QUARTERLY PROGRESS REPORT
FIRST QUARTER 2001

FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK

PREPARED FOR:

COMBUSTION ENGINEERING
501 MERRITT 7
NORWALK, CT 06851

PREPARED BY:

HARDING ESE, INC.
1400 CENTERPOINT BOULEVARD, SUITE 158
KNOXVILLE, TN 37932

May 2001

Harding ESE, Inc.

1400 Centerpoint Blvd., Suite 158
Knoxville, TN 37932
(865) 531-1922

QUARTERLY PROGRESS REPORT
FIRST QUARTER 2001

FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK

PREPARED FOR:

COMBUSTION ENGINEERING
501 MERRITT 7
NORWALK, CT 06851

PREPARED BY:

HARDING ESE, INC.
1400 CENTERPOINT BOULEVARD, SUITE 158
KNOXVILLE, TN 37932

May 2001

Harding ESE, Inc.

1400 Centerpoint Blvd., Suite 158
Knoxville, TN 37932
(865) 531-1922

TABLE OF CONTENTS

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Section	Description	Page No.
1.0	INTRODUCTION	1-1
2.0	SCOPE OF WORK	2-1
2.1	Baseline Sampling Event	2-1
2.2	March 2001 Quarterly Sampling Event	2-1
2.3	Treatment System Operation and Maintenance (O&M)	2-1
3.0	SUMMARY OF RESULTS	3-1
3.1	North and South TCE Source Areas	3-1
3.2	Upgradient Monitor Wells	3-10
3.3	Perimeter Downgradient Monitor Wells	3-11
3.4	Deep Bedrock Monitor Wells	3-11
3.5	Potentiometric Surface	3-12
3.6	Natural Biodegradation	3-12
3.7	Treatment System Performance	3-13
4.0	ANALYTICAL PROGRAM	4-1
4.1	Precision	4-1
4.2	Accuracy	4-3
4.3	Representativeness	4-3
4.4	Completeness	4-4
4.5	Comparability	4-4
5.0	CONCLUSIONS	5-1
6.0	REFERENCES	6-1

APPENDICES

Appendix A Figures
- 1 – Groundwater Monitor and Treatment System Well Locations
- 2 – Potentiometric Surface Map (Overburden), Baseline Sampling Event
- 3 – Bedrock Groundwater Elevations (Baseline)
- 4 – Potentiometric Surface Map (Overburden), March Sampling Event
- 5 – Bedrock Groundwater Elevations (March 2001)
- 6 – VOCs in Overburden Monitor Wells
- 7 – VOCs in Bedrock Monitor Wells
- 8 – Monthly Average Flow Rate
- 9 – VOC Mass Removed

Appendix B Well Construction Information
Appendix C Field Sample Records
Appendix D Chain of Custody Forms
Appendix E Laboratory Reports, Groundwater Sampling Events

LIST OF TABLES

Table No.	Description	Page No.
Table 2-1	Samples and Analysis, Baseline Sampling Event	2-2
Table 2-2	Samples and Analysis, March 2001 Sampling Event	2-5
Table 3-1	Summary of Extraction Well VOC Results, Baseline Sampling Event	3-2
Table 3-2	Summary of Overburden VOC Results, Baseline and March 2001 Sampling Event	3-4
Table 3-3	Summary of Bedrock VOC Results, Baseline and March 2001 Sampling Event	3-6
Table 3-4	Summary of Natural Biodegradation Results, March 2001 Sampling Event	3-8
Table 3-5	System Operational Summary, January – March 2001	3-14
Table 3-6	System Analytical Data, January – March 2001	3-15

LIST OF ACRONYMS

cis-1,2-DCE	cis-1,2-dichloroethlyene
DCE	dichloroethylene
DPVE	dual-phase vacuum extraction
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency (United States)
µg/L	micrograms per liter
MCL	maximum contaminant level
mL/min	milliliters per minute
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
MSD	matrix spike duplicate
NYSDEC	New York Department of Environmental Conservation
O&M	operation and maintenance
ORP	oxidation reduction potential
PARCC	precision, accuracy, representativeness, completeness, and comparability
%R	percentage of recovery
RPD	relative percent difference
SQL	sample quantitation limit
System	dual-phase vacuum extraction and groundwater remedial treatment system
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethylene
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the activities and results for the Baseline sampling event, which was conducted in October 2000 and November 2000, prior to operation of the remedial treatment system and the first quarterly groundwater sampling event, which was conducted in March 2001, following implementation of the dual-phase vacuum extraction and groundwater remedial treatment system (System). 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. An operational summary of the System for January 2001 through March 2001 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 BASELINE SAMPLING EVENT

Harding ESE personnel performed the Baseline groundwater sampling event in October 2000 and November 2000 to provide an inclusive set of groundwater analytical data prior to the start-up of the System. Seventy-seven samples were collected (see Table 2-1) and submitted to Columbia Analytical Services, a NYSDEC Environmental Laboratory Accreditation Program- (ELAP) certified laboratory located in Rochester, New York. All 77 samples were submitted for volatile organic analyses by U.S. Environmental Protection Agency (EPA) SW-846 Method 8260B. Fifty-nine of the seventy-seven samples were "Environmental Samples" collected from monitor, extraction, and recovery wells located on the Site. Eighteen of the seventy-seven samples were associated with quality control efforts (i.e., field duplicates, matrix spike/matrix spike duplicate [MS/MSD], trip blanks, field blanks, and equipment rinsates). All Environmental Samples, including field duplicates and MS/MSD samples, were collected using low-flow peristaltic pumps at flow rates less than 400 milliliters per minute (mL/min). Field measurements of pH, conductivity, temperature, turbidity, oxidation reduction potential (ORP), and dissolved oxygen were collected during purging. Purge and sample data are presented on the field data records located in Appendix C. A summary of analytical results for the extraction, overburden, and bedrock monitor wells is presented in Tables 3-1, 3-2, and 3-3, respectively. Laboratory reports for all samples are located in Appendix E.

2.2 MARCH 2001 QUARTERLY SAMPLING EVENT

Harding ESE personnel performed the March 2001 sampling event to provide groundwater analytical data for the first quarterly period following the start-up of the System. Analyzed samples were collected from 32 locations and submitted to Columbia Analytical Services (see Table 2-2). A total of 44 samples were analyzed for volatile organic analyses by EPA Method 8260B, and 11 samples were analyzed for natural biodegradation parameters – which include nitrate, sulfate, and chloride by Method 300.0; total organic carbon by Method 415.1; sulfide by Method 376.1; ferrous iron by Method SM3500B; methane, ethane, and ethene by Method 8015B; carbon dioxide by Method SM4500B; and alkalinity by Method 310.1. One sample was submitted for only alkalinity, chloride, and carbon dioxide analysis. Thirteen samples were associated with quality control efforts. All Environmental Samples, including field duplicates and MS/MSDs, were collected using low-flow peristaltic pumps at flow rates less than 400 mL/min. Field measurements of pH, conductivity, temperature, turbidity, ORP, and dissolved oxygen were collected during purging. Purge and sample data are presented on the field data records located in Appendix C. A summary of analytical results for the overburden and bedrock monitor wells is presented in Tables 3-2 and 3-3, respectively. Laboratory reports for all samples are located in Appendix E.

2.3 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

Table 2-1
Samples and Analysis, Baseline Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs[1] Analysis	Natural Biodegradation Parameter Analysis[2]	Description
QAFB01	10/25/00	X		Field Blank
QAFB02	11/10/00	X		Field Blank
QAFB03	11/19/00	X		Field Blank
QARB01	10/25/00	X		Rinsate
QARB02	11/10/00	X		Rinsate
QARB03	11/19/00	X		Rinsate
QATB01	10/25/00	X		Trip Blank
QATB02	11/17/00	X		Trip Blank
QATB03	11/19/00	X		Trip Blank
BREW-N-1	11/19/00	X		Environmental Sample
BREW-S-1	11/19/00	X		Environmental Sample
BR-01	11/17/00	X		Environmental Sample
BR-02	11/18/00	X		Environmental Sample
BR-03	11/18/00	X		Environmental Sample
BR-04	11/19/00	X		Environmental Sample
BR-05	11/19/00	X		Environmental Sample
BR-06	11/17/00	X		Environmental Sample
BR-07	11/18/00	X		Environmental Sample
BR-08	11/19/00	X		Environmental Sample
BR-09	11/18/00	X		Environmental Sample
BR-10	11/18/00	X		Environmental Sample
BR-11	11/18/00	X		Environmental Sample
BR-12	11/19/00	X		Environmental Sample
BR-13	11/19/00	X		Environmental Sample
BR-13 (MS)	11/19/00	X		Matrix Spike
BR-13 (MD)	11/19/00	X		Matrix Spike Duplicate
BR-14	11/19/00	X		Environmental Sample
BR-15	11/19/00	X		Environmental Sample
BR-15 (DUP)	11/19/00	X		Duplicate

See notes at end of table.

Table 2-1 (Continued)
Samples and Analysis,
Baseline Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs[1] Analysis	Natural Biodegradation Parameter Analysis[2]	Description
BR-16	11/19/00	X		Environmental Sample
BR-17	11/18/00	X		Environmental Sample
EW-N-1	11/10/00	X		Environmental Sample
EW-N-1 (MS)	11/10/00	X		Matrix Spike
EW-N-1 (MD)	11/10/00	X		Matrix Spike Duplicate
EW-N-2	11/10/00	X		Environmental Sample
EW-N-3	11/10/00	X		Environmental Sample
EW-N-4	11/11/00	X		Environmental Sample
EW-N-5	11/11/00	X		Environmental Sample
EW-N-6	11/11/00	X		Environmental Sample
EW-S-1D	11/10/00	X		Environmental Sample
EW-S-1S	11/10/00	X		Environmental Sample
EW-S-1S (DUP)	11/10/00	X		Duplicate
EW-S-2	11/08/00	X		Environmental Sample
EW-S-3	10/27/00	X		Environmental Sample
EW-S-4	10/26/00	X		Environmental Sample
EW-S-5	10/27/00	X		Environmental Sample
EW-S-6	10/27/00	X		Environmental Sample
EW-S-7	11/08/00	X		Environmental Sample
EW-S-8	10/27/00	X		Environmental Sample
EW-S-9	11/08/00	X		Environmental Sample
EW-S-10	11/09/00	X		Environmental Sample
EW-S-11	11/08/00	X		Environmental Sample
EW-S-12	11/08/00	X		Environmental Sample
EW-S-13	11/09/00	X		Environmental Sample
EW-S-14	11/09/00	X		Environmental Sample
EW-S-15	11/09/00	X		Environmental Sample

See notes at end of table.

