

QUARTERLY PROGRESS REPORT THIRD QUARTER 2002

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

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Third Quarter 2002
Former Taylor Instruments Site
Rochester, New York

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LIST OF ACRONYMS

μg/L	micrograms per liter
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)
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 (non-detect)
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
%R	percentage of recovery
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 the activities and results for the third quarterly sampling event for the year 2002, which was conducted in September 2002, following implementation of the dual-phase vacuum extraction and groundwater remedial treatment system (System). A summary of the 2001 first, second, third and fourth quarterly sampling event results and the 2002 first and second quarterly sampling event results 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, Appendix A), pursuant to a Voluntary Cleanup Agreement. An operational summary of the System for the third quarter of 2002 is also presented. This monitoring program has been implemented to document remedial progress in reducing contaminants of concern.

2.0 SCOPE OF WORK

2.1 SEPTEMBER 2002 QUARTERLY SAMPLING EVENT

Harding ESE personnel performed the September sampling event to provide an inclusive set of groundwater analytical data for the third quarterly period of 2002. Forty-five samples were collected and submitted to Test America, Incorporated (Table 2-1). Forty-four samples were submitted for volatile organic analyses by U.S. Environmental Protection Agency (EPA) Method 8260B. Of the 45 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; sulfide by Method 376.1; ferrous iron by Method 3500D; methane, ethane, and ethene by Method RSK175M; 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-three of the samples were environmental samples collected from monitor wells located on the Site. Twelve of the forty-five 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, 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)

Harding ESE 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 Harding ESE to determine the status of the System and quickly contact local O&M personnel, if necessary, thus maximizing System runtime. Routine O&M activities are conducted monthly and major activities are conducted quarterly. These activities include the following:

- Monthly
 - Collecting System operational data including line pressures, equipment runtime, flow rates, vacuum levels, and other pertinent data.

Table 2-1
Samples and Analysis,
September 2002 Sampling Event

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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
QATB01	09/17/01	X		Trip Blank
QAFB01	09/17/01	X		Field Blank
QARB01	09/17/01	X		Rinsate Blank
W-2	09/17/01		X ³	Environmental Sample
TW-04	09/17/01	X	X	Environmental Sample
TW-17	09/18/01	X	X	Environmental Sample
TW-20	09/18/01	X	X	Environmental Sample
TW-07	09/18/01	X	X	Environmental Sample
TW-09	09/19/01	X	X	Environmental Sample
OB-09	09/18/01	X	X	Environmental Sample
OB-07	09/19/01	X	X	Environmental Sample
OB-07 (MS)	09/19/01	X		Matrix Spike
OB-07 (MSD)	09/19/01	X		Matrix Spike Duplicate
W-5	09/19/01	X	X	Environmental Sample
W-5 (DUP)	09/19/01	X		Duplicate
W-4	09/19/01	X		Environmental Sample
TW-13	09/19/01	X		Environmental Sample
OB-06	09/20/01	X		Environmental Sample
BR-08	09/20/01	X		Environmental Sample
BR-17	09/20/01	X		Environmental Sample
BR-03	09/20/01	X		Environmental Sample
BR-14	09/20/01	X		Environmental Sample
BR-01	09/20/01	X		Environmental Sample
BR-02	09/20/01	X		Environmental Sample
QATB02	09/20/01	X		Trip Blank
QAFB02	09/20/01	X		Field Blank
QARB02	09/20/01	X		Rinsate Blank
See notes at end of table.				

**Table 2-1 (Continued)
Samples and Analysis,
September 2002 Sampling Event**

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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
BR-06	09/21/01	X		Environmental Sample
BR-06 (MS)	09/21/01	X		Matrix Spike
BR-06 (MSD)	09/21/01	X		Matrix Spike Duplicate
BR-07	09/21/01	X		Environmental Sample
BR-07 (DUP)	09/21/01	X		Duplicate
W-6	09/21/01	X		Environmental Sample
BR-16	09/21/01	X		Environmental Sample
BR-12	09/22/01	X		Environmental Sample
BR-13	09/22/01	X		Environmental Sample
BR-15	09/22/01	X		Environmental Sample
BR-10	09/23/01	X		Environmental Sample
OB-04	09/23/01	X		Environmental Sample
BR-04	09/23/01	X		Environmental Sample
BR-05	09/23/01	X		Environmental Sample
OB-05	09/23/01	X		Environmental Sample
BR-09	09/23/01	X		Environmental Sample
OB-08	09/24/01	X		Environmental Sample
BR-11	09/24/01	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: ID = identification
VOC = volatile organic compound
DUP = duplicate
MS = matrix spike
MSD = matrix spike duplicate

- Checking operation of all equipment for vibration or unusual noise, leaks, and unusual operation.
- Collecting water levels from site monitor wells.
- 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.
- 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).

3.0 SUMMARY OF RESULTS

The wells sampled during the third quarterly (September 2002) event are divided into four categories. These categories are (1) the North and South Trichloroethylene (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 September 2002 sampling event are summarized in Tables 3-2 and 3-3. These tables present only positive (i.e., 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. TCE concentration trend graphs for both overburden and bedrock monitor wells are provided in Appendix F. These graphs present data from the Baseline, March 2001, June 2001, September 2001, December 2001, March 2002, June 2002 and September 2002 sampling events. Natural biodegradation results for the September 2002 event are summarized in Table 3-4 (see Section 3.6). Comprehensive results can be found in the laboratory reports located in Appendix B.

3.1 NORTH AND SOUTH TCE SOURCE AREAS

Overburden Monitor Wells

Monitor wells OB-04 and OB-06 are both located within the South TCE Source Area while OB-07 is within the plume. Results in OB-04 were slightly higher than June 2002 results with TCE increasing from 3,650 micrograms per liter ($\mu\text{g/L}$) to 3,760 $\mu\text{g/L}$ and cis-1,2-dichloroethylene (cis-1,2-DCE) rising from 554 to 1,950 $\mu\text{g/L}$. Daughter products trans-1,2-dichloroethylene (trans-1,2-DCE) and 1,1-dichloroethylene (1,1-DCE) and vinyl chloride also increased from non-detected to 7.5 $\mu\text{g/L}$, 4.9 $\mu\text{g/L}$ and 2 $\mu\text{g/L}$, respectively. OB-06 also displayed an increase in TCE concentration from the June 2002 event with TCE being detected at 386 $\mu\text{g/L}$, up from 184 $\mu\text{g/L}$. Also, cis-1,2-DCE slightly increased from 2.8 $\mu\text{g/L}$ to 10.1 $\mu\text{g/L}$. OB-07 exhibited only 12.4 $\mu\text{g/L}$ of TCE, which is slightly higher than past detections (7.1 $\mu\text{g/L}$ in June and 4.2 $\mu\text{g/L}$ in March). No daughter products were detected in OB-07.

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 ID = identification * = unique sampling event J = estimated value µg/L = micrograms per liter TCE = trichloroethylene 1,1-DCE = 1,1-dichloroethylene trans-1,2-DCE = trans-1,2-dichloroethylene cis-1,2-DCE = cis-1,2-dichloroethylene VOC = volatile organic compound DUP = duplicate						

Table 3-2
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
September 2002 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-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-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-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	9/19/02	12.4	--	--	--	--
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	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
September 2002 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-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	--	--
TW-01	10/24/00	--	--	--	--	--
TW-01*	03/01	NS	NS	NS	NS	NS
TW-01*	06/01	NS	NS	NS	NS	NS
TW-01*	09/01	NS	NS	NS	NS	NS
TW-01*	12/01	NS	NS	NS	NS	NS
TW-01*	03/02	NS	NS	NS	NS	NS
TW-01*	06/02	NS	NS	NS	NS	NS
TW-01*	09/02	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-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-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	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
September 2002 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)
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-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-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	--	--	--	--	--
W-2	10/21/00	--	--	--	--	--
W-2*	03/01	NS	NS	NS	NS	NS
W-2*	06/01	NS	NS	NS	NS	NS
W-2*	09/01	NS	NS	NS	NS	NS
W-2*	12/01	NS	NS	NS	NS	NS
W-2*	03/02	NS	NS	NS	NS	NS
W-2*	06/02	NS	NS	NS	NS	NS
W-2*	09/02	NS	NS	NS	NS	NS
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	--	--	--	--	--
See notes at end of table.						

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Notes:	-- = no detections * = will not be sampled during quarterly events. ** = W-6 was not sampled due to obstruction. 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

Table 3-3
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
September 2002 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-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-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-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-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-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

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
September 2002 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-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-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-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	09/20/02	463	220	2.8	--	--
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-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	--	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002, and
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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-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-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-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-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-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

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline, 2001, and March and June 2002 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-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-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

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

Monitor wells OB-05 and OB-08 are both located within the North TCE Source Area while OB-09 is within the plume. OB-05 contained higher concentrations of TCE than the previous event with TCE at 489 µg/L up from 52.8. This is still significantly lower than the Baseline event, which was 25,000 µg/L. TCE concentrations in OB-08 increased slightly to a concentration of 5,440 µg/L from the June concentration of 5,370 µg/L. Daughter products were detected with cis-1,2-dichloroethylene (cis-1,2-DCE) and trans-1,2-dichloroethylene (trans-1,2-DCE) rising from non-detected to 110 and 3.6 µg/L, respectively. OB-09 contained higher concentrations of TCE than the previous event with a concentration of 153 µg/L, up from 86 µg/L in June. OB-09 also displayed a concentration of cis-1,2-DCE at 16.6 µg/L and trans-1,2-dichloroethylene (trans-1,2-DCE) at 1.6 µg/L.

Bedrock

Bedrock monitor wells BR-04, BR-09, BR-10, BR-11, and BR-17 are located within the South TCE Source Area. The TCE concentration in BR-04 was 3,310 µg/L, and the breakdown products cis-1,2-DCE and trans-1,2-DCE, 1,1-DCE and Vinyl Chloride were 551, 63.1, 8.3 and 32.2 µg/L, respectively. BR-09 exhibited a decrease in TCE, while exhibiting an increase in daughter product concentrations. TCE was detected at 4,590 µg/L (down from 6,530 µg/L in June), while cis-1,2-DCE and trans-1,2-DCE increased from not detected to 64.3 and 5.1 µg/L, respectively. TCE concentrations in BR-10 declined significantly to not detected from 5,100 µg/L in June. Daughter products were also detected in BR-10 consisting of cis-1,2-DCE at 120 µg/L, trans-1,2-DCE at 9.8 µg/L. Other daughter products 1,1-DCE and vinyl chloride present in June were not detected during the September event. BR-11 TCE concentrations increased significantly to 37,200 µg/L up from 874 µg/L in June and similar to 33,300 µg/L in March. Daughter products cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, and vinyl chloride were detected at concentrations of 440 µg/L, 82.4 µg/L, 12.2 µg/L and 18 µg/L. In well BR-17, TCE concentrations were detected at 2,740 µg/L, while daughter product concentrations of 210 µg/L, 36.8 µg/L, 5.2 µg/L, and of 24.5 µg/L were detected for cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE and vinyl chloride, respectively.

BR-05, BR-12, BR-15, and BR-16 are located in the North TCE Source Area. BR-05 recorded TCE levels at 2,950 µg/L, cis-1,2-DCE levels at 1,720 µg/L, trans-1,2-DCE levels at 138 µg/L, 1,1-DCE levels at 29.7 µg/L, and vinyl chloride at 434 µg/L. BR-12 remained consistently low in TCE concentrations, with a September detection of 3.5 µg/L. Also, cis-1,2-DCE was detected at 23.8 µg/L. BR-15 TCE concentrations increased from the June 2002 (5,800 µg/L) event to the September 2002 (4,390 µg/L) event. Trans-1,2-DCE was detected at 40.3 µg/L, 1,1-DCE at 7.5 µg/L. Cis-1,2-DCE and vinyl chloride rose slightly, with detections of 555 µg/L and 5.4 µg/L, all increased from the June 2002 event. BR-16 remained at not detected levels.

In addition to these detections, Tetrachlorethene (2.3 µg/L), 1,1-Dichlorethane (4.4 µg/L) and 1, 1, 1-Trichloroethane (7.5 µg/L) were detected at BR-11. At BR-05 Benzene (7.3 µg/L) and 2-Butanone (162 µg/L) were detected. These were not determined to be contaminants of concern for this site and have not been detected historically in the on-site monitoring wells.

3.2 UPGRAIDENT MONITOR WELLS

Overburden Monitor Wells

W-2 and W-6 are southwest of the source areas and are considered to be upgradient. W-2 is not sampled for VOCs as part of the quarterly sampling program, but displayed no VOC detections during the Baseline event. W-6 VOC results were all non-detections, with the exception of cis-1,2-DCE having a result of 9.6 µg/L. W-4 is located west of the source areas, and is also considered upgradient. Concentrations in W-4 remained at non-detect levels.

Bedrock Monitor Wells

BR-06 and BR-07 are also upgradient wells, located southwest and west of the source areas. BR-06 displayed no detectable TCE or daughter product concentrations for the September 2002 sampling event. BR-07 had a TCE detection of 4.0 µg/L. Daughter product concentrations in BR-07 were similar to the June 2002 sampling event, with 27.3 µg/L (cis-1,2-DCE), 14.8 µg/L (trans-1,2-DCE) and 90.4 µg/L (vinyl chloride).

In addition to these detections benzene was detected in BR-07 at 6.5 µg/L. Benzene was not determined to be a contaminant of concern for this site and has not been detected historically in on-site monitor wells.

3.3 PERIMETER DOWNGRAIDENT MONITOR WELLS

Overburden Monitor Wells

Sample results in downgradient wells TW-13 and TW-20 indicated no VOC detections. TW-04 results indicated detections of TCE at 21.2 µg/L as well as detections of cis-1,2-DCE at 7.1 µg/L. Concentrations of TCE in TW-17 increased from 393 µg/L in June to 666 µg/L in September, while daughter products remained at non-detect levels. TW-07 contained 32.9 µg/L of TCE as well as daughter products, cis-1,2-DCE at 5.1 µg/L and trans-1,2-DCE at 12.4 µg/L. In TW-09, TCE concentrations

increased from 36.5 µg/L in June 2002 to 91.5 µg/L in September. Additionally, cis-1,2-DCE increased from not detected to 4 µg/L. Concentrations of TCE and cis-1,2-DCE decreased slightly in W-5. Trans-1,2-DCE was also detected at 4.7 µg/L.

Bedrock Monitor Wells

The perimeter downgradient bedrock monitor wells are BR-01, BR-02, BR-03, and BR-13. Concentrations of TCE in BR-01 were 107 µg/L, while daughter products cis-1,2-DCE and trans-1,2-DCE were 16 µg/L and 4 µg/L, respectively. These concentrations were slightly higher than in June 2002. Concentrations in BR-02 increased, with TCE levels going from 568 µg/L during June sampling activities to 768 µg/L in the September 2002 sampling event. Cis-1,2-DCE increased from 122 µg/L in June to 518 µg/L in September, and trans-1,2-DCE increased from 2.2 µg/L in June to 24.4 µg/L in September. Additionally 1,1-DCE and vinyl chloride were present in BR-02 at 4.6 µg/L and 18.7 µg/L, respectively, up from non-detected levels during June. BR-03 levels decreased slightly, with 370 µg/L of TCE and 6.5 µg/L of cis-1,2-DCE. During the June event 1,1-DCE was detected at 2.8 µg/L but was not detected during the September event. Concentrations in BR-13 increased, with TCE going from 1,980 µg/L in June to 3,240 µg/L in September. Daughter products increased as well with cis-1,2-DCE at 800 µg/L, trans-1,2-DCE at 22 µg/L, 1,1-DCE at 6 µg/L, and vinyl chloride at 5.1 µg/L.

3.4 DEEP BEDROCK MONITOR WELLS

BR-08 is the deep bedrock well located in the South TCE Source Area, while BR-14 is located in the North TCE Source Area. BR-08 concentrations of TCE-related products remained consistent from the March event with TCE decreasing from 528 to 463 µg/L, cis-1,2-DCE concentrations rising slightly from 212 to 220 µg/L, trans-1,2-DCE concentrations remaining constant at 2.8 µg/L, and vinyl chloride remaining not detected. BR-14 had no detections of TCE related products.

In addition to these detections, there were several other compounds detected. BR-08 displayed detections of acetone (434 µg/L), benzene (2.8 µg/L), (toluene (9.0 µg/L), and total xylenes (8.0 µg/L). BR-14 had detections of acetone (188 µg/L) and toluene (6.8 µg/L). None of these compounds were determined to be contaminants of concern for this site and have not been detected historically in on-site monitor wells. Acetone has no listed MCL and is a known laboratory artifact. Since acetone was not determined to be a contaminant of concern for this site and has not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

3.5 POTENTIOMETRIC SURFACE

A potentiometric surface map was generated to depict groundwater elevations for the overburden groundwater. Surfer™ (Version 7.0), a Windows-based program, was used to plot the potentiometric surface map in Appendix A, Figure 4. This program mathematically calculates contours based upon groundwater elevation measurements collected in the field.

The September 2002 map was based upon water level information collected during the course of sampling activities on the subject site. Overburden potentiometric surface mapping for the September 2002 event agrees with past mapping, which indicates that groundwater flow is being directly affected by pumping conditions.

Attempts were 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 a supposition that bedrock flow is generally towards the north. Bedrock water level elevations are presented in Figure 5 in Appendix A.

3.6 NATURAL BIODEGRADATION

During the September 2002 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 3-4 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 3-4 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. Daughter products were not detected in TW-20. TW-20, having one parameter reading favorable for natural biodegradation, is at the northeast corner of the property. Concentrations of daughter products may be present in the vicinity of TW-20 at

concentrations less than the sample quantitation limits (SQLs) or daughter products may have completely degraded to non-toxic end products, such as CO₂, 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 3-4
Summary of Natural Biodegradation Results,
September 2002 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	1.66	0.53	1.75	8.05	2.52	1.44	0.67	0.38	82.1
Nitrate (mg/L)	<1	<0.10	42.2	<0.10	0.36	<0.10	<0.10	15.7	1.21	NA
Iron II (mg/L)	>1	1.53	0.37	7.71	0.16	0.33	0.69	<0.10	0.44	NA
Sulfate (mg/L)	<20	231	322	371	91	80	71	538	306	NA
Sulfide (mg/L)	>1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA
Methane (mg/L)	>0.5	<0.026	<0.026	0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
ORP (mV)	<50	-143	-48	-79	-29	-48	-152	-129	-78	-18
pH	5<pH<9	7.11	6.85	7.00	7.00	7.05	7.03	7.44	7.12	77.66
TOC (mg/L)	>20	<1.00	5.39	2.62	3.03	1.29	<1.00	4.92	1.52	NA
Temperature (°C)	>20	18.76	17.95	20.62	16.24	16.44	17.98	18.86	19.90	20.46
CO ₂ (mg/L)	Note 1	23.3	52.4	29.8	25.5	27.6	40	21.8	18.2	5.8
Alkalinity (mg/L)	Note 1	268	368	230	337	375	369	170	256	225
Chloride (mg/L)	Note 1	11.5	94	4.34	13.3	17.6	11.1	90.5	11.4	16
BTEX (mg/L)	>0.1	<0.004	<0.026	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	NA
Ethene (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
Ethane (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
Daughter Products Detected	Any detection of daughter products	Yes	Yes	Yes	No	No	Yes	No	Yes	NA
See notes at end of table.										

Table 3-4 (Continued)
Summary of Natural Biodegradation Results,
September 2002 Sampling Event¹

Quarterly Progress Report
Third Quarter 2002
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.

DO = dissolved oxygen

mg/L = milligrams per liter

NA = not applicable

ORP = oxygen reduction potential

mV = millivolt

TOC = total organic compound

°C = degrees Celsius

CO₂ = carbon dioxide

BTEX= benzene, toluene, ethylbenzene, and xylene

DCE = dichloroethylene

VOC = volatile organic compound

J = estimated

EPA = Environmental Protection Agency (United States)

µg/L = micrograms per liter

TCE = trichloroethylene

3.7 TREATMENT SYSTEM PERFORMANCE

The System was fully operational on January 6, 2001. Since then, it has operated 95 percent of available hours through September 2002. The system has operated 99 percent of available hours through the first, and second quarters of operation in 2002. The limited downtime during the first and second quarters of operation is attributed to routine O&M. The system operated 89% of available hours during the third quarter 2002. The downtime was associated with repair needed to be completed for one vacuum pump and programming problems with the programmable logic controller. Table 3-5 provides a summary of quarterly System operational data. The System is currently extracting soil vapor and groundwater from 23 dual-phase vacuum extraction (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, 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 24.6 million gallons of groundwater through September 2002.

During the third quarter of operation in 2002, 2.8 million gallons of groundwater was extracted with an average flow rate of 23 gallons per minute, and a total of 150 pounds of VOCs were removed from the subsurface (see Figures 6 and 7, Appendix A). A total of 2,583 pounds of contaminants have been removed since startup of the system. The majority of VOCs are still being removed from the overburden through the vapor phase and stripped from groundwater during the vacuum extraction process. During the third quarter of operation in 2002, approximately 135 pounds (90 percent) of VOCs were removed by the vacuum extraction process and the remaining 15 pounds (10 percent) was removed by air stripping of the collected groundwater. Table 3-6 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 quarterly mass of VOCs extracted by the treatment system has decreased during the third quarter of operation in 2002. This is mostly attributed to a decrease in system flowrates and downtime of one vacuum pump.

Table 3-5
System Operational Summary,
January 2001 – September 2002

Quarterly Progress Report
Third Quarter 2002
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
Cumulative Groundwater Recovered (gallons) ²	3,833,248	7,178,379	10,454,171	13,711,132

See notes at end of table.

Table 3-5 (Continued)
System Operational Summary,
January 2001 – September 2002

Quarterly Progress Report
Third Quarter 2002
Former Taylor Instruments Site
Rochester, New York

Parameter	2002				
	1 st Quarter	2 nd Quarter	3 rd Quarter		
			July	August	September
System Up-time (%)	99.3	99.3	99	99	70
Average System Vacuum ¹					
South Source Area (in. Hg)	18	21	17	15	18
North Source Area (in. Hg)	17	22.5	21	4 ⁴	16
Average System Groundwater Flowrates ²					
Total System (gpm)	24	28	25	23	21
Dual Phase Extraction (gpm)	7	11	8	7	6
Bedrock Extraction (gpm)	17	17	17	16	15
Average System Vapor Flowrates ¹					
Dual Phase Extraction South Source Area (CFM)	167	128	165	180	150
Dual Phase Extraction North Source Area (CFM)	113	100	100	4 ⁴	120
System Mass Removal Rate (lbs./hr) ³	0.03	0.06	0.04	0.02	0.01
System Mass Removed (lbs.) ³	145	453	81	45	24
Cumulative Mass Removed (lbs.) ³	1,979	2,432	2,514	2,559	2,583
Air Stripper Removal Efficiency (%) ³	99.7	99.4	99.9	99.9	99.9
Cumulative Groundwater Recovered (gallons) ²	16,748,105	21,828,378	22,994,001	23,989,054	24,62409

¹ Instantaneous.

² Continuous.

³ Calculated.

⁴ Vacuum pump down for repairs.

Notes: in. Hg = inches of mercury
CFM = cubic feet per minute
lbs./hr = pounds per hour

gpm = gallons per minute
lbs. = pounds

Table 3-6
System Analytical Data,
January 2001 – September 2002

Quarterly Progress Report
Third Quarter 2002
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
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

See notes at end of table.

Table 3-6 (Continued)
System Analytical Data,
January 2001 – September 2002

Quarterly Progress Report
Third Quarter 2002
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
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
See notes at end of table.					

Table 3-6 (Continued)
System Analytical Data,
January 2001 – September 2002

Quarterly Progress Report
Third Quarter 2002
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

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

² Groundwater Analysis is by EPA Method 8260.

Notes: µg/L = micrograms per liter
DCE = dichloroethylene
EPA = Environmental Protection Agency (United States)
mg/m³ = milligrams per cubic meter
NS = Vacuum Pump #2 was not sampled because it was shut down due to mechanical problems.
TCE = trichloroethylene

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 September 2002 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.

BR-06

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0526	105	0.0564	6.97	78-132	15
Chlorobenzene	0.0514	103	0.0542	5.30	79-124	16
1,1-Dichloroethylene	0.0484	97	0.0512	5.62	68-141	19
Toluene	0.0528	106	0.0562	6.24	77-134	16
Trichloroethene	0.0520	104	0.0565	8.29	73-137	20
Tetrachloroethene	0.0494	99	0.0534	7.78	72-136	23

Note: mg/L = milligrams per liter

OB-07

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0557	111	0.0559	0.36	78 – 132	15
Chlorobenzene	0.0567	113	0.0540	4.88	79 – 124	16
1,1-Dichloroethene	0.0586	117	0.0598	2.03	68 – 141	19
Toluene	0.0718	115	0.0743	3.42	77 – 134	16
Trichloroethene	0.0592	118	0.0573	3.26	73 – 137	20
Tetrachloroethene	0.0550	110	0.0577	4.79	72 – 136	23

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 September 2002 sampling event. Field duplicate precision is presented in the following tables.

Sample ID	Analyte	Practical Quantitation Limit	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
BR-07	Benzene	2	6.5		6.4		1.55
	cis-1,2-Dichloroethene	2	27.3		28.5		4.30
	trans-1,2-Dichloroethene	2	14.8		15.2		2.67
	Trichloroethene	2	4.0		2.8		35.29
	Vinyl chloride	2	119		110		7.86
W-5	cis-1,2-Dichloroethene	2	49.6		48.5		2.24
	trans-1,2-Dichloroethene	2	ND		4.7		130
	Trichloroethene	2	960		676		34.72

ND = not detected

Although there is a high RPD for trans-1,2-dichloroethene, the concentrations in these duplicate samples were low. Therefore, the 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 September 2002 event were analyzed to characterize the water source used during these sampling events. Potable water was used by the field crews for field blanks. No 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 September 2002 event. No 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

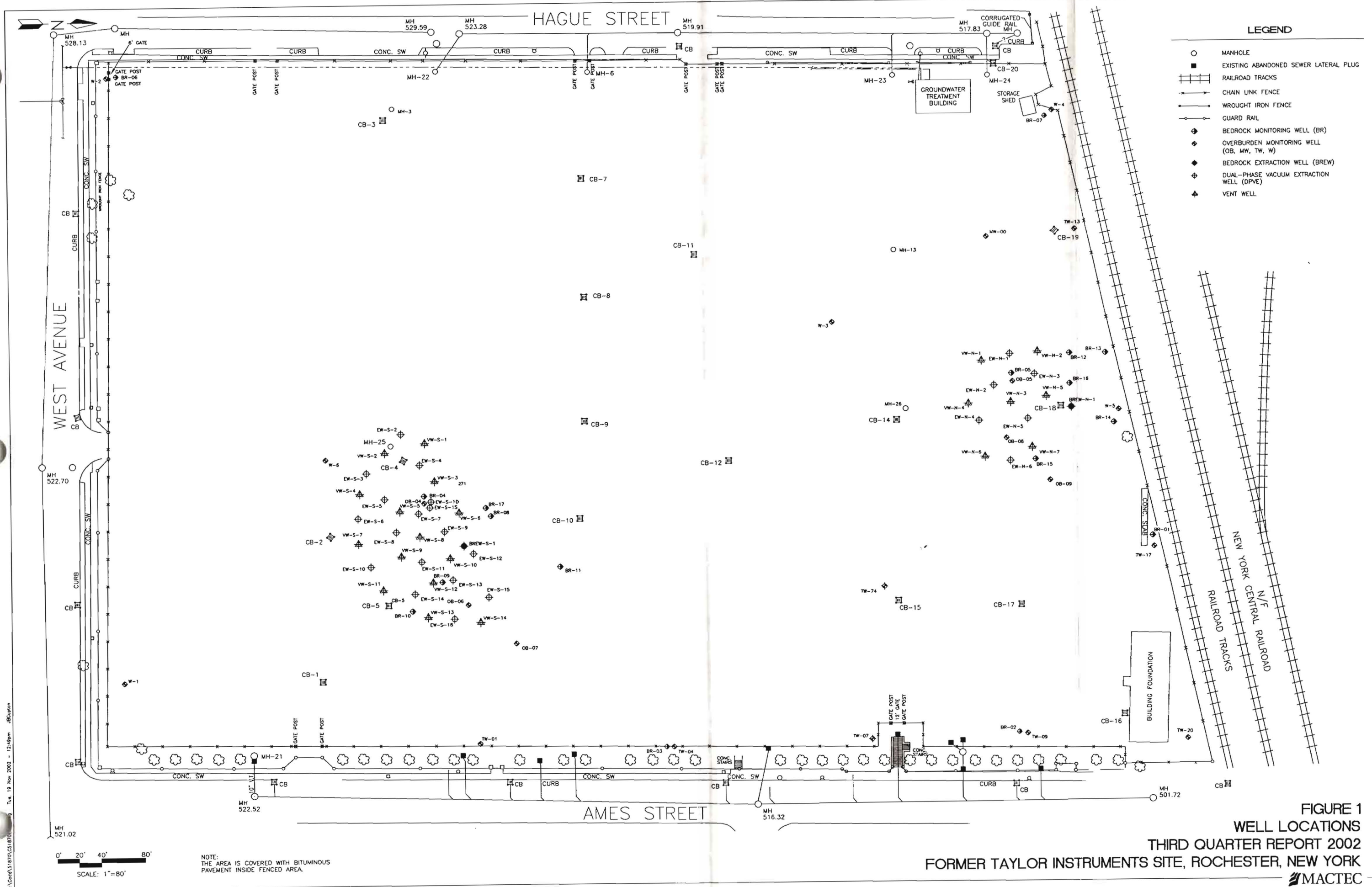
A comparison of analytical data from the 2001 sampling events (Baseline; first quarterly [March], second quarterly [June]; third quarterly [September]; fourth quarterly [December]) and the 2002 sampling events (first quarterly [March]; second quarterly [June] and third quarterly [September]) provides an evaluation of the System performance. The System has been successful in removing VOC contaminants from the subsurface as indicated by the groundwater monitoring data and mass removal quantities. Overall decreases in TCE concentrations have been observed in both the South and North TCE Source Areas. A decrease is also evident in the system influent data. The performance of the System will continue to be tracked through future quarterly sampling events.

6.0 REFERENCES

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- Harding ESE. 2001. *Quarterly Progress Report, Second Quarter 2001, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (August).
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- Harding ESE. 2002. *Quarterly Progress Report, First Quarter 2002, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (April).
- Harding ESE. 2002. *Quarterly Progress Report, Second Quarter 2002, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (July).
- NYSDEC. 1997. Voluntary Cleanup Agreement regarding the Taylor Instruments Site, Number B8-0508-97-02 (November).

APPENDIX A

FIGURES



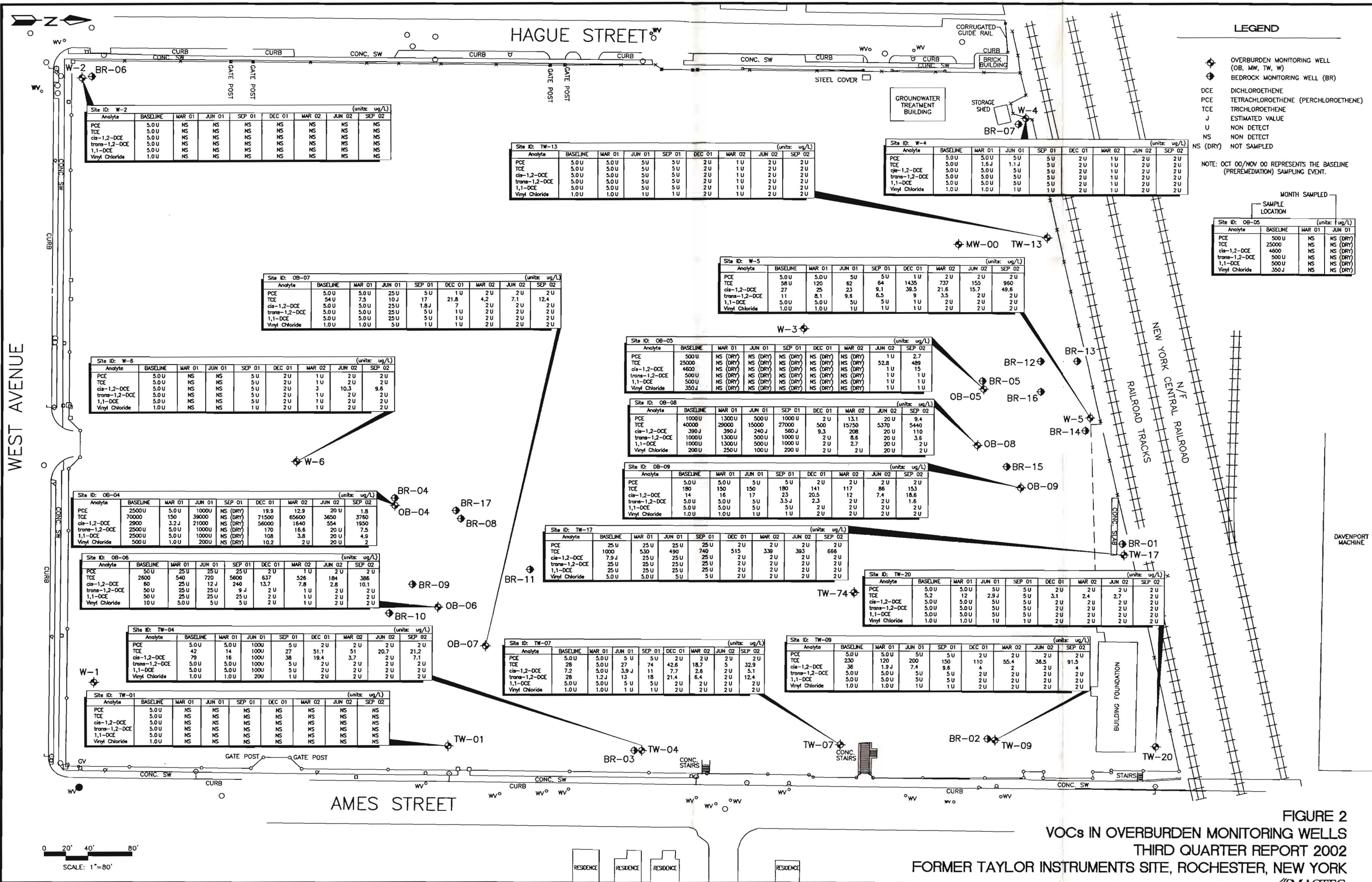
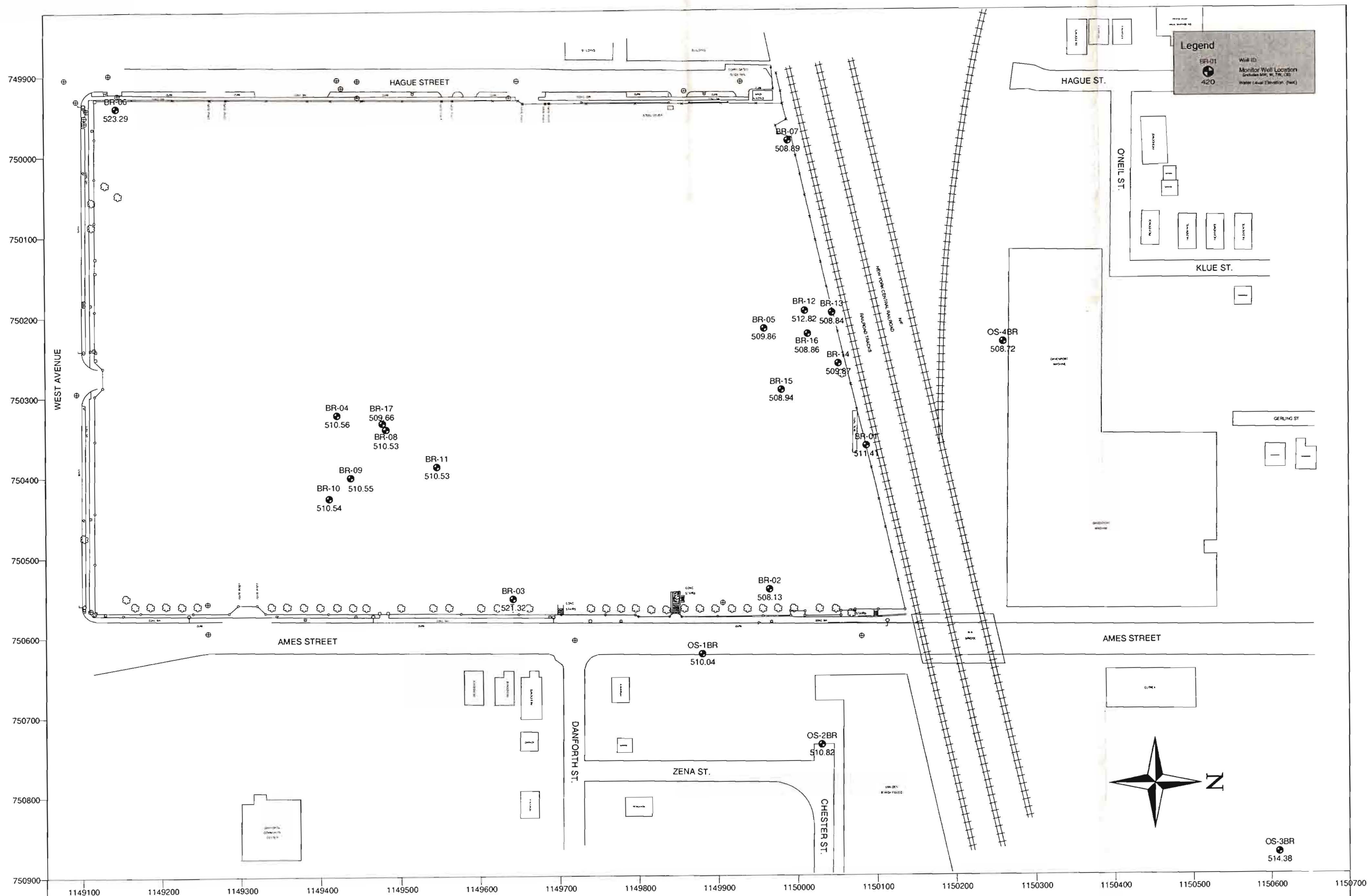


FIGURE 2
VOCs IN OVERBURDEN MONITORING WELLS
THIRD QUARTER REPORT 2002
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
MACTEC







Note: Data for Monitor Wells OS-1BR, OS-2BR, OS-3BR, and OS-4BR was provided by Haley and Aldrich of New York. Data collected on September 17, 2002

FIGURE 5
BEDROCK GROUNDWATER ELEVATIONS
QUARTERLY REPORT (SEPTEMBER 2002)
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

Figure 6
Average Groundwater Flowrates

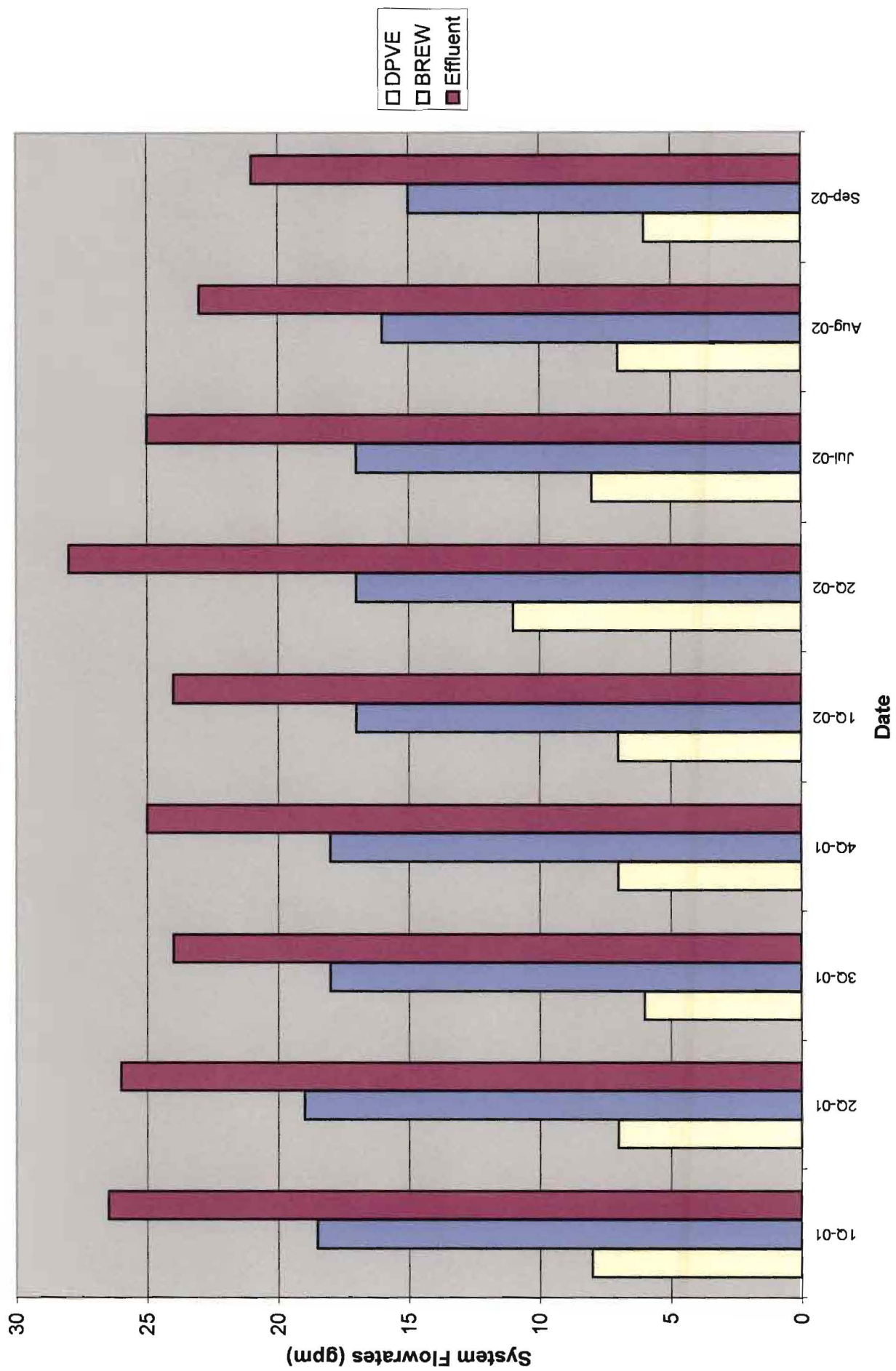
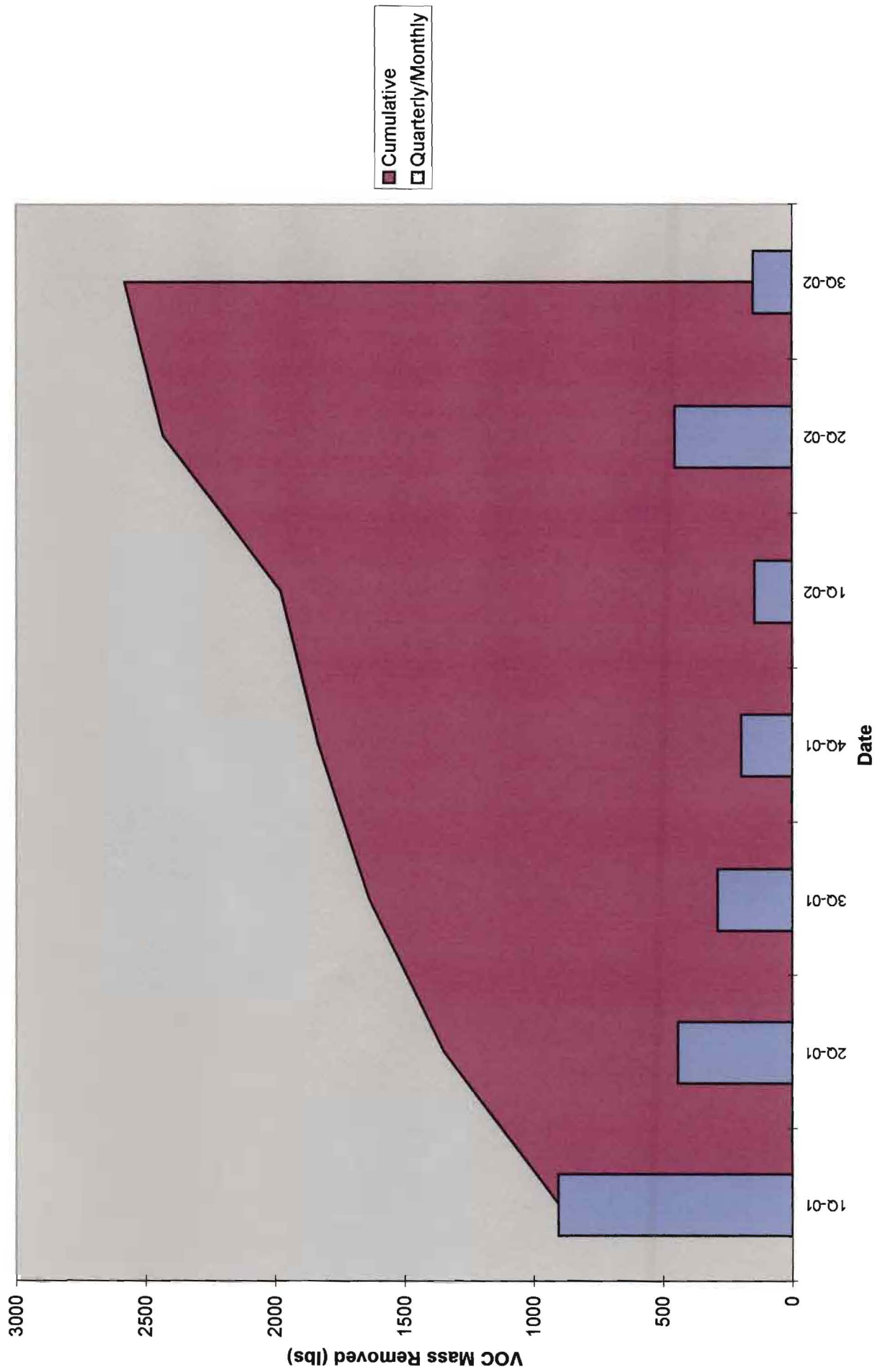


Figure 7
TCE Mass Removed



APPENDIX B

LABORATORY REPORTS

September 17, 2002
Analytical Data

TestAmerica

INCORPORATED

9/26/02

HARDING ESE 4997
RICK RYAN
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 301365. 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.

