENDIX F

**MONITOR WELL CONCENTRATION
TREND GRAPHS**

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

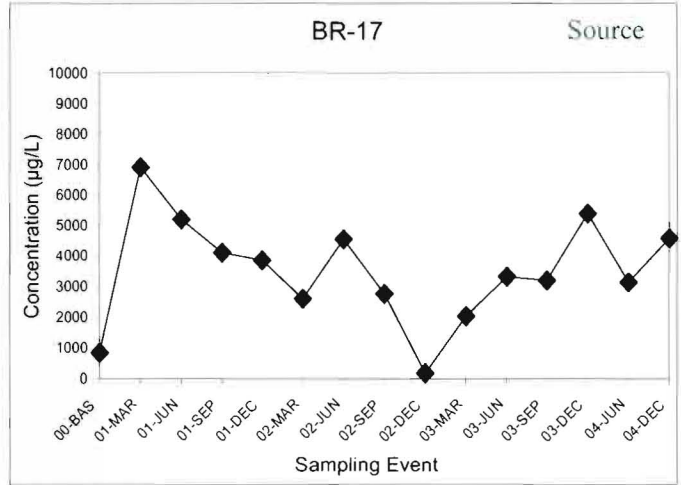
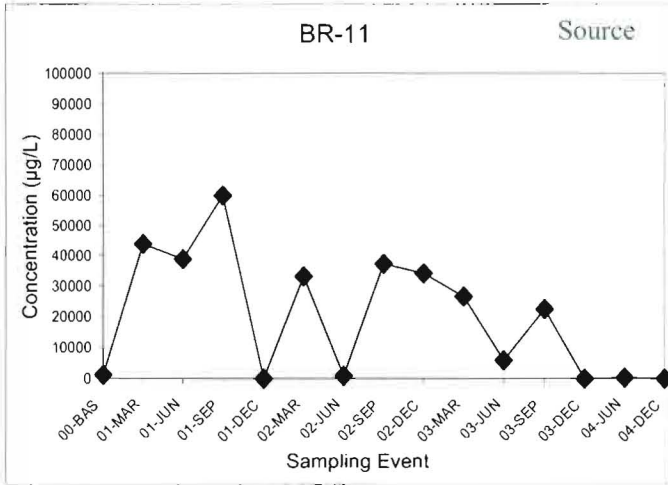
South TCE Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