Table 2-1 (Continued)
Samples and Analysis,
Baseline Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs[1] Analysis	Natural Biodegradation Parameter Analysis[2]	Description
EW-S-16	11/09/00	X		Environmental Sample
OB-04	11/19/00	X		Environmental Sample
OB-05	11/19/00	X		Environmental Sample
OB-06	11/17/00	X		Environmental Sample
OB-06 (DUP)	11/17/00	X		Duplicate
OB-07	11/16/00	X		Environmental Sample
OB-08	11/16/00	X		Environmental Sample
OB-09	11/16/00	X		Environmental Sample
TW-01	10/24/00	X		Environmental Sample
TW-04	10/24/00	X		Environmental Sample
TW-07	10/25/00	X		Environmental Sample
TW-09	10/24/00	X		Environmental Sample
TW-13	11/16/00	X		Environmental Sample
TW-17	11/17/00	X		Environmental Sample
TW-20	10/25/00	X		Environmental Sample
W-2	10/21/00	X		Environmental Sample
W-4	11/17/00	X		Environmental Sample
W-4 (MS)	11/17/00	X		Matrix Spike
W-4 (MD)	11/17/00	X		Matrix Spike Duplicate
W-5	11/16/00	X		Environmental Sample
W-6	10/24/00	X		Environmental Sample

[1] VOCs analyzed by Method 8260.

[2] Natural biodegradation parameters include nitrate by Method 300.0, sulfate by Method 300.0, chloride by Method 300.0, total organic carbon by Method 415.1, sulfide by Method 376.1, ferrous iron by Method SM3500B, methane by Method 8015B, ethane by Method 8015B, ethene by Method 8015B, carbon dioxide by Method SM4500B, and alkalinity by Method 310.1.

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

Table 2-2
Samples and Analysis,
March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs[1] Analysis	Natural Biodegradation Parameter Analysis[2]	Description
QAFB01	3/22/01	X		Field Blank
QAFB02	3/26/01	X		Field Blank
QARB01	3/20/01	X		Rinsate
QARB02	3/26/01	X		Rinsate
QATB01	3/22/01	X		Trip Blank
QATB02	3/22/01	X		Trip Blank
QATB03	3/28/01	X		Trip Blank
BR-01	3/21/01	X		Environmental Sample
BR-01 (DUP)	3/21/01	X		Duplicate
BR-02	3/21/01	X		Environmental Sample
BR-03	3/22/01	X		Environmental Sample
BR-04	3/24/01	X		Environmental Sample
BR-05	3/25/01	X		Environmental Sample
BR-06	3/22/01	X		Environmental Sample
BR-07	3/23/01	X		Environmental Sample
BR-08	3/24/01	X		Environmental Sample
BR-09	3/28/01	X		Environmental Sample
BR-10	3/28/01	X		Environmental Sample
BR-11	3/28/01	X		Environmental Sample
BR-11 (DUP)	3/28/01	X		Duplicate
BR-12	3/25/01	X		Environmental Sample
BR-13	3/25/01	X		Environmental Sample
BR-13 (MS)	3/25/01	X		Matrix Spike
BR-13 (MD)	3/25/01	X		Matrix Spike Duplicate
BR-14	3/23/01	X		Environmental Sample
BR-15	3/26/01	X		Environmental Sample
BR-16	3/25/01	X		Environmental Sample
BR-17	3/24/01	X		Environmental Sample
EW-S-5	3/21/01	X	X	Environmental Sample
OB-04	3/24/01	X		Environmental Sample
OB-06	3/21/01	X		Environmental Sample

See notes at end of table.

Table 2-2 (Continued)
Samples and Analysis,
March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Sample Date	VOCs[1] Analysis	Natural Biodegradation Parameter Analysis[2]	Description
OB-07	3/28/01	X	X	Environmental Sample
OB-08	3/20/01	X	X	Environmental Sample
OB-09	3/26/01	X	X	Environmental Sample
TW-04	3/22/01	X	X	Environmental Sample
TW-07	3/29/01	X	X	Environmental Sample
TW-09	3/27/01	X	X	Environmental Sample
TW-13	3/20/01	X		Environmental Sample
TW-13 (MS)	3/20/01	X		Matrix Spike
TW-13 (MD)	3/20/01	X		Matrix Spike Duplicate
TW-17	3/23/01	X	X	Environmental Sample
TW-20	3/27/01	X	X	Environmental Sample
W-2	3/29/01		X[3]	Environmental Sample
W-4	3/22/01	X		Environmental Sample
W-5	3/23/01	X	X	Environmental Sample

[1] VOCs analyzed by Method 8260.
[2] Natural biodegradation parameters include nitrate by Method 300.0, sulfate by Method 300.0, chloride by Method 300.0, total organic carbon by Method 415.1, sulfide by Method 376.1, ferrous iron by Method SM3500B, methane by Method 8015B, ethane by Method 8015B, ethene by Method 8015B, carbon dioxide by Method SM4500B, and alkalinity by Method 310.1.
[3] Analyzed for alkalinity by Method 310.1, chloride by Method 300.0, and carbon dioxide by Method SM4500B.

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

the programmable logic controller via phone line and 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.
  - 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.
  - Cleaning the System building interior.
  - Collecting System performance and effluent compliance samples. Performance samples are collected from each vacuum pump and air stripper exhaust stack, and the influent and effluent of the air stripper. Compliance samples are collected from the effluent of the System prior to discharge to the Monroe County Pure Waters Sewer System.

- Quarterly
  - Completing all monthly activities
  - Checking pump motors for wear
  - Checking all electrical components for proper operation
  - Cleaning groundwater treatment equipment

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 Baseline (October/November 2000) event and the first quarterly (March 2001) 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.

Prior to start up of the System, extraction wells were also sampled during the Baseline event. This was performed in order to provide a comprehensive set of Baseline data for the extraction wells under non-pumping conditions. Quarterly events will not include samples collected from extraction wells. EW-S-5 was sampled during the March 2001 event to provide information for natural biodegradation parameters.

A summary of wells sampled and the analyses performed are found in Table 2-1 and Table 2-2. The sample results for the Baseline and March 2001 sampling events are summarized in Tables 3-1, 3-2, and 3-3. These tables present positive volatile organic compound (VOC) results. Sample VOC results are also presented in "flag boxes" in Appendix A, Figures 6 and 7, representing overburden monitor wells and bedrock monitor wells. Natural biodegradation results for the March 2001 event are summarized in Table 3-4. Comprehensive results can be found in the laboratory reports located in Appendix E.

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. These wells showed a significant decline in TCE since the Baseline event. Daughter product concentrations at OB-04 also showed a significant decline. OB-04 TCE concentrations fell from 70,000 to 150 micrograms per liter (µg/L) (99.8 percent reduction). OB-06 TCE concentrations decreased from 2,600 to 540 µg/L (79.2 percent reduction). OB-07 exhibited TCE at 7.5 µg/L during the March 2001 event. No daughter products were detected in this well.

Monitor wells OB-05 and OB-08 are located in the North TCE Source Area while OB-09 is within the plume. OB-08 exhibited a decline in TCE concentrations. OB-05 was sampled during the Baseline event, but was dry during the March sampling event. The Baseline TCE value at OB-05 was 25,000 µg/L. Measured concentrations in OB-08 dropped from 40,000 to 29,000 µg/L between the Baseline and March 2001 sampling events, a 27.5 percent reduction. OB-09 TCE concentrations dropped slightly from 180 to 150 µg/L, a 16.7 percent drop.

Acetone was detected (28 µg/L) in one source area well (OB-07), while freon was detected (7.6 µg/L) in another well (OB-09). Neither compound has a listed maximum contaminant level (MCL), and acetone is a known laboratory contaminant.

Table 3-1
Summary of Extraction Well VOC Results, Baseline Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
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-5**	03/21/01	38,000	--	--	--	--
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	--	--	--	--	--

See notes at end of table.

Table 3-1 (Continued)
Summary of Extraction Well VOC Results, Baseline Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
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
* = unique sampling event
** = EW-S-5 was sampled in March for natural biodegradation parameters.
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
DUP = duplicate
ID = identification
J = estimated value
TCE = trichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
VOC = volatile organic compound

Table 3-2
Summary of Overburden VOC Results, Baseline and March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-04	11/19/00	70,000	2,900	--	--	--
OB-04	03/24/01	150	3.2 J	--	--	--
OB-05	11/19/00	25,000	4,600	--	--	350
OB-05*	03/25/01	NS	NS	NS	NS	NS
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-07	11/16/00	--	--	--	--	--
OB-07	03/28/01	7.5	--	--	--	--
OB-08	11/16/00	40,000	390 J	--	--	--
OB-08	03/20/01	29,000	390 J	--	--	--
OB-09	11/16/00	180	14	--	--	--
OB-09	03/26/01	150	16	--	--	--
TW-01	10/24/00	--	--	--	--	--
TW-01**	03/01	NS	NS	NS	NS	NS
TW-04	10/24/00	42	79	--	--	--
TW-04	03/22/01	14	16	--	--	--
TW-07	10/25/00	28	7.2	28	--	--
TW-07	03/29/01	--	--	1.2 J	--	--
TW-09	10/24/00	230	36	--	--	--
TW-09	03/27/01	120	1.9 J	--	--	--
TW-13	11/16/00	--	--	--	--	--
TW-13	03/20/01	--	--	--	--	--
TW-17	11/17/00	1,000	7.9 J	--	--	--
TW-17	03/23/01	530	--	--	--	--
TW-20	10/25/00	5.2	--	--	--	--
TW-20	03/27/01	12	--	--	--	--
W-2	10/21/00	--	--	--	--	--
W-2	03/29/01	NS	NS	NS	NS	NS
W-4	11/17/00	--	--	--	--	--
W-4	03/22/01	1.6 J	--	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results, Baseline and March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
W-5	11/16/00	--	27	11	--	--
W-5	03/23/01	120	25	8.1	--	--
W-6	10/24/00	--	--	--	--	--
W-6***	03/01	NS	NS	NS	NS	NS

* Well was dry.
** Will not be sampled during quarterly events.
*** W-6 was not sampled due to obstruction.