Sample Identification	Lab Number	Collection Date
-----	-----	-----
QATB01	02-A152530	9/17/02
QAFB01	02-A152531	9/17/02
QARB01	02-A152532	9/17/02
W-2	02-A152533	9/17/02
TW-04	02-A152534	9/17/02

These results relate only to the items tested.
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Report Approved By:



Report Date: 9/26/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

HARDING ESE 4997
 RICK RYAN
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A152530
 Sample ID: QATB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA P.

Date Collected: 9/17/02
 Time Collected: 11:15
 Date Received: 9/18/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/25/02	14:07	B.Herford	8260B	9909
Benzene	ND	mg/l	0.0010	1	9/25/02	14:07	B.Herford	8260B	9909
Bromobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Bromochloromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Bromoform	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Bromomethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
2-Butanone	ND	mg/l	0.0500	1	9/25/02	14:07	B.Herford	8260B	9909
n-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
sec-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
t-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Carbon disulfide	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Carbon tetrachloride	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Chlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Chloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Chloroform	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Chloromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
2-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
4-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/25/02	14:07	B.Herford	8260B	9909
Dibromochloromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Dibromomethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152530
Sample ID: QATB01
Project: 51870.7
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	9/25/02	14:07	B.Herford	8260B	9909
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Ethylbenzene	ND	mg/l	0.0010	1	9/25/02	14:07	B.Herford	8260B	9909
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
2-Hexanone	ND	mg/l	0.0100	1	9/25/02	14:07	B.Herford	8260B	9909
Isopropylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/25/02	14:07	B.Herford	8260B	9909
Methylene chloride	ND	mg/l	0.00500	1	9/25/02	14:07	B.Herford	8260B	9909
Naphthalene	ND	mg/l	0.00500	1	9/25/02	14:07	B.Herford	8260B	9909
n-Propylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Styrene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Tetrachloroethene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Toluene	ND	mg/l	0.0010	1	9/25/02	14:07	B.Herford	8260B	9909
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Trichloroethene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/25/02	14:07	B.Herford	8260B	9909
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Vinyl chloride	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909
Xylenes (Total)	ND	mg/l	0.0010	1	9/25/02	14:07	B.Herford	8260B	9909
Bromodichloromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152530
Sample ID: QATB01
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/25/02	14:07	B.Herford	8260B	9909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	95.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	95.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
 RICK RYAN
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A152531
 Sample ID: QAFB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA P.

Date Collected: 9/17/02
 Time Collected: 11:20
 Date Received: 9/18/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/25/02	14:38	B.Herford	8260B	9909
Benzene	ND	mg/l	0.0010	1	9/25/02	14:38	B.Herford	8260B	9909
Bromobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Bromochloromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Bromoform	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Bromomethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
2-Butanone	ND	mg/l	0.0500	1	9/25/02	14:38	B.Herford	8260B	9909
n-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
sec-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
t-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Carbon disulfide	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Carbon tetrachloride	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Chlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Chloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Chloroform	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Chloromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
2-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
4-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/25/02	14:38	B.Herford	8260B	9909
Dibromochloromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Dibromomethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152531
Sample ID: QAFB01
Project: 51870.7
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	9/25/02	14:38	B.Herford	8260B	9909
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Ethylbenzene	ND	mg/l	0.0010	1	9/25/02	14:38	B.Herford	8260B	9909
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
2-Hexanone	ND	mg/l	0.0100	1	9/25/02	14:38	B.Herford	8260B	9909
Isopropylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/25/02	14:38	B.Herford	8260B	9909
Methylene chloride	ND	mg/l	0.00500	1	9/25/02	14:38	B.Herford	8260B	9909
Naphthalene	ND	mg/l	0.00500	1	9/25/02	14:38	B.Herford	8260B	9909
n-Propylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Styrene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Tetrachloroethene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Toluene	ND	mg/l	0.0010	1	9/25/02	14:38	B.Herford	8260B	9909
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Trichloroethene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/25/02	14:38	B.Herford	8260B	9909
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Vinyl chloride	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909
Xylenes (Total)	ND	mg/l	0.0010	1	9/25/02	14:38	B.Herford	8260B	9909
Bromodichloromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152531
 Sample ID: QAFB01
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/25/02	14:38	B.Herford	8260B	9909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	73. - 133.
VOA Surr Toluene-d8	93.	80. - 121.
VOA Surr, 4-BFB	90.	80. - 128.
VOA Surr, DBFM	95.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
 RICK RYAN
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A152532
 Sample ID: QARB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA P.

Date Collected: 9/17/02
 Time Collected: 11:25
 Date Received: 9/18/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/25/02	15:10	B.Herford	8260B	9909
Benzene	ND	mg/l	0.0010	1	9/25/02	15:10	B.Herford	8260B	9909
Bromobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Bromochloromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Bromoform	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Bromomethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
2-Butanone	ND	mg/l	0.0500	1	9/25/02	15:10	B.Herford	8260B	9909
n-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
sec-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
t-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Carbon disulfide	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Carbon tetrachloride	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Chlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Chloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Chloroform	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Chloromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
2-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
4-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/25/02	15:10	B.Herford	8260B	9909
Dibromochloromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Dibromomethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152532
Sample ID: QARB01
Project: 51870.7
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	9/25/02	15:10	B.Herford	8260B	9909
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Ethylbenzene	ND	mg/l	0.0010	1	9/25/02	15:10	B.Herford	8260B	9909
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
2-Hexanone	ND	mg/l	0.0100	1	9/25/02	15:10	B.Herford	8260B	9909
Isopropylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/25/02	15:10	B.Herford	8260B	9909
Methylene chloride	ND	mg/l	0.00500	1	9/25/02	15:10	B.Herford	8260B	9909
Naphthalene	ND	mg/l	0.00500	1	9/25/02	15:10	B.Herford	8260B	9909
n-Propylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Styrene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Tetrachloroethene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Toluene	ND	mg/l	0.0010	1	9/25/02	15:10	B.Herford	8260B	9909
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Trichloroethene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/25/02	15:10	B.Herford	8260B	9909
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Vinyl chloride	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909
Xylenes (Total)	ND	mg/l	0.0010	1	9/25/02	15:10	B.Herford	8260B	9909
Bromodichloromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152532
Sample ID: QARB01
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/25/02	15:10	B.Herford	8260B	9909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	95.	80. - 121.
VOA Surr, 4-BFB	90.	80. - 128.
VOA Surr, DBFM	97.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
 RICK RYAN
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A152533
 Sample ID: W-2
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA P.

Date Collected: 9/17/02
 Time Collected: 13:58
 Date Received: 9/18/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS									
Carbon Dioxide	5.8	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
MISCELLANEOUS CHEMISTRY									
Alkalinity as CaCO3	225.	mg/l	5.00	1	9/18/02	15:31	G. Baun	310.1	4073
Chloride	16.0	mg/l	1.00	1	9/21/02	10:34	A. Bamarni	9251	5710

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.

ANALYTICAL REPORT

HARDING ESE 4997
 RICK RYAN
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A152534
 Sample ID: TW-04
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA P.

Date Collected: 9/17/02
 Time Collected: 15:30
 Date Received: 9/18/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/25/02	15:42	B.Herford	8260B	9909
Benzene	ND	mg/l	0.0010	1	9/25/02	15:42	B.Herford	8260B	9909
Bromobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Bromochloromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Bromoform	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Bromomethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
2-Butanone	ND	mg/l	0.0500	1	9/25/02	15:42	B.Herford	8260B	9909
n-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
sec-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
t-Butylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Carbon disulfide	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Carbon tetrachloride	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Chlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Chloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Chloroform	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Chloromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
2-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
4-Chlorotoluene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/25/02	15:42	B.Herford	8260B	9909
Dibromochloromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Dibromomethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152534
Sample ID: TW-04
Project: 51870.7
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	9/25/02	15:42	B.Herford	8260B	9909
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
cis-1,2-Dichloroethene	0.00710	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Ethylbenzene	ND	mg/l	0.0010	1	9/25/02	15:42	B.Herford	8260B	9909
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
2-Hexanone	ND	mg/l	0.0100	1	9/25/02	15:42	B.Herford	8260B	9909
Isopropylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/25/02	15:42	B.Herford	8260B	9909
Methylene chloride	ND	mg/l	0.00500	1	9/25/02	15:42	B.Herford	8260B	9909
Naphthalene	ND	mg/l	0.00500	1	9/25/02	15:42	B.Herford	8260B	9909
n-Propylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Styrene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Tetrachloroethene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Toluene	ND	mg/l	0.0010	1	9/25/02	15:42	B.Herford	8260B	9909
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Trichloroethene	0.0212	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/25/02	15:42	B.Herford	8260B	9909
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Vinyl chloride	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
Xylenes (Total)	ND	mg/l	0.0010	1	9/25/02	15:42	B.Herford	8260B	9909
Bromodichloromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152534
Sample ID: TW-04
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/25/02	15:42	B.Herford	8260B	9909
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/23/02	13:47	K. Burritt	RSK175M	7907
Carbon Dioxide	23.3	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/23/02	13:47	K. Burritt	RSK175M	7907
Ethane	ND	mg/L	0.026	1	9/23/02	13:47	K. Burritt	RSK175M	7907
METALS									
Ferrous Iron	1.53	mg/l	0.100	1	9/18/02	21:34	Jacobsson	3500D	4066
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	9/18/02	18:27	A.Bamarni	353.2	4062
Sulfate	231.	mg/l	10.0	10	9/20/02	19:07	M.Shockley	9038	6953
Alkalinity as CaCO3	268.	mg/l	5.00	1	9/18/02	15:31	G. Baun	310.1	4073
Total Organic Carbon	ND	mg/l	1.00	1	9/18/02	16:24	Weatherly	415.1	4598
Sulfide	ND	mg/l	1.000	1	9/21/02	0:30	Abdullatef	376.1	5747
Chloride	11.5	mg/l	1.00	1	9/21/02	10:35	A.Bamarni	9251	5710

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	113.	73. - 133.
VOA Surr Toluene-d8	102.	80. - 121.
VOA Surr, 4-BFB	96.	80. - 128.
VOA Surr, DBFM	109.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A152534
Sample ID: TW-04
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0542	0.0500	108	78. - 132.	9909	BLANK
Chlorobenzene	mg/l	< 0.00020	0.0522	0.0500	104	79. - 124.	9909	BLANK
1,1-Dichloroethene	mg/l	< 0.00060	0.0525	0.0500	105	68. - 141.	9909	BLANK
Toluene	mg/l	< 0.0006	0.0532	0.0500	106	77. - 134.	9909	BLANK
Trichloroethene	mg/l	< 0.00040	0.0540	0.0500	108	73. - 137.	9909	BLANK
Tetrachloroethene	mg/l	< 0.00040	0.0516	0.0500	103	72. - 136.	9909	BLANK
VOA Surr 1,2-DCA-d4	% Rec				124	73. - 133.	9909	
VOA Surr Toluene-d8	% Rec				96	80. - 121.	9909	
VOA Surr, 4-BFB	% Rec				83	80. - 128.	9909	
VOA Surr, DBFM	% Rec				109	81. - 121.	9909	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	7.02	7.50	94	80 - 120	4062	02-A152534
Nitrate-N as N	mg/l	< 0.100	7.00	7.50	93	80 - 120	4062	02-A152534
Sulfate	mg/l	5.00	21.5	20.0	82	80 - 120	6953	02-A153100
Sulfide	mg/l	< 1.000	18.30	20.00	92	80 - 120	5747	02-A152364

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Methane	mg/L	< 0.026	1.27	1.33	95	40 - 140	7907	02-A152683

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Page: 2

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0542	0.0530	2.24	15.	9909
Chlorobenzene	mg/l	0.0522	0.0506	3.11	16.	9909
1,1-Dichloroethene	mg/l	0.0525	0.0536	2.07	19.	9909
Toluene	mg/l	0.0532	0.0526	1.13	16.	9909
Trichloroethene	mg/l	0.0540	0.0530	1.87	20.	9909
Tetrachloroethene	mg/l	0.0516	0.0532	3.05	23.	9909
VOA Surr 1,2-DCA-d4	% Rec		122.			9909
VOA Surr Toluene-d8	% Rec		98.			9909
VOA Surr, 4-BFB	% Rec		87.			9909
VOA Surr, DBFM	% Rec		108.			9909

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.27	1.25	1.59	50	7907
Ethene	mg/L	2.25	2.24	0.45	50	7907
Ethane	mg/L	2.43	2.42	0.41	50	7907

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	7.02	7.00	0.29	20	4062
Sulfate	mg/l	21.5	20.9	2.83	20	6953
Sulfide	mg/l	18.30	18.60	1.63	20	5747

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 3

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.200	80	60 - 154	9909
Benzene	mg/l	0.0500	0.0499	100	78 - 127	9909
Bromobenzene	mg/l	0.0500	0.0520	104	80 - 120	9909
Bromochloromethane	mg/l	0.0500	0.0532	106	66 - 137	9909
Bromoform	mg/l	0.0500	0.0492	98	66 - 129	9909
Bromomethane	mg/l	0.0500	0.0488	98	47 - 163	9909
2-Butanone	mg/l	0.250	0.223	89	75 - 140	9909
n-Butylbenzene	mg/l	0.0500	0.0586	117	61 - 131	9909
sec-Butylbenzene	mg/l	0.0500	0.0568	114	72 - 124	9909
t-Butylbenzene	mg/l	0.0500	0.0552	110	74 - 123	9909
Carbon disulfide	mg/l	0.0500	0.0466	93	67 - 138	9909
Carbon tetrachloride	mg/l	0.0500	0.0536	107	69 - 132	9909
Chlorobenzene	mg/l	0.0500	0.0488	98	81 - 120	9909
Chloroethane	mg/l	0.0500	0.0417	83	65 - 134	9909
Chloroform	mg/l	0.0500	0.0600	120	77 - 125	9909
Chloromethane	mg/l	0.0500	0.0514	103	43 - 142	9909
2-Chlorotoluene	mg/l	0.0500	0.0526	105	76 - 126	9909
4-Chlorotoluene	mg/l	0.0500	0.0528	106	79 - 123	9909
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0457	91	64 - 132	9909
Dibromochloromethane	mg/l	0.0500	0.0497	99	78 - 124	9909
1,2-Dibromoethane	mg/l	0.0500	0.0516	103	79 - 126	9909
Dibromomethane	mg/l	0.0500	0.0552	110	75 - 131	9909
1,2-Dichlorobenzene	mg/l	0.0500	0.0519	104	80 - 120	9909
1,3-Dichlorobenzene	mg/l	0.0500	0.0524	105	79 - 120	9909
1,4-Dichlorobenzene	mg/l	0.0500	0.0506	101	78 - 118	9909
Dichlorodifluoromethane	mg/l	0.0500	0.0688	138	45 - 149	9909
1,1-Dichloroethane	mg/l	0.0500	0.0510	102	73 - 128	9909
1,2-Dichloroethane	mg/l	0.0500	0.0620	124	71 - 135	9909
1,1-Dichloroethene	mg/l	0.0500	0.0487	97	72 - 128	9909
cis-1,2-Dichloroethene	mg/l	0.0500	0.0551	110	76 - 127	9909
trans-1,2-Dichloroethene	mg/l	0.0500	0.0498	100	71 - 131	9909

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 4

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dichloropropane	mg/l	0.0500	0.0511	102	75 - 127	9909
1,3-Dichloropropane	mg/l	0.0500	0.0530	106	81 - 128	9909
2,2-Dichloropropane	mg/l	0.0500	0.0545	109	45 - 145	9909
1,1-Dichloropropene	mg/l	0.0500	0.0537	107	76 - 127	9909
cis-1,3-Dichloropropene	mg/l	0.0500	0.0546	109	72 - 131	9909
trans-1,3-Dichloropropene	mg/l	0.0500	0.0503	101	69 - 131	9909
Ethylbenzene	mg/l	0.0500	0.0526	105	78 - 125	9909
Hexachlorobutadiene	mg/l	0.0500	0.0678	136 #	59 - 126	9909
2-Hexanone	mg/l	0.250	0.229	92	71 - 142	9909
Isopropylbenzene	mg/l	0.0500	0.0534	107	78 - 123	9909
4-Isopropyltoluene	mg/l	0.0500	0.0580	116	73 - 125	9909
4-Methyl-2-pentanone	mg/l	0.250	0.256	102	71 - 141	9909
Methylene chloride	mg/l	0.0500	0.0468	94	70 - 140	9909
Naphthalene	mg/l	0.0500	0.0492	98	52 - 140	9909
n-Propylbenzene	mg/l	0.0500	0.0525	105	75 - 125	9909
Styrene	mg/l	0.0500	0.0483	97	82 - 122	9909
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0546	109	85 - 123	9909
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0494	99	74 - 133	9909
Tetrachloroethene	mg/l	0.0500	0.0496	99	76 - 123	9909
Toluene	mg/l	0.0500	0.0506	101	78 - 127	9909
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0560	112	59 - 132	9909
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0580	116	60 - 133	9909
1,1,1-Trichloroethane	mg/l	0.0500	0.0609	122	74 - 128	9909
1,1,2-Trichloroethane	mg/l	0.0500	0.0505	101	85 - 125	9909
Trichloroethene	mg/l	0.0500	0.0495	99	78 - 125	9909
1,2,3-Trichloropropane	mg/l	0.0500	0.0506	101	75 - 130	9909
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0555	111	77 - 122	9909
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0549	110	75 - 125	9909
Vinyl chloride	mg/l	0.0500	0.0496	99	61 - 140	9909
Xylenes (Total)	mg/l	0.150	0.161	107	77 - 126	9909
Bromodichloromethane	mg/l	0.0500	0.0569	114	79 - 126	9909
Trichlorofluoromethane	mg/l	0.0500	0.0610	122	60 - 140	9909
Methane	mg/L	1.33	1.33	100	78 - 120	7907

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Ethene	mg/L	2.32	2.30	99	76 - 108	7907
Ethane	mg/L	2.50	2.46	98	77 - 111	7907
VOA Surr 1,2-DCA-d4	% Rec			112	73 - 133	9909
VOA Surr Toluene-d8	% Rec			95	80 - 121	9909
VOA Surr, 4-BFB	% Rec			89	80 - 128	9909
VOA Surr, DBFM	% Rec			103	81 - 121	9909

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.33	1.33	100	78 - 120	7907
Ethene	mg/L	2.32	2.30	99	76 - 108	7907
Ethane	mg/L	2.50	2.46	98	77 - 111	7907

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.50	100	90 - 110	4062
Sulfate	mg/l	25.0	24.4	98	90 - 110	6953
Total Organic Carbon	mg/l	200.	194.	97	90 - 110	4598
Sulfide	mg/l	20.00	20.00	100	90 - 110	5747
Chloride	mg/l	10.0	9.99	100	90 - 110	5710

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	1.80	1.79	0.56	15.	4062	02-A152605
Sulfate	mg/l	12.5	12.5	0.00	15.	6953	02-A154198
Chloride	mg/l	16.4	15.9	3.10	15.	5710	02-A152602

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

****VOA PARAMETERS****

Acetone	< 0.00470	mg/l	9909	9/25/02	13:27
Benzene	< 0.0005	mg/l	9909	9/25/02	13:27
Bromobenzene	< 0.00030	mg/l	9909	9/25/02	13:27
Bromochloromethane	< 0.00030	mg/l	9909	9/25/02	13:27
Bromoform	< 0.00060	mg/l	9909	9/25/02	13:27
Bromomethane	< 0.00060	mg/l	9909	9/25/02	13:27
2-Butanone	< 0.00310	mg/l	9909	9/25/02	13:27
n-Butylbenzene	< 0.00010	mg/l	9909	9/25/02	13:27
sec-Butylbenzene	< 0.00030	mg/l	9909	9/25/02	13:27
t-Butylbenzene	< 0.00030	mg/l	9909	9/25/02	13:27
Carbon disulfide	< 0.00020	mg/l	9909	9/25/02	13:27
Carbon tetrachloride	< 0.00040	mg/l	9909	9/25/02	13:27
Chlorobenzene	< 0.00020	mg/l	9909	9/25/02	13:27
Chloroethane	< 0.00100	mg/l	9909	9/25/02	13:27
Chloroform	< 0.00080	mg/l	9909	9/25/02	13:27
Chloromethane	< 0.00070	mg/l	9909	9/25/02	13:27
2-Chlorotoluene	< 0.00040	mg/l	9909	9/25/02	13:27
4-Chlorotoluene	< 0.00050	mg/l	9909	9/25/02	13:27
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	9909	9/25/02	13:27
Dibromochloromethane	< 0.00050	mg/l	9909	9/25/02	13:27
1,2-Dibromoethane	< 0.00040	mg/l	9909	9/25/02	13:27
Dibromomethane	< 0.00090	mg/l	9909	9/25/02	13:27
1,2-Dichlorobenzene	< 0.00020	mg/l	9909	9/25/02	13:27
1,3-Dichlorobenzene	< 0.00030	mg/l	9909	9/25/02	13:27

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
1,4-Dichlorobenzene	< 0.00040	mg/l	9909	9/25/02	13:27
Dichlorodifluoromethane	< 0.00050	mg/l	9909	9/25/02	13:27
1,1-Dichloroethane	< 0.00020	mg/l	9909	9/25/02	13:27
1,2-Dichloroethane	< 0.00060	mg/l	9909	9/25/02	13:27
1,1-Dichloroethene	< 0.00060	mg/l	9909	9/25/02	13:27
cis-1,2-Dichloroethene	< 0.00060	mg/l	9909	9/25/02	13:27
trans-1,2-Dichloroethene	< 0.00050	mg/l	9909	9/25/02	13:27
1,2-Dichloropropane	< 0.00040	mg/l	9909	9/25/02	13:27
1,3-Dichloropropane	< 0.00040	mg/l	9909	9/25/02	13:27
2,2-Dichloropropane	< 0.00040	mg/l	9909	9/25/02	13:27
1,1-Dichloropropene	< 0.00050	mg/l	9909	9/25/02	13:27
cis-1,3-Dichloropropene	< 0.00030	mg/l	9909	9/25/02	13:27
trans-1,3-Dichloropropene	< 0.00050	mg/l	9909	9/25/02	13:27
Ethylbenzene	< 0.0003	mg/l	9909	9/25/02	13:27
Hexachlorobutadiene	< 0.00080	mg/l	9909	9/25/02	13:27
2-Hexanone	< 0.00420	mg/l	9909	9/25/02	13:27
Isopropylbenzene	< 0.00040	mg/l	9909	9/25/02	13:27
4-Isopropyltoluene	< 0.00060	mg/l	9909	9/25/02	13:27
4-Methyl-2-pentanone	< 0.00490	mg/l	9909	9/25/02	13:27
Methylene chloride	< 0.00360	mg/l	9909	9/25/02	13:27
Naphthalene	< 0.00120	mg/l	9909	9/25/02	13:27
n-Propylbenzene	< 0.00030	mg/l	9909	9/25/02	13:27
Styrene	< 0.00040	mg/l	9909	9/25/02	13:27
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	9909	9/25/02	13:27
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	9909	9/25/02	13:27
Tetrachloroethene	< 0.00040	mg/l	9909	9/25/02	13:27
Toluene	< 0.0006	mg/l	9909	9/25/02	13:27
1,2,3-Trichlorobenzene	< 0.00100	mg/l	9909	9/25/02	13:27
1,2,4-Trichlorobenzene	< 0.00060	mg/l	9909	9/25/02	13:27
1,1,1-Trichloroethane	< 0.00070	mg/l	9909	9/25/02	13:27
1,1,2-Trichloroethane	< 0.00040	mg/l	9909	9/25/02	13:27
Trichloroethene	< 0.00040	mg/l	9909	9/25/02	13:27
1,2,3-Trichloropropane	< 0.00060	mg/l	9909	9/25/02	13:27

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2,4-Trimethylbenzene	< 0.0003	mg/l	9909	9/25/02	13:27
1,3,5-Trimethylbenzene	< 0.00100	mg/l	9909	9/25/02	13:27
Vinyl chloride	< 0.00050	mg/l	9909	9/25/02	13:27
Xylenes (Total)	< 0.0009	mg/l	9909	9/25/02	13:27
Bromodichloromethane	< 0.00030	mg/l	9909	9/25/02	13:27
Trichlorofluoromethane	< 0.00040	mg/l	9909	9/25/02	13:27
VOA Surr 1,2-DCA-d4	94.	% Rec	9909	9/25/02	13:27
VOA Surr Toluene-d8	93.	% Rec	9909	9/25/02	13:27
VOA Surr, 4-BFB	90.	% Rec	9909	9/25/02	13:27
VOA Surr, DBFM	92.	% Rec	9909	9/25/02	13:27

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	4062	9/18/02	18:24
Sulfate	< 1.00	mg/l	6953	9/20/02	19:07
Total Organic Carbon	< 1.00	mg/l	4598	9/18/02	16:24
Sulfide	< 1.000	mg/l	5747	9/21/02	0:30
Chloride	< 1.00	mg/l	5710	9/21/02	10:24

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Methane	< 0.026	mg/L	7907	9/23/02	13:04
Ethene	< 0.026	mg/L	7907	9/23/02	13:04
Ethane	< 0.026	mg/L	7907	9/23/02	13:04

- Value outside Laboratory historical or method prescribed QC limits.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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End of Report for Project 301365

September 18, 2002
Analytical Data

TestAmerica

INCORPORATED

9/25/02

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 301611. 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.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
TW-17	02-A153459	9/18/02
TW-07	02-A153460	9/18/02
TW-20	02-A153461	9/18/02
OB-09	02-A153462	9/18/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Report Date: 9/25/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A153459

Sample ID: TW-17

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEELER

Date Collected: 9/18/02

Time Collected: 9:00

Date Received: 9/19/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	1.00	20	9/24/02	15:23	B. Messay	8260B	262
Benzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Bromobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Bromochloromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Bromoform	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Bromomethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
2-Butanone	ND	mg/l	1.00	20	9/24/02	15:23	B. Messay	8260B	262
n-Butylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
sec-Butylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
t-Butylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Carbon disulfide	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Carbon tetrachloride	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Chlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Chloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Chloroform	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Chloromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
2-Chlorotoluene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
4-Chlorotoluene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2-Dibromo-3-chloropropane	ND	mg/l	0.200	20	9/24/02	15:23	B. Messay	8260B	262
Dibromochloromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2-Dibromoethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Dibromomethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2-Dichlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,3-Dichlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,4-Dichlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Dichlorodifluoromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153459
Sample ID: TW-17
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2-Dichloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1-Dichloroethene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
cis-1,2-Dichloroethene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
trans-1,2-Dichloroethene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2-Dichloropropane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,3-Dichloropropane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
2,2-Dichloropropane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1-Dichloropropene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
cis-1,3-Dichloropropene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
trans-1,3-Dichloropropene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Ethylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Hexachlorobutadiene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
2-Hexanone	ND	mg/l	0.200	20	9/24/02	15:23	B. Messay	8260B	262
Isopropylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
4-Isopropyltoluene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
4-Methyl-2-pentanone	ND	mg/l	0.200	20	9/24/02	15:23	B. Messay	8260B	262
Methylene chloride	ND	mg/l	0.100	20	9/24/02	15:23	B. Messay	8260B	262
Naphthalene	ND	mg/l	0.100	20	9/24/02	15:23	B. Messay	8260B	262
n-Propylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Styrene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Tetrachloroethene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Toluene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2,3-Trichlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2,4-Trichlorobenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1,1-Trichloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,1,2-Trichloroethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Trichloroethene	0.666	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2,3-Trichloropropane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,2,4-Trimethylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
1,3,5-Trimethylbenzene	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Vinyl chloride	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Xylenes (Total)	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
Bromodichloromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153459
Sample ID: TW-17
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.0200	20	9/24/02	15:23	B. Messay	8260B	262
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/23/02	13:53	K. Burritt	RSK175M	7907
Carbon Dioxide	25.5	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/23/02	13:53	K. Burritt	RSK175M	7907
Ethane	ND	mg/L	0.026	1	9/23/02	13:53	K. Burritt	RSK175M	7907
METALS									
Ferrous Iron	0.160	mg/l	0.100	1	9/19/02		Jacobsson	3500D	5046
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	0.360	mg/l	0.100	1	9/19/02	17:17	A.Bamarni	353.2	5039
Sulfate	91.0	mg/l	5.00	5	9/23/02	9:42	M.Shockley	9038	9300
Alkalinity as CaCO3	337.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	1.96	mg/l	1.00	1	9/20/02	3:08	L.Franklin	415.1	5741
Sulfide	ND	mg/l	1.000	1	9/21/02	0:30	Abdullatef	376.1	5747
Chloride	13.3	mg/l	1.00	1	9/21/02	10:42	A.Bamarni	325.2	5715

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	115.	80. - 128.
VOA Surr, DBFM	97.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153459
Sample ID: TW-17
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A153460
Sample ID: TW-07
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEELER

Date Collected: 9/18/02
Time Collected: 11:56
Date Received: 9/19/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/24/02	11:59	B. Messay	8260B	262
Benzene	ND	mg/l	0.0010	1	9/24/02	11:59	B. Messay	8260B	262
Bromobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Bromochloromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Bromoform	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Bromomethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
2-Butanone	ND	mg/l	0.0500	1	9/24/02	11:59	B. Messay	8260B	262
n-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
sec-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
t-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Carbon disulfide	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Carbon tetrachloride	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Chlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Chloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Chloroform	0.00110	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Chloromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
2-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
4-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/24/02	11:59	B. Messay	8260B	262
Dibromochloromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Dibromomethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153460
Sample ID: TW-07
Project: 51870.7
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	9/24/02	11:59	B. Messay	8260B	262
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
cis-1,2-Dichloroethene	0.00510	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
trans-1,2-Dichloroethene	0.0124	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Ethylbenzene	ND	mg/l	0.0010	1	9/24/02	11:59	B. Messay	8260B	262
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
2-Hexanone	ND	mg/l	0.0100	1	9/24/02	11:59	B. Messay	8260B	262
Isopropylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/24/02	11:59	B. Messay	8260B	262
Methylene chloride	ND	mg/l	0.00500	1	9/24/02	11:59	B. Messay	8260B	262
Naphthalene	ND	mg/l	0.00500	1	9/24/02	11:59	B. Messay	8260B	262
n-Propylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Styrene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Tetrachloroethene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Toluene	ND	mg/l	0.0010	1	9/24/02	11:59	B. Messay	8260B	262
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Trichloroethene	0.0329	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/24/02	11:59	B. Messay	8260B	262
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Vinyl chloride	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
Xylenes (Total)	ND	mg/l	0.0010	1	9/24/02	11:59	B. Messay	8260B	262
Bromodichloromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153460
Sample ID: TW-07
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/24/02	11:59	B. Messay	8260B	262
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/23/02	14:00	K. Burritt	RSK175M	7907
Carbon Dioxide	52.4	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/23/02	14:00	K. Burritt	RSK175M	7907
Ethane	ND	mg/L	0.026	1	9/23/02	14:00	K. Burritt	RSK175M	7907
METALS									
Ferrous Iron	0.370	mg/l	0.100	1	9/19/02		Jacobsson	3500D	5046
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	42.2	mg/l	0.500	5	9/19/02	17:29	A.Bamarni	353.2	5039
Sulfate	322.	mg/l	20.0	20	9/23/02	9:42	M.Shockley	9038	9300
Alkalinity as CaCO3	368.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	5.39	mg/l	1.00	1	9/20/02	3:08	L.Franklin	415.1	5741
Sulfide	ND	mg/l	1.000	1	9/21/02	0:30	Abdullatef	376.1	5747
Chloride	94.0	mg/l	5.00	5	9/21/02	12:03	A.Bamarni	325.2	5715

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	114.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153460
Sample ID: TW-07
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A153461
Sample ID: TW-20
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEELER

Date Collected: 9/18/02
Time Collected: 13:41
Date Received: 9/19/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/24/02	12:29	B. Messay	8260B	262
Benzene	ND	mg/l	0.0010	1	9/24/02	12:29	B. Messay	8260B	262
Bromobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Bromochloromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Bromoform	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Bromomethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
2-Butanone	ND	mg/l	0.0500	1	9/24/02	12:29	B. Messay	8260B	262
n-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
sec-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
t-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Carbon disulfide	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Carbon tetrachloride	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Chlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Chloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Chloroform	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Chloromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
2-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
4-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/24/02	12:29	B. Messay	8260B	262
Dibromochloromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Dibromomethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153461
 Sample ID: TW-20
 Project: 51870.7
 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	9/24/02	12:29	B. Messay	8260B	262
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Ethylbenzene	ND	mg/l	0.0010	1	9/24/02	12:29	B. Messay	8260B	262
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
2-Hexanone	ND	mg/l	0.0100	1	9/24/02	12:29	B. Messay	8260B	262
Isopropylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/24/02	12:29	B. Messay	8260B	262
Methylene chloride	ND	mg/l	0.00500	1	9/24/02	12:29	B. Messay	8260B	262
Naphthalene	ND	mg/l	0.00500	1	9/24/02	12:29	B. Messay	8260B	262
n-Propylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Styrene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Tetrachloroethene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Toluene	ND	mg/l	0.0010	1	9/24/02	12:29	B. Messay	8260B	262
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Trichloroethene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/24/02	12:29	B. Messay	8260B	262
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Vinyl chloride	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
Xylenes (Total)	ND	mg/l	0.0010	1	9/24/02	12:29	B. Messay	8260B	262
Bromodichloromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262

Report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153461

Sample ID: TW-20

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/24/02	12:29	B. Messay	8260B	262
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/23/02	14:10	K. Burritt	RSK175M	7907
Carbon Dioxide	27.6	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/23/02	14:10	K. Burritt	RSK175M	7907
Ethane	ND	mg/L	0.026	1	9/23/02	14:10	K. Burritt	RSK175M	7907
METALS									
Ferrous Iron	0.330	mg/l	0.100	1	9/19/02		Jacobsson	3500D	5046
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	9/19/02	17:19	A.Bamarni	353.2	5039
Sulfate	80.0	mg/l	5.00	5	9/23/02	9:42	M.Shockley	9038	9300
Alkalinity as CaCO3	375.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	1.29	mg/l	1.00	1	9/20/02	3:08	L. Franklin	415.1	5741
Sulfide	ND	mg/l	1.000	1	9/21/02	0:30	Abdullatef	376.1	5747
Chloride	17.6	mg/l	1.00	1	9/21/02	12:05	A.Bamarni	325.2	5715

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 133.
VOA Surr Toluene-d8	105.	80. - 121.
VOA Surr, 4-BFB	114.	80. - 128.
VOA Surr, DBFM	100.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153461
Sample ID: TW-20
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A153462