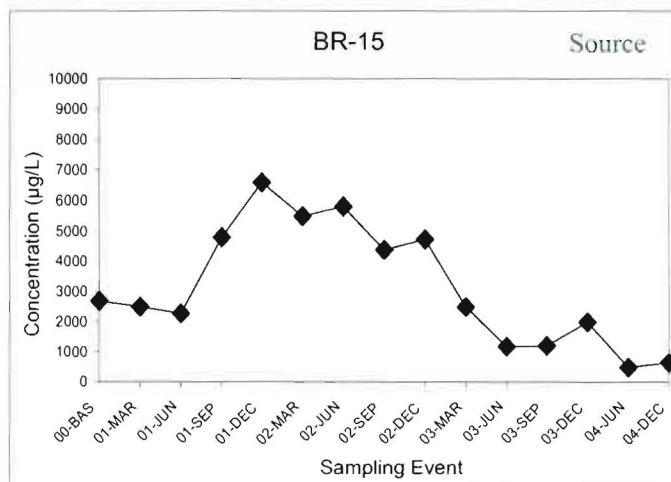
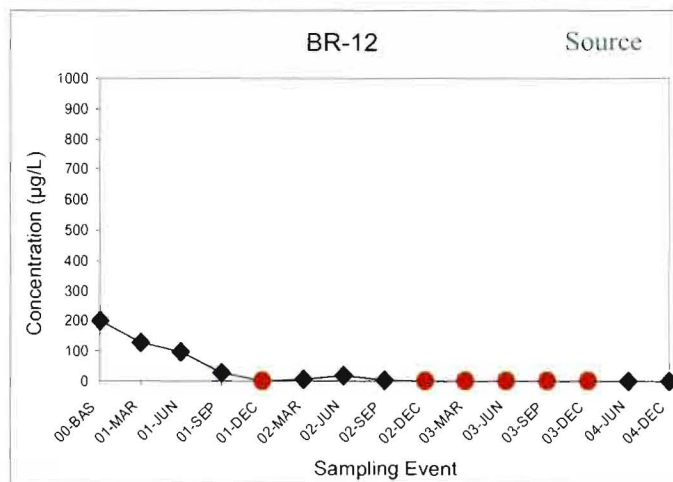
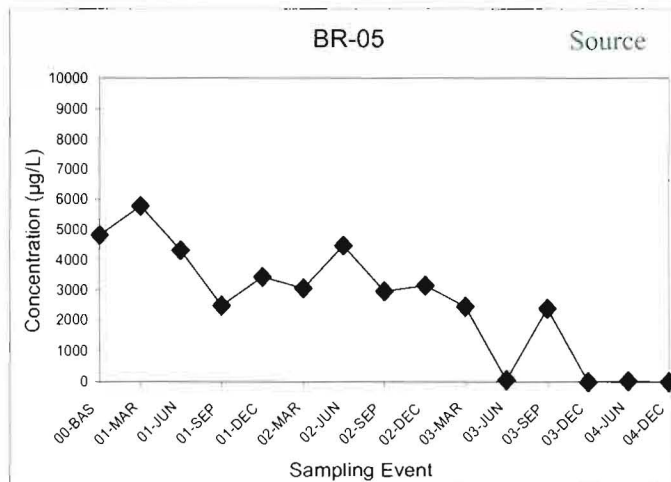
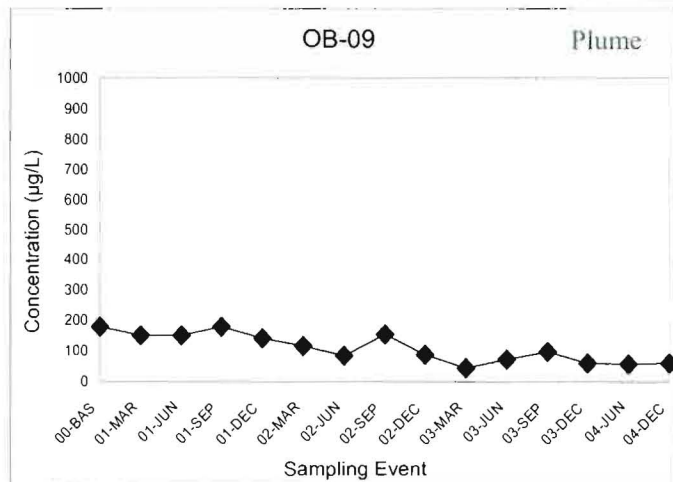
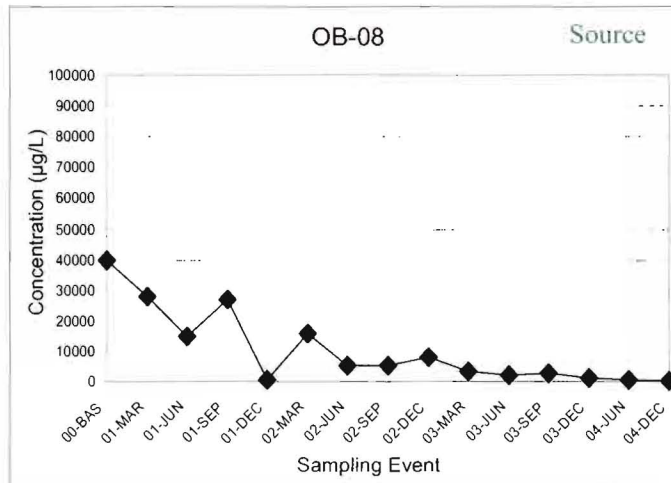
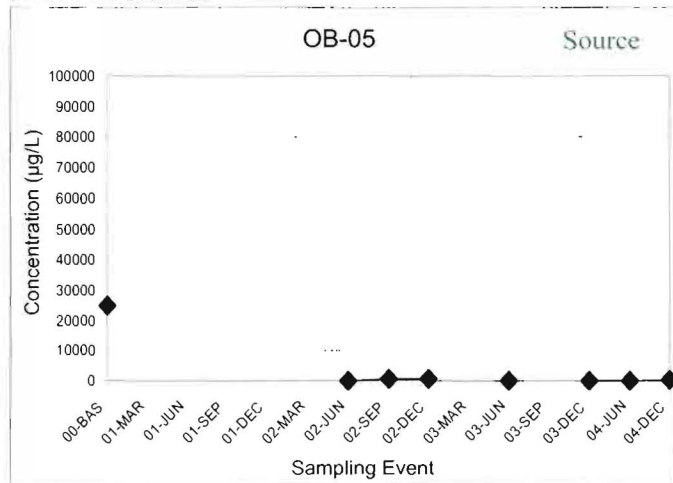