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

Table 3-3
Summary of Bedrock VOC Results,
Baseline and March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-01	11/17/00	180	550	4.3 J	--	3.5 J
BR-01	03/21/01	320	34	2.2 J	--	--
BR-01 (DUP)	03/21/01	320	35	2.4 J	--	--
BR-02	11/18/00	1,800	540	31 J	--	--
BR-02	03/21/01	1,200	95	--	--	--
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-04	11/19/00	10,000	600	140	17 J	25 J
BR-04	03/24/01	9,000	400	95 J	--	--
BR-05	11/19/00	4,800	1,200	130	--	160
BR-05	03/25/01	5,800	850	120 J	--	160
BR-06	11/17/00	--	--	--	--	--
BR-06	03/22/01	--	--	--	--	--
BR-07	11/18/00	7.4	29	10	--	220
BR-07	03/23/01	3.4 J	34	13	--	210
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-09	11/18/00	13,000	190 J	--	--	--
BR-09	03/28/01	9,500	100 J	--	--	--
BR-10	11/18/00	4,000	450	27 J	--	--
BR-10	03/28/01	4,700	980	110 J	--	--
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-12	11/19/00	200	8.1	--	--	--
BR-12	03/25/01	130	21	--	--	--
BR-13	11/19/00	2.5 J	--	--	--	--
BR-13	03/25/01	3,200 J	150	14	1.7 J	1 J
BR-14 (Deep)	11/19/00	--	1.2 J	--	--	--
BR-14 (Deep)	03/23/01	1.2 J	--	--	--	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results,
Baseline and March 2001 Sampling Event

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-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-16	11/19/00	6.0	3.8 J	--	--	--
BR-16	03/25/01	1.2 J	--	--	--	--
BR-17	11/18/00	840	160	84	3.6 J	--
BR-17	03/24/01	6,900	360	93	9.4 J	52

Notes:
-- = no data
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 3-4
Summary of Natural Biodegradation Results, March 2001 Sampling Event[1]

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Parameter	Value Favorable for Natural Biodegradation	TW-04	TW-07	TW-09	TW-17	TW-20	W-5	W-2 (background)
DO (mg/L)	<0.5	**0.12**	**0.33**	**0**	1.25	6.26	1.00	4.04
Nitrate (mg/L)	<1	**<0.5**	22.3	2.95	**<0.5**	5.33	**<0.5**	NA
Iron II (mg/L)	>1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.76**	NA
Sulfate (mg/L)	<20	257	318	475	103	67.9	464	NA
Sulfide (mg/L)	>1	**1.13**	<1	<1	<1	<1	<1	NA
Methane (mg/L)	>0.5	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	NA
ORP (mV)	<50	**-157**	83	**-31**	**15**	74	**-65**	17
pH	5<pH<9	**7.29**	**6.57**	**7.05**	**6.91**	**7.21**	**6.87**	7.77
TOC (mg/L)	>20	3.58	6.5	1.92	2.03	1.57	7.2	NA
Temperature (°C)	>20	6.7	8.6	6.4	7.5	5.0	9.5	7.9
CO_2 (mg/L)	Note 1	20	**150**	**55**	22	**65**	**110**	16*
Alkalinity (mg/L)	Note1	309	268	237	283	368	**561**	213*
Chloride (mg/L)	Note 1	9.4	**45**	**27**	**17.3**	7.58	32.7	7.19
BTEX (mg/L)	>0.1	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	NA
Ethene (mg/L)	>0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethane (mg/L)	>0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Daughter Products Detected	Any detection of daughter products	**Yes**	**Yes**	**Yes**	Note 2	No	**Yes**	NA

[1] W-2 is the background well; other wells are perimeter wells.
* Due to a lab error, these parameters were analyzed outside of hold time.

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 2: None detected; elevated sample quantitation limits (25 µg/L for DCE isomers, 5 µg/L for vinyl chloride) due to high TCE concentration.

Note: Shading indicates parameters supportive for natural biodegradation.

Continued on next page.

Table 3-4 (Continued)
Summary of Natural Biodegradation Results,
March 2001 Sampling Event[1]

Quarterly Progress Report
First Quarter 2001
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).

DO = dissolved oxygen
mg/L = milligrams per liter
NA = not applicable
ORP = oxygen reduction potential
mV = millivolt
TOC = total organic compound
°C = degrees Celsius
CO_2 = 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

Bedrock

Bedrock monitor wells BR-04, BR-09, BR-10, BR-11, and BR-17 are located within the South TCE Source Area. BR-04 and BR-09 both exhibited a decrease in TCE and daughter product concentrations. A 10 percent reduction (from 10,000 to 9,000 µg/L) was measured in BR-04. Concentrations of TCE in BR-09 decreased from 13,000 to 9,500 µg/L (26.9 percent reduction). TCE concentrations increased (by approximately 17.5 percent from 4,000 to 4,700 µg/L) in well BR-10. In well BR-17, concentrations increased over sevenfold (from 840 to 6,900 µg/L). Increases in daughter products (cis-1,2-dichloroethylene [cis-1,2-DCE] and vinyl chloride) were also recorded.

BR-05, BR-12, BR-15, and BR-16 are located in the North TCE Source Area. BR-15 and BR-16 showed declines in TCE (7.4 and 85.7 percent, respectively). Daughter product concentrations also declined. BR-05 showed a 20.8 percent decline and BR-12 showed a 35 percent increase in TCE concentration, while there was a 29.2 percent decrease in daughter product concentrations (TCE increased from 4,800 to 5,800 µg/L while cis-1,2-DCE decreased from 1,200 to 850 µg/L.).

BR-11 TCE concentrations increased from 1,400 to 44,000 µg/L. An increase of this level was not seen in the North TCE Source Area, which is expected since the source material in the North TCE Source Area was located in the upper five feet of soils and removed during excavation activities. The source material in the South TCE Source Area is located 15 to 20 feet below ground surface, associated with a historical release from an underground storage tank. The increases in the South TCE Source Area are attributed to the recent startup of the System, that includes bedrock groundwater extraction. It is believed that contaminant mass was initially mobilized towards the bedrock pumping well, resulting in an increase in contaminant concentrations in the surrounding bedrock monitor wells. These contaminant levels are expected to decrease due to continued extraction from the bedrock pumping well, which creates a capture zone that encompasses these monitor wells.

Acetone was detected in samples from two bedrock monitor wells (BR-12 and BR-16) ranging from 29 to 92 µg/L. Acetone has no listed MCL, and is a known laboratory contaminant.

3.2 UPGRADIENT MONITOR WELLS

Overburden Monitor Wells

W-2 and W-6 are southwest of the source areas and are considered to be upgradient. Neither well contained detectable concentrations of TCE, or any of its daughter products during the Baseline sampling event. These wells have historically shown non-detectable levels and are not included in quarterly sampling events.

Bedrock Monitor Wells

BR-06 is also an upgradient well, located southwest of the source areas. The samples from BR-06 did not contain detectable concentrations of TCE.

3.3 PERIMETER DOWNGRADIENT MONITOR WELLS

Overburden Monitor Wells

Downgradient wells TW-01 and TW-13 showed no VOC detections. Low levels of TCE were reported in perimeter downgradient well W-4 (1.6 J µg/L) during the March event. TW-04, TW-07, TW-09, and TW-17 all displayed a decline in TCE and daughter product concentrations. TCE concentrations from the highest of these, TW-17, dropped 47 percent (from 1,000 to 530 µg/L), and cis-1,2-DCE dropped from an estimated 7.9 µg/L to below detection levels. Measured concentrations in two perimeter wells showed apparent increases (from 5.2 to 12 µg/L) in TW-20 and (from <58 to 120 µg/L) in W-5. No daughter products were detected in TW-20. Concentrations remained essentially stable in W-5 (cis-1,2-DCE, 27 and 25 µg/L). Acetone was detected in three perimeter overburden wells at concentrations ranging from 71 to 2,400 µg/L (this sample was diluted in the laboratory). Acetone has no listed MCL and is a known laboratory contaminant.

Bedrock Monitor Wells

The perimeter downgradient bedrock monitor wells are BR-01, BR-02, BR-03, and BR-13. Concentrations of TCE increased in wells BR-01, BR-03, and BR-13. At BR-13, TCE increased from an estimated 2.5 J to an estimated 3,200 J µg/L. BR-01 showed an increase from 180 to 320 µg/L in TCE concentrations. BR-13 showed an increase in daughter products. Perimeter downgradient bedrock well BR-02 showed a decline in TCE and daughter product concentrations. TCE levels dropped from 1,800 to 1,200 µg/L and cis-1,2-DCE levels dropped from 540 to 95 µg/L. Upgradient perimeter bedrock well BR-07 remained unchanged from the Baseline to the March event. Benzene (at 7 µg/L) and toluene (at 2.6 µg/L) were detected in one well (BR-07). Acetone was detected in another perimeter bedrock well at 78 µg/L. Acetone has no listed MCL and is a known laboratory contaminant.

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 showed increases in concentrations of TCE-related products with TCE increasing from 540 to 1,100 µg/L and cis-1,2-DCE concentrations increasing from 44 to 320 µg/L. This is consistent with the shallower bedrock well BR-17, which is located nearby. The screened intervals of these deep bedrock wells overlap the screen intervals of the bedrock pumping wells. These increases are attributed to mobilization of contaminants as discussed in Section 3.1. Similarly, contaminant levels are expected to decrease due to the continued extraction of groundwater from the bedrock pumping well, which creates a capture zone that encompasses this monitor well. TCE-related product levels remained essentially stable in BR-14, with reported levels below or just above the detection level.

Acetone was detected in the samples from both deep bedrock wells (250 and 260 µg/L). Toluene was also detected in both wells (5.5 and 11 µg/L). Acetone has no listed MCL, and both toluene detections are below the MCL. BR-08 displayed a detection of xylenes at 12 µg/L. BR-14 had additional detections of 2-butanone at 14 µg/L and 2-hexanone at 14 µg/L.

3.5 POTENTIOMETRIC SURFACE

Potentiometric surface maps were generated to depict groundwater elevations for the overburden groundwater. Surfer™ (version 7.0), a Windows-based program, was used to plot the potentiometric surface maps in Appendix A, Figures 2 and 4. This program mathematically calculates contours based upon groundwater elevation measurements collected in the field. The Baseline map was based upon water level information collected while sampling was performed in November 2000, during non-pumping conditions. Overburden potentiometric surface mapping for the Baseline event indicates that under non-pumping conditions, groundwater flow direction is towards the northeast.

The March 2001 map was based upon water level information collected immediately prior to sampling activities. Overburden potentiometric surface mapping for the March 2001 event indicates that groundwater flow is being directly affected by pumping conditions. Figure 4 in Appendix A indicates that the entire overburden groundwater table at the site, except possibly a small area between TW-01 and TW-04, is being contained. TCE was non-detected in TW-01 during the Baseline event, and the well was not included in the March 2001 sampling event. TCE and daughter product levels declined in TW-04 between the Baseline and March 2001 sampling event.

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 and the limited number of wells. The head data appears to be bi-modally distributed possibly reflecting differing elevations of water bearing fractures. A plot of this data indicates a general decrease in bedrock piezometric head towards the north. The absence of contaminants at the southwest corner of the site (BR-6) 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 Figures 3 and 5 in Appendix A.

3.6 NATURAL BIODEGRADATION

During the March 2001 sampling event, natural biodegradation parameters were collected from 11 monitor wells including background well W-2 and perimeter wells TW-04, TW-07, TW-09, TW-17, TW-20, and W-5. Table 3-4 shows a comparison between the natural biodegradation parameters in the perimeter 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.