Sample ID: OB-09

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEELER

Date Collected: 9/18/02

Time Collected: 15:27

Date Received: 9/19/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/24/02	12:58	B. Messay	8260B	262
Benzene	ND	mg/l	0.0010	1	9/24/02	12:58	B. Messay	8260B	262
Bromobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Bromochloromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Bromoform	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Bromomethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
2-Butanone	ND	mg/l	0.0500	1	9/24/02	12:58	B. Messay	8260B	262
n-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
sec-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
t-Butylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Carbon disulfide	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Carbon tetrachloride	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Chlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Chloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Chloroform	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Chloromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
2-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
4-Chlorotoluene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/24/02	12:58	B. Messay	8260B	262
Dibromochloromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Dibromomethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153462
Sample ID: OB-09
Project: 51870.7
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	9/24/02	12:58	B. Messay	8260B	262
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
cis-1,2-Dichloroethene	0.0166	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
trans-1,2-Dichloroethene	0.00160	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Ethylbenzene	ND	mg/l	0.0010	1	9/24/02	12:58	B. Messay	8260B	262
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
2-Hexanone	ND	mg/l	0.0100	1	9/24/02	12:58	B. Messay	8260B	262
Isopropylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/24/02	12:58	B. Messay	8260B	262
Methylene chloride	ND	mg/l	0.00500	1	9/24/02	12:58	B. Messay	8260B	262
Naphthalene	ND	mg/l	0.00500	1	9/24/02	12:58	B. Messay	8260B	262
n-Propylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Styrene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Tetrachloroethene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Toluene	ND	mg/l	0.0010	1	9/24/02	12:58	B. Messay	8260B	262
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Trichloroethene	0.153	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/24/02	12:58	B. Messay	8260B	262
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Vinyl chloride	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
Xylenes (Total)	ND	mg/l	0.0010	1	9/24/02	12:58	B. Messay	8260B	262
Bromodichloromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153462
Sample ID: OB-09
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/24/02	12:58	B. Messay	8260B	262
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/23/02	14:13	K. Burritt	RSK175M	7907
Carbon Dioxide	18.2	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/23/02	14:13	K. Burritt	RSK175M	7907
Ethane	ND	mg/L	0.026	1	9/23/02	14:13	K. Burritt	RSK175M	7907
METALS									
Ferrous Iron	0.440	mg/l	0.100	1	9/19/02		Jacobsson	3500D	5046
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	1.21	mg/l	0.100	1	9/19/02	17:20	A.Bamarni	353.2	5039
Sulfate	306.	mg/l	10.0	10	9/23/02	9:42	M.Shockley	9038	9300
Alkalinity as CaCO3	256.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	1.52	mg/l	1.00	1	9/20/02	18:18	L.Franklin	415.1	6928
Sulfide	ND	mg/l	1.000	1	9/21/02	0:30	Abdullatef	376.1	5747
Chloride	11.4	mg/l	1.00	1	9/21/02	10:45	A.Bamarni	325.2	5715

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	114.	73. - 133.
VOA Surr Toluene-d8	125. #	80. - 121.
VOA Surr, 4-BFB	115.	80. - 128.
VOA Surr, DBFM	118.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A153462
Sample ID: OB-09
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0583	0.0500	117	78. - 132.	262	02-A154956
Chlorobenzene	mg/l	< 0.00100	0.0561	0.0500	112	79. - 124.	262	02-A154956
1,1-Dichloroethene	mg/l	< 0.00100	0.0559	0.0500	112	68. - 141.	262	02-A154956
Toluene	mg/l	< 0.0010	0.0770	0.0500	154#	77. - 134.	262	02-A154956
Trichloroethene	mg/l	< 0.00100	0.0530	0.0500	106	73. - 137.	262	02-A154956
Tetrachloroethene	mg/l	< 0.00100	0.0602	0.0500	120	72. - 136.	262	02-A154956
VOA Surr 1,2-DCA-d4	% Rec				96	73. - 133.	262	
VOA Surr Toluene-d8	% Rec				130	80. - 121.	262	
VOA Surr, 4-BFB	% Rec				112	80. - 128.	262	
VOA Surr, DBFM	% Rec				102	81. - 121.	262	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.230	7.82	7.50	101	80 - 120	5039	02-A153431
Nitrate-N as N	mg/l	0.230	7.80	7.50	101	80 - 120	5039	02-A153431
Sulfate	mg/l	33.5	69.4	40.0	90	80 - 120	9300	02-A154336
Total Organic Carbon	mg/l	1.52	20.8	20.0	96	80 - 120	6928	02-A153462
Sulfide	mg/l	< 1.000	18.30	20.00	92	80 - 120	5747	02-A152364
Chloride	mg/l	7.52	19.0	12.5	92	80 - 120	5715	02-A152603

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Page: 2

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sampl
Methane	mg/L	< 0.026	1.27	1.33	95	40 - 140	7907	02-A152683

Matrix Spike Duplicate

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

VOA PARAMETERS

Benzene	mg/l	0.0583	0.0584	0.17	15.	262
Chlorobenzene	mg/l	0.0561	0.0567	1.06	16.	262
1,1-Dichloroethene	mg/l	0.0559	0.0562	0.54	19.	262
Toluene	mg/l	0.0770	0.0771	0.13	16.	262
Trichloroethene	mg/l	0.0530	0.0543	2.42	20.	262
Tetrachloroethene	mg/l	0.0602	0.0604	0.33	23.	262
VOA Surr 1,2-DCA-d4	% Rec		94.			262
VOA Surr Toluene-d8	% Rec		127.			262
VOA Surr, 4-BFB	% Rec		113.			262
VOA Surr, DBFM	% Rec		99.			262

Matrix Spike Duplicate

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

MISC PARAMETERS

Methane	mg/L	1.27	1.25	1.59	50	7907
Ethene	mg/L	2.25	2.24	0.45	50	7907
Ethane	mg/L	2.43	2.42	0.41	50	7907

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 3

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	7.82	7.80	0.26	20	5039
Sulfate	mg/l	69.4	70.2	1.15	20	9300
Total Organic Carbon	mg/l	20.8	20.8	0.00	20	6928
Sulfide	mg/l	18.30	18.60	1.63	20	5747
Chloride	mg/l	19.0	19.1	0.52	20	5715

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.242	97	60 - 154	262
Benzene	mg/l	0.0500	0.0477	95	78 - 127	262
Bromobenzene	mg/l	0.0500	0.0554	111	80 - 120	262
Bromochloromethane	mg/l	0.0500	0.0448	90	66 - 137	262
Bromoform	mg/l	0.0500	0.0421	84	66 - 129	262
Bromomethane	mg/l	0.0500	0.0354	71	47 - 163	262
2-Butanone	mg/l	0.250	0.237	95	75 - 140	262
n-Butylbenzene	mg/l	0.0500	0.0426	85	61 - 131	262
sec-Butylbenzene	mg/l	0.0500	0.0456	91	72 - 124	262
t-Butylbenzene	mg/l	0.0500	0.0509	102	74 - 123	262
Carbon disulfide	mg/l	0.0500	0.0510	102	67 - 138	262
Carbon tetrachloride	mg/l	0.0500	0.0451	90	69 - 132	262
Chlorobenzene	mg/l	0.0500	0.0487	97	81 - 120	262
Chloroethane	mg/l	0.0500	0.0458	92	65 - 134	262
Chloroform	mg/l	0.0500	0.0473	95	77 - 125	262
Chloromethane	mg/l	0.0500	0.0585	117	43 - 142	262
2-Chlorotoluene	mg/l	0.0500	0.0579	116	76 - 126	262
4-Chlorotoluene	mg/l	0.0500	0.0494	99	79 - 123	262
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0378	76	64 - 132	262

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 4

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibromochloromethane	mg/l	0.0500	0.0499	100	78 - 124	262
1,2-Dibromoethane	mg/l	0.0500	0.0486	97	79 - 126	262
Dibromomethane	mg/l	0.0500	0.0554	111	75 - 131	262
1,2-Dichlorobenzene	mg/l	0.0500	0.0520	104	80 - 120	262
1,3-Dichlorobenzene	mg/l	0.0500	0.0537	107	79 - 120	262
1,4-Dichlorobenzene	mg/l	0.0500	0.0508	102	78 - 118	262
Dichlorodifluoromethane	mg/l	0.0500	0.0580	116	45 - 149	262
1,1-Dichloroethane	mg/l	0.0500	0.0495	99	73 - 128	262
1,2-Dichloroethane	mg/l	0.0500	0.0450	90	71 - 135	262
1,1-Dichloroethene	mg/l	0.0500	0.0449	90	72 - 128	262
cis-1,2-Dichloroethene	mg/l	0.0500	0.0489	98	76 - 127	262
trans-1,2-Dichloroethene	mg/l	0.0500	0.0494	99	71 - 131	262
1,2-Dichloropropane	mg/l	0.0500	0.0502	100	75 - 127	262
1,3-Dichloropropane	mg/l	0.0500	0.0651	130 #	81 - 128	262
2,2-Dichloropropane	mg/l	0.0500	0.0483	97	45 - 145	262
1,1-Dichloropropene	mg/l	0.0500	0.0494	99	76 - 127	262
cis-1,3-Dichloropropene	mg/l	0.0500	0.0595	119	72 - 131	262
trans-1,3-Dichloropropene	mg/l	0.0500	0.0550	110	69 - 131	262
Ethylbenzene	mg/l	0.0500	0.0468	94	78 - 125	262
Hexachlorobutadiene	mg/l	0.0500	0.0478	96	59 - 126	262
2-Hexanone	mg/l	0.250	0.263	105	71 - 142	262
Isopropylbenzene	mg/l	0.0500	0.0475	95	78 - 123	262
4-Isopropyltoluene	mg/l	0.0500	0.0446	89	73 - 125	262
4-Methyl-2-pentanone	mg/l	0.250	0.254	102	71 - 141	262
Methylene chloride	mg/l	0.0500	0.0467	93	70 - 140	262
Naphthalene	mg/l	0.0500	0.0462	92	52 - 140	262
n-Propylbenzene	mg/l	0.0500	0.0457	91	75 - 125	262
Styrene	mg/l	0.0500	0.0437	87	82 - 122	262
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0498	100	85 - 123	262
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0485	97	74 - 133	262
Tetrachloroethene	mg/l	0.0500	0.0511	102	76 - 123	262
Toluene	mg/l	0.0500	0.0615	123	78 - 127	262
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0458	92	59 - 132	262

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 5

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0428	86	60 - 133	262
1,1,1-Trichloroethane	mg/l	0.0500	0.0453	91	74 - 128	262
1,1,2-Trichloroethane	mg/l	0.0500	0.0614	123	85 - 125	262
Trichloroethene	mg/l	0.0500	0.0407	81	78 - 125	262
1,2,3-Trichloropropane	mg/l	0.0500	0.0486	97	75 - 130	262
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0485	97	77 - 122	262
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0468	94	75 - 125	262
Vinyl chloride	mg/l	0.0500	0.0535	107	61 - 140	262
Xylenes (Total)	mg/l	0.150	0.136	91	77 - 126	262
Bromodichloromethane	mg/l	0.0500	0.0633	127 #	79 - 126	262
Trichlorofluoromethane	mg/l	0.0500	0.0444	89	60 - 140	262
Methane	mg/L	1.33	1.33	100	78 - 120	7907
Ethene	mg/L	2.32	2.30	99	76 - 108	7907
Ethane	mg/L	2.50	2.46	98	77 - 111	7907
VOA Surr 1,2-DCA-d4	% Rec			89	73 - 133	262
VOA Surr Toluene-d8	% Rec			120	80 - 121	262
VOA Surr, 4-BFB	% Rec			112	80 - 128	262
VOA Surr, DBFM	% Rec			94	81 - 121	262

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.33	100	78 - 120	7907
Ethene	mg/L	2.32	2.30	99	76 - 108	7907
Ethane	mg/L	2.50	2.46	98	77 - 111	7907

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Page: 6

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.70	104	90 - 110	5039
Sulfate	mg/l	25.0	24.6	98	90 - 110	9300
Total Organic Carbon	mg/l	200.	200.	100	90 - 110	5741
Total Organic Carbon	mg/l	200.	201.	100	90 - 110	6928
Sulfide	mg/l	20.00	20.00	100	90 - 110	5747
Chloride	mg/l	10.0	9.91	99	90 - 110	5715

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
-----	-----	-----	-----	-----	-----	-----	-----
Nitrate-N as N	mg/l	0.140	0.140	0.00	15.	5039	02-A153521
Sulfate	mg/l	< 1.00	< 1.00	N/A	15.	9300	02-A155251
Chloride	mg/l	6640	6640	0.00	15.	5715	02-A152409

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	262	9/24/02	11:01
Benzene	< 0.0005	mg/l	262	9/24/02	11:01
Bromobenzene	< 0.00030	mg/l	262	9/24/02	11:01
Bromochloromethane	< 0.00030	mg/l	262	9/24/02	11:01
Bromoform	< 0.00060	mg/l	262	9/24/02	11:01
Bromomethane	< 0.00060	mg/l	262	9/24/02	11:01
2-Butanone	< 0.00310	mg/l	262	9/24/02	11:01
n-Butylbenzene	< 0.00010	mg/l	262	9/24/02	11:01
sec-Butylbenzene	< 0.00030	mg/l	262	9/24/02	11:01
t-Butylbenzene	< 0.00030	mg/l	262	9/24/02	11:01
Carbon disulfide	< 0.00020	mg/l	262	9/24/02	11:01

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 7

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Carbon tetrachloride	< 0.00040	mg/l	262	9/24/02	11:01
Chlorobenzene	< 0.00020	mg/l	262	9/24/02	11:01
Chloroethane	< 0.00100	mg/l	262	9/24/02	11:01
Chloroform	< 0.00080	mg/l	262	9/24/02	11:01
Chloromethane	< 0.00070	mg/l	262	9/24/02	11:01
2-Chlorotoluene	< 0.00040	mg/l	262	9/24/02	11:01
4-Chlorotoluene	< 0.00050	mg/l	262	9/24/02	11:01
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	262	9/24/02	11:01
Dibromochloromethane	< 0.00050	mg/l	262	9/24/02	11:01
1,2-Dibromoethane	< 0.00040	mg/l	262	9/24/02	11:01
Dibromomethane	< 0.00090	mg/l	262	9/24/02	11:01
1,2-Dichlorobenzene	< 0.00020	mg/l	262	9/24/02	11:01
1,3-Dichlorobenzene	< 0.00030	mg/l	262	9/24/02	11:01
1,4-Dichlorobenzene	< 0.00040	mg/l	262	9/24/02	11:01
Dichlorodifluoromethane	< 0.00050	mg/l	262	9/24/02	11:01
1,1-Dichloroethane	< 0.00020	mg/l	262	9/24/02	11:01
1,2-Dichloroethane	< 0.00060	mg/l	262	9/24/02	11:01
1,1-Dichloroethene	< 0.00060	mg/l	262	9/24/02	11:01
cis-1,2-Dichloroethene	< 0.00060	mg/l	262	9/24/02	11:01
trans-1,2-Dichloroethene	< 0.00050	mg/l	262	9/24/02	11:01
1,2-Dichloropropane	< 0.00040	mg/l	262	9/24/02	11:01
1,3-Dichloropropane	< 0.00040	mg/l	262	9/24/02	11:01
2,2-Dichloropropane	< 0.00040	mg/l	262	9/24/02	11:01
1,1-Dichloropropene	< 0.00050	mg/l	262	9/24/02	11:01
cis-1,3-Dichloropropene	< 0.00030	mg/l	262	9/24/02	11:01
trans-1,3-Dichloropropene	< 0.00050	mg/l	262	9/24/02	11:01
Ethylbenzene	< 0.0003	mg/l	262	9/24/02	11:01
Hexachlorobutadiene	< 0.00080	mg/l	262	9/24/02	11:01
2-Hexanone	< 0.00420	mg/l	262	9/24/02	11:01
Isopropylbenzene	< 0.00040	mg/l	262	9/24/02	11:01
4-Isopropyltoluene	< 0.00060	mg/l	262	9/24/02	11:01
4-Methyl-2-pentanone	< 0.00490	mg/l	262	9/24/02	11:01
Methylene chloride	< 0.00360	mg/l	262	9/24/02	11:01

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 8

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	262	9/24/02	11:01
n-Propylbenzene	< 0.00030	mg/l	262	9/24/02	11:01
Styrene	< 0.00040	mg/l	262	9/24/02	11:01
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	262	9/24/02	11:01
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	262	9/24/02	11:01
Tetrachloroethene	< 0.00040	mg/l	262	9/24/02	11:01
Toluene	< 0.0006	mg/l	262	9/24/02	11:01
1,2,3-Trichlorobenzene	< 0.00100	mg/l	262	9/24/02	11:01
1,2,4-Trichlorobenzene	< 0.00060	mg/l	262	9/24/02	11:01
1,1,1-Trichloroethane	< 0.00070	mg/l	262	9/24/02	11:01
1,1,2-Trichloroethane	< 0.00040	mg/l	262	9/24/02	11:01
Trichloroethene	< 0.00040	mg/l	262	9/24/02	11:01
1,2,3-Trichloropropane	< 0.00060	mg/l	262	9/24/02	11:01
1,2,4-Trimethylbenzene	< 0.0003	mg/l	262	9/24/02	11:01
1,3,5-Trimethylbenzene	< 0.00100	mg/l	262	9/24/02	11:01
Vinyl chloride	< 0.00050	mg/l	262	9/24/02	11:01
Xylenes (Total)	< 0.0009	mg/l	262	9/24/02	11:01
Bromodichloromethane	< 0.00030	mg/l	262	9/24/02	11:01
Trichlorofluoromethane	< 0.00040	mg/l	262	9/24/02	11:01
VOA Surr 1,2-DCA-d4	92.	% Rec	262	9/24/02	11:01
VOA Surr Toluene-d8	102.	% Rec	262	9/24/02	11:01
VOA Surr, 4-BFB	116.	% Rec	262	9/24/02	11:01
VOA Surr, DBFM	98.	% Rec	262	9/24/02	11:01

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	5039	9/19/02	17:08
Sulfate	< 1.00	mg/l	9300	9/23/02	9:42
Total Organic Carbon	< 1.00	mg/l	5741	9/20/02	3:08

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.7
 Page: 9

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Total Organic Carbon	< 1.00	mg/l	6928	9/20/02	18:18
Sulfide	< 1.000	mg/l	5747	9/21/02	0:30
Chloride	< 1.00	mg/l	5715	9/21/02	10:35

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
MISC PARAMETERS					
Methane	< 0.026	mg/L	7907	9/23/02	13:04
Ethene	< 0.026	mg/L	7907	9/23/02	13:04
Ethane	< 0.026	mg/L	7907	9/23/02	13:04

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 301611

September 19, 2002
Analytical Data

TestAmerica

INCORPORATED

9/27/02

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 301801.

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.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
OB-7	02-A154313	9/19/02
W-5	02-A154314	9/19/02
TW-09	02-A154315	9/19/02
W-5 (DUP)	02-A154316	9/19/02
W-4	02-A154317	9/19/02
TW-13	02-A154318	9/19/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Paul E. Lane, Jr.

Report Date: 9/27/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A154313
Sample ID: OB-7
Sample Type: Ground water
Site ID:

Date Collected: 9/19/02
Time Collected: 8:50
Date Received: 9/20/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/22/02	22:20	A. Peeples	8260B	8573
Benzene	ND	mg/l	0.0010	1	9/22/02	22:20	A. Peeples	8260B	8573
Bromobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Bromochloromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Bromoform	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Bromomethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
2-Butanone	ND	mg/l	0.0500	1	9/22/02	22:20	A. Peeples	8260B	8573
n-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
sec-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
t-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Carbon disulfide	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Carbon tetrachloride	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Chlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Chloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Chloroform	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Chloromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
2-Chlorotoluene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
4-Chlorotoluene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/22/02	22:20	A. Peeples	8260B	8573
Dibromochloromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Dibromomethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154313
Sample ID: OB-7
Project: 51870.7
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	9/22/02	22:20	A. Peeples	8260B	8573
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Ethylbenzene	ND	mg/l	0.0010	1	9/22/02	22:20	A. Peeples	8260B	8573
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
2-Hexanone	ND	mg/l	0.0100	1	9/22/02	22:20	A. Peeples	8260B	8573
Isopropylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/22/02	22:20	A. Peeples	8260B	8573
Methylene chloride	ND	mg/l	0.00500	1	9/22/02	22:20	A. Peeples	8260B	8573
Naphthalene	ND	mg/l	0.00500	1	9/22/02	22:20	A. Peeples	8260B	8573
n-Propylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Styrene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Tetrachloroethene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Toluene	ND	mg/l	0.0010	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Trichloroethene	0.0124	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/22/02	22:20	A. Peeples	8260B	8573
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Vinyl chloride	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
Xylenes (Total)	ND	mg/l	0.0010	1	9/22/02	22:20	A. Peeples	8260B	8573
Bromodichloromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154313
Sample ID: OB-7
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/22/02	22:20	A. Peeples	8260B	8573
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/24/02	15:05	K. Burritt	RSK175M	7911
Carbon Dioxide	21.8	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/24/02	15:05	K. Burritt	RSK175M	7911
Ethane	ND	mg/L	0.026	1	9/24/02	15:05	K. Burritt	RSK175M	7911
METALS									
Ferrous Iron	ND	mg/l	0.100	1	9/20/02	18:34	Jacobsson	3500D	6188
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	15.7	mg/l	0.200	2	9/20/02	18:52	A.Bamarni	353.2	6182
Sulfate	538.	mg/l	25.0	25	9/23/02	9:42	M.Shockley	9038	9300
Alkalinity as CaCO3	170.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	4.92	mg/l	1.00	1	9/20/02	18:18	L.Franklin	415.1	6928
Sulfide	ND	mg/l	1.000	1	9/23/02	13:50	K. McLain	376.1	8186
Chloride	90.5	mg/l	5.00	5	9/21/02	12:09	A.Bamarni	9251	6956

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	110.	80. - 128.
VOA Surr, DBFM	95.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154313
Sample ID: OB-7
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A154314
Sample ID: W-5
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/19/02
Time Collected: 10:38
Date Received: 9/20/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/22/02	22:54	A. Peeples	8260B	8573
Benzene	ND	mg/l	0.0010	1	9/22/02	22:54	A. Peeples	8260B	8573
Bromobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Bromochloromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Bromoform	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Bromomethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
2-Butanone	ND	mg/l	0.0500	1	9/22/02	22:54	A. Peeples	8260B	8573
n-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
sec-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
t-Butylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Carbon disulfide	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Carbon tetrachloride	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Chlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Chloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Chloroform	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Chloromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
2-Chlorotoluene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
4-Chlorotoluene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/22/02	22:54	A. Peeples	8260B	8573
Dibromochloromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Dibromomethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154314
Sample ID: W-5
Project: 51870.7
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	9/22/02	22:54	A. Peeples	8260B	8573
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
cis-1,2-Dichloroethene	0.0496	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Ethylbenzene	ND	mg/l	0.0010	1	9/22/02	22:54	A. Peeples	8260B	8573
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
2-Hexanone	ND	mg/l	0.0100	1	9/22/02	22:54	A. Peeples	8260B	8573
Isopropylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/22/02	22:54	A. Peeples	8260B	8573
Methylene chloride	ND	mg/l	0.00500	1	9/22/02	22:54	A. Peeples	8260B	8573
Naphthalene	ND	mg/l	0.00500	1	9/22/02	22:54	A. Peeples	8260B	8573
n-Propylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Styrene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Tetrachloroethene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Toluene	ND	mg/l	0.0010	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Trichloroethene	0.960	mg/l	0.0500	50	9/23/02	10:17	A. Peeples	8260B	8586
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/22/02	22:54	A. Peeples	8260B	8573
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Vinyl chloride	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
Xylenes (Total)	ND	mg/l	0.0010	1	9/22/02	22:54	A. Peeples	8260B	8573
Bromodichloromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154314
Sample ID: W-5
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/22/02	22:54	A. Peeples	8260B	8573
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	9/24/02	15:14	K. Burritt	RSK175M	7911
Carbon Dioxide	40.0	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/24/02	15:14	K. Burritt	RSK175M	7911
Ethane	ND	mg/L	0.026	1	9/24/02	15:14	K. Burritt	RSK175M	7911
METALS									
Ferrous Iron	0.690	mg/l	0.100	1	9/20/02	18:34	Jacobsson	3500D	6188
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	9/20/02	18:27	A.Bamarni	353.2	6182
Sulfate	71.0	mg/l	5.00	5	9/25/02	12:40	M.Shockley	9038	250
Alkalinity as CaCO3	369.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	ND	mg/l	1.00	1	9/20/02	18:18	L.Franklin	415.1	6928
Sulfide	ND	mg/l	1.000	1	9/23/02	13:50	K. McLain	376.1	8186
Chloride	11.1	mg/l	1.00	1	9/21/02	10:53	A.Bamarni	9251	6956

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	120.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154314
Sample ID: W-5
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A154315
Sample ID: TW-09
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/19/02
Time Collected: 16:00
Date Received: 9/20/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/23/02	5:36	A. Peeples	8260B	8586
Benzene	ND	mg/l	0.0010	1	9/23/02	5:36	A. Peeples	8260B	8586
Bromobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Bromochloromethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Bromoform	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Bromomethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
2-Butanone	ND	mg/l	0.0500	1	9/23/02	5:36	A. Peeples	8260B	8586
n-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
sec-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
t-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Carbon disulfide	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Carbon tetrachloride	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Chlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Chloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Chloroform	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Chloromethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
2-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
4-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/23/02	5:36	A. Peeples	8260B	8586
Dibromochloromethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Dibromomethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154315
 Sample ID: TW-09
 Project: 51870.7
 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	9/23/02	5:36	A. Peeples	8260B	8586
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
cis-1,2-Dichloroethene	0.00400	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Ethylbenzene	ND	mg/l	0.0010	1	9/23/02	5:36	A. Peeples	8260B	8586
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
2-Hexanone	ND	mg/l	0.0100	1	9/23/02	5:36	A. Peeples	8260B	8586
Isopropylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/23/02	5:36	A. Peeples	8260B	8586
Methylene chloride	ND	mg/l	0.00500	1	9/23/02	5:36	A. Peeples	8260B	8586
Naphthalene	ND	mg/l	0.00500	1	9/23/02	5:36	A. Peeples	8260B	8586
n-Propylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Styrene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Tetrachloroethene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Toluene	ND	mg/l	0.0010	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Trichloroethene	0.0915	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/23/02	5:36	A. Peeples	8260B	8586
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Vinyl chloride	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586
Xylenes (Total)	ND	mg/l	0.0010	1	9/23/02	5:36	A. Peeples	8260B	8586
Bromodichloromethane	ND	mg/l	0.00100	1	9/23/02	5:36	A. Peeples	8260B	8586

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154315

Sample ID: TW-09

Project: 51870.7

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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	9/23/02	5:36	A. Peeples	8260B	8586
MISCELLANEOUS GC PARAMETERS									
Methane	0.026	mg/L	0.026	1	9/24/02	15:20	K. Burritt	RSK175M	7911
Carbon Dioxide	29.8	mg/l	3.0	1	9/21/02	2:41	T. Beverly	SM4500C02C	9643
Ethene	ND	mg/L	0.026	1	9/24/02	15:20	K. Burritt	RSK175M	7911
Ethane	ND	mg/L	0.026	1	9/24/02	15:20	K. Burritt	RSK175M	7911
METALS									
Ferrous Iron	7.71	mg/l	0.500	5	9/20/02	18:34	Jacobsson	3500D	6188
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	9/20/02	18:27	A.Bamarni	353.2	6182
Sulfate	371.	mg/l	10.0	10	9/25/02	12:40	M.Shockley	9038	250
Alkalinity as CaCO3	230.	mg/l	5.00	1	9/21/02	18:29	G. Baun	310.1	5698
Total Organic Carbon	2.62	mg/l	1.00	1	9/20/02	18:18	L.Franklin	415.1	6928
Sulfide	ND	mg/l	1.000	1	9/23/02	13:50	K. McLain	376.1	8186
Chloride	4.34	mg/l	1.00	1	9/21/02	10:54	A.Bamarni	9251	6956

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	111.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154315
Sample ID: TW-09
Project: 51870.7
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.
M - Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A154316
Sample ID: W-5 (DUP)
Sample Type: Ground water
Site ID:

Date Collected: 9/19/02
Time Collected: 11:01
Date Received: 9/20/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/23/02	6:09	A. Peeples	8260B	8586
Benzene	ND	mg/l	0.0010	1	9/23/02	6:09	A. Peeples	8260B	8586
Bromobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Bromochloromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Bromoform	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Bromomethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
2-Butanone	ND	mg/l	0.0500	1	9/23/02	6:09	A. Peeples	8260B	8586
n-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
sec-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
t-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Carbon disulfide	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Carbon tetrachloride	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Chlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Chloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Chloroform	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Chloromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
2-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
4-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/23/02	6:09	A. Peeples	8260B	8586
Dibromochloromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Dibromomethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154316
Sample ID: W-5 (DUP)
Project: 51870.7
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	9/23/02	6:09	A. Peeples	8260B	8586
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
cis-1,2-Dichloroethene	0.0485	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
trans-1,2-Dichloroethene	0.00470	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Ethylbenzene	ND	mg/l	0.0010	1	9/23/02	6:09	A. Peeples	8260B	8586
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
2-Hexanone	ND	mg/l	0.0100	1	9/23/02	6:09	A. Peeples	8260B	8586
Isopropylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/23/02	6:09	A. Peeples	8260B	8586
Methylene chloride	ND	mg/l	0.00500	1	9/23/02	6:09	A. Peeples	8260B	8586
Naphthalene	ND	mg/l	0.00500	1	9/23/02	6:09	A. Peeples	8260B	8586
n-Propylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Styrene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Tetrachloroethene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Toluene	ND	mg/l	0.0010	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Trichloroethene	0.676	mg/l	0.0200	20	9/23/02	10:51	A. Peeples	8260B	8593
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/23/02	6:09	A. Peeples	8260B	8586
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Vinyl chloride	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586
Xylenes (Total)	ND	mg/l	0.0010	1	9/23/02	6:09	A. Peeples	8260B	8586
Bromodichloromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154316
 Sample ID: W-5 (DUP)
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/23/02	6:09	A. Peeples	8260B	8586

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	121.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A154317

Sample ID: W-4

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/19/02

Time Collected: 14:25

Date Received: 9/20/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/23/02	6:43	A. Peeples	8260B	8586
Benzene	ND	mg/l	0.0010	1	9/23/02	6:43	A. Peeples	8260B	8586
Bromobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Bromochloromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Bromoform	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Bromomethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
2-Butanone	ND	mg/l	0.0500	1	9/23/02	6:43	A. Peeples	8260B	8586
n-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
sec-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
t-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Carbon disulfide	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Carbon tetrachloride	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Chlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Chloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Chloroform	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Chloromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
2-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
4-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/23/02	6:43	A. Peeples	8260B	8586
Dibromochloromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Dibromomethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586

Report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154317
Sample ID: W-4
Project: 51870.7
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	9/23/02	6:43	A. Peeples	8260B	8586
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Ethylbenzene	ND	mg/l	0.0010	1	9/23/02	6:43	A. Peeples	8260B	8586
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
2-Hexanone	ND	mg/l	0.0100	1	9/23/02	6:43	A. Peeples	8260B	8586
Isopropylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/23/02	6:43	A. Peeples	8260B	8586
Methylene chloride	ND	mg/l	0.00500	1	9/23/02	6:43	A. Peeples	8260B	8586
Naphthalene	ND	mg/l	0.00500	1	9/23/02	6:43	A. Peeples	8260B	8586
n-Propylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Styrene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Tetrachloroethene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Toluene	ND	mg/l	0.0010	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Trichloroethene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/23/02	6:43	A. Peeples	8260B	8586
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Vinyl chloride	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586
Xylenes (Total)	ND	mg/l	0.0010	1	9/23/02	6:43	A. Peeples	8260B	8586
Bromodichloromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154317
 Sample ID: W-4
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/23/02	6:43	A. Peeples	8260B	8586

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	112.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A154318
Sample ID: TW-13
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/19/02
Time Collected: 15:37
Date Received: 9/20/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/23/02	7:16	A. Peeples	8260B	8586
Benzene	ND	mg/l	0.0010	1	9/23/02	7:16	A. Peeples	8260B	8586
Bromobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Bromochloromethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Bromoform	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Bromomethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
2-Butanone	ND	mg/l	0.0500	1	9/23/02	7:16	A. Peeples	8260B	8586
n-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
sec-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
t-Butylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Carbon disulfide	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Carbon tetrachloride	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Chlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Chloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Chloroform	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Chloromethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
2-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
4-Chlorotoluene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/23/02	7:16	A. Peeples	8260B	8586
Dibromochloromethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Dibromomethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154318
Sample ID: TW-13
Project: 51870.7
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	9/23/02	7:16	A. Peeples	8260B	8586
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Ethylbenzene	ND	mg/l	0.0010	1	9/23/02	7:16	A. Peeples	8260B	8586
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
2-Hexanone	ND	mg/l	0.0100	1	9/23/02	7:16	A. Peeples	8260B	8586
Isopropylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/23/02	7:16	A. Peeples	8260B	8586
Methylene chloride	ND	mg/l	0.00500	1	9/23/02	7:16	A. Peeples	8260B	8586
Naphthalene	ND	mg/l	0.00500	1	9/23/02	7:16	A. Peeples	8260B	8586
n-Propylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Styrene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Tetrachloroethene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Toluene	ND	mg/l	0.0010	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Trichloroethene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/23/02	7:16	A. Peeples	8260B	8586
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Vinyl chloride	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586
Xylenes (Total)	ND	mg/l	0.0010	1	9/23/02	7:16	A. Peeples	8260B	8586
Bromodichloromethane	ND	mg/l	0.00100	1	9/23/02	7:16	A. Peeples	8260B	8586

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A154318

Sample ID: TW-13

Project: 51870.7

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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	9/23/02	7:16	A. Peeples	8260B	8586

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	109.	80. - 128.
VOA Surr, DBFM	94.	81. - 121.

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.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sampl
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0557	0.0500	111	78. - 132.	8573	02-A152803
Benzene	mg/l	< 0.0005	0.0542	0.0500	108	78. - 132.	8586	BLANK
Chlorobenzene	mg/l	< 0.00100	0.0567	0.0500	113	79. - 124.	8573	02-A152803
Chlorobenzene	mg/l	< 0.00020	0.0537	0.0500	107	79. - 124.	8586	BLANK
1,1-Dichloroethene	mg/l	< 0.00100	0.0586	0.0500	117	68. - 141.	8573	02-A152803
1,1-Dichloroethene	mg/l	< 0.00060	0.0591	0.0500	118	68. - 141.	8586	BLANK
Toluene	mg/l	0.0145	0.0718	0.0500	115	77. - 134.	8573	02-A152803
Toluene	mg/l	< 0.0006	0.0575	0.0500	115	77. - 134.	8586	BLANK
Trichloroethene	mg/l	< 0.00100	0.0592	0.0500	118	73. - 137.	8573	02-A152803
Trichloroethene	mg/l	< 0.00040	0.0686	0.0500	137#	73. - 137.	8586	BLANK
Tetrachloroethene	mg/l	< 0.00100	0.0550	0.0500	110	72. - 136.	8573	02-A152803
Tetrachloroethene	mg/l	< 0.00040	0.0540	0.0500	108	72. - 136.	8586	BLANK
VOA Surr 1,2-DCA-d4	% Rec				84	73. - 133.	8573	
VOA Surr 1,2-DCA-d4	% Rec				90	73. - 133.	8586	
VOA Surr Toluene-d8	% Rec				100	80. - 121.	8573	
VOA Surr Toluene-d8	% Rec				103	80. - 121.	8586	
VOA Surr, 4-BFB	% Rec				97	80. - 128.	8573	
VOA Surr, 4-BFB	% Rec				93	80. - 128.	8586	
VOA Surr, DBFM	% Rec				95	81. - 121.	8573	
VOA Surr, DBFM	% Rec				94	81. - 121.	8586	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	15.7	23.4	7.50	103	80 - 120	6182	02-A154313
Nitrate-N as N	mg/l	15.7	23.2	7.50	100	80 - 120	6182	02-A154313
Sulfate	mg/l	33.5	69.4	40.0	90	80 - 120	9300	02-A154336

ect QC continued . . .

PROJECT QUALITY CONTROL DATA

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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Sulfate	mg/l	3.80	18.6	20.0	74#	80 - 120	250	02-A156616
Total Organic Carbon	mg/l	1.52	20.8	20.0	96	80 - 120	6928	02-A153462
Sulfide	mg/l	< 1.000	18.10	20.00	90	80 - 120	8186	02-A155415

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Methane	mg/L	< 0.026	1.38	1.33	104	40 - 140	7911	02-A154313
Ethene	mg/L	< 0.026	2.34	2.32	101	40 - 140	7911	02-A154313
Ethane	mg/L	< 0.026	2.49	2.50	100	40 - 140	7911	02-A154313

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0557	0.0559	0.36	15.	8573
Benzene	mg/l	0.0542	0.0562	3.62	15.	8586
Chlorobenzene	mg/l	0.0567	0.0540	4.88	16.	8573
Chlorobenzene	mg/l	0.0537	0.0567	5.43	16.	8586
1,1-Dichloroethene	mg/l	0.0586	0.0598	2.03	19.	8573
1,1-Dichloroethene	mg/l	0.0591	0.0598	1.18	19.	8586
Toluene	mg/l	0.0718	0.0743	3.42	16.	8573
Toluene	mg/l	0.0575	0.0597	3.75	16.	8586
Trichloroethene	mg/l	0.0592	0.0573	3.26	20.	8573
Trichloroethene	mg/l	0.0686	0.0727	5.80	20.	8586
Tetrachloroethene	mg/l	0.0550	0.0577	4.79	23.	8573
Tetrachloroethene	mg/l	0.0540	0.0582	7.49	23.	8586

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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VOA Surr 1,2-DCA-d4	% Rec	93.	8573
VOA Surr 1,2-DCA-d4	% Rec	83.	8586
VOA Surr Toluene-d8	% Rec	104.	8573
VOA Surr Toluene-d8	% Rec	102.	8586
VOA Surr, 4-BFB	% Rec	95.	8573
VOA Surr, 4-BFB	% Rec	101.	8586
VOA Surr, DBFM	% Rec	95.	8573
VOA Surr, DBFM	% Rec	95.	8586

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Methane	mg/L	1.38	1.31	5.20	50	7911
Ethene	mg/L	2.34	2.36	0.85	50	7911
Ethane	mg/L	2.49	2.54	1.99	50	7911

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Nitrate-N as N	mg/l	23.4	23.2	0.86	20	6182
Sulfate	mg/l	69.4	70.2	1.15	20	9300
Sulfate	mg/l	18.6	18.2	2.17	20	250
Total Organic Carbon	mg/l	20.8	20.8	0.00	20	6928
Sulfide	mg/l	18.10	18.30	1.10	20	8186

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

VOA PARAMETERS

Acetone	mg/l	0.250	0.247	99	60 - 154	8573

ject QC continued . . .