South TCE Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

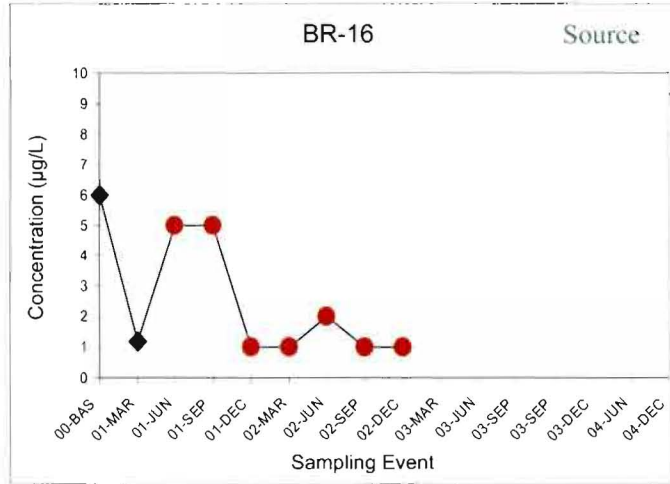
North TCE Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

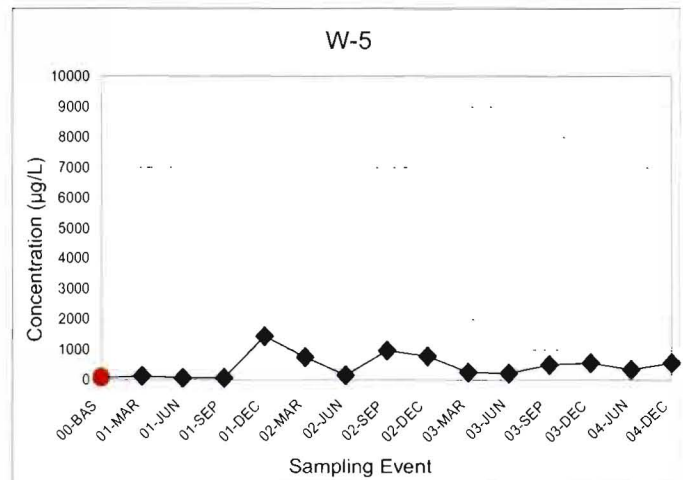
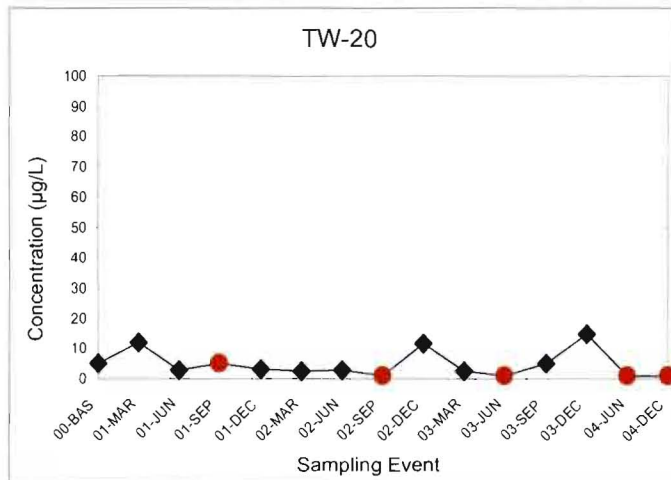
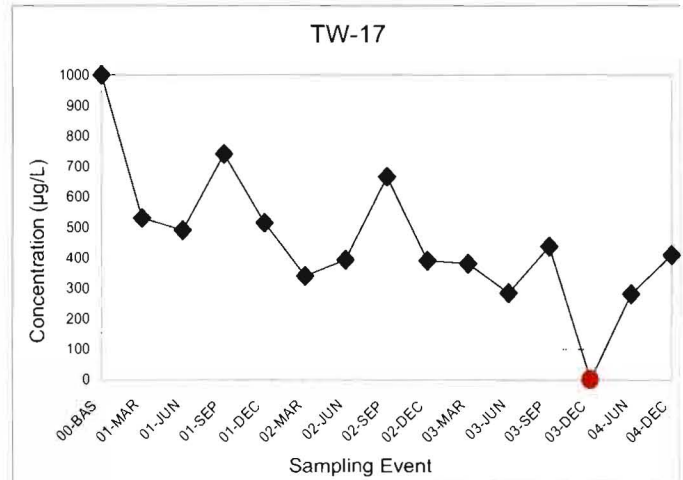