Due to a laboratory error, samples from background well W-2 were analyzed outside of holding times for carbon dioxide and alkalinity. The results for these parameters would not vary significantly if they had been analyzed within holding times and, if anything, would tend to be slightly higher. Higher results would be more conservative in assessing natural biodegradation potential. The March 2001 results for alkalinity and carbon dioxide for W-2 are included in Table 3-4.

Table 3-4 shows that TCE daughter products were detected in four out of the six perimeter monitor wells. Several other parameters were indicative of the occurrence of natural biodegradation in each of the monitor wells containing TCE daughter products. Daughter products were not detected in TW-17 and

TW-20. However, due to the concentration of TCE in the sample, the TW-17 analysis sample quantitation limits (SQLs) of 25 µg/L for dichloroethylene (DCE) isomers and 5 µg/L for vinyl chloride were increased because the sample had to be diluted prior to analysis. This dilution may have masked the presence of daughter products. Values for the following parameters from TW-17 samples indicated conditions conducive to natural biodegradation: nitrate, ORP, pH, and chloride. TW-20, which only had two parameter readings possibly indicating natural biodegradation, is at the northeast corner of the property. It is the furthest downgradient monitor well, and the March 2001 results show a relatively low concentration of TCE of 12 µg/L.

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

3.7 TREATMENT SYSTEM PERFORMANCE

The System was deemed to be fully operational on January 6, 2001. Since then, it has operated 89 percent of available hours through March 2001. Downtime of the System is attributed to initial operating adjustments and routine O&M. Table 3-5 provides a summary of monthly 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.

During the first quarter of operation, 3.8 million gallons of groundwater was extracted with flow rates ranging from 23 to 29 gallons per minute, and a total of 906 pounds of VOCs were removed from the subsurface (see Figures 8 and 9, Appendix A). The majority of VOCs were removed from the overburden through the vapor phase and stripped from groundwater during the vacuum extraction process. Approximately 879 pounds (97 percent) of VOCs were removed by the vacuum extraction process and the remaining 27 pounds (3 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 monthly mass of VOCs extracted by the treatment system has decreased during the first quarter of operation. This decrease in VOCs can also be generally seen in the groundwater monitoring results discussed earlier in this report.

Table 3-5
System Operational Summary, January – March 2001

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Parameter	2001		
	January	February	March
System Up-time (%)	97	76	93
Average System Vacuum[1]			
South Source Area (in. Hg)	18	18	20
North Source Area (in. Hg)	14	14	18
Average System Groundwater Flowrates[2]			
Total System (gpm)	23	27	29
Dual Phase Extraction (gpm)	5	8	11
Bedrock Extraction (gpm)	18	19	18
Average System Vapor Flowrates[1]			
Dual Phase Extraction South Source Area (CFM)	189	157	137
Dual Phase Extraction North Source Area (CFM)	112	117	123
System Mass Removal Rate (lbs./hr)[3]	0.33	0.13	0.06
System Mass Removed (lbs.)[3]	387	383	136
Cumulative Mass Removed (lbs.)[3]	387	770	906
Air Stripper Removal Efficiency (%)[3]	99.6	99.6	99.6
Cumulative Groundwater Recovered (gallons)[2]	1,546,559	2,637,226	3,833,248

[1] Instantaneous.
[2] Continuous.
[3] Calculated.

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

Table 3-6
System Analytical Data, January – March 2001

Quarterly Progress Report
First Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2 DCE	trans-1,2 DCE	TCE	Vinyl Chloride
			Vapor Analytical Results (ppm_v)		
Vacuum Pump #1 (South TCE Source Area)	1/6/01	<6.30	<6.30	170.00	<9.80
	2/7/01	0.69	<0.25	69.00	<0.39
	3/6/01	<1.30	<1.30	24.00	<0.20
Vacuum Pump #2 (South TCE Source Area)	1/6/01	<6.30	<6.30	180.00	<9.80
	2/7/01	<3.10	<3.10	79.00	<4.90
	3/6/01	<1.30	<1.30	26.00	<2.0
Vacuum Pump #3 (North TCE Source Area)	1/6/01	<0.25	<0.25	7.60	<0.39
	2/7/01	0.36	<0.25	7.10	<0.39
	3/6/01	<0.25	<0.25	6.50	<0.39
Air Stripper Effluent	1/6/01	0.31	<0.25	5.90	<0.39
	2/7/01	0.30	<0.25	3.20	<0.39
	3/6/01	0.53	<0.25	4.70	<0.39
			Groundwater Analytical Results (µg/L)		
Air Stripper Influent	1/6/01	210	<130.00	5000.00	<25.00
	2/7/01	300.00	12.00	4100.00	1.10
	3/6/01	340.00	<130.00	4000.00	<25.00

Notes:
< = less than
µg/L = micrograms per liter
DCE = dichloroethylene
EPA = Environmental Protection Agency (United States)
Groundwater Analysis = EPA Method 8260
ppm_v = parts per million by volume
TCE = trichloroethylene
Vapor Analysis = EPA Method TO-14 Modified

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 3 MS/MSD analyses for the Baseline event and 2 MS/MSD analyses for the March 2001 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.

Baseline Event

BR-13

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	94	98	4	(76 - 127)	11
Chlorobenzene	92	96	4	(75 - 130)	13
1,1-Dichloroethylene	106	110	4	(61 - 145)	14
Toluene	92	98	6	(76 - 125)	13
Trichloroethlyene	91	97	6	(71 - 120)	14

EW-N-1

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	104	96	8	(76 - 127)	11
Chlorobenzene	104	104	0	(75 - 130)	13
1,1-Dichloroethylene	112	104	7	(61 - 145)	14
Toluene	104	96	8	(76 - 125)	13
Trichloroethylene	104	96	3	(71 - 120)	14

W-4

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	108	98	10	(76 - 127)	11
Chlorobenzene	104	98	6	(75 - 130)	13
1,1-Dichloroethylene	122	116	5	(61 - 145)	14
Toluene	104	100	4	(76 - 125)	13
Trichloroethylene	108	96	11	(71 - 120)	14

March 2001 Event

TW-13

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	92	94	2	(76 - 127)	11
Chlorobenzene	92	94	2	(75 - 130)	13
1,1-Dichloroethylene	96	98	2	(61 - 145)	14
Toluene	96	98	2	(76 - 125)	13
Trichloroethylene	96	102	6	(71 - 120)	14

BR-13

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	92	90	2	(76 - 127)	11
Chlorobenzene	92	92	0	(75 - 130)	13
1,1-Dichloroethylene	93	94	1	(61 - 145)	14
Toluene	92	93	1	(76 - 125)	13
Trichloroethylene	90	90	0	(71 - 120)	14

Field duplicate sampling followed the same sampling outline as MS/MSD analysis. One duplicate sample was collected for each set of twenty field samples, resulting in three duplicate samples for the Baseline event and two duplicate samples for the March 2001 sampling event. Field duplicate precision is presented in the following tables.

Baseline Event

Sample ID	Analyte	PQL	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
EW-S-1S	2-Butanone (MEK)	10	1,000		1,000		0
	cis-1,2-Dichloroethylene	5.0	16	J	18	J	12
	Trichloroethylene	5.0	160		170		6
OB-06	cis-1,2-Dichloroethylene	5.0	60		80	J	25
	Trichloroethylene	5.0	2,600		3,300		22
BR-15	cis-1,2-Dichloroethylene	5.0	54	J	49	J	10
	Trichloroethylene	5.0	2,700		2,700		0

March 2001 Event

Sample ID	Analyte	PQL	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
BR-01	Acetone	20	78		88		12
	cis-1,2-Dichloroethylene	5.0	34		35		3
	trans-1,2-Dichloroethylene	5.0	2.2	J	2.4	J	9
	Trichloroethylene	5.0	320		320		0
BR-11	1,1-Dichloroethylene	5.0	21	J	19	J	10
	cis-1,2-Dichloroethylene	5.0	260		270		4
	trans-1,2-Dichloroethylene	5.0	120		120		0
	1,1,1-Trichloroethane	5.0	13	J	12	J	8
	Trichloroethylene	5.0	44,000		52,000		16
	Vinyl Chloride	1.0	10	U	21		ND

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 (matrix spikes). Surrogate and matrix spike recoveries evaluate accuracy and identify interferences from the sample matrix.

Surrogate recoveries were acceptable for VOC analyses for both sampling events.

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 rinsates from decontaminated sampling equipment. Target organic compounds in quality control 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.

Three field blanks for the Baseline event and two field blanks for the March 2001 event were analyzed to characterize the water source used during these sampling events. Potable water was used by the field crews for rinsates. In two of the three field blanks analyzed for the Baseline event, chloroform was detected at 5.4 and 4.5 µg/L, as well as trichloroethylene at 23 µg/L. No target VOC analytes were detected above the reporting limit in any March 2001 field blanks.

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

Trip blanks were analyzed as part of the VOC laboratory QC program. No target VOCs were detected above the reporting limits for all three trip blanks analyzed for the Baseline event or the three trip blanks analyzed for the March 2001 sampling event.

Equipment rinse samples were collected per every 20 production samples and analyzed for all target constituents. Three rinsate blanks were collected during the Baseline event. Trichloroethylene was detected in one sample at 21 µg/L, while chloroform was detected in two of these rinsate blanks at 5.0 and 3.9 µg/L. Two rinsate blanks were collected during the March 2001 event. Trichloroethylene was detected in one rinsate at 1.1 µg/L.

Due to the detections of trichloroethylene and chloroform in two field blanks and two rinsates, qualifications were made to the sample results associated with these quality control samples. Each Environmental Sample was examined for TCE and chloroform detections. If a sample displayed a detection less than five times that of its associated quality control sample for TCE and/or chloroform, the detection limit was raised to the concentration found in the sample and a qualifier of U was added. In the Baseline event, this qualification was made to EW-S-15 (for chloroform) and OB-07, W-4, and W-5 (for TCE). In the March 2001 event, this qualification was made to TW-07 for TCE.

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, but due to a laboratory error in which natural biodegradation parameters for W-2 were analyzed outside of hold times, the completeness reached was 99 percent.