PROJECT QUALITY CONTROL DATA

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Acetone	mg/l	0.250	0.259	104	60 - 154	8573
Acetone	mg/l	0.250	0.243	97	60 - 154	8586
Benzene	mg/l	0.0500	0.0535	107	78 - 127	8573
Benzene	mg/l	0.0500	0.0491	98	78 - 127	8573
Benzene	mg/l	0.0500	0.0530	106	78 - 127	8586
Bromobenzene	mg/l	0.0500	0.0568	114	80 - 120	8573
Bromobenzene	mg/l	0.0500	0.0532	106	80 - 120	8573
Bromobenzene	mg/l	0.0500	0.0558	112	80 - 120	8586
Bromochloromethane	mg/l	0.0500	0.0539	108	66 - 137	8573
Bromochloromethane	mg/l	0.0500	0.0522	104	66 - 137	8573
Bromochloromethane	mg/l	0.0500	0.0548	110	66 - 137	8586
Bromoform	mg/l	0.0500	0.0497	99	66 - 129	8573
Bromoform	mg/l	0.0500	0.0508	102	66 - 129	8573
Bromoform	mg/l	0.0500	0.0455	91	66 - 129	8586
Bromomethane	mg/l	0.0500	0.0604	121	47 - 163	8573
Bromomethane	mg/l	0.0500	0.0542	108	47 - 163	8573
Bromomethane	mg/l	0.0500	0.0575	115	47 - 163	8586
2-Butanone	mg/l	0.250	0.266	106	75 - 140	8573
2-Butanone	mg/l	0.250	0.281	112	75 - 140	8573
2-Butanone	mg/l	0.250	0.268	107	75 - 140	8586
n-Butylbenzene	mg/l	0.0500	0.0548	110	61 - 131	8573
n-Butylbenzene	mg/l	0.0500	0.0484	97	61 - 131	8573
n-Butylbenzene	mg/l	0.0500	0.0497	99	61 - 131	8586
sec-Butylbenzene	mg/l	0.0500	0.0520	104	72 - 124	8573
sec-Butylbenzene	mg/l	0.0500	0.0478	96	72 - 124	8573
sec-Butylbenzene	mg/l	0.0500	0.0502	100	72 - 124	8586
t-Butylbenzene	mg/l	0.0500	0.0520	104	74 - 123	8573
t-Butylbenzene	mg/l	0.0500	0.0477	95	74 - 123	8573
t-Butylbenzene	mg/l	0.0500	0.0510	102	74 - 123	8586
Carbon disulfide	mg/l	0.0500	0.0553	111	67 - 138	8573
Carbon disulfide	mg/l	0.0500	0.0495	99	67 - 138	8573
Carbon disulfide	mg/l	0.0500	0.0531	106	67 - 138	8586
Carbon tetrachloride	mg/l	0.0500	0.0570	114	69 - 132	8573

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Carbon tetrachloride	mg/l	0.0500	0.0504	101	69 - 132	8573
Carbon tetrachloride	mg/l	0.0500	0.0534	107	69 - 132	8586
Chlorobenzene	mg/l	0.0500	0.0539	108	81 - 120	8573
Chlorobenzene	mg/l	0.0500	0.0505	101	81 - 120	8573
Chlorobenzene	mg/l	0.0500	0.0534	107	81 - 120	8586
Chloroethane	mg/l	0.0500	0.0545	109	65 - 134	8573
Chloroethane	mg/l	0.0500	0.0495	99	65 - 134	8573
Chloroethane	mg/l	0.0500	0.0536	107	65 - 134	8586
Chloroform	mg/l	0.0500	0.0528	106	77 - 125	8573
Chloroform	mg/l	0.0500	0.0483	97	77 - 125	8573
Chloroform	mg/l	0.0500	0.0518	104	77 - 125	8586
Chloromethane	mg/l	0.0500	0.0601	120	43 - 142	8573
Chloromethane	mg/l	0.0500	0.0517	103	43 - 142	8573
Chloromethane	mg/l	0.0500	0.0577	115	43 - 142	8586
2-Chlorotoluene	mg/l	0.0500	0.0530	106	76 - 126	8573
2-Chlorotoluene	mg/l	0.0500	0.0495	99	76 - 126	8573
2-Chlorotoluene	mg/l	0.0500	0.0521	104	76 - 126	8586
4-Chlorotoluene	mg/l	0.0500	0.0536	107	79 - 123	8573
4-Chlorotoluene	mg/l	0.0500	0.0499	100	79 - 123	8573
4-Chlorotoluene	mg/l	0.0500	0.0524	105	79 - 123	8586
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0472	94	64 - 132	8573
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0507	101	64 - 132	8573
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0462	92	64 - 132	8586
Dibromochloromethane	mg/l	0.0500	0.0561	112	78 - 124	8573
Dibromochloromethane	mg/l	0.0500	0.0552	110	78 - 124	8573
Dibromochloromethane	mg/l	0.0500	0.0540	108	78 - 124	8586
1,2-Dibromoethane	mg/l	0.0500	0.0532	106	79 - 126	8573
1,2-Dibromoethane	mg/l	0.0500	0.0534	107	79 - 126	8573
1,2-Dibromoethane	mg/l	0.0500	0.0535	107	79 - 126	8586
Dibromomethane	mg/l	0.0500	0.0530	106	75 - 131	8573
Dibromomethane	mg/l	0.0500	0.0504	101	75 - 131	8573
Dibromomethane	mg/l	0.0500	0.0528	106	75 - 131	8586
1,2-Dichlorobenzene	mg/l	0.0500	0.0562	112	80 - 120	8573

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dichlorobenzene	mg/l	0.0500	0.0537	107	80 - 120	8573
1,2-Dichlorobenzene	mg/l	0.0500	0.0555	111	80 - 120	8586
1,3-Dichlorobenzene	mg/l	0.0500	0.0569	114	79 - 120	8573
1,3-Dichlorobenzene	mg/l	0.0500	0.0540	108	79 - 120	8573
1,3-Dichlorobenzene	mg/l	0.0500	0.0562	112	79 - 120	8586
1,4-Dichlorobenzene	mg/l	0.0500	0.0518	104	78 - 118	8573
1,4-Dichlorobenzene	mg/l	0.0500	0.0488	98	78 - 118	8573
1,4-Dichlorobenzene	mg/l	0.0500	0.0509	102	78 - 118	8586
Dichlorodifluoromethane	mg/l	0.0500	0.0668	134	45 - 149	8573
Dichlorodifluoromethane	mg/l	0.0500	0.0583	117	45 - 149	8573
Dichlorodifluoromethane	mg/l	0.0500	0.0618	124	45 - 149	8586
1,1-Dichloroethane	mg/l	0.0500	0.0532	106	73 - 128	8573
1,1-Dichloroethane	mg/l	0.0500	0.0478	96	73 - 128	8573
1,1-Dichloroethane	mg/l	0.0500	0.0518	104	73 - 128	8586
1,2-Dichloroethane	mg/l	0.0500	0.0534	107	71 - 135	8573
1,2-Dichloroethane	mg/l	0.0500	0.0480	96	71 - 135	8573
1,2-Dichloroethane	mg/l	0.0500	0.0495	99	71 - 135	8586
1,1-Dichloroethene	mg/l	0.0500	0.0563	113	72 - 128	8573
1,1-Dichloroethene	mg/l	0.0500	0.0513	103	72 - 128	8573
1,1-Dichloroethene	mg/l	0.0500	0.0553	111	72 - 128	8586
cis-1,2-Dichloroethene	mg/l	0.0500	0.0552	110	76 - 127	8573
cis-1,2-Dichloroethene	mg/l	0.0500	0.0492	98	76 - 127	8573
cis-1,2-Dichloroethene	mg/l	0.0500	0.0525	105	76 - 127	8586
trans-1,2-Dichloroethene	mg/l	0.0500	0.0553	111	71 - 131	8573
trans-1,2-Dichloroethene	mg/l	0.0500	0.0485	97	71 - 131	8573
trans-1,2-Dichloroethene	mg/l	0.0500	0.0533	107	71 - 131	8586
1,2-Dichloropropane	mg/l	0.0500	0.0533	107	75 - 127	8573
1,2-Dichloropropane	mg/l	0.0500	0.0493	99	75 - 127	8573
1,2-Dichloropropane	mg/l	0.0500	0.0529	106	75 - 127	8586
1,3-Dichloropropane	mg/l	0.0500	0.0541	108	81 - 128	8573
1,3-Dichloropropane	mg/l	0.0500	0.0517	103	81 - 128	8573
1,3-Dichloropropane	mg/l	0.0500	0.0532	106	81 - 128	8586
2,2-Dichloropropane	mg/l	0.0500	0.0548	110	45 - 145	8573

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2,2-Dichloropropane	mg/l	0.0500	0.0487	97	45 - 145	8573
2,2-Dichloropropane	mg/l	0.0500	0.0474	95	45 - 145	8586
1,1-Dichloropropene	mg/l	0.0500	0.0578	116	76 - 127	8573
1,1-Dichloropropene	mg/l	0.0500	0.0513	103	76 - 127	8573
1,1-Dichloropropene	mg/l	0.0500	0.0553	111	76 - 127	8586
cis-1,3-Dichloropropene	mg/l	0.0500	0.0579	116	72 - 131	8573
cis-1,3-Dichloropropene	mg/l	0.0500	0.0534	107	72 - 131	8573
cis-1,3-Dichloropropene	mg/l	0.0500	0.0551	110	72 - 131	8586
trans-1,3-Dichloropropene	mg/l	0.0500	0.0577	115	69 - 131	8573
trans-1,3-Dichloropropene	mg/l	0.0500	0.0544	109	69 - 131	8573
trans-1,3-Dichloropropene	mg/l	0.0500	0.0537	107	69 - 131	8586
Ethylbenzene	mg/l	0.0500	0.0529	106	78 - 125	8573
Ethylbenzene	mg/l	0.0500	0.0489	98	78 - 125	8573
Ethylbenzene	mg/l	0.0500	0.0512	102	78 - 125	8586
Hexachlorobutadiene	mg/l	0.0500	0.0581	116	59 - 126	8573
Hexachlorobutadiene	mg/l	0.0500	0.0508	102	59 - 126	8573
Hexachlorobutadiene	mg/l	0.0500	0.0504	101	59 - 126	8586
2-Hexanone	mg/l	0.250	0.258	103	71 - 142	8573
2-Hexanone	mg/l	0.250	0.270	108	71 - 142	8573
2-Hexanone	mg/l	0.250	0.254	102	71 - 142	8586
Isopropylbenzene	mg/l	0.0500	0.0524	105	78 - 123	8573
Isopropylbenzene	mg/l	0.0500	0.0472	94	78 - 123	8573
Isopropylbenzene	mg/l	0.0500	0.0487	97	78 - 123	8586
4-Isopropyltoluene	mg/l	0.0500	0.0521	104	73 - 125	8573
4-Isopropyltoluene	mg/l	0.0500	0.0481	96	73 - 125	8573
4-Isopropyltoluene	mg/l	0.0500	0.0502	100	73 - 125	8586
4-Methyl-2-pentanone	mg/l	0.250	0.287	115	71 - 141	8573
4-Methyl-2-pentanone	mg/l	0.250	0.291	116	71 - 141	8573
4-Methyl-2-pentanone	mg/l	0.250	0.283	113	71 - 141	8586
Methylene chloride	mg/l	0.0500	0.0524	105	70 - 140	8573
Methylene chloride	mg/l	0.0500	0.0495	99	70 - 140	8573
Methylene chloride	mg/l	0.0500	0.0523	105	70 - 140	8586
Naphthalene	mg/l	0.0500	0.0499	100	52 - 140	8573

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.0500	0.0499	100	52 - 140	8573
Naphthalene	mg/l	0.0500	0.0461	92	52 - 140	8586
n-Propylbenzene	mg/l	0.0500	0.0521	104	75 - 125	8573
n-Propylbenzene	mg/l	0.0500	0.0483	97	75 - 125	8573
n-Propylbenzene	mg/l	0.0500	0.0504	101	75 - 125	8586
Styrene	mg/l	0.0500	0.0508	102	82 - 122	8573
Styrene	mg/l	0.0500	0.0489	98	82 - 122	8573
Styrene	mg/l	0.0500	0.0499	100	82 - 122	8586
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0548	110	85 - 123	8573
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0520	104	85 - 123	8573
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0541	108	85 - 123	8586
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0517	103	74 - 133	8573
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0552	110	74 - 133	8573
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0528	106	74 - 133	8586
Tetrachloroethene	mg/l	0.0500	0.0541	108	76 - 123	8573
Tetrachloroethene	mg/l	0.0500	0.0505	101	76 - 123	8573
Tetrachloroethene	mg/l	0.0500	0.0528	106	76 - 123	8586
Toluene	mg/l	0.0500	0.0569	114	78 - 127	8573
Toluene	mg/l	0.0500	0.0518	104	78 - 127	8573
Toluene	mg/l	0.0500	0.0559	112	78 - 127	8586
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0515	103	59 - 132	8573
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0489	98	59 - 132	8573
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0467	93	59 - 132	8586
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0502	100	60 - 133	8573
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0482	96	60 - 133	8573
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0470	94	60 - 133	8586
1,1,1-Trichloroethane	mg/l	0.0500	0.0559	112	74 - 128	8573
1,1,1-Trichloroethane	mg/l	0.0500	0.0494	99	74 - 128	8573
1,1,1-Trichloroethane	mg/l	0.0500	0.0534	107	74 - 128	8586
1,1,2-Trichloroethane	mg/l	0.0500	0.0525	105	85 - 125	8573
1,1,2-Trichloroethane	mg/l	0.0500	0.0513	103	85 - 125	8573
1,1,2-Trichloroethane	mg/l	0.0500	0.0522	104	85 - 125	8586
Trichloroethene	mg/l	0.0500	0.0544	109	78 - 125	8573

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Trichloroethene	mg/l	0.0500	0.0512	102	78 - 125	8573
Trichloroethene	mg/l	0.0500	0.0546	109	78 - 125	8586
Trichloroethene	mg/l	0.0500	0.0546	109	78 - 125	8593
1,2,3-Trichloropropane	mg/l	0.0500	0.0547	109	75 - 130	8573
1,2,3-Trichloropropane	mg/l	0.0500	0.0604	121	75 - 130	8573
1,2,3-Trichloropropane	mg/l	0.0500	0.0541	108	75 - 130	8586
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0521	104	77 - 122	8573
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0490	98	77 - 122	8573
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0512	102	77 - 122	8586
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0529	106	75 - 125	8573
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0489	98	75 - 125	8573
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0512	102	75 - 125	8586
Vinyl chloride	mg/l	0.0500	0.0601	120	61 - 140	8573
Vinyl chloride	mg/l	0.0500	0.0538	108	61 - 140	8573
Vinyl chloride	mg/l	0.0500	0.0588	118	61 - 140	8586
Xylenes (Total)	mg/l	0.150	0.158	105	77 - 126	8573
Xylenes (Total)	mg/l	0.150	0.148	99	77 - 126	8573
Xylenes (Total)	mg/l	0.150	0.153	102	77 - 126	8586
Bromodichloromethane	mg/l	0.0500	0.0564	113	79 - 126	8573
Bromodichloromethane	mg/l	0.0500	0.0512	102	79 - 126	8573
Bromodichloromethane	mg/l	0.0500	0.0533	107	79 - 126	8586
Trichlorofluoromethane	mg/l	0.0500	0.0563	113	60 - 140	8573
Trichlorofluoromethane	mg/l	0.0500	0.0478	96	60 - 140	8573
Trichlorofluoromethane	mg/l	0.0500	0.0520	104	60 - 140	8586
Methane	mg/L	1.33	1.26	95	78 - 120	7911
Ethene	mg/L	2.32	2.40	103	76 - 108	7911
Ethane	mg/L	2.50	2.54	102	77 - 111	7911
VOA Surr 1,2-DCA-d4	% Rec			97	73 - 133	8573
VOA Surr 1,2-DCA-d4	% Rec			91	73 - 133	8573
VOA Surr 1,2-DCA-d4	% Rec			88	73 - 133	8586
VOA Surr 1,2-DCA-d4	% Rec			88	73 - 133	8593
VOA Surr Toluene-d8	% Rec			102	80 - 121	8573
VOA Surr Toluene-d8	% Rec			101	80 - 121	8573

ject QC continued . . .

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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VOA Surr Toluene-d8	% Rec			103	80 - 121	8586
VOA Surr Toluene-d8	% Rec			103	80 - 121	8593
VOA Surr, 4-BFB	% Rec			102	80 - 128	8573
VOA Surr, 4-BFB	% Rec			100	80 - 128	8573
VOA Surr, 4-BFB	% Rec			97	80 - 128	8586
VOA Surr, 4-BFB	% Rec			97	80 - 128	8593
VOA Surr, DBFM	% Rec			96	81 - 121	8573
VOA Surr, DBFM	% Rec			94	81 - 121	8573
VOA Surr, DBFM	% Rec			95	81 - 121	8586
VOA Surr, DBFM	% Rec			95	81 - 121	8593

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.33	1.26	95	78 - 120	7911
Ethene	mg/L	2.32	2.40	103	76 - 108	7911
Ethane	mg/L	2.50	2.54	102	77 - 111	7911

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.20	95	90 - 110	6182
Sulfate	mg/l	25.0	24.6	98	90 - 110	9300
Sulfate	mg/l	25.0	24.2	97	90 - 110	250
Total Organic Carbon	mg/l	200.	201.	100	90 - 110	6928
Sulfide	mg/l	20.00	19.60	98	90 - 110	8186
Chloride	mg/l	10.0	9.86	99	90 - 110	6956

Project QC continued . . .

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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	< 0.100	< 0.100	N/A	15.	6182	02-A154430
Sulfate	mg/l	< 1.00	< 1.00	N/A	15.	9300	02-A155251
Sulfate	mg/l	6.40	6.50	1.55	15.	250	02-A157091
Chloride	mg/l	< 1.00	< 1.00	N/A	15.	6956	02-A154430

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	8573	9/21/02	16:37
Acetone	< 0.00470	mg/l	8573	9/22/02	14:31
Acetone	< 0.00470	mg/l	8586	9/23/02	3:55
Benzene	< 0.0005	mg/l	8573	9/21/02	16:37
Benzene	< 0.0005	mg/l	8573	9/22/02	14:31
Benzene	< 0.0005	mg/l	8586	9/23/02	3:55
Bromobenzene	< 0.00030	mg/l	8573	9/21/02	16:37
Bromobenzene	< 0.00030	mg/l	8573	9/22/02	14:31
Bromobenzene	< 0.00030	mg/l	8586	9/23/02	3:55
Bromochloromethane	< 0.00030	mg/l	8573	9/21/02	16:37
Bromochloromethane	< 0.00030	mg/l	8573	9/22/02	14:31
Bromochloromethane	< 0.00030	mg/l	8586	9/23/02	3:55
Bromoform	< 0.00060	mg/l	8573	9/21/02	16:37
Bromoform	< 0.00060	mg/l	8573	9/22/02	14:31
Bromoform	< 0.00060	mg/l	8586	9/23/02	3:55
Bromomethane	< 0.00060	mg/l	8573	9/21/02	16:37
Bromomethane	< 0.00060	mg/l	8573	9/22/02	14:31
Bromomethane	< 0.00060	mg/l	8586	9/23/02	3:55
2-Butanone	< 0.00310	mg/l	8573	9/21/02	16:37
2-Butanone	< 0.00310	mg/l	8573	9/22/02	14:31
2-Butanone	< 0.00310	mg/l	8586	9/23/02	3:55
n-Butylbenzene	< 0.00010	mg/l	8573	9/21/02	16:37
n-Butylbenzene	< 0.00010	mg/l	8573	9/22/02	14:31

ject QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
n-Butylbenzene	< 0.00010	mg/l	8586	9/23/02	3:55
sec-Butylbenzene	< 0.00030	mg/l	8573	9/21/02	16:37
sec-Butylbenzene	< 0.00030	mg/l	8573	9/22/02	14:31
sec-Butylbenzene	< 0.00030	mg/l	8586	9/23/02	3:55
t-Butylbenzene	< 0.00030	mg/l	8573	9/21/02	16:37
t-Butylbenzene	< 0.00030	mg/l	8573	9/22/02	14:31
t-Butylbenzene	< 0.00030	mg/l	8586	9/23/02	3:55
Carbon disulfide	< 0.00020	mg/l	8573	9/21/02	16:37
Carbon disulfide	< 0.00020	mg/l	8573	9/22/02	14:31
Carbon disulfide	< 0.00020	mg/l	8586	9/23/02	3:55
Carbon tetrachloride	< 0.00040	mg/l	8573	9/21/02	16:37
Carbon tetrachloride	< 0.00040	mg/l	8573	9/22/02	14:31
Carbon tetrachloride	< 0.00040	mg/l	8586	9/23/02	3:55
Chlorobenzene	< 0.00020	mg/l	8573	9/21/02	16:37
Chlorobenzene	< 0.00020	mg/l	8573	9/22/02	14:31
Chlorobenzene	< 0.00020	mg/l	8586	9/23/02	3:55
Chloroethane	< 0.00100	mg/l	8573	9/21/02	16:37
Chloroethane	< 0.00100	mg/l	8573	9/22/02	14:31
Chloroethane	< 0.00100	mg/l	8586	9/23/02	3:55
Chloroform	< 0.00080	mg/l	8573	9/21/02	16:37
Chloroform	< 0.00080	mg/l	8573	9/22/02	14:31
Chloroform	< 0.00080	mg/l	8586	9/23/02	3:55
Chloromethane	< 0.00070	mg/l	8573	9/21/02	16:37
Chloromethane	< 0.00070	mg/l	8573	9/22/02	14:31
Chloromethane	< 0.00070	mg/l	8586	9/23/02	3:55
2-Chlorotoluene	< 0.00040	mg/l	8573	9/21/02	16:37
2-Chlorotoluene	< 0.00040	mg/l	8573	9/22/02	14:31
2-Chlorotoluene	< 0.00040	mg/l	8586	9/23/02	3:55
4-Chlorotoluene	< 0.00050	mg/l	8573	9/21/02	16:37
4-Chlorotoluene	< 0.00050	mg/l	8573	9/22/02	14:31
4-Chlorotoluene	< 0.00050	mg/l	8586	9/23/02	3:55
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	8573	9/21/02	16:37
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	8573	9/22/02	14:31

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	8586	9/23/02	3:55
Dibromochloromethane	< 0.00050	mg/l	8573	9/21/02	16:37
Dibromochloromethane	< 0.00050	mg/l	8573	9/22/02	14:31
Dibromochloromethane	< 0.00050	mg/l	8586	9/23/02	3:55
1,2-Dibromoethane	< 0.00040	mg/l	8573	9/21/02	16:37
1,2-Dibromoethane	< 0.00040	mg/l	8573	9/22/02	14:31
1,2-Dibromoethane	< 0.00040	mg/l	8586	9/23/02	3:55
Dibromomethane	< 0.00090	mg/l	8573	9/21/02	16:37
Dibromomethane	< 0.00090	mg/l	8573	9/22/02	14:31
Dibromomethane	< 0.00090	mg/l	8586	9/23/02	3:55
1,2-Dichlorobenzene	< 0.00020	mg/l	8573	9/21/02	16:37
1,2-Dichlorobenzene	< 0.00020	mg/l	8573	9/22/02	14:31
1,2-Dichlorobenzene	< 0.00020	mg/l	8586	9/23/02	3:55
1,3-Dichlorobenzene	< 0.00030	mg/l	8573	9/21/02	16:37
1,3-Dichlorobenzene	< 0.00030	mg/l	8573	9/22/02	14:31
1,3-Dichlorobenzene	< 0.00030	mg/l	8586	9/23/02	3:55
1,4-Dichlorobenzene	< 0.00040	mg/l	8573	9/21/02	16:37
1,4-Dichlorobenzene	< 0.00040	mg/l	8573	9/22/02	14:31
1,4-Dichlorobenzene	< 0.00040	mg/l	8586	9/23/02	3:55
Dichlorodifluoromethane	< 0.00050	mg/l	8573	9/21/02	16:37
Dichlorodifluoromethane	< 0.00050	mg/l	8573	9/22/02	14:31
Dichlorodifluoromethane	< 0.00050	mg/l	8586	9/23/02	3:55
1,1-Dichloroethane	< 0.00020	mg/l	8573	9/21/02	16:37
1,1-Dichloroethane	< 0.00020	mg/l	8573	9/22/02	14:31
1,1-Dichloroethane	< 0.00020	mg/l	8586	9/23/02	3:55
1,2-Dichloroethane	< 0.00060	mg/l	8573	9/21/02	16:37
1,2-Dichloroethane	< 0.00060	mg/l	8573	9/22/02	14:31
1,2-Dichloroethane	< 0.00060	mg/l	8586	9/23/02	3:55
1,1-Dichloroethene	< 0.00060	mg/l	8573	9/21/02	16:37
1,1-Dichloroethene	< 0.00060	mg/l	8573	9/22/02	14:31
1,1-Dichloroethene	< 0.00060	mg/l	8586	9/23/02	3:55
cis-1,2-Dichloroethene	< 0.00060	mg/l	8573	9/21/02	16:37
cis-1,2-Dichloroethene	< 0.00060	mg/l	8573	9/22/02	14:31

ject QC continued . . .

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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	8586	9/23/02	3:55
trans-1,2-Dichloroethene	< 0.00050	mg/l	8573	9/21/02	16:37
trans-1,2-Dichloroethene	< 0.00050	mg/l	8573	9/22/02	14:31
trans-1,2-Dichloroethene	< 0.00050	mg/l	8586	9/23/02	3:55
1,2-Dichloropropane	< 0.00040	mg/l	8573	9/21/02	16:37
1,2-Dichloropropane	< 0.00040	mg/l	8573	9/22/02	14:31
1,2-Dichloropropane	< 0.00040	mg/l	8586	9/23/02	3:55
1,3-Dichloropropane	< 0.00040	mg/l	8573	9/21/02	16:37
1,3-Dichloropropane	< 0.00040	mg/l	8573	9/22/02	14:31
1,3-Dichloropropane	< 0.00040	mg/l	8586	9/23/02	3:55
2,2-Dichloropropane	< 0.00040	mg/l	8573	9/21/02	16:37
2,2-Dichloropropane	< 0.00040	mg/l	8573	9/22/02	14:31
2,2-Dichloropropane	< 0.00040	mg/l	8586	9/23/02	3:55
1,1-Dichloropropene	< 0.00050	mg/l	8573	9/21/02	16:37
1,1-Dichloropropene	< 0.00050	mg/l	8573	9/22/02	14:31
1,1-Dichloropropene	< 0.00050	mg/l	8586	9/23/02	3:55
cis-1,3-Dichloropropene	< 0.00030	mg/l	8573	9/21/02	16:37
cis-1,3-Dichloropropene	< 0.00030	mg/l	8573	9/22/02	14:31
cis-1,3-Dichloropropene	< 0.00030	mg/l	8586	9/23/02	3:55
trans-1,3-Dichloropropene	< 0.00050	mg/l	8573	9/21/02	16:37
trans-1,3-Dichloropropene	< 0.00050	mg/l	8573	9/22/02	14:31
trans-1,3-Dichloropropene	< 0.00050	mg/l	8586	9/23/02	3:55
Ethylbenzene	< 0.0003	mg/l	8573	9/21/02	16:37
Ethylbenzene	< 0.0003	mg/l	8573	9/22/02	14:31
Ethylbenzene	< 0.0003	mg/l	8586	9/23/02	3:55
Hexachlorobutadiene	0.00230	mg/l	8573	9/21/02	16:37
Hexachlorobutadiene	< 0.00080	mg/l	8573	9/22/02	14:31
Hexachlorobutadiene	< 0.00080	mg/l	8586	9/23/02	3:55
2-Hexanone	< 0.00420	mg/l	8573	9/21/02	16:37
2-Hexanone	< 0.00420	mg/l	8573	9/22/02	14:31
2-Hexanone	< 0.00420	mg/l	8586	9/23/02	3:55
Isopropylbenzene	< 0.00040	mg/l	8573	9/21/02	16:37
Isopropylbenzene	< 0.00040	mg/l	8573	9/22/02	14:31

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Isopropylbenzene	< 0.00040	mg/l	8586	9/23/02	3:55
4-Isopropyltoluene	< 0.00060	mg/l	8573	9/21/02	16:37
4-Isopropyltoluene	< 0.00060	mg/l	8573	9/22/02	14:31
4-Isopropyltoluene	< 0.00060	mg/l	8586	9/23/02	3:55
4-Methyl-2-pentanone	< 0.00490	mg/l	8573	9/21/02	16:37
4-Methyl-2-pentanone	< 0.00490	mg/l	8573	9/22/02	14:31
4-Methyl-2-pentanone	< 0.00490	mg/l	8586	9/23/02	3:55
Methylene chloride	< 0.00360	mg/l	8573	9/21/02	16:37
Methylene chloride	< 0.00360	mg/l	8573	9/22/02	14:31
Methylene chloride	< 0.00360	mg/l	8586	9/23/02	3:55
Naphthalene	< 0.00120	mg/l	8573	9/21/02	16:37
Naphthalene	< 0.00120	mg/l	8573	9/22/02	14:31
Naphthalene	< 0.00120	mg/l	8586	9/23/02	3:55
n-Propylbenzene	< 0.00030	mg/l	8573	9/21/02	16:37
n-Propylbenzene	< 0.00030	mg/l	8573	9/22/02	14:31
n-Propylbenzene	< 0.00030	mg/l	8586	9/23/02	3:55
Styrene	< 0.00040	mg/l	8573	9/21/02	16:37
Styrene	< 0.00040	mg/l	8573	9/22/02	14:31
Styrene	< 0.00040	mg/l	8586	9/23/02	3:55
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	8573	9/21/02	16:37
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	8573	9/22/02	14:31
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	8586	9/23/02	3:55
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8573	9/21/02	16:37
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8573	9/22/02	14:31
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8586	9/23/02	3:55
Tetrachloroethene	< 0.00040	mg/l	8573	9/21/02	16:37
Tetrachloroethene	< 0.00040	mg/l	8573	9/22/02	14:31
Tetrachloroethene	< 0.00040	mg/l	8586	9/23/02	3:55
Toluene	< 0.0006	mg/l	8573	9/21/02	16:37
Toluene	< 0.0006	mg/l	8573	9/22/02	14:31
Toluene	< 0.0006	mg/l	8586	9/23/02	3:55
1,2,3-Trichlorobenzene	< 0.00100	mg/l	8573	9/21/02	16:37
1,2,3-Trichlorobenzene	< 0.00100	mg/l	8573	9/22/02	14:31

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 16

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
1,2,3-Trichlorobenzene	< 0.00100	mg/l	8586	9/23/02	3:55
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8573	9/21/02	16:37
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8573	9/22/02	14:31
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8586	9/23/02	3:55
1,1,1-Trichloroethane	< 0.00070	mg/l	8573	9/21/02	16:37
1,1,1-Trichloroethane	< 0.00070	mg/l	8573	9/22/02	14:31
1,1,1-Trichloroethane	< 0.00070	mg/l	8586	9/23/02	3:55
1,1,2-Trichloroethane	< 0.00040	mg/l	8573	9/21/02	16:37
1,1,2-Trichloroethane	< 0.00040	mg/l	8573	9/22/02	14:31
1,1,2-Trichloroethane	< 0.00040	mg/l	8586	9/23/02	3:55
Trichloroethene	< 0.00040	mg/l	8573	9/21/02	16:37
Trichloroethene	< 0.00040	mg/l	8573	9/22/02	14:31
Trichloroethene	< 0.00040	mg/l	8586	9/23/02	3:55
Trichloroethene	< 0.00040	mg/l	8593	9/23/02	3:55
1,2,3-Trichloropropane	< 0.00060	mg/l	8573	9/21/02	16:37
1,2,3-Trichloropropane	< 0.00060	mg/l	8573	9/22/02	14:31
1,2,3-Trichloropropane	< 0.00060	mg/l	8586	9/23/02	3:55
1,2,4-Trimethylbenzene	< 0.0003	mg/l	8573	9/21/02	16:37
1,2,4-Trimethylbenzene	< 0.0003	mg/l	8573	9/22/02	14:31
1,2,4-Trimethylbenzene	< 0.0003	mg/l	8586	9/23/02	3:55
1,3,5-Trimethylbenzene	< 0.00100	mg/l	8573	9/21/02	16:37
1,3,5-Trimethylbenzene	< 0.00100	mg/l	8573	9/22/02	14:31
1,3,5-Trimethylbenzene	< 0.00100	mg/l	8586	9/23/02	3:55
Vinyl chloride	< 0.00050	mg/l	8573	9/21/02	16:37
Vinyl chloride	< 0.00050	mg/l	8573	9/22/02	14:31
Vinyl chloride	< 0.00050	mg/l	8586	9/23/02	3:55
Xylenes (Total)	< 0.0009	mg/l	8573	9/21/02	16:37
Xylenes (Total)	< 0.0009	mg/l	8573	9/22/02	14:31
Xylenes (Total)	< 0.0009	mg/l	8586	9/23/02	3:55
Bromodichloromethane	< 0.00030	mg/l	8573	9/21/02	16:37
Bromodichloromethane	< 0.00030	mg/l	8573	9/22/02	14:31
Bromodichloromethane	< 0.00030	mg/l	8586	9/23/02	3:55
Trichlorofluoromethane	< 0.00040	mg/l	8573	9/21/02	16:37

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 17

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichlorofluoromethane	< 0.00040	mg/l	8573	9/22/02	14:31
Trichlorofluoromethane	< 0.00040	mg/l	8586	9/23/02	3:55
VOA Surr 1,2-DCA-d4	98.	% Rec	8573	9/21/02	16:37
VOA Surr 1,2-DCA-d4	94.	% Rec	8573	9/22/02	14:31
VOA Surr 1,2-DCA-d4	95.	% Rec	8586	9/23/02	3:55
VOA Surr 1,2-DCA-d4	95.	% Rec	8593	9/23/02	3:55
VOA Surr Toluene-d8	102.	% Rec	8573	9/21/02	16:37
VOA Surr Toluene-d8	102.	% Rec	8573	9/22/02	14:31
VOA Surr Toluene-d8	105.	% Rec	8586	9/23/02	3:55
VOA Surr Toluene-d8	105.	% Rec	8593	9/23/02	3:55
VOA Surr, 4-BFB	108.	% Rec	8573	9/21/02	16:37
VOA Surr, 4-BFB	109.	% Rec	8573	9/22/02	14:31
VOA Surr, 4-BFB	112.	% Rec	8586	9/23/02	3:55
VOA Surr, 4-BFB	112.	% Rec	8593	9/23/02	3:55
VOA Surr, DBFM	97.	% Rec	8573	9/21/02	16:37
VOA Surr, DBFM	96.	% Rec	8573	9/22/02	14:31
VOA Surr, DBFM	97.	% Rec	8586	9/23/02	3:55
VOA Surr, DBFM	97.	% Rec	8593	9/23/02	3:55

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	6182	9/20/02	18:22
Sulfate	< 1.00	mg/l	9300	9/23/02	9:42
Sulfate	< 1.00	mg/l	250	9/25/02	12:40
Total Organic Carbon	< 1.00	mg/l	6928	9/20/02	18:18
Sulfide	< 1.000	mg/l	8186	9/23/02	13:50
Chloride	< 1.00	mg/l	6956	9/21/02	10:46

ject QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
MISC PARAMETERS					
Methane	< 0.026	mg/L	7911	9/24/02	14:38
Ethene	< 0.026	mg/L	7911	9/24/02	14:38
Ethane	< 0.026	mg/L	7911	9/24/02	14:38

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 301801

September 20 - 21, 2002
Analytical Data

10/ 2/02

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 302380.

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.

Sample Identification	Lab Number	Collection Date
-----	-----	-----
BR-06 MS/MSD	02-A156952	9/21/02
BR-07	02-A156953	9/21/02
BR-07 (DUP)	02-A156954	9/21/02
W-6	02-A156955	9/21/02
BR-16	02-A156956	9/21/02
BR-12	02-A156957	9/22/02
BR-13	02-A156958	9/22/02
BR-15	02-A156959	9/22/02
OB-06	02-A156960	9/20/02
BR-08	02-A156961	9/20/02
BR-17	02-A156962	9/20/02
BR-03	02-A156963	9/20/02
BR-14	02-A156964	9/20/02
BR-01	02-A156965	9/20/02
BR-02	02-A156966	9/21/02
QATB02	02-A156967	9/21/02
QAFB02	02-A156968	9/21/02
QARB02	02-A156969	9/21/02

TestAmerica

INCORPORATED

Page 2

Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: Paul E. Lane, Jr.

Report Date: 10/ 2/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156952
Sample ID: BR-06 MS/MSD
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/21/02
Time Collected: 10:24
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	21:25	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/27/02	21:25	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	21:25	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	21:25	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156952
Sample ID: BR-06 MS/MSD
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	21:25	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	21:25	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	21:25	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	21:25	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	21:25	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	21:25	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	21:25	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	21:25	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156952
 Sample ID: BR-06 MS/MSD
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	21:25	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	88.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	98.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A156953
Sample ID: BR-07
Sample Type: Ground water
Site ID:

Date Collected: 9/21/02
Time Collected: 11:47
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	21:57	C. Wani	8260B	9825
Benzene	0.0065	mg/l	0.0020	1	9/27/02	21:57	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	21:57	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	21:57	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156953
Sample ID: BR-07
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.0273	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
trans-1,2-Dichloroethene	0.0148	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	21:57	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	21:57	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	21:57	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	21:57	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	21:57	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	21:57	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Trichloroethene	0.00400	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	21:57	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Vinyl chloride	0.0904	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	21:57	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825

... report continued ...

ANALYTICAL REPORT

Laboratory Number: 02-A156953
 Sample ID: BR-07
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	21:57	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156954
Sample ID: BR-07 (DUP)
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/21/02
Time Collected: 11:50
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	22:29	C. Wani	8260B	9825
Benzene	0.0064	mg/l	0.0020	1	9/27/02	22:29	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	22:29	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	22:29	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156954

Sample ID: BR-07 (DUP)

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.0285	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
trans-1,2-Dichloroethene	0.0152	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	22:29	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	22:29	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	22:29	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	22:29	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	22:29	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	22:29	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Trichloroethene	0.00280	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	22:29	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Vinyl chloride	0.0895	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	22:29	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156954
 Sample ID: BR-07 (DUP)
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	22:29	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	100.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Lab Number: 02-A156955

Sample ID: W-6

Sample Type: Ground water

Site ID:

Date Collected: 9/21/02

Time Collected: 12:05

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	23:00	C. Wani	8260B	982
Benzene	ND	mg/l	0.0020	1	9/27/02	23:00	C. Wani	8260B	982
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	23:00	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	23:00	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156955
Sample ID: W-6
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.00960	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	23:00	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	23:00	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	23:00	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	23:00	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	23:00	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	23:00	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	23:00	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	23:00	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156955
 Sample ID: W-6
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	23:00	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	105.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A156956
Sample ID: BR-16
Sample Type: Ground water
Site ID:

Date Collected: 9/21/02
Time Collected: 14:05
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	23:32	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/27/02	23:32	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	23:32	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	23:32	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156956
Sample ID: BR-16
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	23:32	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	23:32	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	23:32	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	23:32	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	23:32	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	23:32	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	23:32	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	23:32	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156956
Sample ID: BR-16
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	23:32	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156957
Sample ID: BR-12
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/22/02
Time Collected: 8:57
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	0:04	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	0:04	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	0:04	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	0:04	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156957
Sample ID: BR-12
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.0238	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	0:04	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	0:04	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	0:04	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	0:04	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	0:04	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	0:04	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Trichloroethene	0.00350	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	0:04	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	0:04	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825

Report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156957
Sample ID: BR-12
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	0:04	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156958

Sample ID: BR-13

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/22/02

Time Collected: 8:57

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	0:36	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	0:36	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	0:36	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	0:36	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156958

Sample ID: BR-13

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1-Dichloroethene	0.00600	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.800	mg/l	0.100	50	9/28/02	21:04	C. Wani	8260B	6483
trans-1,2-Dichloroethene	0.0220	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	0:36	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	0:36	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	0:36	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	0:36	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	0:36	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	0:36	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Trichloroethene	3.24	mg/l	0.100	50	9/28/02	21:04	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	0:36	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Vinyl chloride	0.00510	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	0:36	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156958
 Sample ID: BR-13
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	0:36	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	73. - 133.
VOA Surr Toluene-d8	103.	80. - 121.
VOA Surr, 4-BFB	103.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156959

Sample ID: BR-15

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/22/02

Time Collected: 11:15

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	6:25	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	6:25	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	6:25	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	6:25	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156959
Sample ID: BR-15
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1-Dichloroethene	0.00750	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.555	mg/l	0.100	50	9/28/02	21:36	C. Wani	8260B	6483
trans-1,2-Dichloroethene	0.0403	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	6:25	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	6:25	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	6:25	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	6:25	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	6:25	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	6:25	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Trichloroethene	4.39	mg/l	0.100	50	9/28/02	21:36	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	6:25	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Vinyl chloride	0.00540	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	6:25	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825

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ANALYTICAL REPORT

Laboratory Number: 02-A156959
Sample ID: BR-15
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	6:25	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	99.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A156960
Sample ID: OB-06
Sample Type: Ground water
Site ID:

Date Collected: 9/20/02
Time Collected: 8:57
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	6:56	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	6:56	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	6:56	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	6:56	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825

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ANALYTICAL REPORT

Laboratory Number: 02-A156960

Sample ID: OB-06

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.0101	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	6:56	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	6:56	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	6:56	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	6:56	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	6:56	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	6:56	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Trichloroethene	0.386	mg/l	0.0100	5	9/28/02	22:07	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	6:56	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	6:56	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156960
 Sample ID: OB-06
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	6:56	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	90.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	103.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A156961
Sample ID: BR-08
Sample Type: Ground water
Site ID:

Date Collected: 9/20/02
Time Collected: 10:10
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.434	mg/l	0.0500	1	9/28/02	7:28	C. Wani	8260B	9825
Benzene	0.0028	mg/l	0.0020	1	9/28/02	7:28	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	7:28	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	7:28	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156961
Sample ID: BR-08
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.220	mg/l	0.0200	10	9/28/02	22:39	C. Wani	8260B	6483
trans-1,2-Dichloroethene	0.00280	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	7:28	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	7:28	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	7:28	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	7:28	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	7:28	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Toluene	0.0090	mg/l	0.0020	1	9/28/02	7:28	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Trichloroethene	0.463	mg/l	0.0200	10	9/28/02	22:39	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	7:28	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825
Xylenes (Total)	0.0080	mg/l	0.0020	1	9/28/02	7:28	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156961

Sample ID: BR-08

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	7:28	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	90.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	100.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156962

Sample ID: BR-17

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/20/02

Time Collected: 11:13

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	8:00	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	8:00	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	8:00	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	8:00	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156962

Sample ID: BR-17

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1-Dichloroethene	0.00520	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.210	mg/l	0.100	50	9/28/02	23:11	C. Wani	8260B	6483
trans-1,2-Dichloroethene	0.0368	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	8:00	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	8:00	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	8:00	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	8:00	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	8:00	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	8:00	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Trichloroethene	2.74	mg/l	0.100	50	9/28/02	23:11	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	8:00	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Vinyl chloride	0.0245	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	8:00	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156962
 Sample ID: BR-17
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	8:00	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	91.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	103.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156963
Sample ID: BR-03
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/20/02
Time Collected: 13:53
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	8:31	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	8:31	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	8:31	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	8:31	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156963
 Sample ID: BR-03
 Project: 51870.7
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.00650	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	8:31	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	8:31	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	8:31	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	8:31	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	8:31	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	8:31	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Trichloroethene	0.370	mg/l	0.0100	5	9/28/02	23:42	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	8:31	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	8:31	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156963
 Sample ID: BR-03
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	8:31	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	100.	80. - 128.
VOA Surr, DBFM	105.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156964

Sample ID: BR-14

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/20/02

Time Collected: 15:15

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.188	mg/l	0.0500	1	9/28/02	9:03	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	9:03	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	9:03	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	9:03	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825

1c report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156964

Sample ID: BR-14

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	9:03	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	9:03	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	9:03	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	9:03	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	9:03	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Toluene	0.0068	mg/l	0.0020	1	9/28/02	9:03	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	9:03	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825
Xylenes (Total)	0.0027	mg/l	0.0020	1	9/28/02	9:03	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156964
Sample ID: BR-14
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	9:03	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	103.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156965
Sample ID: BR-01
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/20/02
Time Collected: 16:24
Date Received: 9/24/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	9:35	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	9:35	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	9:35	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	9:35	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156965
 Sample ID: BR-01
 Project: 51870.7
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.0160	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
trans-1,2-Dichloroethene	0.00400	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	9:35	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	9:35	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	9:35	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	9:35	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	9:35	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	9:35	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Trichloroethene	0.107	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	9:35	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	9:35	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156965
 Sample ID: BR-01
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	9:35	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	101.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A156966

Sample ID: BR-02

Sample Type: Ground water

Site ID:

Date Collected: 9/21/02

Time Collected: 8:49

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/28/02	10:07	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/28/02	10:07	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/28/02	10:07	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/28/02	10:07	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156966
Sample ID: BR-02
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1-Dichloroethene	0.00460	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
cis-1,2-Dichloroethene	0.518	mg/l	0.0200	10	9/29/02	0:14	C. Wani	8260B	6483
trans-1,2-Dichloroethene	0.0244	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/28/02	10:07	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/28/02	10:07	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/28/02	10:07	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/28/02	10:07	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/28/02	10:07	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/28/02	10:07	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Trichloroethene	0.768	mg/l	0.0200	10	9/29/02	0:14	C. Wani	8260B	6483
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/28/02	10:07	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Vinyl chloride	0.0187	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/28/02	10:07	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156966
Sample ID: BR-02
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/28/02	10:07	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	73. - 133.
VOA Surr Toluene-d8	106.	80. - 121.
VOA Surr, 4-BFB	104.	80. - 128.
VOA Surr, DBFM	108.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156967

Sample ID: QATB02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/21/02

Time Collected:

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	17:11	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/27/02	17:11	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	17:11	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	17:11	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156967
Sample ID: QATB02
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	17:11	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	17:11	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	17:11	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	17:11	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	17:11	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	17:11	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	17:11	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	17:11	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825

le report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156967
Sample ID: QATB02
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	17:11	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	73. - 133.
VOA Surr Toluene-d8	104.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156968

Sample ID: QAFB02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/21/02

Time Collected: 9:13

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	17:43	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/27/02	17:43	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	17:43	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	17:43	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825

Report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156968
Sample ID: QAFB02
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	17:43	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	17:43	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	17:43	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	17:43	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	17:43	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	17:43	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	17:43	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	17:43	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156968
Sample ID: QAFB02
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	17:43	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	101.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A156969

Sample ID: QARB02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/21/02

Time Collected: 9:18

Date Received: 9/24/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	9/27/02	18:14	C. Wani	8260B	9825
Benzene	ND	mg/l	0.0020	1	9/27/02	18:14	C. Wani	8260B	9825
Bromobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Bromochloromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Bromoform	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Bromomethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
2-Butanone	ND	mg/l	0.0500	1	9/27/02	18:14	C. Wani	8260B	9825
n-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
sec-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
t-Butylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Carbon disulfide	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Carbon tetrachloride	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Chlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Chloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Chloroform	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Chloromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
2-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
4-Chlorotoluene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	9/27/02	18:14	C. Wani	8260B	9825
Dibromochloromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2-Dibromoethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Dibromomethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Dichlorodifluoromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156969
 Sample ID: QARB02
 Project: 51870.7
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2-Dichloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,3-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
2,2-Dichloropropane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Ethylbenzene	ND	mg/l	0.0020	1	9/27/02	18:14	C. Wani	8260B	9825
Hexachlorobutadiene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
2-Hexanone	ND	mg/l	0.0100	1	9/27/02	18:14	C. Wani	8260B	9825
Isopropylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
4-Isopropyltoluene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/27/02	18:14	C. Wani	8260B	9825
Methylene chloride	ND	mg/l	0.00500	1	9/27/02	18:14	C. Wani	8260B	9825
Naphthalene	ND	mg/l	0.00500	1	9/27/02	18:14	C. Wani	8260B	9825
n-Propylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Styrene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Tetrachloroethene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Toluene	ND	mg/l	0.0020	1	9/27/02	18:14	C. Wani	8260B	9825
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Trichloroethene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	9/27/02	18:14	C. Wani	8260B	9825
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Vinyl chloride	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825
Xylenes (Total)	ND	mg/l	0.0020	1	9/27/02	18:14	C. Wani	8260B	9825
Bromodichloromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825

the report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A156969
 Sample ID: QARB02
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	9/27/02	18:14	C. Wani	8260B	9825

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	103.	80. - 128.
VOA Surr, DBFM	99.	81. - 121.