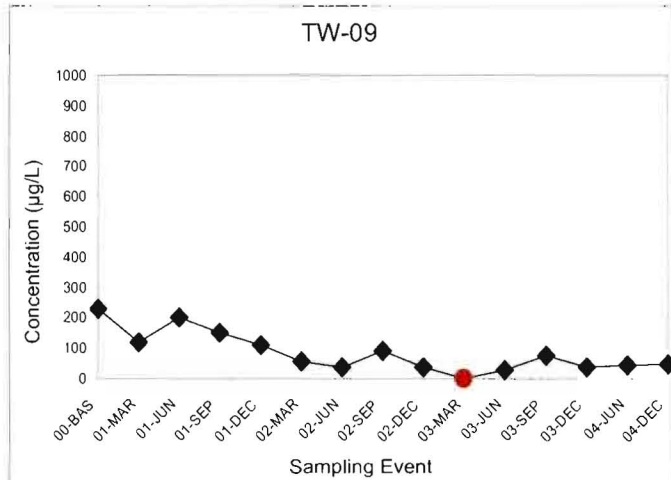
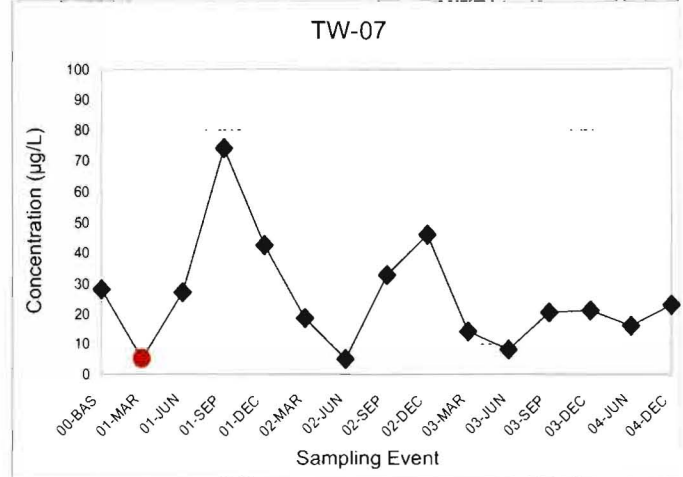
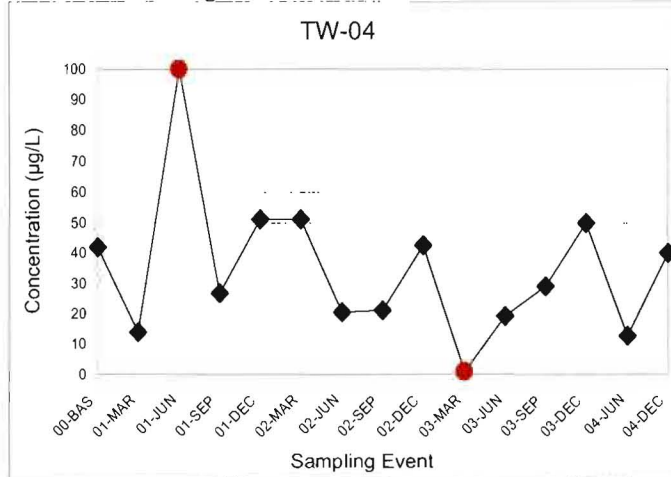
North TCE Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

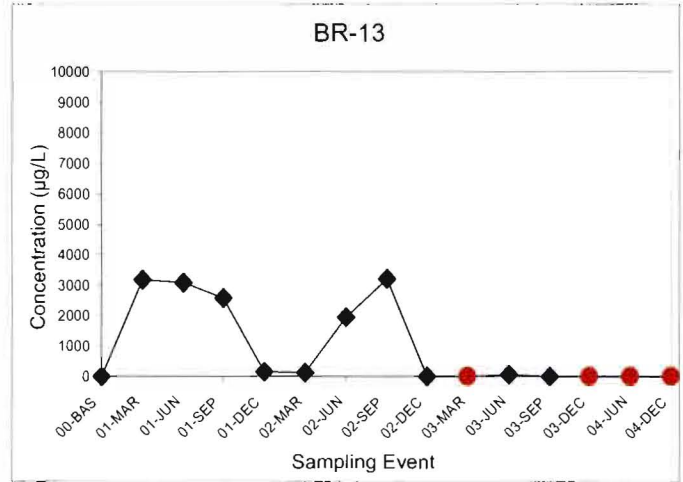
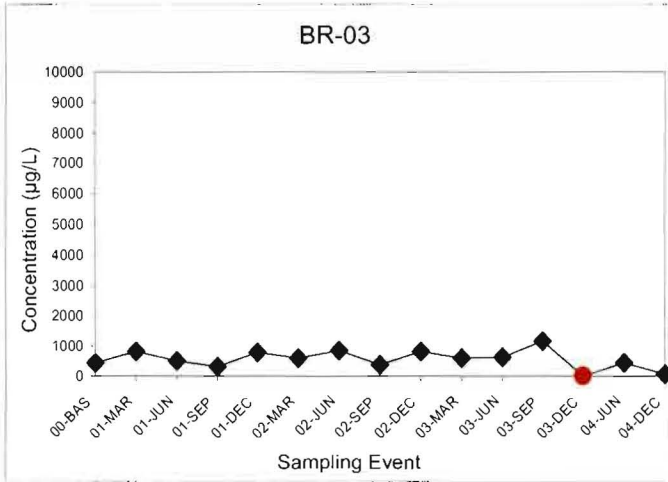