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 Baseline and first quarterly sampling events provides an initial 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. Significant overall decreases in TCE concentrations have been observed in both the South and North TCE Source Areas. This 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

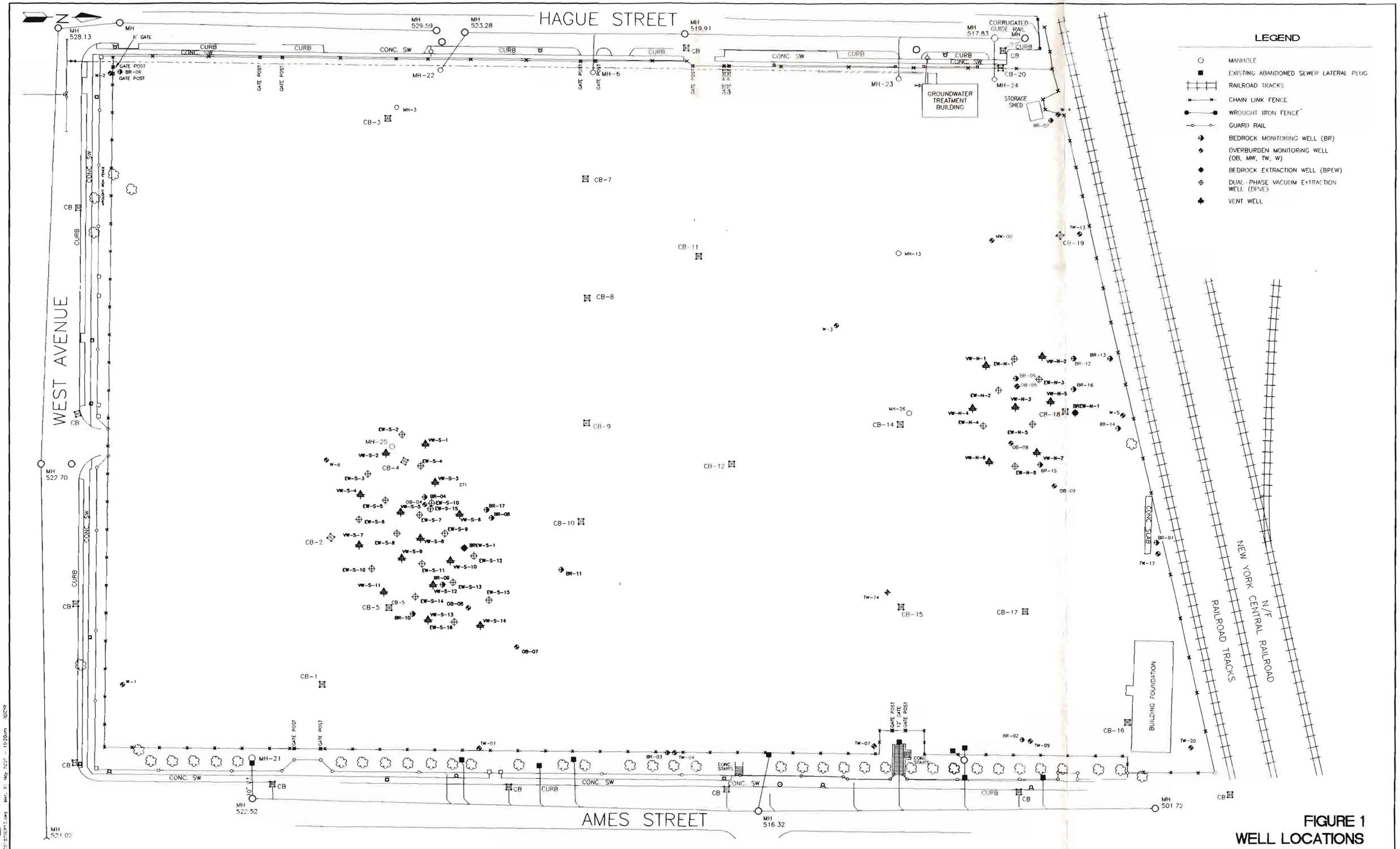
EPA. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.* EPA/600/R-98/128 (September).

Harding ESE. 2001. Dual-Phase Vacuum Extraction Remediation System Operation and Maintenance Manual, prepared for the former Taylor Instruments Site, 95 Ames Street in Rochester, New York (March).

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

APPENDIX A

FIGURES



LEGEND

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

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

FIGURE 1
WELL LOCATIONS
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
Harding ESE

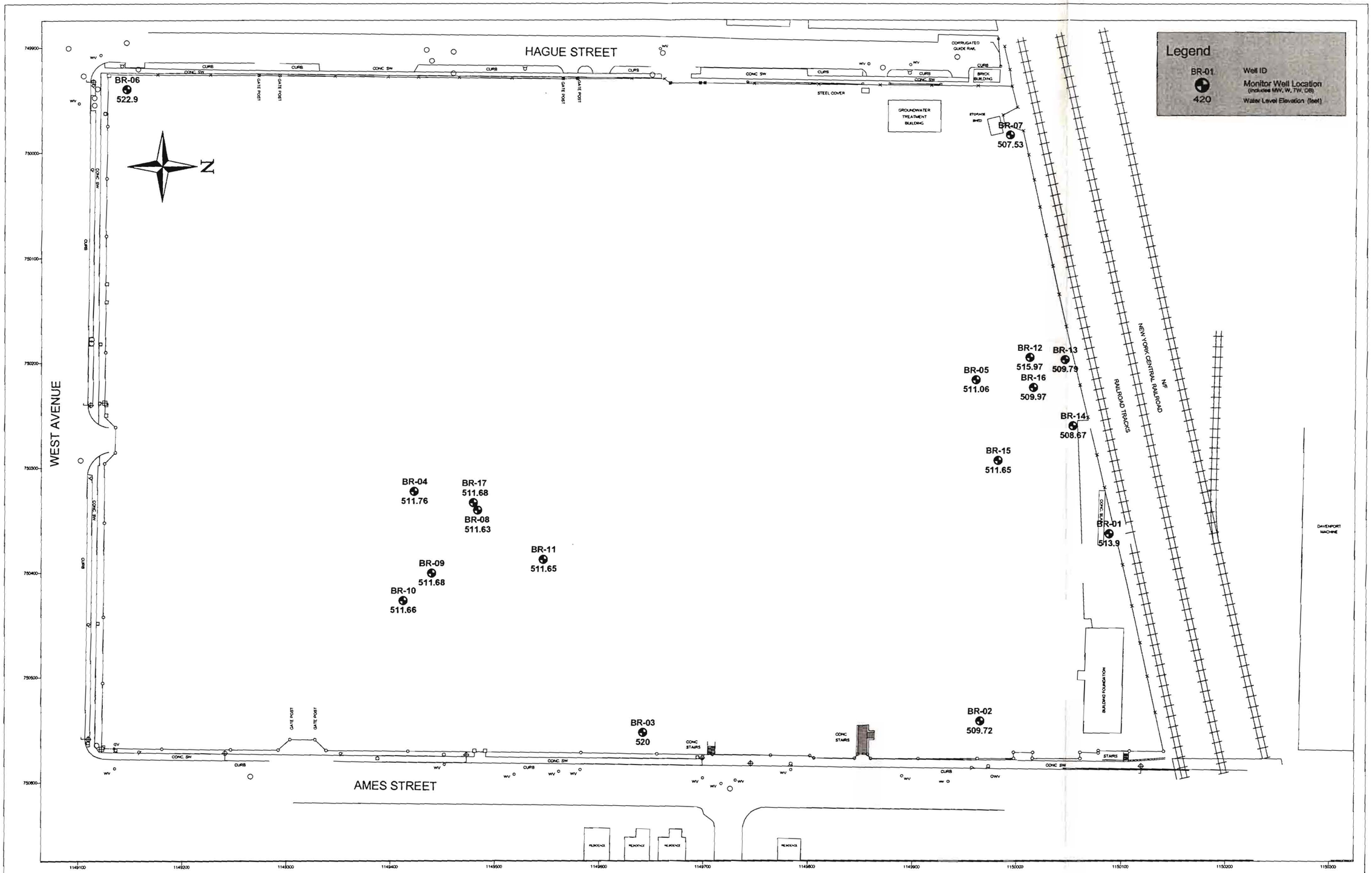


FIGURE 3

BEDROCK GROUNDWATER ELEVATIONS (BASELINE)

QUARTERLY REPORT

FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

Harding ESE

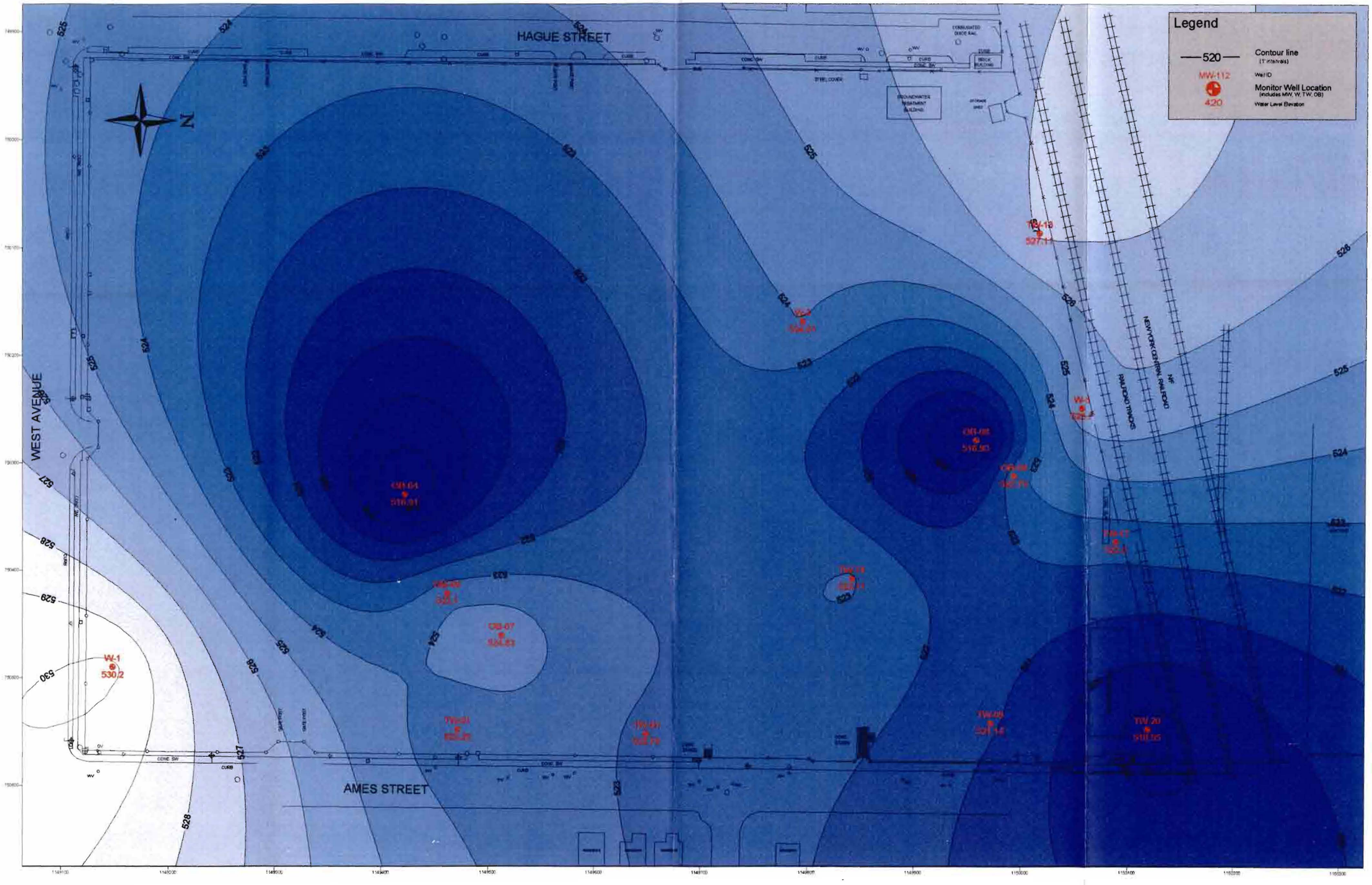


FIGURE 4

OVERBURDEN POTENTIOMETRIC SURFACE MAP (MARCH 2001)