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.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0020	0.0526	0.0500	105	78. - 132.	9825	02-A156952
Chlorobenzene	mg/l	< 0.00200	0.0514	0.0500	103	79. - 124.	9825	02-A156952
1,1-Dichloroethene	mg/l	< 0.00200	0.0484	0.0500	97	68. - 141.	9825	02-A156952
Toluene	mg/l	< 0.0020	0.0528	0.0500	106	77. - 134.	9825	02-A156952
Trichloroethene	mg/l	< 0.00200	0.0520	0.0500	104	73. - 137.	9825	02-A156952
Tetrachloroethene	mg/l	< 0.00200	0.0494	0.0500	99	72. - 136.	9825	02-A156952
VOA Surr 1,2-DCA-d4	% Rec				104	73. - 133.	9825	
VOA Surr Toluene-d8	% Rec				105	80. - 121.	9825	
VOA Surr, 4-BFB	% Rec				97	80. - 128.	9825	
VOA Surr, DBFM	% Rec				108	81. - 121.	9825	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0526	0.0564	6.97	15.	9825
Chlorobenzene	mg/l	0.0514	0.0542	5.30	16.	9825
1,1-Dichloroethene	mg/l	0.0484	0.0512	5.62	19.	9825
Toluene	mg/l	0.0528	0.0562	6.24	16.	9825
Trichloroethene	mg/l	0.0520	0.0565	8.29	20.	9825
Tetrachloroethene	mg/l	0.0494	0.0534	7.78	23.	9825
VOA Surr 1,2-DCA-d4	% Rec		104.			9825
VOA Surr Toluene-d8	% Rec		103.			9825
VOA Surr, 4-BFB	% Rec		95.			9825
VOA Surr, DBFM	% Rec		109.			9825

ect QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 2

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.252	101	60 - 154	9825
Acetone	mg/l	0.250	0.250	100	60 - 154	9825
Benzene	mg/l	0.0500	0.0536	107	78 - 127	9825
Benzene	mg/l	0.0500	0.0528	106	78 - 127	9825
Bromobenzene	mg/l	0.0500	0.0502	100	80 - 120	9825
Bromobenzene	mg/l	0.0500	0.0506	101	80 - 120	9825
Bromochloromethane	mg/l	0.0500	0.0541	108	66 - 137	9825
Bromochloromethane	mg/l	0.0500	0.0542	108	66 - 137	9825
Bromoform	mg/l	0.0500	0.0477	95	66 - 129	9825
Bromoform	mg/l	0.0500	0.0464	93	66 - 129	9825
Bromomethane	mg/l	0.0500	0.0463	93	47 - 163	9825
Bromomethane	mg/l	0.0500	0.0446	89	47 - 163	9825
2-Butanone	mg/l	0.250	0.253	101	75 - 140	9825
2-Butanone	mg/l	0.250	0.246	98	75 - 140	9825
n-Butylbenzene	mg/l	0.0500	0.0569	114	61 - 131	9825
n-Butylbenzene	mg/l	0.0500	0.0528	106	61 - 131	9825
sec-Butylbenzene	mg/l	0.0500	0.0510	102	72 - 124	9825
sec-Butylbenzene	mg/l	0.0500	0.0490	98	72 - 124	9825
t-Butylbenzene	mg/l	0.0500	0.0557	111	74 - 123	9825
t-Butylbenzene	mg/l	0.0500	0.0544	109	74 - 123	9825
Carbon disulfide	mg/l	0.0500	0.0569	114	67 - 138	9825
Carbon disulfide	mg/l	0.0500	0.0532	106	67 - 138	9825
Carbon tetrachloride	mg/l	0.0500	0.0471	94	69 - 132	9825
Carbon tetrachloride	mg/l	0.0500	0.0468	94	69 - 132	9825
Chlorobenzene	mg/l	0.0500	0.0514	103	81 - 120	9825
Chlorobenzene	mg/l	0.0500	0.0505	101	81 - 120	9825
Chloroethane	mg/l	0.0500	0.0545	109	65 - 134	9825
Chloroethane	mg/l	0.0500	0.0516	103	65 - 134	9825
Chloroform	mg/l	0.0500	0.0558	112	77 - 125	9825
Chloroform	mg/l	0.0500	0.0545	109	77 - 125	9825
Chloromethane	mg/l	0.0500	0.0523	105	43 - 142	9825

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 3

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Chloromethane	mg/l	0.0500	0.0472	94	43 - 142	9825
2-Chlorotoluene	mg/l	0.0500	0.0529	106	76 - 126	9825
2-Chlorotoluene	mg/l	0.0500	0.0511	102	76 - 126	9825
4-Chlorotoluene	mg/l	0.0500	0.0538	108	79 - 123	9825
4-Chlorotoluene	mg/l	0.0500	0.0520	104	79 - 123	9825
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0491	98	64 - 132	9825
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0490	98	64 - 132	9825
Dibromochloromethane	mg/l	0.0500	0.0543	109	78 - 124	9825
Dibromochloromethane	mg/l	0.0500	0.0547	109	78 - 124	9825
1,2-Dibromoethane	mg/l	0.0500	0.0519	104	79 - 126	9825
1,2-Dibromoethane	mg/l	0.0500	0.0513	103	79 - 126	9825
Dibromomethane	mg/l	0.0500	0.0518	104	75 - 131	9825
Dibromomethane	mg/l	0.0500	0.0493	99	75 - 131	9825
1,2-Dichlorobenzene	mg/l	0.0500	0.0531	106	80 - 120	9825
1,2-Dichlorobenzene	mg/l	0.0500	0.0529	106	80 - 120	9825
1,3-Dichlorobenzene	mg/l	0.0500	0.0539	108	79 - 120	9825
1,3-Dichlorobenzene	mg/l	0.0500	0.0522	104	79 - 120	9825
1,4-Dichlorobenzene	mg/l	0.0500	0.0516	103	78 - 118	9825
1,4-Dichlorobenzene	mg/l	0.0500	0.0504	101	78 - 118	9825
Dichlorodifluoromethane	mg/l	0.0500	0.0502	100	45 - 149	9825
Dichlorodifluoromethane	mg/l	0.0500	0.0464	93	45 - 149	9825
1,1-Dichloroethane	mg/l	0.0500	0.0528	106	73 - 128	9825
1,1-Dichloroethane	mg/l	0.0500	0.0537	107	73 - 128	9825
1,2-Dichloroethane	mg/l	0.0500	0.0548	110	71 - 135	9825
1,2-Dichloroethane	mg/l	0.0500	0.0554	111	71 - 135	9825
1,1-Dichloroethene	mg/l	0.0500	0.0540	108	72 - 128	9825
1,1-Dichloroethene	mg/l	0.0500	0.0531	106	72 - 128	9825
cis-1,2-Dichloroethene	mg/l	0.0500	0.0564	113	76 - 127	9825
cis-1,2-Dichloroethene	mg/l	0.0500	0.0574	115	76 - 127	6483
cis-1,2-Dichloroethene	mg/l	0.0500	0.0532	106	76 - 127	9825
trans-1,2-Dichloroethene	mg/l	0.0500	0.0549	110	71 - 131	9825
trans-1,2-Dichloroethene	mg/l	0.0500	0.0544	109	71 - 131	9825
1,2-Dichloropropane	mg/l	0.0500	0.0516	103	75 - 127	9825

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 4

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
1,2-Dichloropropane	mg/l	0.0500	0.0518	104	75 - 127	9825
1,3-Dichloropropane	mg/l	0.0500	0.0523	105	81 - 128	9825
1,3-Dichloropropane	mg/l	0.0500	0.0514	103	81 - 128	9825
2,2-Dichloropropane	mg/l	0.0500	0.0603	121	45 - 145	9825
2,2-Dichloropropane	mg/l	0.0500	0.0439	88	45 - 145	9825
1,1-Dichloropropene	mg/l	0.0500	0.0534	107	76 - 127	9825
1,1-Dichloropropene	mg/l	0.0500	0.0535	107	76 - 127	9825
cis-1,3-Dichloropropene	mg/l	0.0500	0.0547	109	72 - 131	9825
cis-1,3-Dichloropropene	mg/l	0.0500	0.0536	107	72 - 131	9825
trans-1,3-Dichloropropene	mg/l	0.0500	0.0500	100	69 - 131	9825
trans-1,3-Dichloropropene	mg/l	0.0500	0.0466	93	69 - 131	9825
Ethylbenzene	mg/l	0.0500	0.0544	109	78 - 125	9825
Ethylbenzene	mg/l	0.0500	0.0532	106	78 - 125	9825
Hexachlorobutadiene	mg/l	0.0500	0.0540	108	59 - 126	9825
Hexachlorobutadiene	mg/l	0.0500	0.0511	102	59 - 126	9825
2-Hexanone	mg/l	0.250	0.244	98	71 - 142	9825
2-Hexanone	mg/l	0.250	0.232	93	71 - 142	9825
Isopropylbenzene	mg/l	0.0500	0.0548	110	78 - 123	9825
Isopropylbenzene	mg/l	0.0500	0.0542	108	78 - 123	9825
4-Isopropyltoluene	mg/l	0.0500	0.0558	112	73 - 125	9825
4-Isopropyltoluene	mg/l	0.0500	0.0534	107	73 - 125	9825
4-Methyl-2-pentanone	mg/l	0.250	0.254	102	71 - 141	9825
4-Methyl-2-pentanone	mg/l	0.250	0.235	94	71 - 141	9825
Methylene chloride	mg/l	0.0500	0.0527	105	70 - 140	9825
Methylene chloride	mg/l	0.0500	0.0517	103	70 - 140	9825
Naphthalene	mg/l	0.0500	0.0488	98	52 - 140	9825
Naphthalene	mg/l	0.0500	0.0483	97	52 - 140	9825
n-Propylbenzene	mg/l	0.0500	0.0549	110	75 - 125	9825
n-Propylbenzene	mg/l	0.0500	0.0526	105	75 - 125	9825
Styrene	mg/l	0.0500	0.0497	99	82 - 122	9825
Styrene	mg/l	0.0500	0.0483	97	82 - 122	9825
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0516	103	85 - 123	9825
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0513	103	85 - 123	9825

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0518	104	74 - 133	9825
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0466	93	74 - 133	9825
Tetrachloroethene	mg/l	0.0500	0.0515	103	76 - 123	9825
Tetrachloroethene	mg/l	0.0500	0.0495	99	76 - 123	9825
Toluene	mg/l	0.0500	0.0549	110	78 - 127	9825
Toluene	mg/l	0.0500	0.0515	103	78 - 127	9825
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0543	109	59 - 132	9825
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0515	103	59 - 132	9825
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0559	112	60 - 133	9825
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0543	109	60 - 133	9825
1,1,1-Trichloroethane	mg/l	0.0500	0.0548	110	74 - 128	9825
1,1,1-Trichloroethane	mg/l	0.0500	0.0539	108	74 - 128	9825
1,1,2-Trichloroethane	mg/l	0.0500	0.0519	104	85 - 125	9825
1,1,2-Trichloroethane	mg/l	0.0500	0.0511	102	85 - 125	9825
Trichloroethene	mg/l	0.0500	0.0519	104	78 - 125	9825
Trichloroethene	mg/l	0.0500	0.0538	108	78 - 125	6483
Trichloroethene	mg/l	0.0500	0.0551	110	78 - 125	9825
1,2,3-Trichloropropane	mg/l	0.0500	0.0526	105	75 - 130	9825
1,2,3-Trichloropropane	mg/l	0.0500	0.0504	101	75 - 130	9825
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0518	104	77 - 122	9825
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0504	101	77 - 122	9825
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0513	103	75 - 125	9825
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0502	100	75 - 125	9825
Vinyl chloride	mg/l	0.0500	0.0544	109	61 - 140	9825
Vinyl chloride	mg/l	0.0500	0.0501	100	61 - 140	9825
Xylenes (Total)	mg/l	0.150	0.166	111	77 - 126	9825
Xylenes (Total)	mg/l	0.150	0.160	107	77 - 126	9825
Bromodichloromethane	mg/l	0.0500	0.0542	108	79 - 126	9825
Bromodichloromethane	mg/l	0.0500	0.0536	107	79 - 126	9825
Trichlorofluoromethane	mg/l	0.0500	0.0533	107	60 - 140	9825
Trichlorofluoromethane	mg/l	0.0500	0.0504	101	60 - 140	9825

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 6

VOA Surr 1,2-DCA-d4	% Rec	103	73 - 133	9825
VOA Surr 1,2-DCA-d4	% Rec	100	73 - 133	6483
VOA Surr 1,2-DCA-d4	% Rec	101	73 - 133	9825
VOA Surr Toluene-d8	% Rec	108	80 - 121	9825
VOA Surr Toluene-d8	% Rec	104	80 - 121	6483
VOA Surr Toluene-d8	% Rec	101	80 - 121	9825
VOA Surr, 4-BFB	% Rec	99	80 - 128	9825
VOA Surr, 4-BFB	% Rec	97	80 - 128	6483
VOA Surr, 4-BFB	% Rec	97	80 - 128	9825
VOA Surr, DBFM	% Rec	111	81 - 121	9825
VOA Surr, DBFM	% Rec	107	81 - 121	6483
VOA Surr, DBFM	% Rec	104	81 - 121	9825

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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VOA PARAMETERS					
Acetone	< 0.00470	mg/l	9825	9/27/02	16:39
Acetone	< 0.00470	mg/l	9825	9/28/02	4:49
Benzene	< 0.0005	mg/l	9825	9/27/02	16:39
Benzene	< 0.0005	mg/l	9825	9/28/02	4:49
Bromobenzene	< 0.00030	mg/l	9825	9/27/02	16:39
Bromobenzene	< 0.00030	mg/l	9825	9/28/02	4:49
Bromochloromethane	< 0.00030	mg/l	9825	9/27/02	16:39
Bromochloromethane	< 0.00030	mg/l	9825	9/28/02	4:49
Bromoform	< 0.00060	mg/l	9825	9/27/02	16:39
Bromoform	< 0.00060	mg/l	9825	9/28/02	4:49
Bromomethane	< 0.00060	mg/l	9825	9/27/02	16:39
Bromomethane	< 0.00060	mg/l	9825	9/28/02	4:49
2-Butanone	< 0.00310	mg/l	9825	9/27/02	16:39
2-Butanone	< 0.00310	mg/l	9825	9/28/02	4:49
n-Butylbenzene	< 0.00010	mg/l	9825	9/27/02	16:39
n-Butylbenzene	< 0.00010	mg/l	9825	9/28/02	4:49
sec-Butylbenzene	< 0.00030	mg/l	9825	9/27/02	16:39
sec-Butylbenzene	< 0.00030	mg/l	9825	9/28/02	4:49
t-Butylbenzene	< 0.00030	mg/l	9825	9/27/02	16:39

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
t-Butylbenzene	< 0.00030	mg/l	9825	9/28/02	4:49
Carbon disulfide	< 0.00020	mg/l	9825	9/27/02	16:39
Carbon disulfide	< 0.00020	mg/l	9825	9/28/02	4:49
Carbon tetrachloride	< 0.00040	mg/l	9825	9/27/02	16:39
Carbon tetrachloride	< 0.00040	mg/l	9825	9/28/02	4:49
Chlorobenzene	< 0.00020	mg/l	9825	9/27/02	16:39
Chlorobenzene	< 0.00020	mg/l	9825	9/28/02	4:49
Chloroethane	< 0.00100	mg/l	9825	9/27/02	16:39
Chloroethane	< 0.00100	mg/l	9825	9/28/02	4:49
Chloroform	< 0.00080	mg/l	9825	9/27/02	16:39
Chloroform	< 0.00080	mg/l	9825	9/28/02	4:49
Chloromethane	< 0.00070	mg/l	9825	9/27/02	16:39
Chloromethane	< 0.00070	mg/l	9825	9/28/02	4:49
2-Chlorotoluene	< 0.00040	mg/l	9825	9/27/02	16:39
2-Chlorotoluene	< 0.00040	mg/l	9825	9/28/02	4:49
4-Chlorotoluene	< 0.00050	mg/l	9825	9/27/02	16:39
4-Chlorotoluene	< 0.00050	mg/l	9825	9/28/02	4:49
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	9825	9/27/02	16:39
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	9825	9/28/02	4:49
Dibromochloromethane	< 0.00050	mg/l	9825	9/27/02	16:39
Dibromochloromethane	< 0.00050	mg/l	9825	9/28/02	4:49
1,2-Dibromoethane	< 0.00040	mg/l	9825	9/27/02	16:39
1,2-Dibromoethane	< 0.00040	mg/l	9825	9/28/02	4:49
Dibromomethane	< 0.00090	mg/l	9825	9/27/02	16:39
Dibromomethane	< 0.00090	mg/l	9825	9/28/02	4:49
1,2-Dichlorobenzene	< 0.00020	mg/l	9825	9/27/02	16:39
1,2-Dichlorobenzene	< 0.00020	mg/l	9825	9/28/02	4:49
1,3-Dichlorobenzene	< 0.00030	mg/l	9825	9/27/02	16:39
1,3-Dichlorobenzene	< 0.00030	mg/l	9825	9/28/02	4:49
1,4-Dichlorobenzene	< 0.00040	mg/l	9825	9/27/02	16:39
1,4-Dichlorobenzene	< 0.00040	mg/l	9825	9/28/02	4:49
Dichlorodifluoromethane	< 0.00050	mg/l	9825	9/27/02	16:39
Dichlorodifluoromethane	< 0.00050	mg/l	9825	9/28/02	4:49

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 8

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
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1,1-Dichloroethane	< 0.00020	mg/l	9825	9/27/02	16:39
1,1-Dichloroethane	< 0.00020	mg/l	9825	9/28/02	4:49
1,2-Dichloroethane	< 0.00060	mg/l	9825	9/27/02	16:39
1,2-Dichloroethane	< 0.00060	mg/l	9825	9/28/02	4:49
1,1-Dichloroethene	< 0.00060	mg/l	9825	9/27/02	16:39
1,1-Dichloroethene	< 0.00060	mg/l	9825	9/28/02	4:49
cis-1,2-Dichloroethene	< 0.00060	mg/l	9825	9/27/02	16:39
cis-1,2-Dichloroethene	< 0.00060	mg/l	6483	9/28/02	17:53
cis-1,2-Dichloroethene	< 0.00060	mg/l	9825	9/28/02	4:49
trans-1,2-Dichloroethene	< 0.00050	mg/l	9825	9/27/02	16:39
trans-1,2-Dichloroethene	< 0.00050	mg/l	9825	9/28/02	4:49
1,2-Dichloropropane	< 0.00040	mg/l	9825	9/27/02	16:39
1,2-Dichloropropane	< 0.00040	mg/l	9825	9/28/02	4:49
1,3-Dichloropropane	< 0.00040	mg/l	9825	9/27/02	16:39
1,3-Dichloropropane	< 0.00040	mg/l	9825	9/28/02	4:49
2,2-Dichloropropane	< 0.00040	mg/l	9825	9/27/02	16:39
2,2-Dichloropropane	< 0.00040	mg/l	9825	9/28/02	4:49
1,1-Dichloropropene	< 0.00050	mg/l	9825	9/27/02	16:39
1,1-Dichloropropene	< 0.00050	mg/l	9825	9/28/02	4:49
cis-1,3-Dichloropropene	< 0.00030	mg/l	9825	9/27/02	16:39
cis-1,3-Dichloropropene	< 0.00030	mg/l	9825	9/28/02	4:49
trans-1,3-Dichloropropene	< 0.00050	mg/l	9825	9/27/02	16:39
trans-1,3-Dichloropropene	< 0.00050	mg/l	9825	9/28/02	4:49
Ethylbenzene	< 0.0003	mg/l	9825	9/27/02	16:39
Ethylbenzene	< 0.0003	mg/l	9825	9/28/02	4:49
Hexachlorobutadiene	< 0.00080	mg/l	9825	9/27/02	16:39
Hexachlorobutadiene	< 0.00080	mg/l	9825	9/28/02	4:49
2-Hexanone	< 0.00420	mg/l	9825	9/27/02	16:39
2-Hexanone	< 0.00420	mg/l	9825	9/28/02	4:49
Isopropylbenzene	< 0.00040	mg/l	9825	9/27/02	16:39
Isopropylbenzene	< 0.00040	mg/l	9825	9/28/02	4:49
4-Isopropyltoluene	< 0.00060	mg/l	9825	9/27/02	16:39
4-Isopropyltoluene	< 0.00060	mg/l	9825	9/28/02	4:49

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
4-Methyl-2-pentanone	< 0.00490	mg/l	9825	9/27/02	16:39
4-Methyl-2-pentanone	< 0.00490	mg/l	9825	9/28/02	4:49
Methylene chloride	< 0.00360	mg/l	9825	9/27/02	16:39
Methylene chloride	< 0.00360	mg/l	9825	9/28/02	4:49
Naphthalene	< 0.00120	mg/l	9825	9/27/02	16:39
Naphthalene	< 0.00120	mg/l	9825	9/28/02	4:49
n-Propylbenzene	< 0.00030	mg/l	9825	9/27/02	16:39
n-Propylbenzene	< 0.00030	mg/l	9825	9/28/02	4:49
Styrene	< 0.00040	mg/l	9825	9/27/02	16:39
Styrene	< 0.00040	mg/l	9825	9/28/02	4:49
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	9825	9/27/02	16:39
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	9825	9/28/02	4:49
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	9825	9/27/02	16:39
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	9825	9/28/02	4:49
Tetrachloroethene	< 0.00040	mg/l	9825	9/27/02	16:39
Tetrachloroethene	< 0.00040	mg/l	9825	9/28/02	4:49
Toluene	< 0.0006	mg/l	9825	9/27/02	16:39
Toluene	< 0.0006	mg/l	9825	9/28/02	4:49
1,2,3-Trichlorobenzene	< 0.00100	mg/l	9825	9/27/02	16:39
1,2,3-Trichlorobenzene	< 0.00100	mg/l	9825	9/28/02	4:49
1,2,4-Trichlorobenzene	< 0.00060	mg/l	9825	9/27/02	16:39
1,2,4-Trichlorobenzene	< 0.00060	mg/l	9825	9/28/02	4:49
1,1,1-Trichloroethane	< 0.00070	mg/l	9825	9/27/02	16:39
1,1,1-Trichloroethane	< 0.00070	mg/l	9825	9/28/02	4:49
1,1,2-Trichloroethane	< 0.00040	mg/l	9825	9/27/02	16:39
1,1,2-Trichloroethane	< 0.00040	mg/l	9825	9/28/02	4:49
Trichloroethene	< 0.00040	mg/l	9825	9/27/02	16:39
Trichloroethene	< 0.00040	mg/l	6483	9/28/02	17:53
Trichloroethene	< 0.00040	mg/l	9825	9/28/02	4:49
1,2,3-Trichloropropane	< 0.00060	mg/l	9825	9/27/02	16:39
1,2,3-Trichloropropane	< 0.00060	mg/l	9825	9/28/02	4:49
1,2,4-Trimethylbenzene	< 0.0003	mg/l	9825	9/27/02	16:39
1,2,4-Trimethylbenzene	< 0.0003	mg/l	9825	9/28/02	4:49

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 10

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,3,5-Trimethylbenzene	< 0.00100	mg/l	9825	9/27/02	16:39
1,3,5-Trimethylbenzene	< 0.00100	mg/l	9825	9/28/02	4:49
Vinyl chloride	< 0.00050	mg/l	9825	9/27/02	16:39
Vinyl chloride	< 0.00050	mg/l	9825	9/28/02	4:49
Xylenes (Total)	< 0.0009	mg/l	9825	9/27/02	16:39
Xylenes (Total)	< 0.0009	mg/l	9825	9/28/02	4:49
Bromodichloromethane	< 0.00030	mg/l	9825	9/27/02	16:39
Bromodichloromethane	< 0.00030	mg/l	9825	9/28/02	4:49
Trichlorofluoromethane	< 0.00040	mg/l	9825	9/27/02	16:39
Trichlorofluoromethane	< 0.00040	mg/l	9825	9/28/02	4:49
VOA Surr 1,2-DCA-d4	88.	% Rec	9825	9/27/02	16:39
VOA Surr 1,2-DCA-d4	89.	% Rec	6483	9/28/02	17:53
VOA Surr 1,2-DCA-d4	89.	% Rec	9825	9/28/02	4:49
VOA Surr Toluene-d8	103.	% Rec	9825	9/27/02	16:39
VOA Surr Toluene-d8	100.	% Rec	6483	9/28/02	17:53
VOA Surr Toluene-d8	103.	% Rec	9825	9/28/02	4:49
VOA Surr, 4-BFB	99.	% Rec	9825	9/27/02	16:39
VOA Surr, 4-BFB	102.	% Rec	6483	9/28/02	17:53
VOA Surr, 4-BFB	103.	% Rec	9825	9/28/02	4:49
VOA Surr, DBFM	99.	% Rec	9825	9/27/02	16:39
VOA Surr, DBFM	100.	% Rec	6483	9/28/02	17:53
VOA Surr, DBFM	100.	% Rec	9825	9/28/02	4:49

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 302380

September 22 - 24, 2002
Analytical Data

TestAmerica

INCORPORATED

10/ 3/02

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

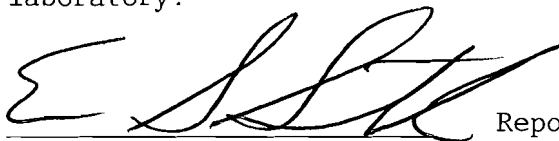
This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 302522.

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.

Sample Identification	Lab Number	Collection Date
BR-10	02-A157683	9/22/02
OB-04	02-A157684	9/23/02
BR-04	02-A157685	9/23/02
BR-05	02-A157686	9/23/02
OB-05	02-A157687	9/23/02
BR-09	02-A157688	9/23/02
OB-08	02-A157689	9/24/02
BR-11	02-A157690	9/24/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Report Date: 10/ 3/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157683

Sample ID: BR-10

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/22/02

Time Collected: 13:45

Date Received: 9/25/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.00500	1	9/29/02	20:17	R. Richmon	8260B	7503
Benzene	ND	mg/l	0.0010	1	9/29/02	20:17	R. Richmon	8260B	7503
Bromobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Bromochloromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Bromoform	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Bromomethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
2-Butanone	ND	mg/l	0.0500	1	9/29/02	20:17	R. Richmon	8260B	7503
n-Butylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
sec-Butylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
t-Butylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Carbon disulfide	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Carbon tetrachloride	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Chlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Chloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Chloroform	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Chloromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
2-Chlorotoluene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
4-Chlorotoluene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Dibromochloromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Dibromomethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157683
Sample ID: BR-10
Project: 51870.7
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	9/29/02	20:17	R. Richmon	8260B	7503
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
cis-1,2-Dichloroethene	0.120	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
trans-1,2-Dichloroethene	0.00980	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Ethylbenzene	ND	mg/l	0.0010	1	9/29/02	20:17	R. Richmon	8260B	7503
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
2-Hexanone	ND	mg/l	0.0100	1	9/29/02	20:17	R. Richmon	8260B	7503
Isopropylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/29/02	20:17	R. Richmon	8260B	7503
Methylene chloride	ND	mg/l	0.00250	1	9/29/02	20:17	R. Richmon	8260B	7503
Naphthalene	ND	mg/l	0.00300	1	9/29/02	20:17	R. Richmon	8260B	7503
n-Propylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Styrene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Tetrachloroethene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Toluene	ND	mg/l	0.0010	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Trichloroethene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/29/02	20:17	R. Richmon	8260B	7503
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Vinyl chloride	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503
Xylenes (Total)	ND	mg/l	0.0010	1	9/29/02	20:17	R. Richmon	8260B	7503
Bromodichloromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157683
 Sample ID: BR-10
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/29/02	20:17	R. Richmon	8260B	7503

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	86.	73. - 133.
VOA Surr Toluene-d8	86.	80. - 121.
VOA Surr, 4-BFB	98.	80. - 128.
VOA Surr, DBFM	84.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157684
Sample ID: OB-04
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/23/02
Time Collected: 9:34
Date Received: 9/25/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.00500	1	9/30/02	0:21	R. Richmon	8260B	7503
Benzene	ND	mg/l	0.0010	1	9/30/02	0:21	R. Richmon	8260B	7503
Bromobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Bromochloromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Bromoform	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Bromomethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
2-Butanone	ND	mg/l	0.0500	1	9/30/02	0:21	R. Richmon	8260B	7503
n-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
sec-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
t-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Carbon disulfide	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Carbon tetrachloride	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Chlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Chloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Chloroform	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Chloromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
2-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
4-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Dibromochloromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Dibromomethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157684
Sample ID: OB-04
Project: 51870.7
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	9/30/02	0:21	R. Richmon	8260B	7503
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1-Dichloroethene	0.00490	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
cis-1,2-Dichloroethene	1.95	mg/l	0.0200	20	9/30/02	18:56	R. Richmon	8260B	7524
trans-1,2-Dichloroethene	0.00750	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Ethylbenzene	ND	mg/l	0.0010	1	9/30/02	0:21	R. Richmon	8260B	7503
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
2-Hexanone	ND	mg/l	0.0100	1	9/30/02	0:21	R. Richmon	8260B	7503
Isopropylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/30/02	0:21	R. Richmon	8260B	7503
Methylene chloride	ND	mg/l	0.00250	1	9/30/02	0:21	R. Richmon	8260B	7503
Naphthalene	ND	mg/l	0.00300	1	9/30/02	0:21	R. Richmon	8260B	7503
n-Propylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Styrene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Tetrachloroethene	0.00180	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Toluene	ND	mg/l	0.0010	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Trichloroethene	3.76	mg/l	0.0200	20	9/30/02	18:56	R. Richmon	8260B	7524
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/30/02	0:21	R. Richmon	8260B	7503
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Vinyl chloride	0.00200	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503
Xylenes (Total)	ND	mg/l	0.0010	1	9/30/02	0:21	R. Richmon	8260B	7503
Bromodichloromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157684
 Sample ID: OB-04
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/30/02	0:21	R. Richmon	8260B	7503

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	90.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

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.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Lab Number: 02-A157685
Sample ID: BR-04
Sample Type: Ground water
Site ID:

Date Collected: 9/23/02
Time Collected: 10:26
Date Received: 9/25/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.00500	1	9/30/02	0:51	R. Richmon	8260B	7503
Benzene	ND	mg/l	0.0010	1	9/30/02	0:51	R. Richmon	8260B	7503
Bromobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Bromochloromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Bromoform	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Bromomethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
2-Butanone	ND	mg/l	0.0500	1	9/30/02	0:51	R. Richmon	8260B	7503
n-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
sec-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
t-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Carbon disulfide	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Carbon tetrachloride	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Chlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Chloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Chloroform	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Chloromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
2-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
4-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Dibromochloromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Dibromomethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157685
 Sample ID: BR-04
 Project: 51870.7
 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	9/30/02	0:51	R. Richmon	8260B	7503
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1-Dichloroethene	0.00830	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
cis-1,2-Dichloroethene	0.551	mg/l	0.0100	10	9/30/02	20:27	R. Richmon	8260B	7524
trans-1,2-Dichloroethene	0.0631	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Ethylbenzene	ND	mg/l	0.0010	1	9/30/02	0:51	R. Richmon	8260B	7503
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
2-Hexanone	ND	mg/l	0.0100	1	9/30/02	0:51	R. Richmon	8260B	7503
Isopropylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/30/02	0:51	R. Richmon	8260B	7503
Methylene chloride	ND	mg/l	0.00250	1	9/30/02	0:51	R. Richmon	8260B	7503
Naphthalene	ND	mg/l	0.00300	1	9/30/02	0:51	R. Richmon	8260B	7503
n-Propylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Styrene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Tetrachloroethene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Toluene	ND	mg/l	0.0010	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Trichloroethene	3.31	mg/l	0.0500	50	10/ 1/02	21:37	R. Richmon	8260B	7530
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/30/02	0:51	R. Richmon	8260B	7503
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Vinyl chloride	0.0322	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503
Xylenes (Total)	ND	mg/l	0.0010	1	9/30/02	0:51	R. Richmon	8260B	7503
Bromodichloromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157685

Sample ID: BR-04

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/30/02	0:51	R. Richmon	8260B	7503

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	73. - 133.
VOA Surr Toluene-d8	96.	80. - 121.
VOA Surr, 4-BFB	95.	80. - 128.
VOA Surr, DBFM	93.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157686
Sample ID: BR-05
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/23/02
Time Collected: 13:38
Date Received: 9/25/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.00500	1	9/30/02	1:22	R. Richmon	8260B	7503
Benzene	0.0073	mg/l	0.0010	1	9/30/02	1:22	R. Richmon	8260B	7503
Bromobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Bromochloromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Bromoform	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Bromomethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
2-Butanone	0.162	mg/l	0.0500	1	9/30/02	1:22	R. Richmon	8260B	7503
n-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
sec-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
t-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Carbon disulfide	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Carbon tetrachloride	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Chlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Chloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Chloroform	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Chloromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
2-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
4-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Dibromochloromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Dibromomethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157686
Sample ID: BR-05
Project: 51870.7
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	9/30/02	1:22	R. Richmon	8260B	7503
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1-Dichloroethene	0.0297	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
cis-1,2-Dichloroethene	1.72	mg/l	0.0100	10	9/30/02	19:57	R. Richmon	8260B	7524
trans-1,2-Dichloroethene	0.138	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Ethylbenzene	ND	mg/l	0.0010	1	9/30/02	1:22	R. Richmon	8260B	7503
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
2-Hexanone	ND	mg/l	0.0100	1	9/30/02	1:22	R. Richmon	8260B	7503
Isopropylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/30/02	1:22	R. Richmon	8260B	7503
Methylene chloride	ND	mg/l	0.00250	1	9/30/02	1:22	R. Richmon	8260B	7503
Naphthalene	ND	mg/l	0.00300	1	9/30/02	1:22	R. Richmon	8260B	7503
n-Propylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Styrene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Tetrachloroethene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Toluene	ND	mg/l	0.0010	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Trichloroethene	2.95	mg/l	0.0500	50	10/ 1/02	14:12	R. Richmon	8260B	7862
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/30/02	1:22	R. Richmon	8260B	7503
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503
Vinyl chloride	0.434	mg/l	0.0100	10	9/30/02	19:57	R. Richmon	8260B	7524
Xylenes (Total)	ND	mg/l	0.0010	1	9/30/02	1:22	R. Richmon	8260B	7503
Bromodichloromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157686
 Sample ID: BR-05
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/30/02	1:22	R. Richmon	8260B	7503

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	73. - 133.
VOA Surr Toluene-d8	103.	80. - 121.
VOA Surr, 4-BFB	96.	80. - 128.
VOA Surr, DBFM	96.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157687
Sample ID: OB-05
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/23/02
Time Collected: 14:25
Date Received: 9/25/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.00500	1	9/30/02	1:52	R. Richmon	8260B	7503
Benzene	ND	mg/l	0.0010	1	9/30/02	1:52	R. Richmon	8260B	7503
Bromobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Bromochloromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Bromoform	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Bromomethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
2-Butanone	ND	mg/l	0.0500	1	9/30/02	1:52	R. Richmon	8260B	7503
n-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
sec-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
t-Butylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Carbon disulfide	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Carbon tetrachloride	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Chlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Chloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Chloroform	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Chloromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
2-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
4-Chlorotoluene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Dibromochloromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2-Dibromoethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Dibromomethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Dichlorodifluoromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157687
Sample ID: OB-05
Project: 51870.7
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	9/30/02	1:52	R. Richmon	8260B	7503
1,2-Dichloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1-Dichloroethene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
cis-1,2-Dichloroethene	0.0150	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,3-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
2,2-Dichloropropane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Ethylbenzene	ND	mg/l	0.0010	1	9/30/02	1:52	R. Richmon	8260B	7503
Hexachlorobutadiene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
2-Hexanone	ND	mg/l	0.0100	1	9/30/02	1:52	R. Richmon	8260B	7503
Isopropylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
4-Isopropyltoluene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	9/30/02	1:52	R. Richmon	8260B	7503
Methylene chloride	ND	mg/l	0.00250	1	9/30/02	1:52	R. Richmon	8260B	7503
Naphthalene	ND	mg/l	0.00300	1	9/30/02	1:52	R. Richmon	8260B	7503
n-Propylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Styrene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Tetrachloroethene	0.00270	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Toluene	ND	mg/l	0.0010	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Trichloroethene	0.489	mg/l	0.0100	10	9/30/02	20:58	R. Richmon	8260B	7524
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	9/30/02	1:52	R. Richmon	8260B	7503
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Vinyl chloride	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503
Xylenes (Total)	ND	mg/l	0.0010	1	9/30/02	1:52	R. Richmon	8260B	7503
Bromodichloromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157687
Sample ID: OB-05
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	9/30/02	1:52	R. Richmon	8260B	7503

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	101.	80. - 128.
VOA Surr, DBFM	91.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157688

Sample ID: BR-09

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/23/02

Time Collected: 15:47

Date Received: 9/25/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	10/ 1/02	22:50	B.Herford	8260B	8283
Benzene	ND	mg/l	0.0020	1	10/ 1/02	22:50	B.Herford	8260B	8283
Bromobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Bromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Bromoform	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Bromomethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
2-Butanone	ND	mg/l	0.0500	1	10/ 1/02	22:50	B.Herford	8260B	8283
n-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
sec-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
t-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Carbon disulfide	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Carbon tetrachloride	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Chlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Chloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Chloroform	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Chloromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
2-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
4-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	10/ 1/02	22:50	B.Herford	8260B	8283
Dibromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2-Dibromoethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Dibromomethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Dichlorodifluoromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157688
Sample ID: BR-09
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2-Dichloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1-Dichloroethene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
cis-1,2-Dichloroethene	0.0643	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
trans-1,2-Dichloroethene	0.00510	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,3-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
2,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Ethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	22:50	B.Herford	8260B	8283
Hexachlorobutadiene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
2-Hexanone	ND	mg/l	0.0100	1	10/ 1/02	22:50	B.Herford	8260B	8283
Isopropylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
4-Isopropyltoluene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	10/ 1/02	22:50	B.Herford	8260B	8283
Methylene chloride	ND	mg/l	0.00500	1	10/ 1/02	22:50	B.Herford	8260B	8283
Naphthalene	ND	mg/l	0.00500	1	10/ 1/02	22:50	B.Herford	8260B	8283
n-Propylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Styrene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Tetrachloroethene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Toluene	ND	mg/l	0.0020	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Trichloroethene	4.59	mg/l	0.200	100	10/ 3/02	11:22	B.Herford	8260B	8321
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	22:50	B.Herford	8260B	8283
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Vinyl chloride	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283
Xylenes (Total)	ND	mg/l	0.0020	1	10/ 1/02	22:50	B.Herford	8260B	8283
Bromodichloromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157688
Sample ID: BR-09
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	10/ 1/02	22:50	B.Herford	8260B	8283

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	118.	73. - 133.
VOA Surr Toluene-d8	106.	80. - 121.
VOA Surr, 4-BFB	105.	80. - 128.
VOA Surr, DBFM	113.	81. - 121.