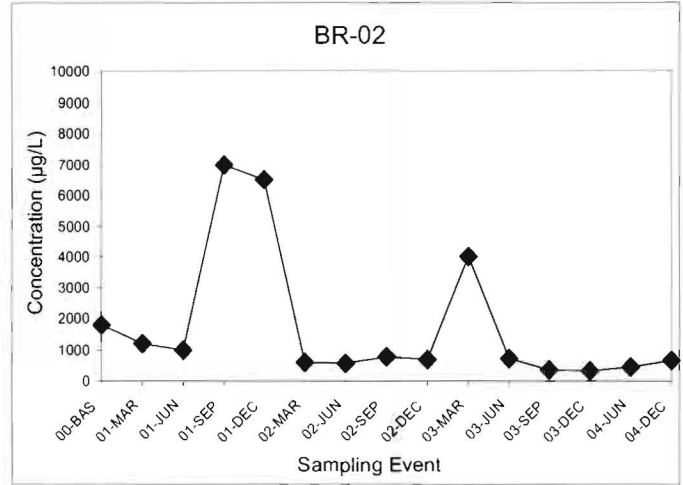
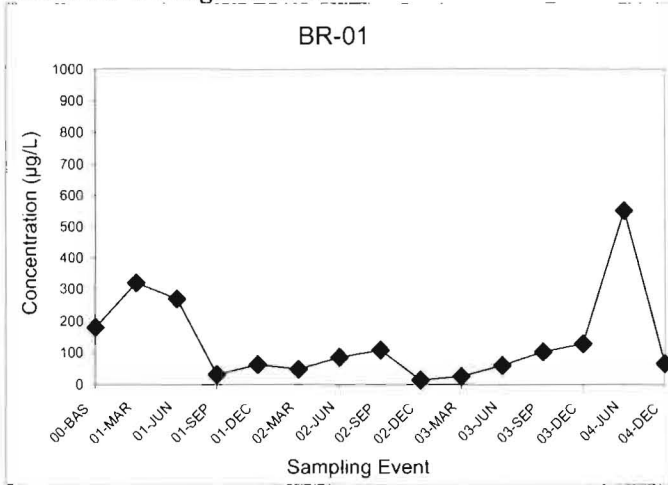
Perimeter Downgradient Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

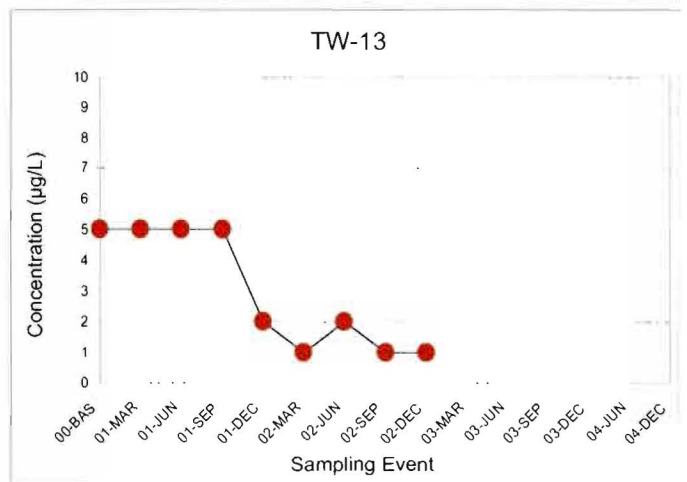
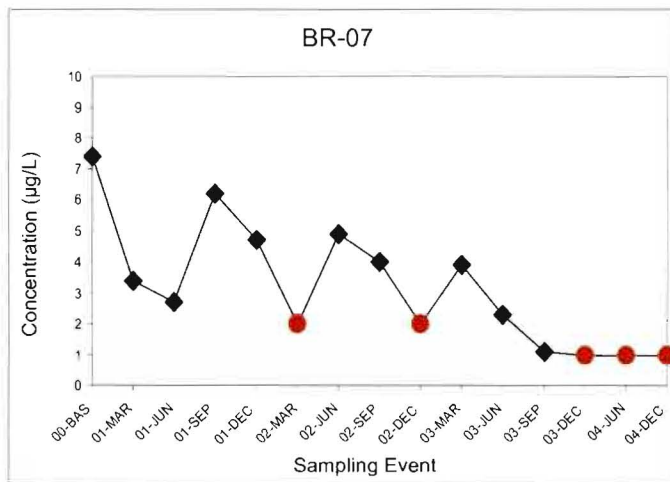