QUARTERLY REPORT

FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

Harding ESE

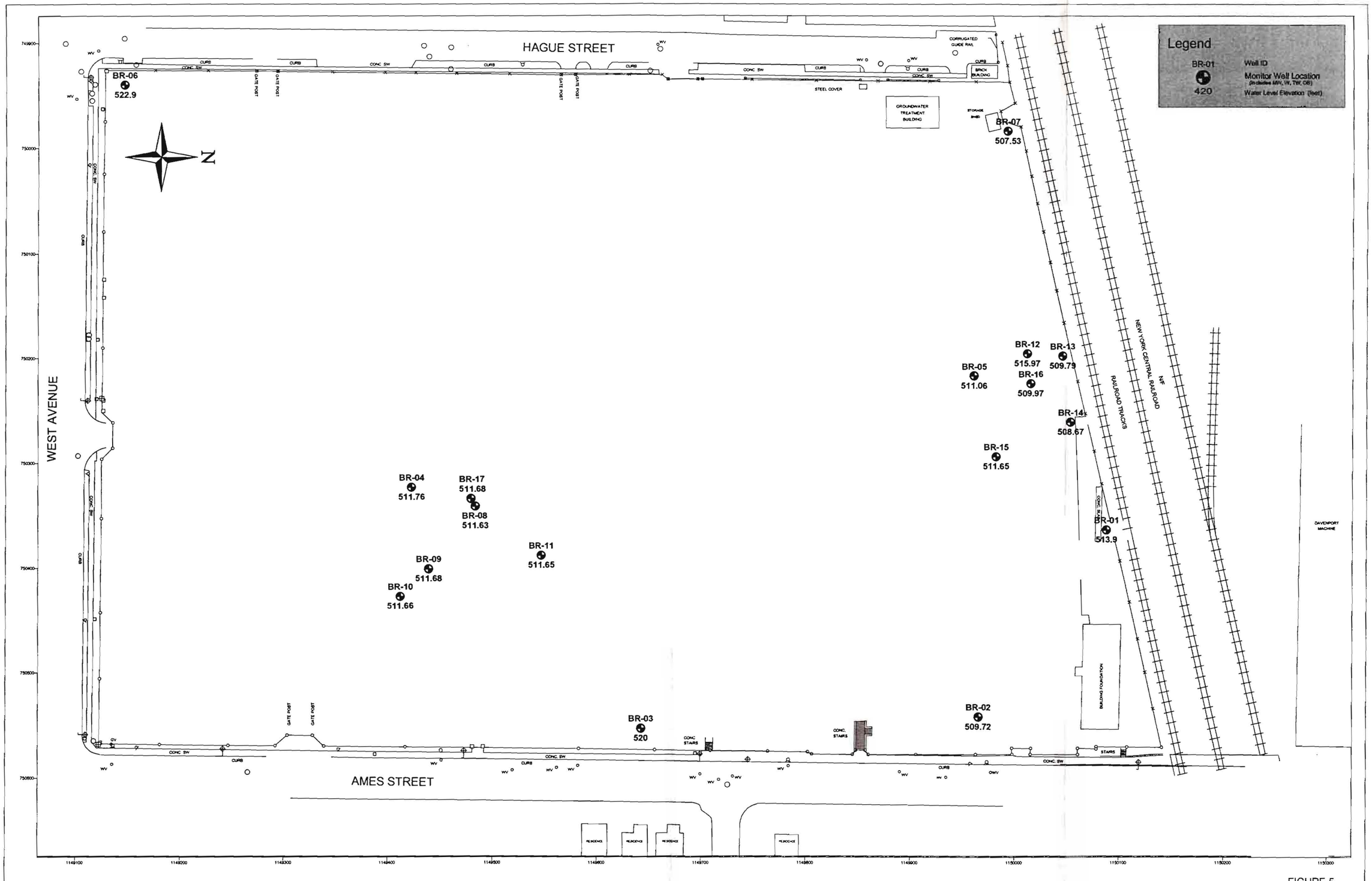


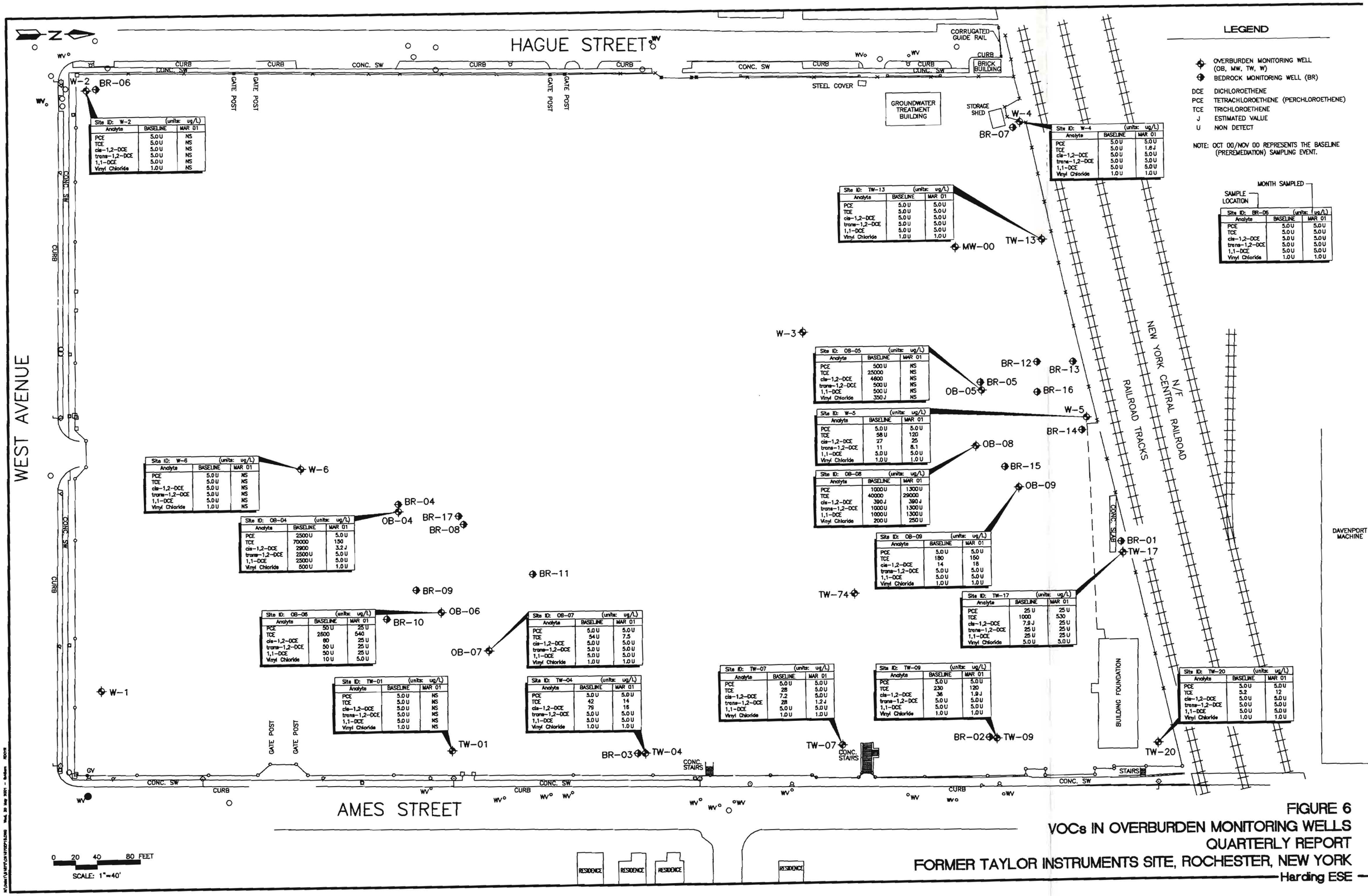
FIGURE 5

BEDROCK GROUNDWATER ELEVATIONS (MARCH 2001)

QUARTERLY REPORT

FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

Harding ESE



LEGEND

- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- BEDROCK MONITORING WELL (BR)

DCE DICHLOROETHENE
PCE TETRACHLOROETHENE (PERCHLOROETHENE)
TCE TRICHLOROETHENE
J ESTIMATED VALUE
U NON DETECT

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

SAMPLE LOCATION — MONTH SAMPLED

Site ID: BR-06	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.0 U	5.0 U
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: W-2	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	NS
TCE	5.0 U	NS
cis-1,2-DCE	5.0 U	NS
trans-1,2-DCE	5.0 U	NS
1,1-DCE	5.0 U	NS
Vinyl Chloride	1.0 U	NS

Site ID: W-4	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.0 U	1.8 J
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-13	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.0 U	5.0 U
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: OB-05	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	500 U	NS
TCE	25000	NS
cis-1,2-DCE	4600	NS
trans-1,2-DCE	500 U	NS
1,1-DCE	500 U	NS
Vinyl Chloride	350 J	NS

Site ID: W-5	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	58 U	120
cis-1,2-DCE	27	25
trans-1,2-DCE	11	8.1
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: OB-08	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	1000 U	1300 U
TCE	40000	29000
cis-1,2-DCE	390 J	390 J
trans-1,2-DCE	1000 U	1300 U
1,1-DCE	1000 U	1300 U
Vinyl Chloride	200 U	250 U

Site ID: OB-09	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	180	150
cis-1,2-DCE	14	18
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-17	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	25 U	25 U
TCE	1000	530
cis-1,2-DCE	7.9 J	25 U
trans-1,2-DCE	25 U	25 U
1,1-DCE	25 U	25 U
Vinyl Chloride	5.0 U	5.0 U