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.

of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157689

Sample ID: OB-08

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 9/24/02

Time Collected: 9:45

Date Received: 9/25/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	10/ 1/02	23:22	B.Herford	8260B	8283
Benzene	ND	mg/l	0.0020	1	10/ 1/02	23:22	B.Herford	8260B	8283
Bromobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Bromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Bromoform	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Bromomethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
2-Butanone	ND	mg/l	0.0500	1	10/ 1/02	23:22	B.Herford	8260B	8283
n-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
sec-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
t-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Carbon disulfide	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Carbon tetrachloride	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Chlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Chloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Chloroform	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Chloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
2-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
4-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	10/ 1/02	23:22	B.Herford	8260B	8283
Dibromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2-Dibromoethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Dibromomethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Dichlorodifluoromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157689
Sample ID: OB-08
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2-Dichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1-Dichloroethene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
cis-1,2-Dichloroethene	0.110	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
trans-1,2-Dichloroethene	0.00360	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,3-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
2,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Ethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	23:22	B.Herford	8260B	8283
Hexachlorobutadiene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
2-Hexanone	ND	mg/l	0.0100	1	10/ 1/02	23:22	B.Herford	8260B	8283
Isopropylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
4-Isopropyltoluene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	10/ 1/02	23:22	B.Herford	8260B	8283
Methylene chloride	ND	mg/l	0.00500	1	10/ 1/02	23:22	B.Herford	8260B	8283
Naphthalene	ND	mg/l	0.00500	1	10/ 1/02	23:22	B.Herford	8260B	8283
n-Propylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Styrene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Tetrachloroethene	0.00940	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Toluene	ND	mg/l	0.0020	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Trichloroethene	5.44	mg/l	0.200	100	10/ 3/02	11:53	B.Herford	8260B	8321
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	23:22	B.Herford	8260B	8283
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Vinyl chloride	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283
Xylenes (Total)	ND	mg/l	0.0020	1	10/ 1/02	23:22	B.Herford	8260B	8283
Bromodichloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157689
 Sample ID: OB-08
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	10/ 1/02	23:22	B.Herford	8260B	8283

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	114.	73. - 133.
VOA Surr Toluene-d8	102.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	109.	81. - 121.

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.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A157690
Sample ID: BR-11
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 9/24/02
Time Collected: 10:52
Date Received: 9/25/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	10/ 1/02	23:54	B.Herford	8260B	8283
Benzene	ND	mg/l	0.0020	1	10/ 1/02	23:54	B.Herford	8260B	8283
Bromobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Bromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Bromoform	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Bromomethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
2-Butanone	ND	mg/l	0.0500	1	10/ 1/02	23:54	B.Herford	8260B	8283
n-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
sec-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
t-Butylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Carbon disulfide	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Carbon tetrachloride	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Chlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Chloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Chloroform	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Chloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
2-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
4-Chlorotoluene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	10/ 1/02	23:54	B.Herford	8260B	8283
Dibromochloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2-Dibromoethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Dibromomethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Dichlorodifluoromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283

ple report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157690
Sample ID: BR-11
Project: 51870.7
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	0.00440	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2-Dichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1-Dichloroethene	0.0122	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
cis-1,2-Dichloroethene	0.440	mg/l	0.100	50	10/ 3/02	15:38	B.Herford	8260B	8321
trans-1,2-Dichloroethene	0.0824	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,3-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
2,2-Dichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Ethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	23:54	B.Herford	8260B	8283
Hexachlorobutadiene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
2-Hexanone	ND	mg/l	0.0100	1	10/ 1/02	23:54	B.Herford	8260B	8283
Isopropylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
4-Isopropyltoluene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	10/ 1/02	23:54	B.Herford	8260B	8283
Methylene chloride	ND	mg/l	0.00500	1	10/ 1/02	23:54	B.Herford	8260B	8283
Naphthalene	ND	mg/l	0.00500	1	10/ 1/02	23:54	B.Herford	8260B	8283
n-Propylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Styrene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Tetrachloroethene	0.00230	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Toluene	ND	mg/l	0.0020	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1,1-Trichloroethane	0.00750	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Trichloroethene	37.2	mg/l	1.00	500	10/ 3/02	16:10	B.Herford	8260B	8485
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	10/ 1/02	23:54	B.Herford	8260B	8283
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Vinyl chloride	0.0180	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283
Xylenes (Total)	ND	mg/l	0.0020	1	10/ 1/02	23:54	B.Herford	8260B	8283
Bromodichloromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A157690
 Sample ID: BR-11
 Project: 51870.7
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	10/ 1/02	23:54	B.Herford	8260B	8283

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	115.	73. - 133.
VOA Surr Toluene-d8	106.	80. - 121.
VOA Surr, 4-BFB	106.	80. - 128.
VOA Surr, DBFM	112.	81. - 121.

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.

of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	0.406	0.486	0.0500	160#	78. - 132.	7503	02A158895
Benzene	mg/l	< 0.0020	0.0547	0.0500	109	78. - 132.	8283	02-A157688
Chlorobenzene	mg/l	< 0.00020	0.0533	0.0500	107	79. - 124.	7503	02A158895
Chlorobenzene	mg/l	< 0.00200	0.0578	0.0500	116	79. - 124.	8283	02-A157688
1,1-Dichloroethene	mg/l	< 0.00060	0.0500	0.0500	100	68. - 141.	7503	02A158895
1,1-Dichloroethene	mg/l	0.00090	0.0425	0.0500	83	68. - 141.	8283	02-A157688
Toluene	mg/l	< 0.0006	0.0512	0.0500	102	77. - 134.	7503	02A158895
Toluene	mg/l	< 0.0020	0.0580	0.0500	116	77. - 134.	8283	02-A157688
Trichloroethene	mg/l	0.0240	0.0851	0.0500	122	73. - 137.	7503	02A158895
Tetrachloroethene	mg/l	< 0.00040	0.0712	0.0500	142#	72. - 136.	7503	02A158895
Tetrachloroethene	mg/l	0.00150	0.0591	0.0500	115	72. - 136.	8283	02-A157688
VOA Surr 1,2-DCA-d4	% Rec				87	73. - 133.	7503	
VOA Surr 1,2-DCA-d4	% Rec				110	73. - 133.	8283	
VOA Surr Toluene-d8	% Rec				93	80. - 121.	7503	
VOA Surr Toluene-d8	% Rec				105	80. - 121.	8283	
VOA Surr, 4-BFB	% Rec				100	80. - 128.	7503	
VOA Surr, 4-BFB	% Rec				100	80. - 128.	8283	
VOA Surr, DBFM	% Rec				90	81. - 121.	7503	
VOA Surr, DBFM	% Rec				113	81. - 121.	8283	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.486	0.481	1.03	15.	7503
Benzene	mg/l	0.0547	0.0539	1.47	15.	8283
Chlorobenzene	mg/l	0.0533	0.0560	4.94	16.	7503

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Chlorobenzene	mg/l	0.0578	0.0570	1.39	16.	8283
1,1-Dichloroethene	mg/l	0.0500	0.0498	0.40	19.	7503
1,1-Dichloroethene	mg/l	0.0425	0.0408	4.08	19.	8283
Toluene	mg/l	0.0512	0.0520	1.55	16.	7503
Toluene	mg/l	0.0580	0.0568	2.09	16.	8283
Trichloroethene	mg/l	0.0851	0.0690	20.90#	20.	7503
Tetrachloroethene	mg/l	0.0712	0.0752	5.46	23.	7503
Tetrachloroethene	mg/l	0.0591	0.0582	1.53	23.	8283
VOA Surr 1,2-DCA-d4	% Rec		86.			7503
VOA Surr 1,2-DCA-d4	% Rec		106.			8283
VOA Surr Toluene-d8	% Rec		91.			7503
VOA Surr Toluene-d8	% Rec		100.			8283
VOA Surr, 4-BFB	% Rec		101.			7503
VOA Surr, 4-BFB	% Rec		94.			8283
VOA Surr, DBFM	% Rec		92.			7503
VOA Surr, DBFM	% Rec		105.			8283

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.245	98	60 - 154	7503
Acetone	mg/l	0.250	0.215	86	60 - 154	7503
Acetone	mg/l	0.250	0.256	102	60 - 154	8283
Acetone	mg/l	0.250	0.259	104	60 - 154	8283
Benzene	mg/l	0.0500	0.0507	101	78 - 127	7503
Benzene	mg/l	0.0500	0.0502	100	78 - 127	7503
Benzene	mg/l	0.0500	0.0495	99	78 - 127	8283
Benzene	mg/l	0.0500	0.0564	113	78 - 127	8283
Bromobenzene	mg/l	0.0500	0.0564	113	80 - 120	7503
Bromobenzene	mg/l	0.0500	0.0554	111	80 - 120	7503

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromobenzene	mg/l	0.0500	0.0465	93	80 - 120	8283
Bromobenzene	mg/l	0.0500	0.0513	103	80 - 120	8283
Bromochloromethane	mg/l	0.0500	0.0537	107	66 - 137	7503
Bromochloromethane	mg/l	0.0500	0.0500	100	66 - 137	7503
Bromochloromethane	mg/l	0.0500	0.0538	108	66 - 137	8283
Bromochloromethane	mg/l	0.0500	0.0590	118	66 - 137	8283
Bromoform	mg/l	0.0500	0.0422	84	66 - 129	7503
Bromoform	mg/l	0.0500	0.0416	83	66 - 129	7503
Bromoform	mg/l	0.0500	0.0480	96	66 - 129	8283
Bromoform	mg/l	0.0500	0.0502	100	66 - 129	8283
Bromomethane	mg/l	0.0500	0.0399	80	47 - 163	7503
Bromomethane	mg/l	0.0500	0.0521	104	47 - 163	7503
Bromomethane	mg/l	0.0500	0.0426	85	47 - 163	8283
Bromomethane	mg/l	0.0500	0.0489	98	47 - 163	8283
2-Butanone	mg/l	0.250	0.257	103	75 - 140	7503
2-Butanone	mg/l	0.250	0.248	99	75 - 140	7503
2-Butanone	mg/l	0.250	0.249	100	75 - 140	8283
2-Butanone	mg/l	0.250	0.251	100	75 - 140	8283
n-Butylbenzene	mg/l	0.0500	0.0544	109	61 - 131	7503
n-Butylbenzene	mg/l	0.0500	0.0521	104	61 - 131	7503
n-Butylbenzene	mg/l	0.0500	0.0511	102	61 - 131	8283
n-Butylbenzene	mg/l	0.0500	0.0544	109	61 - 131	8283
sec-Butylbenzene	mg/l	0.0500	0.0536	107	72 - 124	7503
sec-Butylbenzene	mg/l	0.0500	0.0518	104	72 - 124	7503
sec-Butylbenzene	mg/l	0.0500	0.0461	92	72 - 124	8283
sec-Butylbenzene	mg/l	0.0500	0.0515	103	72 - 124	8283
t-Butylbenzene	mg/l	0.0500	0.0453	91	74 - 123	7503
t-Butylbenzene	mg/l	0.0500	0.0434	87	74 - 123	7503
t-Butylbenzene	mg/l	0.0500	0.0516	103	74 - 123	8283
t-Butylbenzene	mg/l	0.0500	0.0574	115	74 - 123	8283
Carbon disulfide	mg/l	0.0500	0.0557	111	67 - 138	7503
Carbon disulfide	mg/l	0.0500	0.0490	98	67 - 138	7503
Carbon disulfide	mg/l	0.0500	0.0519	104	67 - 138	8283

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Carbon disulfide	mg/l	0.0500	0.0591	118	67 - 138	8283
Carbon tetrachloride	mg/l	0.0500	0.0426	85	69 - 132	7503
Carbon tetrachloride	mg/l	0.0500	0.0427	85	69 - 132	7503
Carbon tetrachloride	mg/l	0.0500	0.0463	93	69 - 132	8283
Carbon tetrachloride	mg/l	0.0500	0.0538	108	69 - 132	8283
Chlorobenzene	mg/l	0.0500	0.0559	112	81 - 120	7503
Chlorobenzene	mg/l	0.0500	0.0539	108	81 - 120	7503
Chlorobenzene	mg/l	0.0500	0.0502	100	81 - 120	8283
Chlorobenzene	mg/l	0.0500	0.0544	109	81 - 120	8283
Chloroethane	mg/l	0.0500	0.0495	99	65 - 134	7503
Chloroethane	mg/l	0.0500	0.0480	96	65 - 134	7503
Chloroethane	mg/l	0.0500	0.0430	86	65 - 134	8283
Chloroethane	mg/l	0.0500	0.0502	100	65 - 134	8283
Chloroform	mg/l	0.0500	0.0508	102	77 - 125	7503
Chloroform	mg/l	0.0500	0.0471	94	77 - 125	7503
Chloroform	mg/l	0.0500	0.0535	107	77 - 125	8283
Chloroform	mg/l	0.0500	0.0577	115	77 - 125	8283
Chloromethane	mg/l	0.0500	0.0424	85	43 - 142	7503
Chloromethane	mg/l	0.0500	0.0442	88	43 - 142	7503
Chloromethane	mg/l	0.0500	0.0318	64	43 - 142	8283
Chloromethane	mg/l	0.0500	0.0355	71	43 - 142	8283
2-Chlorotoluene	mg/l	0.0500	0.0629	126	76 - 126	7503
2-Chlorotoluene	mg/l	0.0500	0.0625	125	76 - 126	7503
2-Chlorotoluene	mg/l	0.0500	0.0480	96	76 - 126	8283
2-Chlorotoluene	mg/l	0.0500	0.0546	109	76 - 126	8283
4-Chlorotoluene	mg/l	0.0500	0.0586	117	79 - 123	7503
4-Chlorotoluene	mg/l	0.0500	0.0577	115	79 - 123	7503
4-Chlorotoluene	mg/l	0.0500	0.0492	98	79 - 123	8283
4-Chlorotoluene	mg/l	0.0500	0.0549	110	79 - 123	8283
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0459	92	64 - 132	7503
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0409	82	64 - 132	7503
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0486	97	64 - 132	8283
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0478	96	64 - 132	8283

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Dibromochloromethane	mg/l	0.0500	0.0485	97	78 - 124	7503
Dibromochloromethane	mg/l	0.0500	0.0468	94	78 - 124	7503
Dibromochloromethane	mg/l	0.0500	0.0550	110	78 - 124	8283
Dibromochloromethane	mg/l	0.0500	0.0593	119	78 - 124	8283
1,2-Dibromoethane	mg/l	0.0500	0.0561	112	79 - 126	7503
1,2-Dibromoethane	mg/l	0.0500	0.0528	106	79 - 126	7503
1,2-Dibromoethane	mg/l	0.0500	0.0532	106	79 - 126	8283
1,2-Dibromoethane	mg/l	0.0500	0.0554	111	79 - 126	8283
Dibromomethane	mg/l	0.0500	0.0504	101	75 - 131	7503
Dibromomethane	mg/l	0.0500	0.0497	99	75 - 131	7503
Dibromomethane	mg/l	0.0500	0.0507	101	75 - 131	8283
Dibromomethane	mg/l	0.0500	0.0532	106	75 - 131	8283
1,2-Dichlorobenzene	mg/l	0.0500	0.0574	115	80 - 120	7503
1,2-Dichlorobenzene	mg/l	0.0500	0.0561	112	80 - 120	7503
1,2-Dichlorobenzene	mg/l	0.0500	0.0497	99	80 - 120	8283
1,2-Dichlorobenzene	mg/l	0.0500	0.0537	107	80 - 120	8283
1,3-Dichlorobenzene	mg/l	0.0500	0.0576	115	79 - 120	7503
1,3-Dichlorobenzene	mg/l	0.0500	0.0559	112	79 - 120	7503
1,3-Dichlorobenzene	mg/l	0.0500	0.0493	99	79 - 120	8283
1,3-Dichlorobenzene	mg/l	0.0500	0.0540	108	79 - 120	8283
1,4-Dichlorobenzene	mg/l	0.0500	0.0583	117	78 - 118	7503
1,4-Dichlorobenzene	mg/l	0.0500	0.0568	114	78 - 118	7503
1,4-Dichlorobenzene	mg/l	0.0500	0.0476	95	78 - 118	8283
1,4-Dichlorobenzene	mg/l	0.0500	0.0520	104	78 - 118	8283
Dichlorodifluoromethane	mg/l	0.0500	0.0505	101	45 - 149	7503
Dichlorodifluoromethane	mg/l	0.0500	0.0471	94	45 - 149	7503
Dichlorodifluoromethane	mg/l	0.0500	0.0261	52	45 - 149	8283
Dichlorodifluoromethane	mg/l	0.0500	0.0281	56	45 - 149	8283
1,1-Dichloroethane	mg/l	0.0500	0.0513	103	73 - 128	7503
1,1-Dichloroethane	mg/l	0.0500	0.0484	97	73 - 128	7503
1,1-Dichloroethane	mg/l	0.0500	0.0514	103	73 - 128	8283
1,1-Dichloroethane	mg/l	0.0500	0.0576	115	73 - 128	8283
1,2-Dichloroethane	mg/l	0.0500	0.0486	97	71 - 135	7503

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dichloroethane	mg/l	0.0500	0.0449	90	71 - 135	7503
1,2-Dichloroethane	mg/l	0.0500	0.0542	108	71 - 135	8283
1,2-Dichloroethane	mg/l	0.0500	0.0587	117	71 - 135	8283
1,1-Dichloroethene	mg/l	0.0500	0.0506	101	72 - 128	7503
1,1-Dichloroethene	mg/l	0.0500	0.0487	97	72 - 128	7503
1,1-Dichloroethene	mg/l	0.0500	0.0499	100	72 - 128	8283
1,1-Dichloroethene	mg/l	0.0500	0.0582	116	72 - 128	8283
cis-1,2-Dichloroethene	mg/l	0.0500	0.0503	101	76 - 127	7503
cis-1,2-Dichloroethene	mg/l	0.0500	0.0469	94	76 - 127	7503
cis-1,2-Dichloroethene	mg/l	0.0500	0.0475	95	76 - 127	7524
cis-1,2-Dichloroethene	mg/l	0.0500	0.0536	107	76 - 127	8283
cis-1,2-Dichloroethene	mg/l	0.0500	0.0587	117	76 - 127	8283
cis-1,2-Dichloroethene	mg/l	0.0500	0.0540	108	76 - 127	8321
trans-1,2-Dichloroethene	mg/l	0.0500	0.0512	102	71 - 131	7503
trans-1,2-Dichloroethene	mg/l	0.0500	0.0483	97	71 - 131	7503
trans-1,2-Dichloroethene	mg/l	0.0500	0.0532	106	71 - 131	8283
trans-1,2-Dichloroethene	mg/l	0.0500	0.0605	121	71 - 131	8283
1,2-Dichloropropane	mg/l	0.0500	0.0515	103	75 - 127	7503
1,2-Dichloropropane	mg/l	0.0500	0.0508	102	75 - 127	7503
1,2-Dichloropropane	mg/l	0.0500	0.0483	97	75 - 127	8283
1,2-Dichloropropane	mg/l	0.0500	0.0551	110	75 - 127	8283
1,3-Dichloropropane	mg/l	0.0500	0.0518	104	81 - 128	7503
1,3-Dichloropropane	mg/l	0.0500	0.0502	100	81 - 128	7503
1,3-Dichloropropane	mg/l	0.0500	0.0498	100	81 - 128	8283
1,3-Dichloropropane	mg/l	0.0500	0.0541	108	81 - 128	8283
2,2-Dichloropropane	mg/l	0.0500	0.0680	136	45 - 145	7503
2,2-Dichloropropane	mg/l	0.0500	0.0573	115	45 - 145	7503
2,2-Dichloropropane	mg/l	0.0500	0.0613	123	45 - 145	8283
2,2-Dichloropropane	mg/l	0.0500	0.0540	108	45 - 145	8283
1,1-Dichloropropene	mg/l	0.0500	0.0526	105	76 - 127	7503
1,1-Dichloropropene	mg/l	0.0500	0.0510	102	76 - 127	7503
1,1-Dichloropropene	mg/l	0.0500	0.0507	101	76 - 127	8283
1,1-Dichloropropene	mg/l	0.0500	0.0590	118	76 - 127	8283

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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cis-1,3-Dichloropropene	mg/l	0.0500	0.0475	95	72 - 131	7503
cis-1,3-Dichloropropene	mg/l	0.0500	0.0446	89	72 - 131	7503
cis-1,3-Dichloropropene	mg/l	0.0500	0.0544	109	72 - 131	8283
cis-1,3-Dichloropropene	mg/l	0.0500	0.0568	114	72 - 131	8283
trans-1,3-Dichloropropene	mg/l	0.0500	0.0445	89	69 - 131	7503
trans-1,3-Dichloropropene	mg/l	0.0500	0.0410	82	69 - 131	7503
trans-1,3-Dichloropropene	mg/l	0.0500	0.0487	97	69 - 131	8283
trans-1,3-Dichloropropene	mg/l	0.0500	0.0502	100	69 - 131	8283
Ethylbenzene	mg/l	0.0500	0.0572	114	78 - 125	7503
Ethylbenzene	mg/l	0.0500	0.0545	109	78 - 125	7503
Ethylbenzene	mg/l	0.0500	0.0513	103	78 - 125	8283
Ethylbenzene	mg/l	0.0500	0.0575	115	78 - 125	8283
Hexachlorobutadiene	mg/l	0.0500	0.0521	104	59 - 126	7503
Hexachlorobutadiene	mg/l	0.0500	0.0522	104	59 - 126	7503
Hexachlorobutadiene	mg/l	0.0500	0.0504	101	59 - 126	8283
Hexachlorobutadiene	mg/l	0.0500	0.0531	106	59 - 126	8283
2-Hexanone	mg/l	0.250	0.226	90	71 - 142	7503
2-Hexanone	mg/l	0.250	0.216	86	71 - 142	7503
2-Hexanone	mg/l	0.250	0.243	97	71 - 142	8283
2-Hexanone	mg/l	0.250	0.233	93	71 - 142	8283
Isopropylbenzene	mg/l	0.0500	0.0568	114	78 - 123	7503
Isopropylbenzene	mg/l	0.0500	0.0548	110	78 - 123	7503
Isopropylbenzene	mg/l	0.0500	0.0499	100	78 - 123	8283
Isopropylbenzene	mg/l	0.0500	0.0571	114	78 - 123	8283
4-Isopropyltoluene	mg/l	0.0500	0.0603	121	73 - 125	7503
4-Isopropyltoluene	mg/l	0.0500	0.0574	115	73 - 125	7503
4-Isopropyltoluene	mg/l	0.0500	0.0515	103	73 - 125	8283
4-Isopropyltoluene	mg/l	0.0500	0.0549	110	73 - 125	8283
4-Methyl-2-pentanone	mg/l	0.250	0.229	92	71 - 141	7503
4-Methyl-2-pentanone	mg/l	0.250	0.232	93	71 - 141	7503
4-Methyl-2-pentanone	mg/l	0.250	0.240	96	71 - 141	8283
4-Methyl-2-pentanone	mg/l	0.250	0.238	95	71 - 141	8283
Methylene chloride	mg/l	0.0500	0.0494	99	70 - 140	7503

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Methylene chloride	mg/l	0.0500	0.0464	93	70 - 140	7503
Methylene chloride	mg/l	0.0500	0.0498	100	70 - 140	8283
Methylene chloride	mg/l	0.0500	0.0556	111	70 - 140	8283
Naphthalene	mg/l	0.0500	0.0551	110	52 - 140	7503
Naphthalene	mg/l	0.0500	0.0545	109	52 - 140	7503
Naphthalene	mg/l	0.0500	0.0480	96	52 - 140	8283
Naphthalene	mg/l	0.0500	0.0482	96	52 - 140	8283
n-Propylbenzene	mg/l	0.0500	0.0594	119	75 - 125	7503
n-Propylbenzene	mg/l	0.0500	0.0568	114	75 - 125	7503
n-Propylbenzene	mg/l	0.0500	0.0496	99	75 - 125	8283
n-Propylbenzene	mg/l	0.0500	0.0562	112	75 - 125	8283
Styrene	mg/l	0.0500	0.0525	105	82 - 122	7503
Styrene	mg/l	0.0500	0.0502	100	82 - 122	7503
Styrene	mg/l	0.0500	0.0485	97	82 - 122	8283
Styrene	mg/l	0.0500	0.0524	105	82 - 122	8283
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0507	101	85 - 123	7503
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0474	95	85 - 123	7503
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0521	104	85 - 123	8283
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0568	114	85 - 123	8283
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0568	114	74 - 133	7503
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0559	112	74 - 133	7503
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0527	105	74 - 133	8283
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0519	104	74 - 133	8283
Tetrachloroethene	mg/l	0.0500	0.0565	113	76 - 123	7503
Tetrachloroethene	mg/l	0.0500	0.0546	109	76 - 123	7503
Tetrachloroethene	mg/l	0.0500	0.0489	98	76 - 123	8283
Tetrachloroethene	mg/l	0.0500	0.0536	107	76 - 123	8283
Toluene	mg/l	0.0500	0.0508	102	78 - 127	7503
Toluene	mg/l	0.0500	0.0493	99	78 - 127	7503
Toluene	mg/l	0.0500	0.0500	100	78 - 127	8283
Toluene	mg/l	0.0500	0.0556	111	78 - 127	8283
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0584	117	59 - 132	7503
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0569	114	59 - 132	7503

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0521	104	59 - 132	8283
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0543	109	59 - 132	8283
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0574	115	60 - 133	7503
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0568	114	60 - 133	7503
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0521	104	60 - 133	8283
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0553	111	60 - 133	8283
1,1,1-Trichloroethane	mg/l	0.0500	0.0452	90	74 - 128	7503
1,1,1-Trichloroethane	mg/l	0.0500	0.0438	88	74 - 128	7503
1,1,1-Trichloroethane	mg/l	0.0500	0.0526	105	74 - 128	8283
1,1,1-Trichloroethane	mg/l	0.0500	0.0608	122	74 - 128	8283
1,1,2-Trichloroethane	mg/l	0.0500	0.0542	108	85 - 125	7503
1,1,2-Trichloroethane	mg/l	0.0500	0.0526	105	85 - 125	7503
1,1,2-Trichloroethane	mg/l	0.0500	0.0513	103	85 - 125	8283
1,1,2-Trichloroethane	mg/l	0.0500	0.0539	108	85 - 125	8283
Trichloroethene	mg/l	0.0500	0.0479	96	78 - 125	7503
Trichloroethene	mg/l	0.0500	0.0484	97	78 - 125	7503
Trichloroethene	mg/l	0.0500	0.0472	94	78 - 125	7524
Trichloroethene	mg/l	0.0500	0.0533	107	78 - 125	7530
Trichloroethene	mg/l	0.0500	0.0533	107	78 - 125	7862
Trichloroethene	mg/l	0.0500	0.0468	94	78 - 125	8321
Trichloroethene	mg/l	0.0500	0.0468	94	78 - 125	8485
1,2,3-Trichloropropane	mg/l	0.0500	0.0540	108	75 - 130	7503
1,2,3-Trichloropropane	mg/l	0.0500	0.0522	104	75 - 130	7503
1,2,3-Trichloropropane	mg/l	0.0500	0.0536	107	75 - 130	8283
1,2,3-Trichloropropane	mg/l	0.0500	0.0523	105	75 - 130	8283
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0613	123 #	77 - 122	7503
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0594	119	77 - 122	7503
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0471	94	77 - 122	8283
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0520	104	77 - 122	8283
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0609	122	75 - 125	7503
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0592	118	75 - 125	7503
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0465	93	75 - 125	8283
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0518	104	75 - 125	8283

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Vinyl chloride	mg/l	0.0500	0.0510	102	61 - 140	7503
Vinyl chloride	mg/l	0.0500	0.0482	96	61 - 140	7503
Vinyl chloride	mg/l	0.0500	0.0485	97	61 - 140	7524
Vinyl chloride	mg/l	0.0500	0.0380	76	61 - 140	8283
Vinyl chloride	mg/l	0.0500	0.0440	88	61 - 140	8283
Xylenes (Total)	mg/l	0.150	0.176	117	77 - 126	7503
Xylenes (Total)	mg/l	0.150	0.168	112	77 - 126	7503
Xylenes (Total)	mg/l	0.150	0.158	105	77 - 126	8283
Xylenes (Total)	mg/l	0.150	0.174	116	77 - 126	8283
Bromodichloromethane	mg/l	0.0500	0.0536	107	79 - 126	7503
Bromodichloromethane	mg/l	0.0500	0.0525	105	79 - 126	7503
Bromodichloromethane	mg/l	0.0500	0.0531	106	79 - 126	8283
Bromodichloromethane	mg/l	0.0500	0.0589	118	79 - 126	8283
Trichlorofluoromethane	mg/l	0.0500	0.0470	94	60 - 140	7503
Trichlorofluoromethane	mg/l	0.0500	0.0465	93	60 - 140	7503
Trichlorofluoromethane	mg/l	0.0500	0.0472	94	60 - 140	8283
Trichlorofluoromethane	mg/l	0.0500	0.0530	106	60 - 140	8283
VOA Surr 1,2-DCA-d4	% Rec			92	73 - 133	7503
VOA Surr 1,2-DCA-d4	% Rec			89	73 - 133	7503
VOA Surr 1,2-DCA-d4	% Rec			90	73 - 133	7524
VOA Surr 1,2-DCA-d4	% Rec			63	73 - 133	7530
VOA Surr 1,2-DCA-d4	% Rec			63	73 - 133	7862
VOA Surr 1,2-DCA-d4	% Rec			103	73 - 133	8283
VOA Surr 1,2-DCA-d4	% Rec			105	73 - 133	8283
VOA Surr Toluene-d8	% Rec			95	80 - 121	7503
VOA Surr Toluene-d8	% Rec			96	80 - 121	7503
VOA Surr Toluene-d8	% Rec			94	80 - 121	7524
VOA Surr Toluene-d8	% Rec			90	80 - 121	7530
VOA Surr Toluene-d8	% Rec			90	80 - 121	7862
VOA Surr Toluene-d8	% Rec			103	80 - 121	8283
VOA Surr Toluene-d8	% Rec			105	80 - 121	8283
VOA Surr, 4-BFB	% Rec			102	80 - 128	7503
VOA Surr, 4-BFB	% Rec			100	80 - 128	7503

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, 4-BFB	% Rec			97	80 - 128	7524
VOA Surr, 4-BFB	% Rec			102	80 - 128	7530
VOA Surr, 4-BFB	% Rec			102	80 - 128	7862
VOA Surr, 4-BFB	% Rec			93	80 - 128	8283
VOA Surr, 4-BFB	% Rec			99	80 - 128	8283
VOA Surr, DBFM	% Rec			93	81 - 121	7503
VOA Surr, DBFM	% Rec			92	81 - 121	7503
VOA Surr, DBFM	% Rec			94	81 - 121	7524
VOA Surr, DBFM	% Rec			76	81 - 121	7530
VOA Surr, DBFM	% Rec			76	81 - 121	7862
VOA Surr, DBFM	% Rec			108	81 - 121	8283
VOA Surr, DBFM	% Rec			108	81 - 121	8283

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	7503	9/29/02	11:56
Acetone	< 0.00470	mg/l	7503	9/29/02	23:50
Acetone	< 0.00470	mg/l	8283	10/ 1/02	18:36
Acetone	< 0.00470	mg/l	8283	10/ 2/02	6:15
Benzene	< 0.0005	mg/l	7503	9/29/02	11:56
Benzene	< 0.0005	mg/l	7503	9/29/02	23:50
Benzene	< 0.0005	mg/l	8283	10/ 1/02	18:36
Benzene	< 0.0005	mg/l	8283	10/ 2/02	6:15
Bromobenzene	< 0.00030	mg/l	7503	9/29/02	11:56
Bromobenzene	< 0.00030	mg/l	7503	9/29/02	23:50
Bromobenzene	< 0.00030	mg/l	8283	10/ 1/02	18:36
Bromobenzene	< 0.00030	mg/l	8283	10/ 2/02	6:15
Bromochloromethane	< 0.00030	mg/l	7503	9/29/02	11:56
Bromochloromethane	< 0.00030	mg/l	7503	9/29/02	23:50

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromochloromethane	< 0.00030	mg/l	8283	10/ 1/02	18:36
Bromochloromethane	< 0.00030	mg/l	8283	10/ 2/02	6:15
Bromoform	< 0.00060	mg/l	7503	9/29/02	11:56
Bromoform	< 0.00060	mg/l	7503	9/29/02	23:50
Bromoform	< 0.00060	mg/l	8283	10/ 1/02	18:36
Bromoform	< 0.00060	mg/l	8283	10/ 2/02	6:15
Bromomethane	< 0.00060	mg/l	7503	9/29/02	11:56
Bromomethane	< 0.00060	mg/l	7503	9/29/02	23:50
Bromomethane	< 0.00060	mg/l	8283	10/ 1/02	18:36
Bromomethane	< 0.00060	mg/l	8283	10/ 2/02	6:15
2-Butanone	< 0.00310	mg/l	7503	9/29/02	11:56
2-Butanone	< 0.00310	mg/l	7503	9/29/02	23:50
2-Butanone	< 0.00310	mg/l	8283	10/ 1/02	18:36
2-Butanone	< 0.00310	mg/l	8283	10/ 2/02	6:15
n-Butylbenzene	< 0.00010	mg/l	7503	9/29/02	11:56
n-Butylbenzene	0.00080	mg/l	7503	9/29/02	23:50
n-Butylbenzene	< 0.00010	mg/l	8283	10/ 1/02	18:36
n-Butylbenzene	< 0.00010	mg/l	8283	10/ 2/02	6:15
sec-Butylbenzene	< 0.00030	mg/l	7503	9/29/02	11:56
sec-Butylbenzene	< 0.00030	mg/l	7503	9/29/02	23:50
sec-Butylbenzene	< 0.00030	mg/l	8283	10/ 1/02	18:36
sec-Butylbenzene	< 0.00030	mg/l	8283	10/ 2/02	6:15
t-Butylbenzene	< 0.00030	mg/l	7503	9/29/02	11:56
t-Butylbenzene	< 0.00030	mg/l	7503	9/29/02	23:50
t-Butylbenzene	< 0.00030	mg/l	8283	10/ 1/02	18:36
t-Butylbenzene	< 0.00030	mg/l	8283	10/ 2/02	6:15
Carbon disulfide	< 0.00020	mg/l	7503	9/29/02	11:56
Carbon disulfide	< 0.00020	mg/l	7503	9/29/02	23:50
Carbon disulfide	< 0.00020	mg/l	8283	10/ 1/02	18:36
Carbon disulfide	< 0.00020	mg/l	8283	10/ 2/02	6:15
Carbon tetrachloride	< 0.00040	mg/l	7503	9/29/02	11:56
Carbon tetrachloride	< 0.00040	mg/l	7503	9/29/02	23:50
Carbon tetrachloride	< 0.00040	mg/l	8283	10/ 1/02	18:36

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Carbon tetrachloride	< 0.00040	mg/l	8283	10/ 2/02	6:15
Chlorobenzene	< 0.00020	mg/l	7503	9/29/02	11:56
Chlorobenzene	< 0.00020	mg/l	7503	9/29/02	23:50
Chlorobenzene	< 0.00020	mg/l	8283	10/ 1/02	18:36
Chlorobenzene	< 0.00020	mg/l	8283	10/ 2/02	6:15
Chloroethane	< 0.00100	mg/l	7503	9/29/02	11:56
Chloroethane	< 0.00100	mg/l	7503	9/29/02	23:50
Chloroethane	< 0.00100	mg/l	8283	10/ 1/02	18:36
Chloroethane	< 0.00100	mg/l	8283	10/ 2/02	6:15
Chloroform	< 0.00080	mg/l	7503	9/29/02	11:56
Chloroform	< 0.00080	mg/l	7503	9/29/02	23:50
Chloroform	< 0.00080	mg/l	8283	10/ 1/02	18:36
Chloroform	< 0.00080	mg/l	8283	10/ 2/02	6:15
Chloromethane	< 0.00070	mg/l	7503	9/29/02	11:56
Chloromethane	< 0.00070	mg/l	7503	9/29/02	23:50
Chloromethane	< 0.00070	mg/l	8283	10/ 1/02	18:36
Chloromethane	< 0.00070	mg/l	8283	10/ 2/02	6:15
2-Chlorotoluene	< 0.00040	mg/l	7503	9/29/02	11:56
2-Chlorotoluene	< 0.00040	mg/l	7503	9/29/02	23:50
2-Chlorotoluene	< 0.00040	mg/l	8283	10/ 1/02	18:36
2-Chlorotoluene	< 0.00040	mg/l	8283	10/ 2/02	6:15
4-Chlorotoluene	< 0.00050	mg/l	7503	9/29/02	11:56
4-Chlorotoluene	< 0.00050	mg/l	7503	9/29/02	23:50
4-Chlorotoluene	< 0.00050	mg/l	8283	10/ 1/02	18:36
4-Chlorotoluene	< 0.00050	mg/l	8283	10/ 2/02	6:15
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7503	9/29/02	11:56
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7503	9/29/02	23:50
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	8283	10/ 1/02	18:36
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	8283	10/ 2/02	6:15
Dibromochloromethane	< 0.00050	mg/l	7503	9/29/02	11:56
Dibromochloromethane	< 0.00050	mg/l	7503	9/29/02	23:50
Dibromochloromethane	< 0.00050	mg/l	8283	10/ 1/02	18:36
Dibromochloromethane	< 0.00050	mg/l	8283	10/ 2/02	6:15