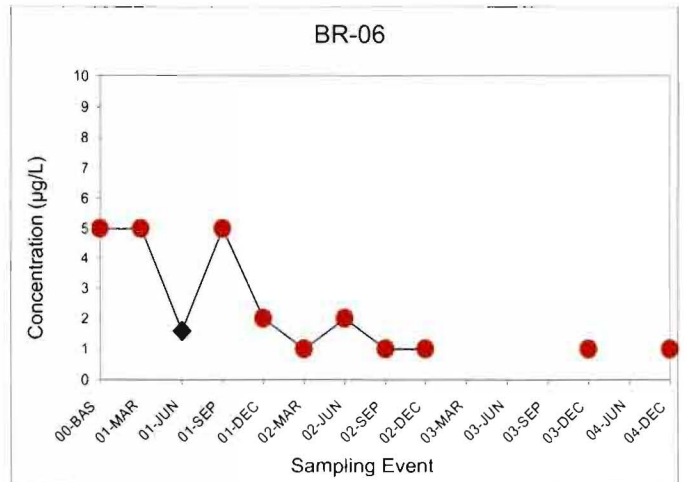
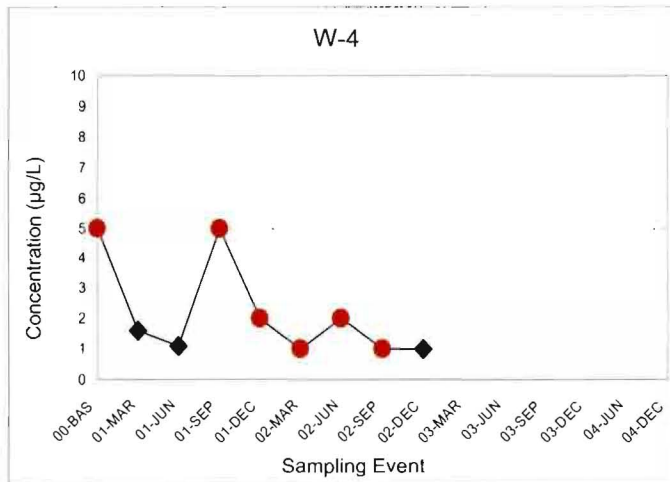
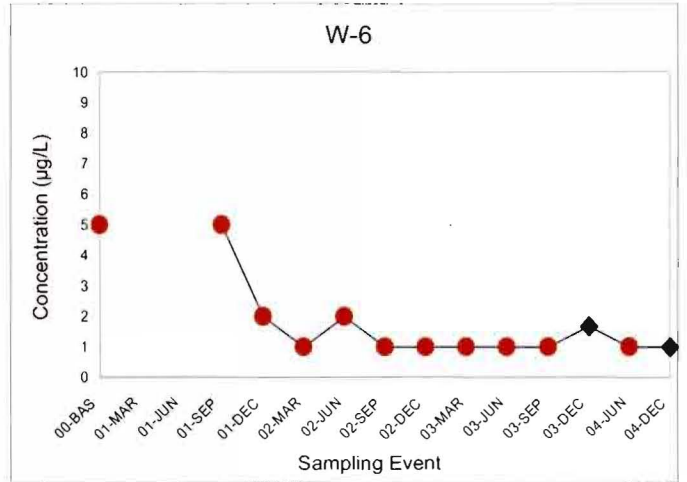
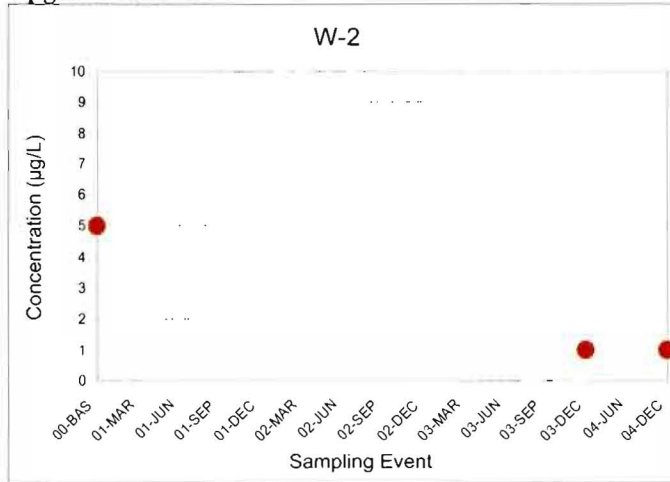
Perimeter Downgradient Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

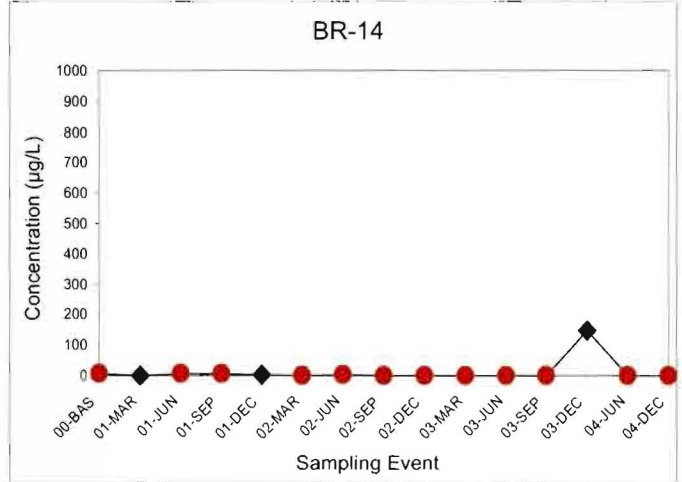
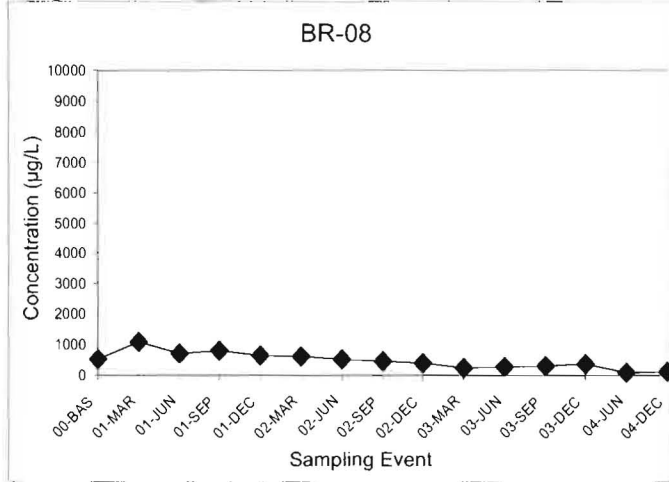
Upgradient Area



◆ = actual value
● = value below graphed detection limit

Appendix F Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Deep Bedrock Area



◆ = actual value
● = value below graphed detection limit