Site ID: TW-20	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.2	12
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-09	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	230	120
cis-1,2-DCE	36	1.9 J
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-07	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	28	5.0 U
cis-1,2-DCE	7.2	5.0 U
trans-1,2-DCE	28	1.2 J
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-04	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	42	14
cis-1,2-DCE	79	16
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: TW-01	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	NS
TCE	5.0 U	NS
cis-1,2-DCE	5.0 U	NS
trans-1,2-DCE	5.0 U	NS
1,1-DCE	5.0 U	NS
Vinyl Chloride	1.0 U	NS

Site ID: OB-06	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	50 U	25 U
TCE	2800	540
cis-1,2-DCE	80	25 U
trans-1,2-DCE	50 U	25 U
1,1-DCE	50 U	25 U
Vinyl Chloride	10 U	5.0 U

Site ID: OB-07	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	54 U	7.5
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: W-6	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	5.0 U	NS
TCE	5.0 U	NS
cis-1,2-DCE	5.0 U	NS
trans-1,2-DCE	5.0 U	NS
1,1-DCE	5.0 U	NS
Vinyl Chloride	1.0 U	NS

Site ID: OB-04	(units: ug/L)	
Analyte	BASELINE	MAR 01
PCE	2500 U	5.0 U
TCE	70000	150
cis-1,2-DCE	2900	3.2 J
trans-1,2-DCE	2500 U	5.0 U
1,1-DCE	2500 U	5.0 U
Vinyl Chloride	500 U	1.0 U

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

FIGURE 6
VOCs IN OVERBURDEN MONITORING WELLS
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
Harding ESE

HAGUE STREET

WEST AVENUE

AMES STREET

CORRUGATED GUIDE RAIL

BRICK BUILDING

STEEL COVER

GROUNDWATER TREATMENT BUILDING

STORAGE SHED

NEW YORK CENTRAL RAILROAD TRACKS

N/F NEW YORK CENTRAL RAILROAD

DAVENPORT MACHINE

BUILDING FOUNDATION

RESIDENCE

RESIDENCE

RESIDENCE

RESIDENCE

CONC. SW

CURB

GATE POST

GATE POST

GATE POST

GATE POST

CONC. STAIRS

STAIRS

GV

LEGEND

- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- BEDROCK MONITORING WELL (BR)

DCE DICHLORODETHENE
PCE TETRACHLOROETHENE (PERCHLOROETHENE)
TCE TRICHLOROETHENE
J ESTIMATED VALUE
U NON DETECT

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

MONTH SAMPLED
SAMPLE LOCATION

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

Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.0 U	5.0 U
cis-1,2-DCE	5.0 U	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: BR-07 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	10 U
TCE	7.4	3.4 J
cis-1,2-DCE	28	34
trans-1,2-DCE	10	13
1,1-DCE	5.0 U	10 U
Vinyl Chloride	220	210

Site ID: BR-13 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	2.5 J	3200 J
cis-1,2-DCE	5.0 U	150
trans-1,2-DCE	5.0 U	14
1,1-DCE	5.0 U	1.7 J
Vinyl Chloride	1.0 U	1.0

Site ID: BR-12 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	200	130
cis-1,2-DCE	8.1	21
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

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

Analyte	BASELINE	MAR 01
PCE	50 U	250 U
TCE	4800	5800
cis-1,2-DCE	1200	850
trans-1,2-DCE	130	120 J
1,1-DCE	50 U	250 U
Vinyl Chloride	160	180

Site ID: BR-16 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	8.0	1.2 J
cis-1,2-DCE	3.8 J	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

Site ID: BR-15 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	100 U	100 U
TCE	2700	2500
cis-1,2-DCE	54 J	33 J
trans-1,2-DCE	100 U	100 U
1,1-DCE	100 U	100 U
Vinyl Chloride	20 U	20 U

Site ID: BR-14 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	5.0 U
TCE	5.0 U	1.2 J
cis-1,2-DCE	1.2 J	5.0 U
trans-1,2-DCE	5.0 U	5.0 U
1,1-DCE	5.0 U	5.0 U
Vinyl Chloride	1.0 U	1.0 U

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

Analyte	BASELINE	MAR 01
PCE	5.0 U	10 U
TCE	180	320
cis-1,2-DCE	550	34
trans-1,2-DCE	4.3 J	2.2 J
1,1-DCE	5.0 U	10 U
Vinyl Chloride	3.5 J	2.0 U

Site ID: BR-02 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	50 U	50 U
TCE	1800	1200
cis-1,2-DCE	540	95
trans-1,2-DCE	31 J	50 U
1,1-DCE	50 U	50 U
Vinyl Chloride	10 U	10 U

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

Analyte	BASELINE	MAR 01
PCE	50 U	250 U
TCE	10000	9000
cis-1,2-DCE	800	400
trans-1,2-DCE	140	85 J
1,1-DCE	17 J	250 U
Vinyl Chloride	25 J	50 U

Site ID: BR-17 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	10 U	25 U
TCE	840	6800
cis-1,2-DCE	180	380
trans-1,2-DCE	84	93
1,1-DCE	3.8 J	9.4 J
Vinyl Chloride	2.0 U	52

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

Analyte	BASELINE	MAR 01
PCE	25 U	25 U
TCE	540	1100
cis-1,2-DCE	44	320
trans-1,2-DCE	5.2 J	6.7 J
1,1-DCE	25 U	25 U
Vinyl Chloride	7.0 J	5.0 U

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

Analyte	BASELINE	MAR 01
PCE	250 U	250 U
TCE	13000	9500
cis-1,2-DCE	190 J	100 J
trans-1,2-DCE	250 U	250 U
1,1-DCE	250 U	250 U
Vinyl Chloride	50 U	50 U

Site ID: BR-11 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	50 U	50 U
TCE	1400	44000
cis-1,2-DCE	320	280
trans-1,2-DCE	52	120
1,1-DCE	50 U	21 J
Vinyl Chloride	13 J	10 U

Site ID: BR-10 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	100 U	130 U
TCE	4000	4700
cis-1,2-DCE	480	980
trans-1,2-DCE	27 J	110 J
1,1-DCE	100 U	130 U
Vinyl Chloride	20 U	25 U

Site ID: BR-03 (units: ug/L)

Analyte	BASELINE	MAR 01
PCE	5.0 U	13 U
TCE	440	810
cis-1,2-DCE	99	12 J
trans-1,2-DCE	1.2 J	13 U
1,1-DCE	2.2 J	3.2 J
Vinyl Chloride	1.0 U	2.5 U

MW-00
TW-13
W-3
BR-12
BR-13
BR-05
OB-05
BR-16
W-5
BR-14
OB-08
BR-15
OB-09
BR-01
TW-17
TW-74
W-6
BR-04
OB-04
BR-17
BR-08
BR-11
BR-09
OB-06
BR-10
OB-07
W-1
TW-01
BR-03
TW-04
TW-07
BR-02
TW-09
TW-20

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

FIGURE 7
VOCs IN BEDROCK MONITORING WELLS
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
Harding ESE