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dibromoethane	< 0.00040	mg/l	7503	9/29/02	11:56
1,2-Dibromoethane	< 0.00040	mg/l	7503	9/29/02	23:50
1,2-Dibromoethane	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,2-Dibromoethane	< 0.00040	mg/l	8283	10/ 2/02	6:15
Dibromomethane	< 0.00090	mg/l	7503	9/29/02	11:56
Dibromomethane	< 0.00090	mg/l	7503	9/29/02	23:50
Dibromomethane	< 0.00090	mg/l	8283	10/ 1/02	18:36
Dibromomethane	< 0.00090	mg/l	8283	10/ 2/02	6:15
1,2-Dichlorobenzene	< 0.00020	mg/l	7503	9/29/02	11:56
1,2-Dichlorobenzene	< 0.00020	mg/l	7503	9/29/02	23:50
1,2-Dichlorobenzene	< 0.00020	mg/l	8283	10/ 1/02	18:36
1,2-Dichlorobenzene	< 0.00020	mg/l	8283	10/ 2/02	6:15
1,3-Dichlorobenzene	< 0.00030	mg/l	7503	9/29/02	11:56
1,3-Dichlorobenzene	< 0.00030	mg/l	7503	9/29/02	23:50
1,3-Dichlorobenzene	< 0.00030	mg/l	8283	10/ 1/02	18:36
1,3-Dichlorobenzene	< 0.00030	mg/l	8283	10/ 2/02	6:15
1,4-Dichlorobenzene	< 0.00040	mg/l	7503	9/29/02	11:56
1,4-Dichlorobenzene	< 0.00040	mg/l	7503	9/29/02	23:50
1,4-Dichlorobenzene	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,4-Dichlorobenzene	< 0.00040	mg/l	8283	10/ 2/02	6:15
Dichlorodifluoromethane	< 0.00050	mg/l	7503	9/29/02	11:56
Dichlorodifluoromethane	< 0.00050	mg/l	7503	9/29/02	23:50
Dichlorodifluoromethane	< 0.00050	mg/l	8283	10/ 1/02	18:36
Dichlorodifluoromethane	< 0.00050	mg/l	8283	10/ 2/02	6:15
1,1-Dichloroethane	< 0.00020	mg/l	7503	9/29/02	11:56
1,1-Dichloroethane	< 0.00020	mg/l	7503	9/29/02	23:50
1,1-Dichloroethane	< 0.00020	mg/l	8283	10/ 1/02	18:36
1,1-Dichloroethane	< 0.00020	mg/l	8283	10/ 2/02	6:15
1,2-Dichloroethane	< 0.00060	mg/l	7503	9/29/02	11:56
1,2-Dichloroethane	< 0.00060	mg/l	7503	9/29/02	23:50
1,2-Dichloroethane	< 0.00060	mg/l	8283	10/ 1/02	18:36
1,2-Dichloroethane	< 0.00060	mg/l	8283	10/ 2/02	6:15
1,1-Dichloroethene	< 0.00060	mg/l	7503	9/29/02	11:56

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 15

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1-Dichloroethene	< 0.00060	mg/l	7503	9/29/02	23:50
1,1-Dichloroethene	< 0.00060	mg/l	8283	10/ 1/02	18:36
1,1-Dichloroethene	< 0.00060	mg/l	8283	10/ 2/02	6:15
cis-1,2-Dichloroethene	< 0.00060	mg/l	7503	9/29/02	11:56
cis-1,2-Dichloroethene	< 0.00060	mg/l	7503	9/29/02	23:50
cis-1,2-Dichloroethene	< 0.00060	mg/l	7524	9/30/02	10:56
cis-1,2-Dichloroethene	< 0.00060	mg/l	8283	10/ 1/02	18:36
cis-1,2-Dichloroethene	< 0.00060	mg/l	8283	10/ 2/02	6:15
cis-1,2-Dichloroethene	< 0.00060	mg/l	8321	10/ 3/02	2:23
trans-1,2-Dichloroethene	< 0.00050	mg/l	7503	9/29/02	11:56
trans-1,2-Dichloroethene	< 0.00050	mg/l	7503	9/29/02	23:50
trans-1,2-Dichloroethene	< 0.00050	mg/l	8283	10/ 1/02	18:36
trans-1,2-Dichloroethene	< 0.00050	mg/l	8283	10/ 2/02	6:15
1,2-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	11:56
1,2-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	23:50
1,2-Dichloropropane	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,2-Dichloropropane	< 0.00040	mg/l	8283	10/ 2/02	6:15
1,3-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	11:56
1,3-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	23:50
1,3-Dichloropropane	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,3-Dichloropropane	< 0.00040	mg/l	8283	10/ 2/02	6:15
2,2-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	11:56
2,2-Dichloropropane	< 0.00040	mg/l	7503	9/29/02	23:50
2,2-Dichloropropane	< 0.00040	mg/l	8283	10/ 1/02	18:36
2,2-Dichloropropane	< 0.00040	mg/l	8283	10/ 2/02	6:15
1,1-Dichloropropene	< 0.00050	mg/l	7503	9/29/02	11:56
1,1-Dichloropropene	< 0.00050	mg/l	7503	9/29/02	23:50
1,1-Dichloropropene	< 0.00050	mg/l	8283	10/ 1/02	18:36
1,1-Dichloropropene	< 0.00050	mg/l	8283	10/ 2/02	6:15
cis-1,3-Dichloropropene	< 0.00030	mg/l	7503	9/29/02	11:56
cis-1,3-Dichloropropene	< 0.00030	mg/l	7503	9/29/02	23:50
cis-1,3-Dichloropropene	< 0.00030	mg/l	8283	10/ 1/02	18:36
cis-1,3-Dichloropropene	< 0.00030	mg/l	8283	10/ 2/02	6:15

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 16

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
trans-1,3-Dichloropropene	< 0.00050	mg/l	7503	9/29/02	11:56
trans-1,3-Dichloropropene	< 0.00050	mg/l	7503	9/29/02	23:50
trans-1,3-Dichloropropene	< 0.00050	mg/l	8283	10/ 1/02	18:36
trans-1,3-Dichloropropene	< 0.00050	mg/l	8283	10/ 2/02	6:15
Ethylbenzene	< 0.0003	mg/l	7503	9/29/02	11:56
Ethylbenzene	< 0.0003	mg/l	7503	9/29/02	23:50
Ethylbenzene	< 0.0003	mg/l	8283	10/ 1/02	18:36
Ethylbenzene	< 0.0003	mg/l	8283	10/ 2/02	6:15
Hexachlorobutadiene	< 0.00080	mg/l	7503	9/29/02	11:56
Hexachlorobutadiene	< 0.00080	mg/l	7503	9/29/02	23:50
Hexachlorobutadiene	< 0.00080	mg/l	8283	10/ 1/02	18:36
Hexachlorobutadiene	< 0.00080	mg/l	8283	10/ 2/02	6:15
2-Hexanone	< 0.00420	mg/l	7503	9/29/02	11:56
2-Hexanone	< 0.00420	mg/l	7503	9/29/02	23:50
2-Hexanone	< 0.00420	mg/l	8283	10/ 1/02	18:36
2-Hexanone	< 0.00420	mg/l	8283	10/ 2/02	6:15
Isopropylbenzene	< 0.00040	mg/l	7503	9/29/02	11:56
Isopropylbenzene	< 0.00040	mg/l	7503	9/29/02	23:50
Isopropylbenzene	< 0.00040	mg/l	8283	10/ 1/02	18:36
Isopropylbenzene	< 0.00040	mg/l	8283	10/ 2/02	6:15
4-Isopropyltoluene	< 0.00060	mg/l	7503	9/29/02	11:56
4-Isopropyltoluene	< 0.00060	mg/l	7503	9/29/02	23:50
4-Isopropyltoluene	< 0.00060	mg/l	8283	10/ 1/02	18:36
4-Isopropyltoluene	< 0.00060	mg/l	8283	10/ 2/02	6:15
4-Methyl-2-pentanone	< 0.00490	mg/l	7503	9/29/02	11:56
4-Methyl-2-pentanone	< 0.00490	mg/l	7503	9/29/02	23:50
4-Methyl-2-pentanone	< 0.00490	mg/l	8283	10/ 1/02	18:36
4-Methyl-2-pentanone	< 0.00490	mg/l	8283	10/ 2/02	6:15
Methylene chloride	< 0.00360	mg/l	7503	9/29/02	11:56
Methylene chloride	< 0.00360	mg/l	7503	9/29/02	23:50
Methylene chloride	< 0.00360	mg/l	8283	10/ 1/02	18:36
Methylene chloride	< 0.00360	mg/l	8283	10/ 2/02	6:15
Naphthalene	< 0.00120	mg/l	7503	9/29/02	11:56

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 17

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	7503	9/29/02	23:50
Naphthalene	< 0.00120	mg/l	8283	10/ 1/02	18:36
Naphthalene	< 0.00120	mg/l	8283	10/ 2/02	6:15
n-Propylbenzene	< 0.00030	mg/l	7503	9/29/02	11:56
n-Propylbenzene	< 0.00030	mg/l	7503	9/29/02	23:50
n-Propylbenzene	< 0.00030	mg/l	8283	10/ 1/02	18:36
n-Propylbenzene	< 0.00030	mg/l	8283	10/ 2/02	6:15
Styrene	< 0.00040	mg/l	7503	9/29/02	11:56
Styrene	< 0.00040	mg/l	7503	9/29/02	23:50
Styrene	< 0.00040	mg/l	8283	10/ 1/02	18:36
Styrene	< 0.00040	mg/l	8283	10/ 2/02	6:15
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7503	9/29/02	11:56
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7503	9/29/02	23:50
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	8283	10/ 1/02	18:36
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	8283	10/ 2/02	6:15
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7503	9/29/02	11:56
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7503	9/29/02	23:50
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	8283	10/ 2/02	6:15
Tetrachloroethene	< 0.00040	mg/l	7503	9/29/02	11:56
Tetrachloroethene	< 0.00040	mg/l	7503	9/29/02	23:50
Tetrachloroethene	< 0.00040	mg/l	8283	10/ 1/02	18:36
Tetrachloroethene	< 0.00040	mg/l	8283	10/ 2/02	6:15
Toluene	< 0.0006	mg/l	7503	9/29/02	11:56
Toluene	< 0.0006	mg/l	7503	9/29/02	23:50
Toluene	< 0.0006	mg/l	8283	10/ 1/02	18:36
Toluene	< 0.0006	mg/l	8283	10/ 2/02	6:15
1,2,3-Trichlorobenzene	< 0.00100	mg/l	7503	9/29/02	11:56
1,2,3-Trichlorobenzene	0.00130	mg/l	7503	9/29/02	23:50
1,2,3-Trichlorobenzene	< 0.00100	mg/l	8283	10/ 1/02	18:36
1,2,3-Trichlorobenzene	< 0.00100	mg/l	8283	10/ 2/02	6:15
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7503	9/29/02	11:56
1,2,4-Trichlorobenzene	0.00090	mg/l	7503	9/29/02	23:50

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8283	10/ 1/02	18:36
1,2,4-Trichlorobenzene	< 0.00060	mg/l	8283	10/ 2/02	6:15
1,1,1-Trichloroethane	< 0.00070	mg/l	7503	9/29/02	11:56
1,1,1-Trichloroethane	< 0.00070	mg/l	7503	9/29/02	23:50
1,1,1-Trichloroethane	< 0.00070	mg/l	8283	10/ 1/02	18:36
1,1,1-Trichloroethane	< 0.00070	mg/l	8283	10/ 2/02	6:15
1,1,2-Trichloroethane	< 0.00040	mg/l	7503	9/29/02	11:56
1,1,2-Trichloroethane	< 0.00040	mg/l	7503	9/29/02	23:50
1,1,2-Trichloroethane	< 0.00040	mg/l	8283	10/ 1/02	18:36
1,1,2-Trichloroethane	< 0.00040	mg/l	8283	10/ 2/02	6:15
Trichloroethene	< 0.00040	mg/l	7503	9/29/02	11:56
Trichloroethene	< 0.00040	mg/l	7503	9/29/02	23:50
Trichloroethene	< 0.00040	mg/l	7524	9/30/02	10:56
Trichloroethene	< 0.00040	mg/l	7530	10/ 1/02	12:10
Trichloroethene	< 0.00040	mg/l	7862	10/ 1/02	12:10
Trichloroethene	< 0.00040	mg/l	8321	10/ 3/02	2:23
Trichloroethene	< 0.00040	mg/l	8485	10/ 3/02	2:23
1,2,3-Trichloropropane	< 0.00060	mg/l	7503	9/29/02	11:56
1,2,3-Trichloropropane	< 0.00060	mg/l	7503	9/29/02	23:50
1,2,3-Trichloropropane	< 0.00060	mg/l	8283	10/ 1/02	18:36
1,2,3-Trichloropropane	< 0.00060	mg/l	8283	10/ 2/02	6:15
1,2,4-Trimethylbenzene	< 0.0003	mg/l	7503	9/29/02	11:56
1,2,4-Trimethylbenzene	< 0.0003	mg/l	7503	9/29/02	23:50
1,2,4-Trimethylbenzene	< 0.0003	mg/l	8283	10/ 1/02	18:36
1,2,4-Trimethylbenzene	< 0.0003	mg/l	8283	10/ 2/02	6:15
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7503	9/29/02	11:56
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7503	9/29/02	23:50
1,3,5-Trimethylbenzene	< 0.00100	mg/l	8283	10/ 1/02	18:36
1,3,5-Trimethylbenzene	< 0.00100	mg/l	8283	10/ 2/02	6:15
Vinyl chloride	< 0.00050	mg/l	7503	9/29/02	11:56
Vinyl chloride	< 0.00050	mg/l	7503	9/29/02	23:50
Vinyl chloride	< 0.00050	mg/l	7524	9/30/02	10:56
Vinyl chloride	< 0.00050	mg/l	8283	10/ 1/02	18:36

ject QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.7
Page: 19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Vinyl chloride	< 0.00050	mg/l	8283	10/ 2/02	6:15
Xylenes (Total)	< 0.0009	mg/l	7503	9/29/02	11:56
Xylenes (Total)	< 0.0009	mg/l	7503	9/29/02	23:50
Xylenes (Total)	< 0.0009	mg/l	8283	10/ 1/02	18:36
Xylenes (Total)	< 0.0009	mg/l	8283	10/ 2/02	6:15
Bromodichloromethane	< 0.00030	mg/l	7503	9/29/02	11:56
Bromodichloromethane	< 0.00030	mg/l	7503	9/29/02	23:50
Bromodichloromethane	< 0.00030	mg/l	8283	10/ 1/02	18:36
Bromodichloromethane	< 0.00030	mg/l	8283	10/ 2/02	6:15
Trichlorofluoromethane	< 0.00040	mg/l	7503	9/29/02	11:56
Trichlorofluoromethane	< 0.00040	mg/l	7503	9/29/02	23:50
Trichlorofluoromethane	< 0.00040	mg/l	8283	10/ 1/02	18:36
Trichlorofluoromethane	< 0.00040	mg/l	8283	10/ 2/02	6:15
VOA Surr 1,2-DCA-d4	99.	% Rec	7503	9/29/02	11:56
VOA Surr 1,2-DCA-d4	100.	% Rec	7503	9/29/02	23:50
VOA Surr 1,2-DCA-d4	102.	% Rec	7524	9/30/02	10:56
VOA Surr 1,2-DCA-d4	85.	% Rec	7530	10/ 1/02	12:10
VOA Surr 1,2-DCA-d4	85.	% Rec	7862	10/ 1/02	12:10
VOA Surr 1,2-DCA-d4	92.	% Rec	8283	10/ 1/02	18:36
VOA Surr 1,2-DCA-d4	91.	% Rec	8283	10/ 2/02	6:15
VOA Surr Toluene-d8	99.	% Rec	7503	9/29/02	11:56
VOA Surr Toluene-d8	103.	% Rec	7503	9/29/02	23:50
VOA Surr Toluene-d8	119.	% Rec	7524	9/30/02	10:56
VOA Surr Toluene-d8	93.	% Rec	7530	10/ 1/02	12:10
VOA Surr Toluene-d8	93.	% Rec	7862	10/ 1/02	12:10
VOA Surr Toluene-d8	100.	% Rec	8283	10/ 1/02	18:36
VOA Surr Toluene-d8	102.	% Rec	8283	10/ 2/02	6:15
VOA Surr, 4-BFB	101.	% Rec	7503	9/29/02	11:56
VOA Surr, 4-BFB	96.	% Rec	7503	9/29/02	23:50
VOA Surr, 4-BFB	96.	% Rec	7524	9/30/02	10:56
VOA Surr, 4-BFB	102.	% Rec	7530	10/ 1/02	12:10
VOA Surr, 4-BFB	102.	% Rec	7862	10/ 1/02	12:10
VOA Surr, 4-BFB	97.	% Rec	8283	10/ 1/02	18:36

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.7
 Page: 20

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, 4-BFB	101.	% Rec	8283	10/ 2/02	6:15
VOA Surr, DBFM	97.	% Rec	7503	9/29/02	11:56
VOA Surr, DBFM	100.	% Rec	7503	9/29/02	23:50
VOA Surr, DBFM	111.	% Rec	7524	9/30/02	10:56
VOA Surr, DBFM	87.	% Rec	7530	10/ 1/02	12:10
VOA Surr, DBFM	87.	% Rec	7862	10/ 1/02	12:10
VOA Surr, DBFM	101.	% Rec	8283	10/ 1/02	18:36
VOA Surr, DBFM	100.	% Rec	8283	10/ 2/02	6:15

Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 302522

APPENDIX C

CHAIN-OF-CUSTODY FORMS

Test America

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

301365

Client Name: Harding ESE Client #: 4997
Address: 1431 Center Point Blvd Suite 150
City/State/Zip Code: Knoxville TN 37932
Project Manager: Rick Ryan
Telephone Number: 865.531.922 Fax: 865.531.8226
Sampler Name: (Print Name) Janna Peeler
Sampler Signature: Janna Peeler

Project Name: Former Taylor Instruments
Project #: 51870.7
Site/Location ID: Rochester State: NY
Report To: Rick Ryan Janna Peeler
Invoice To: Rick Ryan
Quote #: 102501.216.2.99 PO#: 6599

JAT ☒ Standard ☐ Rush (surcharges may apply)		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:										REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Date Needed: _____ Fax Results: Y N							HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC's (8260) Chloride (325.1) Alkalinity (310.1) Carbon Dioxide (4500B) Nitrate 353.2 Sulfate 375.4 Sulfide 376.1 Methane/ethane/ ethene 8015M TOC 415.1 Iron (11) 6010P	QC Deliverables None ☒ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other: _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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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: Fax COC to

Relinquished By: <u>Janna Peeler</u>	Date: <u>9/17/02</u>	Time: <u>16:00</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Cry</u>	Date: <u>9/18</u>	Time: <u>9:00</u>

Knoxville Office
Fax (865) 555-1293

Client Name Hardina ESE

Client #:

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922

Fax: 865.531.8226

Sampler Name: (Print Name) Lanna Rexler

Sampler Signature: 

Project Name: Former Taylor Instruments

Project #: 57870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan, Janna Peculer

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

[illegible]

Fax # (865) 693-4723



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name

Client #

4997

Address:

Harding ESE

City/State/Zip Code:

1431 Center Point Blvd Suite 150

Project Manager:

Rick Ryan

Knoxville TN 37932

Telephone Number:

865.531.1922

Fax:

865.531.8226

Sampler Name: (Print Name)

Janna Peever

Sampler Signature:

Janna Peever

Project Name:

Former Taylor Instruments

Project #:

51870.7

Site/Location ID:

Rochester

State:

NY

Report To:

Rick Ryan

Janna Peever

Invoice To:

Rick Ryan

Quote #:

102501.216.2.99

PO#: 6599

TAP ☒ Standard ☐ Rush (surcharges may apply) Date Needed: Fax Results: Y (N)	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix		Preservation & # of Containers								Analyze For:										REMARKS
						SL - Sludge GW - Groundwater WW - Wastewater	DW - Drinking Water S - Soil/Solid Specify Other	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	Voc's 8260	Chloride 325.1	Alkalinity 310.1	Carbon dioxide 4500B	Nitrate 353.2	Sulfate 375.4	Sulfide 376.1	Methane/ethane/ethene 8015M	TOC 415.1	Iron (II) 6010P		
	OB-07	9/19/02	850	G		GW		9	1				6		3	1	1	2	1	1	1	3	2	1	154313	
	OB-07 (MS)	9/19/02	915	G		GW		3							3										matrix spike	
	OB-07 (MSD)	9/19/02	920	G		GW		3							3										m.sp. dupl.	
	W-5	9/19/02	990	G		GW		9	1				6		3	1	1	2	1	1	1	3	2	1	154314	
	W-5 (dup)	9/19/02	1101	G		GW		3							3										154316	
	W-4	9/19/02	1425	G		GW		3							3										154317	
	TW-13	9/19/02	1537	G		GW		3							3										154318	
	TW-09	9/19/02	1600	G		GW		9	1				6		3	1	1	2	1	1	1	3	2	1	154315	

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 35c
Custody Seals: Y (N) N/A
Bottles Supplied by Test America: Y N
Fax COC to
Method of Shipment: Office

Relinquished By: Janna Peever Date: 9/19/02 Time: 1630 Received By: Date: Time:
Relinquished By: Date: Time: Received By: Date: Time:
Relinquished By: Date: Time: Received By: Date: 9/20/02 Time: 0900

Fax 615-4723

Client Name

Harding ESE

Client #:

4997

Address:

1431 Center Point Blvd Suite 150

Project Name:

Former Taylor Instruments

City/State/Zip Code:

Knoxville TN 37932

Project #:

51870.7

Project Manager:

Rick Ryan

Site/Location ID:

Rochester

State:

NY

Telephone Number:

865 531.1922

Fax: 865.531.8226

Report To:

Pick Ryan Janna Peerler

Sampler Name: (Print Name)

Anna Pender

Invoice To:

Rick Ryar

Sampler Signature:

Karna Becker

Quote #:

102501.216.299 PO#: 6599

TAT		Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	Analyze For:	QC Deliverables
☒ Standard						SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)		☐ None ☒ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other: _____
SAMPLE ID									REMARKS
OB-06	9/20/02	857	G		GN	3		3	156 960
BR-08	9/20/02	1010	G		GN	3		3	61
BR-17	9/20/02	1113	G		GN	3		3	62
BR-03	9/20/02	1353	G		GN	3		3	63
BR-14	9/20/02	1515	G		GN	3		3	64
BR-01	9/20/02	1624	G		GN	3		3	65
BR-02	9/21/02	849	G		GN	3		3	66
QATB02	9/21/02	000	G		GN	1		1	67 trip blank
QAFB02	9/21/02	913	G		GN	3		3	68 field blank
QARB02	9/21/02	918	G		GN	3		3	156 96A rinse blank
Special Instructions:									LABORATORY COMMENTS:
									Init Lab Temp:
									Rec Lab Temp: 3.5
Relinquished By: [Signature]	Date: 9/23/02	Time: 10:42	Received By:			Date:	Time:	Custody Seals: Y N/A	
Relinquished By:	Date:	Time:	Received By:			Date:	Time:	Bottles Supplied by Test America: Y N	
Relinquished By:	Date:	Time:	Received By: [Signature]			Date: 9-24-02	Time: [Signature]	Method of Shipping: Fax COC to	

Knoxville Office
Fax # (865) 693-4723

Client Name: Harding ESE Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Reevler

Sampler Signature: Janna Reevler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Reevler

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

TAT		Date Needed:		Fax Results:		Date Sampled		Time Sampled		G = Grab, C = Composite		Field Filtered		Matrix		Preservation & # of Containers		Analyze For:		QC Deliverables		REMARKS	
☒ Standard				☐ Rush (surcharges may apply)										SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other		HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)				☐ None ☒ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other: _____			
SAMPLE ID																							
BR-06		9/21/02		1024		G								GW		3				156 952			
BR-06 (MS)		9/21/02		1026		G								GW		3						matrix spike	
BR-06 (MSD)		9/21/02		1028		G								GW		3						m-spike dupl.	
BR-07		9/21/02		1147		G								GW		3				53			
BR-07 (dup)		9/21/02		1150		G								GW		3				54			
W-6		9/21/02		1205		G								GW		3				55			
BR-16		9/21/02		1405		G								GW		3				56			
BR-12		9/22/02		857		G								GW		3				57			
BR-13		9/22/02		1004		G								GW		3				58			
BR-15		9/22/02		1125		G								GW		3				156 959			

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp: 3.5

Custody Seals: Y N N/A

Bottles Supplied by Test America: Y N

Method of Shipment: Fax COC to

Knoxville Office

Fax # (865) 693-4723

Relinquished By: <u>Janna Reevler</u>	Date: <u>9/23/02</u>	Time: <u>10:42</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>mmuBl</u>	Date: <u>9/24/02</u>	Time: <u>1:40</u>

Client Name: Harding ESE Client #: 49997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Anna Keeler

Sampler Signature: Anna Klebe

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Peever

Invoice To: Rick Ryan

Quote #: 102501.716-2.99 PO#: 6599

TAT ☒ Standard ☐ Rush (surcharges may apply)		Date Needed: _____		Fax Results: Y ☒ N ☐		SAMPLE ID		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		
						BR-10		9/22/02	1345	G		GW	3							3											02A157683	
						OB-04		9/23/02	934	G		GW	3							3											84	
						BR-04		9/23/02	1026	G		GW	3							3											85	
						BR-05		9/23/02	1338	G		GW	3							3											86	
						OB-05		9/23/02	1425	G		GW	3							3											87	
						BR-09		9/23/02	1547	G		GW	3							3											88	
						OB-08		9/24/02	845	G		GW	3							3											89	
						BR-11		9/24/02	1052	G		GW	3							3											157690	

~~Fax COC to~~
Knoxville Office

APPENDIX D

FIELD DATA RECORDS

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/17/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER		IN

FINAL DEPTH TO WATER	FT

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	___	___	___
CASING	___	___	___
LOCKED	___	___	___
COLLAR	___	___	___

DRAWDOWN	

DRAWDOWN VOLUME	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 L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

[illegible]

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

Trip blank.

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/17/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE		ET

WELL DEPTH FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	IN

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN VOLUME		GAL

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN PURGING	

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

SIGNATURE: _____

NAME: Jane Smith

field blank
collected at 11:20

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/17/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

☐	TOP OF WELL RISER
☐	TOP OF PROTECTIVE CASING
☐	OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	IN

SCREEN LENGTH		FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A

INTEGRITY: CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____

DRAWDOWN VOLUME		GAL

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ {2-inch}}) \text{ or } \times 0.65 \text{ {4-inch}} \text{ or } \times 1.5 \text{ {6-inch}})$$

BEGIN PURGING	

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

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

rinse blank
collected off rebar
at 11:25

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER 51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	

WELL DEPTH FT.

PID	PPM
AMBIENT AIR	

WELL DIAMETER	

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN VOLUME	GAL

PRODUCT THICKNESS		FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED	

(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

SIGNATURE: _____

SURE: Janna Perle

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A

INTEGRITY: CAP	YES	NO	N/A
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN VOLUME		GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch}))

BEGIN PURGING	

END PURGING	

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER _____

NOTES

SIGNATURE:

field blank.
collected at 9:13

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE		FT

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

WELL
DIAMETER IN

SCREEN LENGTH	FT

PID WELL	PPM
MOUTH	

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN VOLUME	GAL

PRODUCT THICKNESS	ET

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)}) \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)}$$

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.2)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL, (if applicable)

☐ TEFLON

☐ OTHER

NOTES

Rinse blank
collected off tubing
at 9:18

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/20/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE		ET

WELL DEPTH 38.60 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 4 IN

SCREEN LENGTH		FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

DRAWDOWN VOLUME 0.04 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 0.91 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Hortba downwell

EQUIPMENT DOCUMENTATION

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

☐ TEFLON
☐ OTHER

NOTES

SIGNATURE:

RE: Jahna Leuten

1558 DTW = 19.75
1606 DTW = 19.78
1613 DTW = 19.77
1622 DTW = 19.78

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/20/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	

WELL DEPTH 42.2 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 4 IN

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

DRAWDOWN VOLUME	0.56	GAL

PRODUCT THICKNESS		FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN PURGING 13:10

END
PURGING

TOTAL VOL. PURGED 1.13 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Herb2 downwell

[illegible]

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

1322 DTW = 15.34
1328 DTW = 15.48
1337 DTW = 15.62
1345 DTW = 15.76
1352 DTW = 15.90

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 3rd Qtr Sampling Event

DATE 9/23/02

SITE ID BR-04

SITE TYPE Monitor Well

SITE ACTIVITY START 9:40 END

JOB NUMBER 51870.7

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 22.02 FT

WELL DEPTH 40.80 FT

PID AMBIENT AIR PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 22.02 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN FT

DRAWDOWN VOLUME 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 0.07 L/MIN

BEGIN PURGING 944

END PURGING 1029

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
957	0.90	6.96	1.81	-0.3	1.69	0.21	17.80	-147 ≈ 69 ml/min
1006	1.52	6.98	1.82	-0.3	1.27	0.09	17.80	-151 ≈ 69 ml/min
1015	2.14	6.99	1.82	-0.2	1.21	0.09	17.97	-153 ≈ 69 ml/min
1024	2.76	7.00	1.82	-0.3	1.18	0.08	18.02	-154 ≈ 69 ml/min
1026	collect samples for 8760							

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

957 DTW = 22.02
1006 DTW = 22.02
1015 DTW = 22.02
1024 DTW = 22.01

SIGNATURE:

James Leach

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 4 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

PRODUCT THICKNESS FT

TOTAL VOL.
PURGED 0.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON
☐ OTHER

NOTES

958 DTW = 15.91
1007 DTW = 16.05
1014 DTW = 16.17
1022 DTW = 16.25

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

☒	TOP OF WELL RISER
☐	TOP OF PROTECTIVE CASING
☐	OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	ET

INITIAL DEPTH TO WATER	25.43	FT

WELL DEPTH **53.90** FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER	25.43	ET

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

DRAWDOWN	<u> </u>	ET

DRAWDOWN VOLUME	—	GAL

PRODUCT THICKNESS		FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ {2-inch}}) \text{ or } \times 0.65 \text{ {4-inch}} \text{ or } \times 1.5 \text{ {6-inch}})$$

PURGE RATE 0.59 L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 0.86 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba downwell

[illegible]

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

11:15 DTW = 25.43
11:25 DTW = 25.43
11:35 DTW = 25.44
11:45 DTW = 25.44

SIGNATURE: _____

Janne Leelan

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/22/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	

WELL DEPTH 50.25 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	IN

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	~~X~~	—	—
CASING	~~X~~	—	—
LOCKED	—	~~X~~	—
COLLAR	~~X~~	—	—

DRAWDOWN VOLUME	—	GAL

PRODUCT THICKNESS		ET

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN
PURGING

13:02

END
PURGING

13:47

TOTAL VOL. PURGED 0.80 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Hariba downwell

40

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

NOTES

1316 DTW = 21.54
1325 DTW = 21.55
1333 DTW = 21.55
~~1342~~ DTW = 21.55

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/24/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 6 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ {2-inch}}) \text{ or } \times 0.65 \text{ {4-inch}} \text{ or } \times 1.5 \text{ {6-inch}})$$

TOTAL VOL. PURGED 0.83 GAL
(purge rate {L/min} x duration (min) x 0.26 gal/L)

Horiba downwell

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☒ PERISTALTIC☐ TEFLON OR TEFLON LINED

☐ POLYVINYL CHLORIDE

☐ TEFLON☐ SUBMERSIBLE HIGH DENSITY POLYETHYLENE☐ STAINLESS STEEL☐ OTHER☐ OTHER☐ OTHER☐ OTHER

PURGE OBSERVATIONS

NOTES

1017 DTW: 21.91'

1028 DTW: 21.91

1038 DTW: 21.90'

1048 DTW: 21.91'

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/22/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 6 IN

WELL INTEGRITY: CAP YES ☒ NO ☐ N/A ☐

CASING	~~X~~	—	—
LOCKED	~~X~~	—	—
COLLAR	~~X~~	—	—

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

TOTAL VOL. PURGED 0.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Horiba downstellt

EQUIPMENT DOCUMENTATION

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON☐ OTHER

NOTES

828 DTW = 18.42
839 DTW = 18.55
847 DTW = 18.65
855 DTW = 18.72

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 3rd Qtr Sampling Event

DATE 0/22/02

SITE ID BR-13

SITE TYPE Monitor Well

SITE ACTIVITY START 9:15 END 10:15

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☒ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHERPROTECTIVE
CASING STICKUP
(FROM GROUND) FTPROTECTIVE
CASING / WELL
DIFFERENCE FTINITIAL DEPTH
TO WATER 23.08 FT

WELL DEPTH 78.2 FT

PID
AMBIENT AIR PPMWELL
DIAMETER 6 INFINAL DEPTH
TO WATER 23.08 FTSCREEN
LENGTH FTPID WELL
MOUTH PPMWELL
INTEGRITY: CAP YES NO N/A

DRAWDOWN 0 FT

DRAWDOWN
VOLUME 0 GALPRODUCT
THICKNESS FTCASING X
LOCKED X
COLLAR X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE
RATE 0.07 L/MINBEGIN
PURGING 9:22END
PURGING 10:07TOTAL 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
9:36	1.04	6.86	1.55	-0.4	0.27 0.14	17.24	-141	≈ 74 ml/min
9:45	1.64	6.87	1.56	-0.3	0.73 0.16	17.73	-143	≈ 67 ml/min
9:54	2.26	6.87	1.57	-0.3	0.70 0.11	17.86	-141	≈ 69 ml/min
10:02	2.81	6.88	1.57	-0.4	0.67 0.08	17.46	-144	≈ 69 ml/min
10:04	collect samples 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

9:37 DTW = 23.01
9:46 DTW = 23.02
9:54 DTW = 23.03
10:02 DTW = 23.03

SIGNATURE:

Janna Leub

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/22/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 6 IN

PID WELL MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

PRODUCT THICKNESS		FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

END
PURGING

TOTAL VOL. PURGED 0.91 GAL
(purge rate (L/min) x duration (min)) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

10:47 DTW = 22.67
1056 DTW = 22.76
1104 DTW = 22.83
1114 DTW = 22.89

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/21/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

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

WELL DIAMETER 6 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

TOTAL VOL. PURGED 0.97 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Honba downwell

[illegible]

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

1325 DTW = 22.37
1336 DTW = 22.45
1345 DTW = 22.50
1403 DTW = 22.54

SIGNATURE: _____

E: Jahne Leela

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/20/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

PROTECTIVE CASING / WELL DIFFERENCE		ET

WELL DIAMETER 6 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

PRODUCT THICKNESS FT

TOTAL VOL. PURGED 0.90 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON☐ OTHER

NOTES

1041 DTW = 22.36
1051 DTW = 22.37
1101 DTW = 22.36
1101 DTW = 22.36

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/23/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT.

PROTECTIVE CASING / WELL DIFFERENCE	EST

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	✓		

CASING	~~XX~~	—	—
LOCKED	~~XX~~	—	—
COLLAR	~~XX~~	—	—

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

TOTAL VOL. PURGED	1.00	GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

858 DTW = 11.20
906 DTW = 11.38
916 DTW = 11.53
922 DTW = 11.66
931 DTW = 11.79

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/23/07

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

☒	TOP OF WELL RISER
☐	TOP OF PROTECTIVE CASING
☐	OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	FT.

PROTECTIVE CASING / WELL DIFFERENCE		ET

WELL DEPTH 17.50 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 2 IN

SCREEN LENGTH	FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

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 0.08 L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 0.85 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba downwell

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC☐ SUBMERSIBLE☐ OTHER

TYPE OF TUBING

☐ TEFELON OR TEFELON LINED HIGH DENSITY POLYETHYLENE☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE

☐ STAINLESS STEEL☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFELON

☐ OTHER

PURGE OBSERVATIONS

NOTES

1400 DTW = 14.22

1402 DTW = 14.34

1416 DTW = 14.96

1423 DTW = 14.71

SIGNATURE: _____

Signature: Janne Blute

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/24/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

PRODUCT THICKNESS FT

TOTAL VOL. PURGED 0.91 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Horiba downwell

[illegible]

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

NOTES

0919 DTW: 14.29'
0923 DTW: 14.45'
0931 DTW: 14.55'
0941 DTW: 14.58'

SIGNATURE: _____

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 3rd Qtr Sampling Event

DATE 9/18/02

SITE ID OB-09

SITE TYPE Monitor Well

SITE ACTIVITY START 14:45 END

JOB NUMBER 51870.7

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 13.61 FT

WELL DEPTH 23.25 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 13.86 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN .25 FT

DRAWDOWN VOLUME .04 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 JP 8.083 L/MIN

BEGIN PURGING 14:50

END PURGING JP 15:50

TOTAL VOL. PURGED 1.29 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba downwell

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
15:02	0.96	7.09	1.18	0	0.79	0.43	19.39	-97 ≈ 80 mL/min
15:09	1.60	7.10	1.17	-0.1	0.68	0.44	19.04	-96 ≈ 90 mL/min
15:16	2.27	7.11	1.17	241	0.65	0.40	19.41	-87 ≈ 95 mL/min
15:25	2.87	7.12	1.20	378	0.71	0.39	19.90	-78 ≈ 67 mL/min
15:27	Samples collected for 8260 & bioparameters							

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

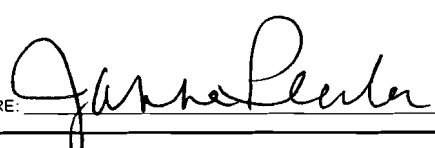
TYPE OF BLADDER MATERIAL (if applicable)

- ☐
- TEFLON
-
- ☐
- OTHER

PURGE OBSERVATIONS

NOTES

15:02 DTW = 14.00
 15:09 DTW = 14.04
 15:17 DTW = 14.06
 15:25 DTW = 13.99

SIGNATURE: 

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/7/02

SITE TYPE	Monitor Well

JOB NUMBER 51870.7

PROTECTIVE CASING / WELL DIFFERENCE	

WELL DIAMETER	2	IN

WELL	YES	NO	N/A
INTEGRITY: CAP	X		

CASING	~~X~~	—	—
LOCKED	~~X~~	—	—
COLLAR	~~X~~	—	—

TOTAL VOL. PURGED 1.42 GAL
(purge rate (L/min) x duration (min)) x 0.26 gal/L)

[illegible]

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

NOTES

1506 DTW = 15.12
1514 DTW = 15.35
1520 DTW = 15.52
1526 DTW = 15.73

SIGNATURE:

GW Sample Form.xls

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9-18-02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING / WELL DIFFERENCE		FT

WELL DIAMETER IN

WELL INTEGRITY: CAP YES ☒ NO ☐ N/A ☐

LOCKED — —

TOTAL VOL. PURGED		GAL

Comments

1600	Collect remaining samples ;	Water level = 16.10	

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER _____

NOTES

purged dry

SIGNATURE:

GW_Sample_Form.xls

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/19/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	~~X~~	—	—
CASING	~~X~~	—	—
LOCKED	~~X~~	—	—
COLLAR	~~X~~	—	—

PRODUCT THICKNESS	

TOTAL VOL. PURGED 0.81 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON
☐ OTHER

NOTES

1510 DTW = 10.24
1518 DTW = 10.42
1525 DTW = 10.65
1534 DTW = 10.82

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/18/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING / WELL DIFFERENCE		FT

WELL DIAMETER	2	IN

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐

CASING	~~X~~	—	—
LOCKED	~~X~~	—	—
COLLAR	~~X~~	—	—

TOTAL VOL. PURGED 1.54 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Heriberto doninweln

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

828	DTW	13.55
836	DTW	13.64
842	DTW	13.65
850	DTW	13.64
858	DTW	13.66

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/13/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	ET

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

PRODUCT THICKNESS		FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

TOTAL VOL. PURGED 1.43 GAL
(purge rate (L/min) x duration (min) x 0.2)

Horiba D. Well

EQUIPMENT DOCUMENTATION

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

NOTES

10:00 DTW = 15.31
1006 DTW = 15.43
1014 DTW = 15.63
1022 DTW = 15.85

Well went dry during sample collection.

SIGNATURE _____

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 3rd Qtr Sampling Event

DATE 9/17/02

SITE ID W-2

SITE TYPE Monitor Well

SITE ACTIVITY START 12:50 END

JOB NUMBER 51870.7

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 11.35 FT

WELL DEPTH 20.9 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 12.08 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING LOCKED X
COLLAR X

DRAWDOWN 0.73 FT

DRAWDOWN VOLUME 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 0.087 L/MIN

BEGIN PURGING 13:11

END PURGING 14:05

TOTAL VOL. PURGED 1.23 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
1322	1.2	7.60	0.62	-0.3	5.30 87	20.02	13	≈ 100 mL/min
1331	2.0	7.64	0.62	77.1	5.62 85.7	20.46	8	≈ 83 mL/min
1341	2.8	7.65	0.62	246	6.07 84.8	20.93	3	≈ 83 mL/min
1354	3.8	7.66	0.62	278	6.23 82.1	20.46	-18	≈ 83 mL/min
1358	collect samples for CO ₂ , Chloride & Alkalinity							

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)

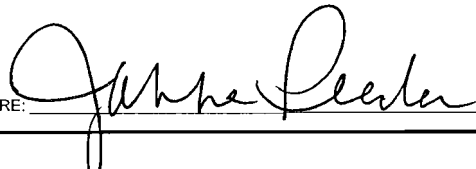
☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1324 DTW 12.25
1333 DTW 12.27
1341 DTW 12.22
1356 DTW 12.16

* DO readings are in % not mg/L

SIGNATURE: 

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 9/19/02

SITE TYPE	Monitor Well

JOB NUMBER	51870.7

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT

PROTECTIVE CASING / WELL DIFFERENCE	FT

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	X		

CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>✓</u>	—	—

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

TOTAL VOL. PURGED	GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

Hariba downwell

9/19

9/2v

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

NOTES

1312 DTW 9.05

9/21 1250 DTW 10.60

1210 DTW 10-88

SIGNATURE: _____

RE: Janna Leuter

APPENDIX E

WELL CONSTRUCTION INFORMATION

Appendix E Well Construction Information

Quarterly Progress Report
Third Quarter 2002
Former Taylor Instruments Site
Rochester, New York

Well ID	Date Installed	Boring Depth	Well Depth	Screen Interval		Coordinates			Well Material	Completion		
				Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
BR-01	09/02/97	42.2	42.2	NA	NA	750364.06	1150086.89	531.92	Stainless / Open	X		
BR-02	09/02/97	44.0	44.0	NA	NA	750541.81	1149964.51	532.39	Stainless / Open	X		
BR-03	09/02/97	40.1	40.1	NA	NA	750552.93	1149641.68	536.32	Stainless / Open			X
BR-04	09/03/97	44.2	44.2	NA	NA	750322.96	1149422.13	532.68	Stainless / Open	X		
BR-05	09/03/97	49.9	49.9	NA	NA	750216.62	1149958.67	531.76	Stainless / Open	X		
BR-06	09/03/97	42.6	42.6	NA	NA	749939.91	1149145.54	539.10	Stainless / Open	X		
BR-07	09/03/97	53.3	53.3	NA	NA	749983.50	1149989.76	534.46	Stainless / Open			X
BR-08	07/28/00	73.0	73.0	NA	NA	750340.94	1149482.41	533.13	Iron / Open	X		
BR-09	07/28/00	47.0	47.0	NA	NA	750400.72	1149438.67	532.72	Iron / Open	X		
BR-10	07/28/00	47.0	47.0	NA	NA	750426.90	1149411.76	532.29	Iron / Open	X		
BR-11	07/28/00	52.0	52.0	NA	NA	750387.82	1149546.25	532.53	Iron / Open	X		
BR-12	07/28/00	42.0	42.0	NA	NA	750195.19	1150010.12	531.90	Iron / Open	X		
BR-13	07/28/00	67.5	67.5	NA	NA	750197.49	1150044.27	532.01	Iron / Open	X		
BR-14	07/28/00	75.3	75.3	NA	NA	750260.61	1150052.20	531.67	Iron / Open	X		
BR-15	07/26/00	72.0	72.0	NA	NA	750293.39	1149980.43	531.69	Iron / Open	X		
BR-16	07/26/00	55.0	55.0	NA	NA	750223.79	1150013.71	531.32	Iron / Open	X		
BR-17	07/28/00	52.0	52.0	NA	NA	750333.76	1149478.26	533.16	Iron / Open	X		
EW-N-1	08/15/00	27.0	27.0	5.2	26.0	750198.77	1149956.96	529.28	Stainless / PVC		X	
EW-N-2	08/23/00	27.0	27.0	5.5	26.0	750225.81	1149942.16	528.76	Stainless / PVC		X	
EW-N-3	08/22/00	26.8	26.8	5.2	25.8	750217.16	1149980.06	528.69	Stainless / PVC		X	
EW-N-4	08/23/00	26.0	26.0	7.2	25.0	750259.43	1149928.84	529.32	Stainless / PVC		X	
EW-N-5	08/16/00	27.0	27.0	5.5	26.0	750257.98	1149972.33	528.26	Stainless / PVC		X	
EW-N-6	08/18/00	25.5	25.0	6.1	24.0	750293.49	1149957.98	529.18	Stainless / PVC		X	
EW-S-1S	10/01/98	14.0	13.7	4.3	13.7	750332.80	1149428.08	529.41	Stainless		X	
EW-S-1D	10/01/98	18.3	18.3	4.3	17.9	750327.22	1149428.49	529.41	Stainless		X	
EW-S-2	07/26/00	23.1	22.0	5.5	21.0	750256.26	1149404.38	528.68	Stainless / PVC		X	
EW-S-3	07/28/00	23.5	22.0	5.5	21.0	750301.18	1149370.46	529.55	Stainless / PVC		X	

Appendix E

Well Construction Information

Quarterly Progress Report
Third Quarter 2002
Former Taylor Instruments Site
Rochester, New York

Well ID	Date Installed	Boring Depth	Well Depth	Screen Interval		Coordinates			Well Material	Completion		
				Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
EW-S-4	07/26/00	23.5	22.0	5.5	21.0	750293.94	1149418.71	532.41	Stainless / PVC		X	
EW-S-5	08/01/00	23.5	22.5	5.8	21.5	750325.14	1149386.52	529.53	Stainless / PVC		X	
EW-S-6	07/31/00	22.9	22.4	5.9	20.9	750341.87	1149362.58	529.27	Stainless / PVC		X	
EW-S-7	08/07/00	23.1	22.5	5.9	21.6	750339.03	1149413.8	529.59	Stainless / PVC		X	
EW-S-8	08/02/00	23.0	22.5	5.8	21.5	750359.86	1149402.69	529.65	Stainless / PVC		X	
EW-S-9	08/03/00	23.0	22.5	6.0	21.5	750355.07	1149440.13	532.99	Stainless / PVC		X	
EW-S-10	08/09/00	22.6	22.5	6.0	21.5	750381.30	1149367.65	529.43	Stainless / PVC		X	
EW-S-11	08/08/00	22.6	22.5	5.9	22.0	750377.04	1149418.02	529.50	Stainless / PVC		X	
EW-S-12	08/04/00	22.3	22.3	5.8	21.3	750375.38	1149466.45	529.96	Stainless / PVC		X	
EW-S-13	08/10/00	22.0	22.0	6.0	21.0	750399.16	1149448.68	529.53	Stainless / PVC		X	
EW-S-14	08/11/00	22.0	22.0	5.6	21.0	750406.59	1149410.24	529.37	Stainless / PVC		X	
EW-S-15	08/14/00	22.0	21.8	5.2	20.8	750414.78	1149480.34	529.96	Stainless / PVC		X	
EW-S-16	08/10/00	21.3	21.3	5.2	20.3	750433.72	1149448.95	529.57	Stainless / PVC		X	
BREW-S-1	08/03/00	61.8	61.8	26.6	56.4	750368.27	1149458.11	533.67	Stainless / PVC		X	
BREW-N-1	08/17/00	75.8	75.8	25.8	70.3	750253.53	1150013.88	531.68	Stainless / PVC		X	
OB-04	09/05/97	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.80	PVC	X		
OB-05	09/05/97	18.0	18.0	4.0	18.0	750223.51	1149958.83	531.50	PVC	X		
OB-06	07/19/00	17.0	17.0	6.8	16.8	750421.89	1149461.50	532.60	PVC	X		
OB-07	07/19/00	20.5	20.5	10.2	20.2	750461.13	1149512.60	533.03	PVC	X		
OB-08	07/28/00	25.5	25.3	15.3	25.1	750279.00	1149957.45	531.64	PVC	X		
OB-09	07/28/00	23.5	23.3	13.3	23.1	750312.26	1149992.94	531.85	PVC	X		
TW-01	03/12/96	22.0	22.0	17.0	22.0	750548.13	1149471.23	533.30	PVC	X		
TW-04	03/15/96	17.5	17.3	12.3	17.3	750552.18	1149648.54	536.34	PVC			X
TW-07	03/15/96	17.5	17.5	12.5	17.5	750546.69	1149830.01	532.55	PVC	X		
TW-09	03/30/96	16.0	16.0	11.0	16.0	750542.22	1149971.84	532.30	PVC	X		
TW-13	03/12/96	15.0	15.0	10.0	15.0	750086.24	1150016.03	531.69	PVC	X		
TW-17	03/13/96	15.0	15.0	10.0	15.0	750373.39	1150088.34	531.86	PVC			X

Appendix E

Well Construction Information

Quarterly Progress Report
Third Quarter 2002
Former Taylor Instruments Site
Rochester, New York

				Rochester, New York								
				Screen Interval		Coordinates			Well Material	Completion		
Well ID	Date Installed	Boring Depth	Well Depth	Top	Bottom	Easting	Northing	Elevation	Riser/Screen	Flush-mount	Vault	Stick-up
TW-20	03/13/96	15.0	15.0	10.0	15.0	750547.88	1150118.75	532.42	PVC			X
TW-74	04/09/96	15.0	15.0	7.5	15.0	750407.92	1149841.78	531.96	PVC	X		
W-1	09/16/82	14.0	14.0	7.0	13.9	750490.21	1149147.95	534.10	PVC			X
W-2	09/15/82	21.0	18.0	13.0	18.0	749940.43	1149136.77	539.10	PVC			X
W-3	09/16/82	24.0	17.0	16.0	21.0	750168.37	1149794.82	533.00	PVC	X		
W-4	09/22/82	29.0	26.0	21.0	26.0	749977.63	1149996.42	533.12	PVC			X
W-5	09/15/82	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.52	PVC	X		
W-6	09/15/82	16.5	15.0	13.0	15.0	750288.78	1149332.79	532.66	PVC	X		

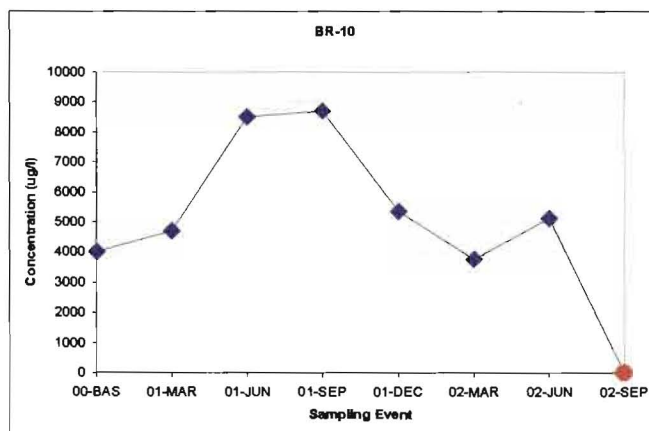
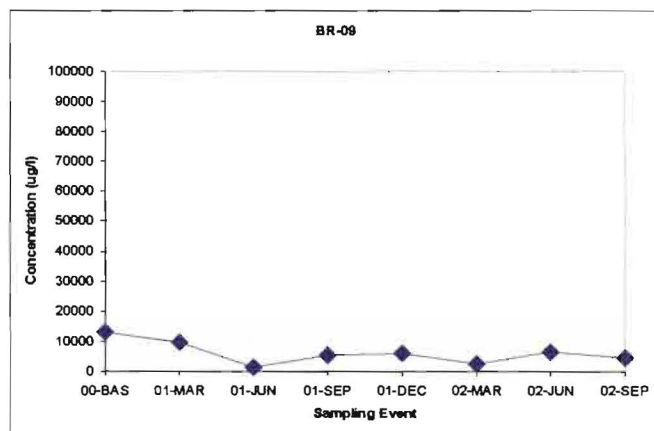
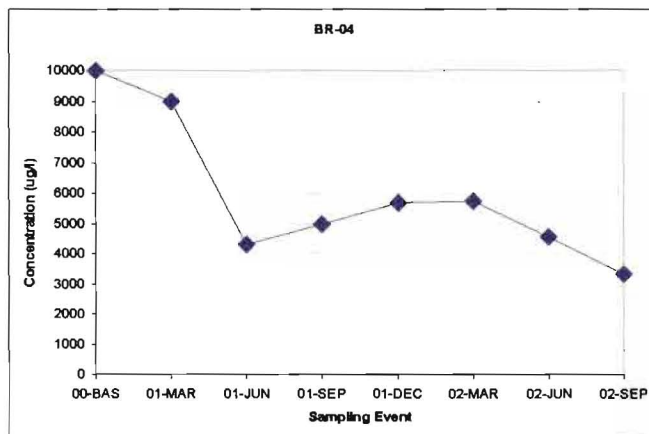
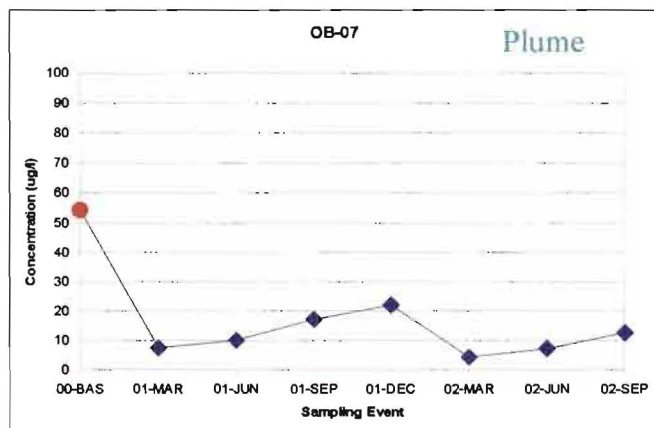
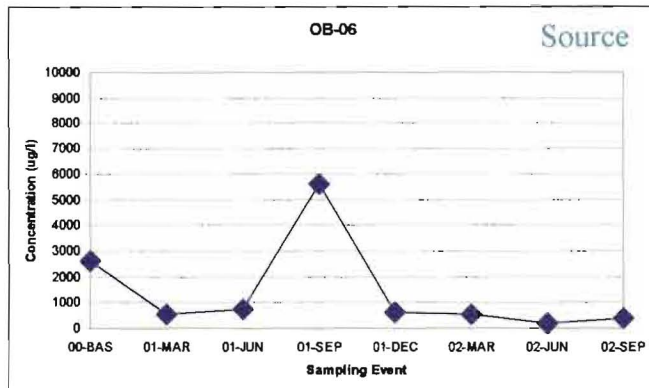
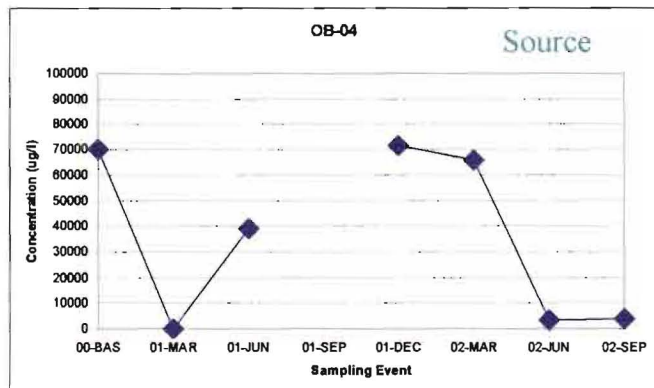
APPENDIX F

MONITOR WELL CONCENTRATION TREND GRAPHS

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

South TCE Area

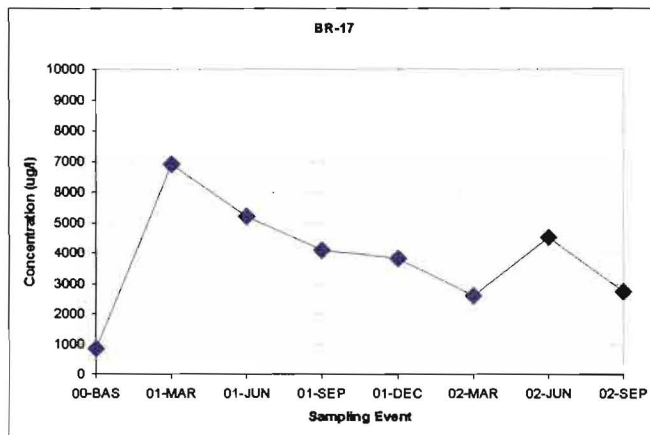
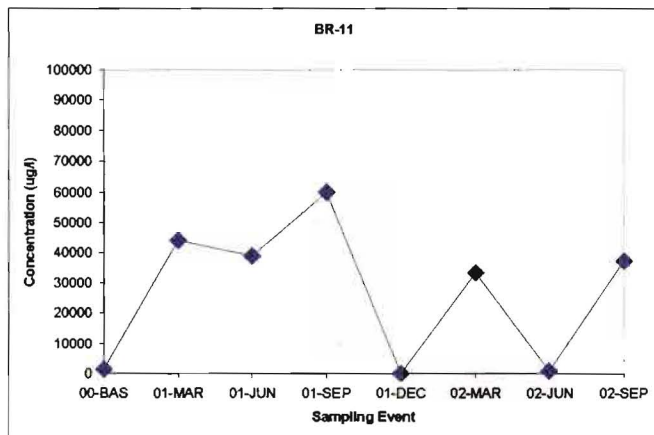


- ◆ = actual value
- = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

South TCE Area

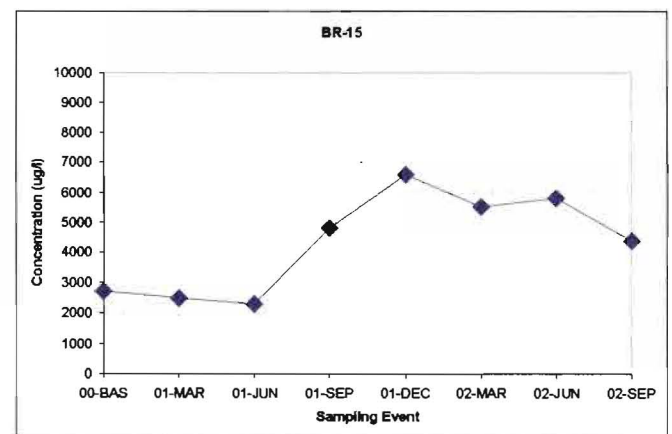
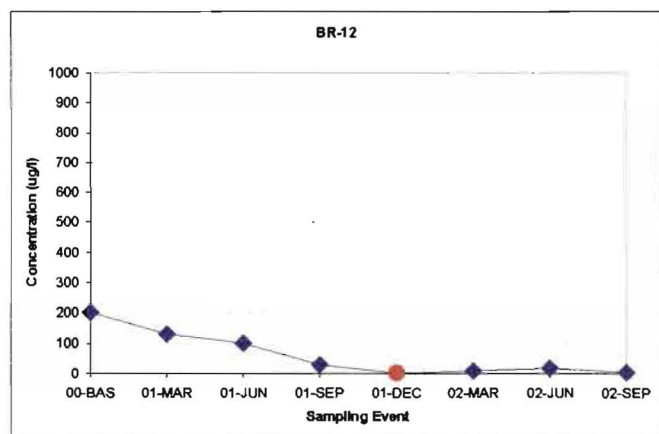
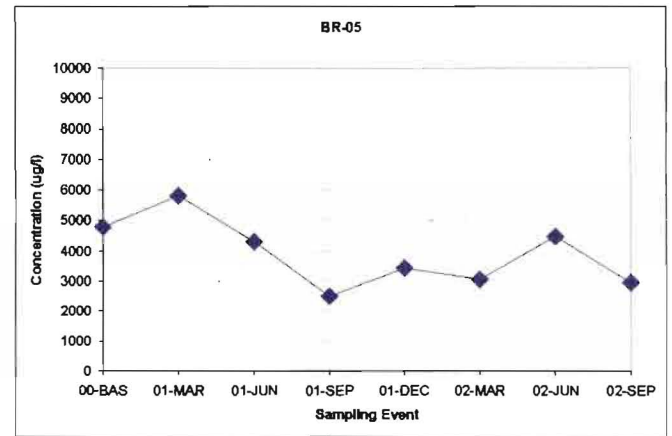
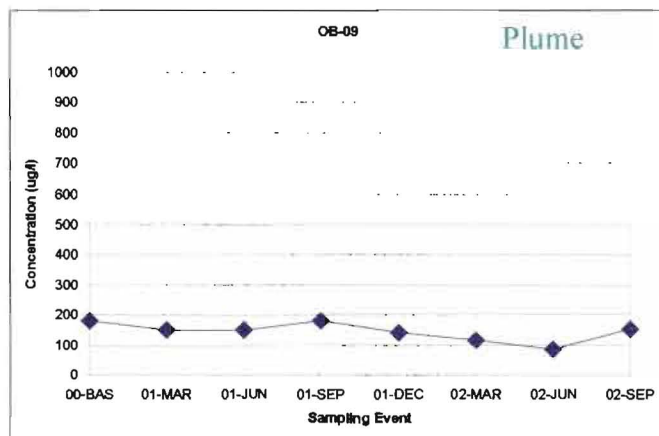
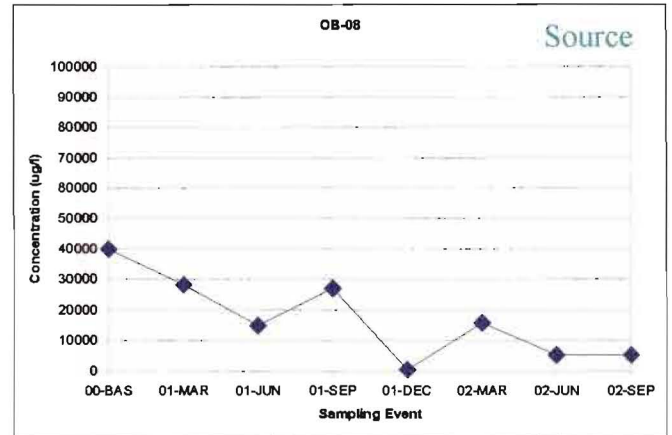
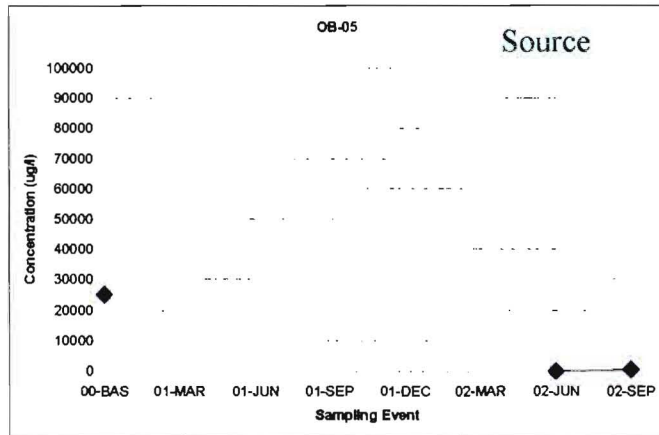


◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

North TCE Area

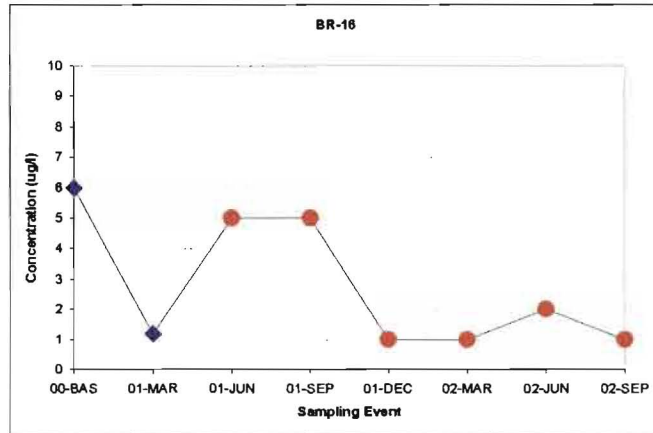


◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

North TCE Area

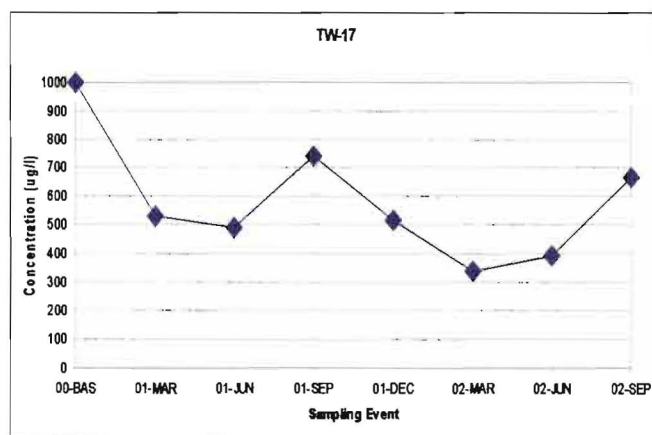
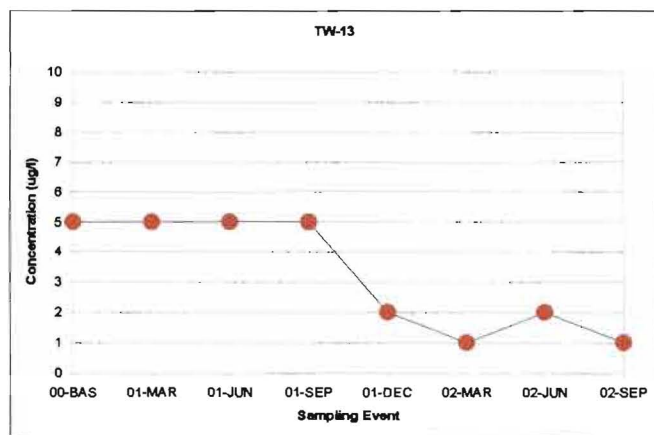
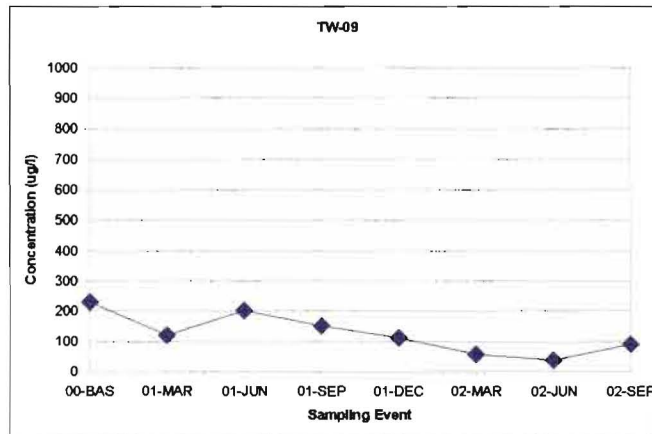
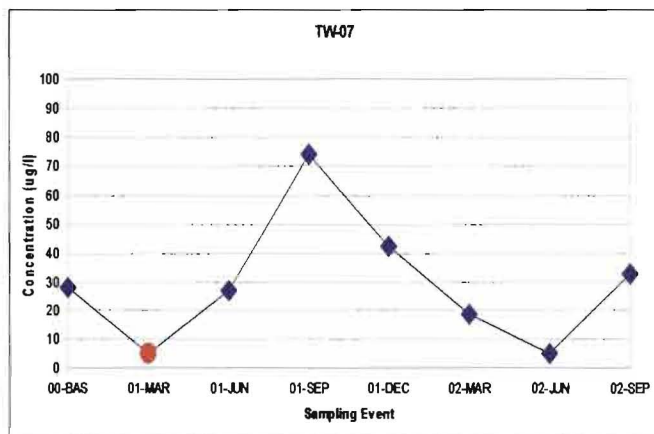
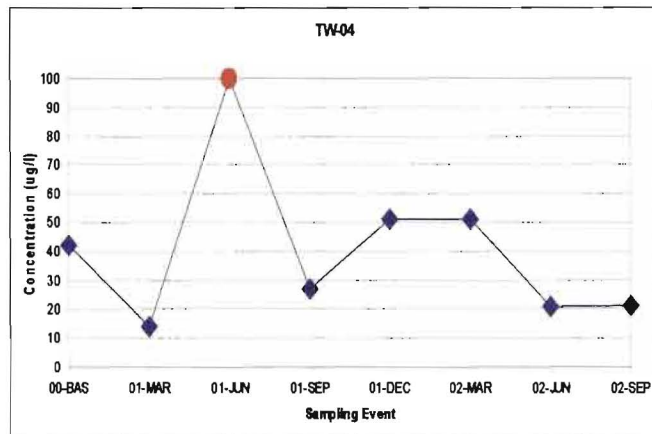
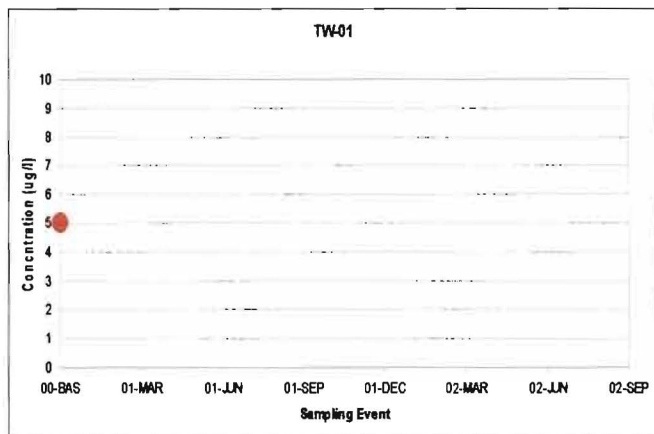


◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Perimeter Downgradient Area

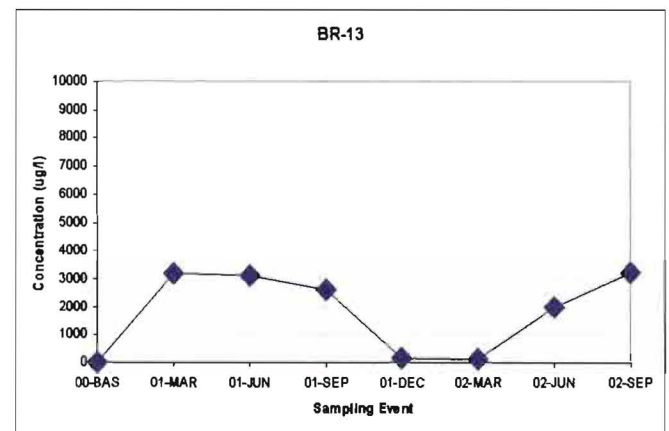
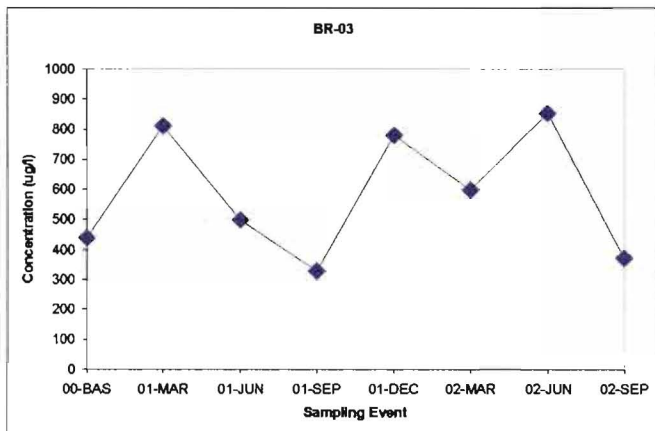
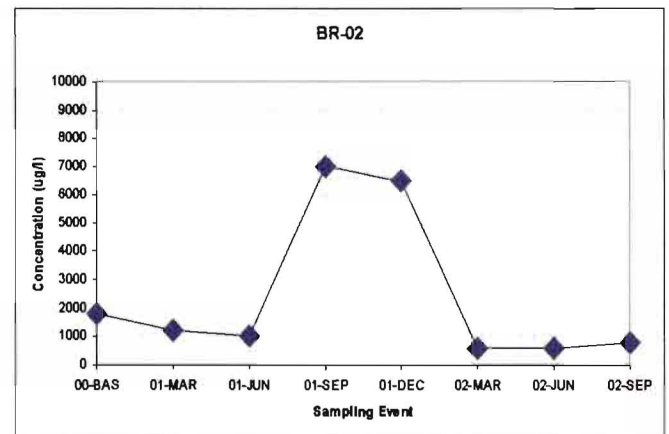
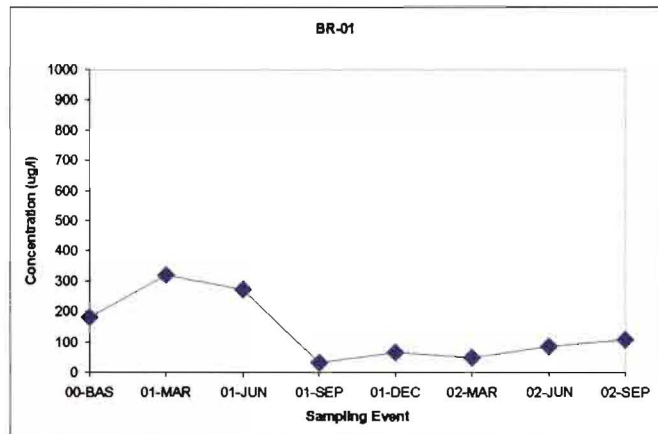
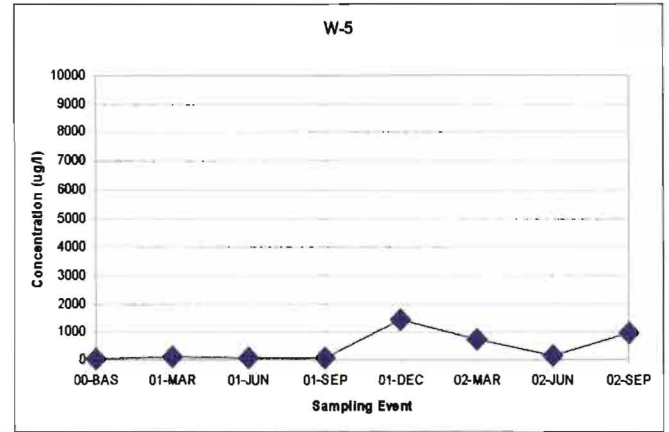
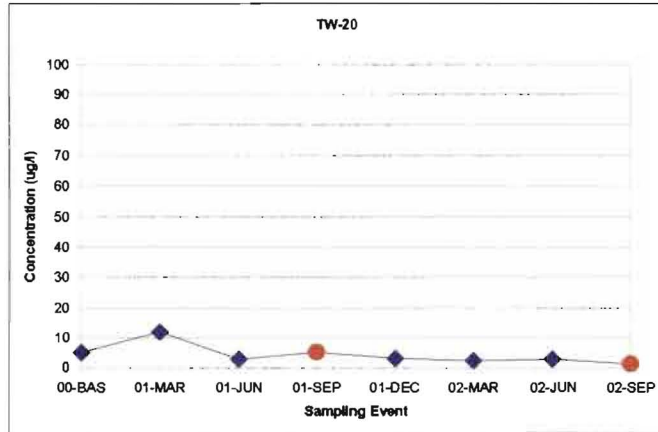


◆ = actual value
● = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Perimeter Downgradient Area



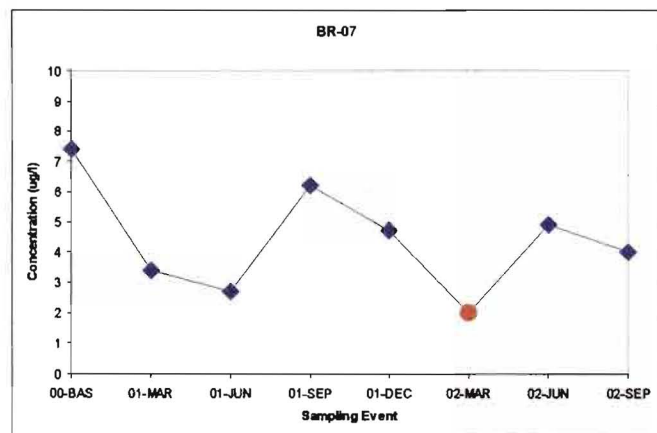
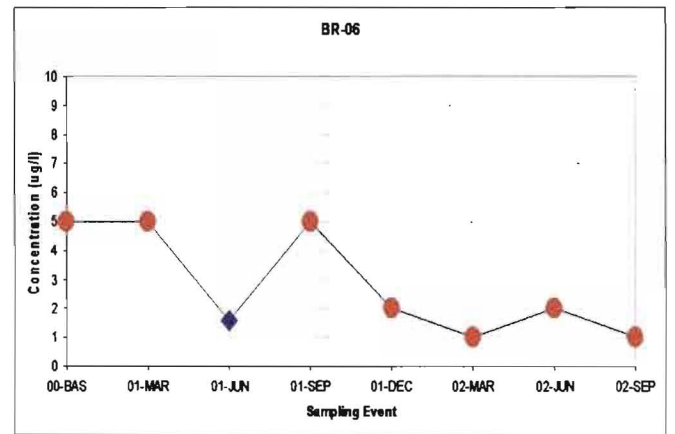
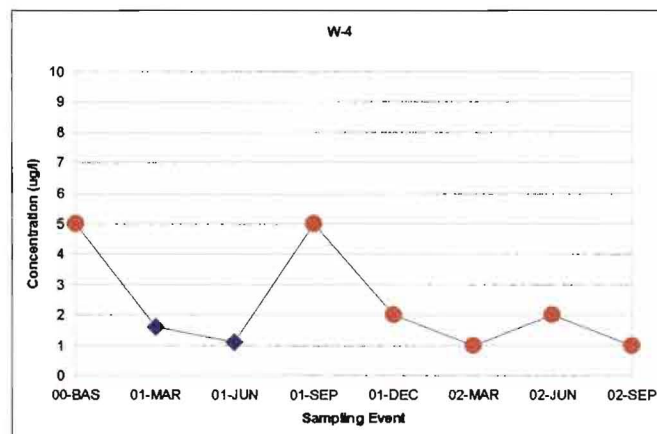
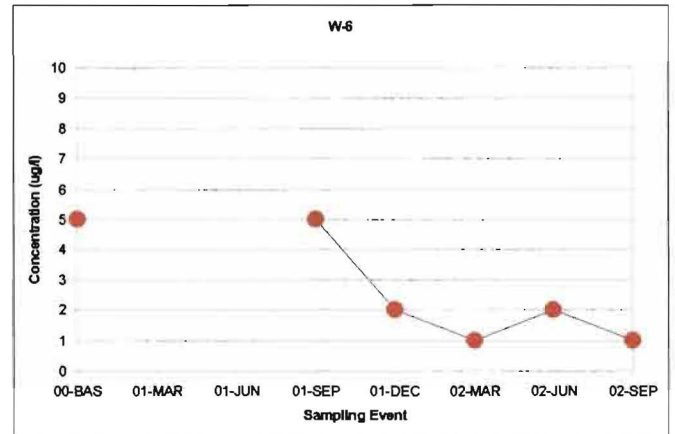
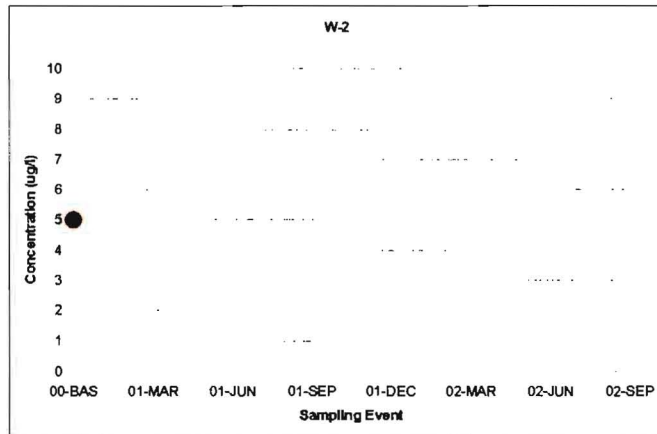
◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

Upgradient Area

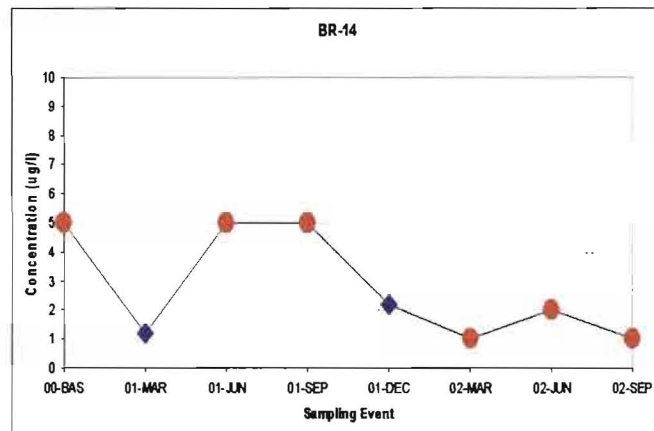
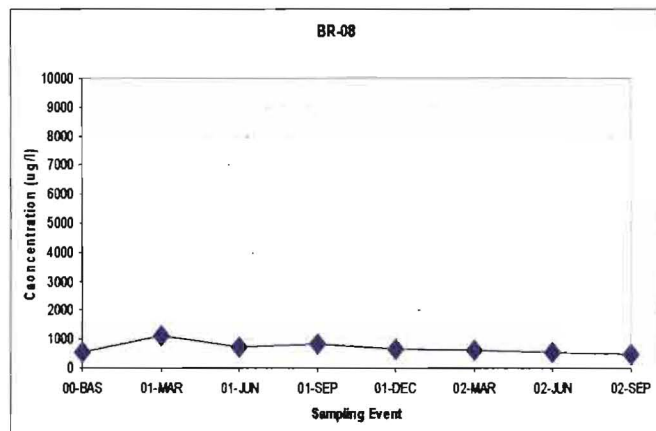


◆ = actual value
 ● = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Deep Bedrock Area



◆ = actual value
● = value below graphed detection limit