A:\Dwgs\Ar\ROA\GIS\ENVFIG.DWG Thu, 28 May 2009 - 4:09pm ROTH

Figure 8
Monthly Average Groundwater Flowrates

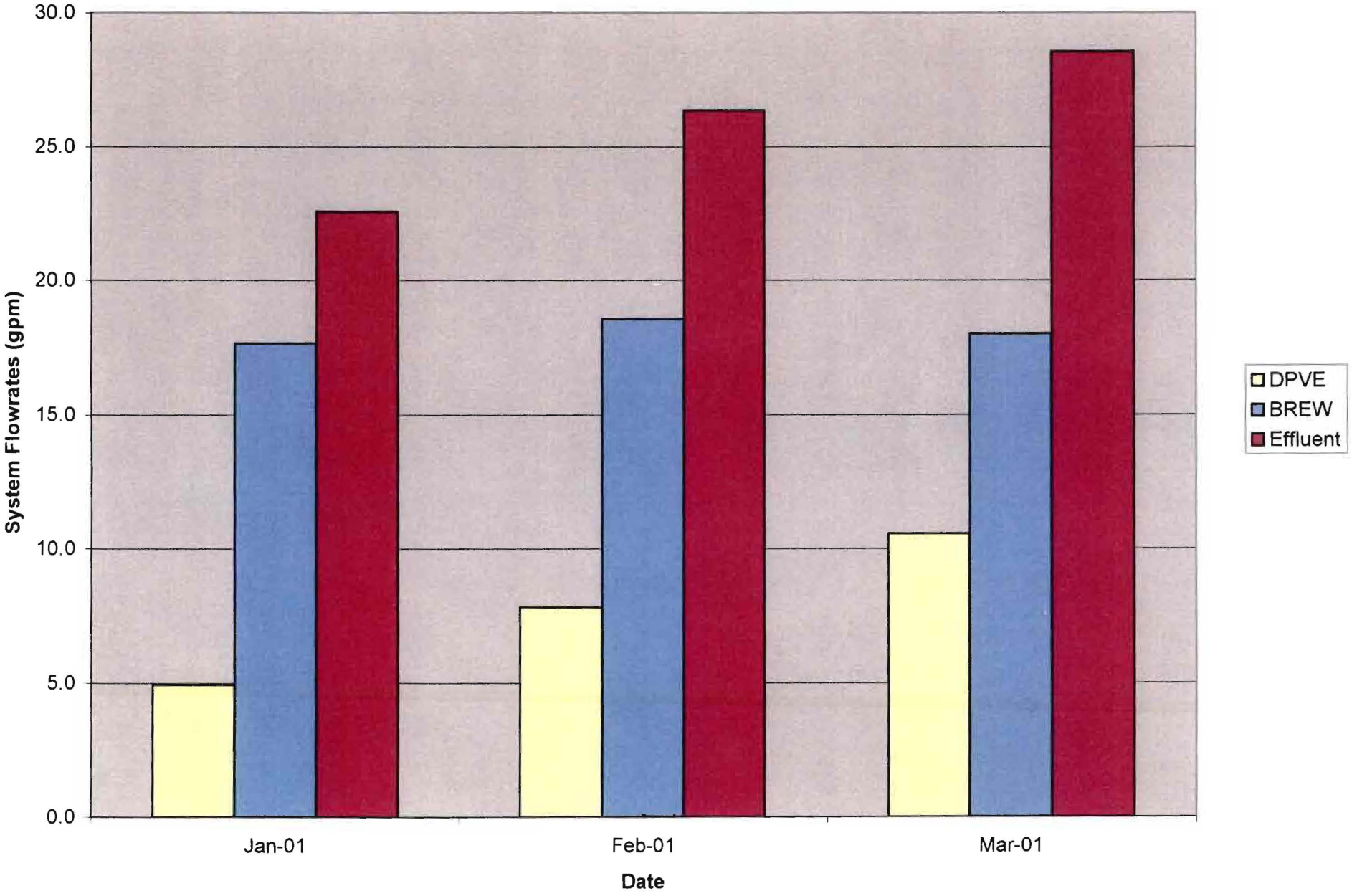
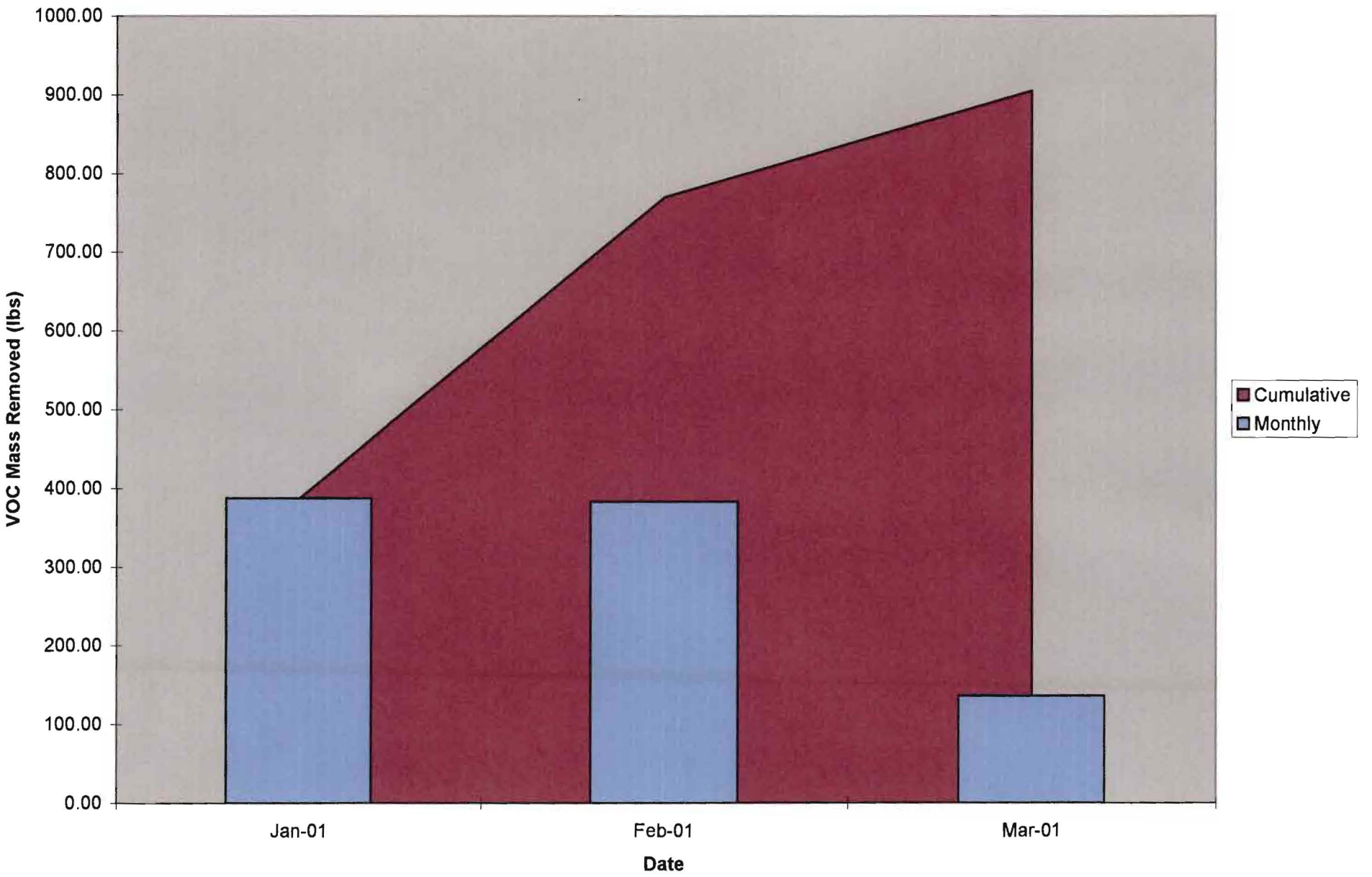


Figure 9
TCE Mass Removed



APPENDIX B

WELL CONSTRUCTION INFORMATION

Appendix B
Well Construction Information

				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
BR-01	09/02/97	42.2	42.2	NA	NA	750363.33	1150087.01	529.5	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	533.8	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	537	Stainless / Open	X		
BR-07	09/03/97	53.3	53.3	NA	NA	749983.5	1149989.76	532.1	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	750426.9	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	531.9	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	1150052.2	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	750332.8	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	
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	750381.3	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	529.5	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	

Appendix B
Well Construction Information

				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
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	
OB-04	09/05/97	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.91	PVC	X		
OB-05	09/05/97	18.0	18.0	4.0	18.0	750223.51	1149958.83	531.7	PVC	X		
OB-06	07/19/00	17.0	17.0	6.8	16.8	750421.89	1149461.5	532.6	PVC	X		
OB-07	07/19/00	20.5	20.5	10.2	20.2	750461.13	1149512.6	533.03	PVC	X		
OB-08	07/28/00	25.5	25.3	15.3	25.1	750279	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	PVC	X		
TW-04	03/15/96	17.5	17.3	12.3	17.3	750552.18	1149648.54	532.6	PVC			X
TW-07	03/15/96	17.5	17.5	12.5	17.5	750546.69	1149830.01	531.4	PVC	X		
TW-09	03/30/96	16.0	16.0	11.0	16.0	750542.22	1149971.84	530.54	PVC	X		
TW-13	03/12/96	15.0	15.0	10.0	15.0	750086.24	1150016.03	532	PVC	X		
TW-17	03/13/96	15.0	15.0	10.0	15.0	750373.39	1150088.34	529.7	PVC			X
TW-20	03/13/96	15.0	15.0	10.0	15.0	750547.88	1150118.75	530.2	PVC			X
W-2	09/15/82	21.0	18.0	13.0	18.0	749940.43	1149136.77	537	PVC			X
W-4	09/22/82	29.0	26.0	21.0	26.0	749977.63	1149996.42	531.8	PVC			X
W-5	09/15/82	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.9	PVC	X		
W-6	09/15/82	16.5	15.0	13.0	15.0	750288.78	1149332.79	532.58	PVC	X		

APPENDIX C

FIELD SAMPLE RECORDS

Baseline Field Data Forms

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/17/00

SITE ID: BR-01

SITE TYPE: WELL

SITE ACTIVITY: START 1047 END 1135

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] ~~TOP OF WELL RISER~~ RE 11/17/00
- [X] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 15.6 FT	WELL DEPTH	≈38.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 15.65 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	≈ 0.05 FT	DRAWDOWN VOLUME	≈0.03 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X
						LOCKED	YES X
						COLLAR	YES X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.143 L/MIN	1054	1130	≈ 1.2 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
1101	0.8	8.06	0.665	47.9	2.68	12.4	-135	≈145 mV/mA
1107	~~0.9~~ 1.7	7.98	0.705	31.9	2.45	12.4	-137	≈142 mV/mA
1113	2.6	7.93	0.767	33.5	2.29	12.3	-139	≈143 mV/mA
1119	3.3	7.75	0.762	41.9	1.80	12.4	-140	≈143 mV/mA
1125	4.0	7.74	0.770	30.7	0.87	12.3	-142	≈143 mV/mA
1127	Begin Sample							
1130	Stop pumping, ≈ 4.7 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

Well volume (38 - 15.6) X 0.65 = 14.6 gals

1055 DTW ≈ 15.6' BTOR

11.15 Btw ≈ 15.6 BTOR

11,25 Btw 16.65 BTOR

1130 DTW ≈ 15.65' BTOR

SIGNATURE: Jan R Zuidema 11/17/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-02

SITE TYPE: WELL

SITE ACTIVITY: START 1055 END 1150

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈22.67 FT	WELL DEPTH	42.23 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈22.99 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	≈0.32 FT	DRAWDOWN VOLUME	≈ 0.2 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

PURGE RATE: _____ L/MIN

BEGIN PURGING: 1105

END PURGING: _____

TOTAL VOL. PURGED: ≈ 1.0 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
1115	0.8	7.39	1.20	29.7	2.21	12.2	-56	≈95 mL/min
1124	1.6	7.54	1.20	18.2	3.15	12.1	-59	≈90 mL/min
1133	2.4	7.58	1.19	21.1	0.00	12.5	-55	≈90 mL/min
1142	3.2	7.58	1.18	16.0	0.47	12.4	-54	≈90 mL/min
1145	Collect Samples							
1148	Stop pumping, approx. 3.7 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

11/19 DTW 22.85' BTOR
1126 DTW 22.87 BTOR
1134 DTW 22.95' BTOR
1143 DTW 22.92 BTOR
1148 DTW 22.99' BTOR

SIGNATURE: [signature] 11/18/00

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-03

SITE TYPE: WELL

SITE ACTIVITY: START 0945 END 1050

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): ≈2.4 FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈13.8 FT	WELL DEPTH	≈42.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈14.77 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈0.97 FT	DRAWDOWN VOLUME	≈0.6 GAL	PRODUCT THICKNESS	NA FT	CASING	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: ≈0.105 L/MIN

BEGIN PURGING: 0954

END PURGING: 1045

TOTAL VOL. PURGED: ≈0.9 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: Flow rate
1017	0.8	8.90	~~1.22~~ 1.32 mS/cm	32.9	3.92	12.1	-138	≈145 mL/min
1025	1.6	8.62	1.31	31.0	2.50	11.6	-131	≈105 mL/min
1033	2.4	8.47	1.30	27.5	3.52	11.6	-128	≈105 mL/min
1041	≈3.2	8.14	1.28	21.8	1.86	11.6	-125	≈105 mL/min
1043	Collect Sample							
1045	Stop pumping, approx. 3.6 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER _____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER _____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER _____

NOTES

* water has a brown tint.

1018 DTW 14.01 BTOR

1029 DTW 14.37 BTOR

1035 DTW 14.45' BTOR

1042 DTW 14.76 BTOR

1045 DTW 14.77' BTOR



SIGNATURE: 11/18/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: ~~11/20/00~~ 11/20/00 JF 11/20/00

SITE ID: BR-04

SITE TYPE: WELL

SITE ACTIVITY: START 1000 END 1055

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈20.92 FT	WELL DEPTH	≈44.2 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈20.93 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	≈0.01 FT	DRAWDOWN VOLUME	≈0.01 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X
						LOCKED COLLAR	YES X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
_____ L/MIN	1015	1047	≈1.2 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
1023	≈0.8	9.55	1.74	13.6	2.06	14.0	-153	≈170 mL/min
1028	≈1.6	9.32	1.76	15.9	0.00	13.9	-151	≈170 mL/min
1033	≈2.4	9.31	1.76	14.2	0.00	13.9	-151	≈165 mL/min
1038	≈3.2	9.28	1.76	14.5	0.00	13.8	-151	≈165 mL/min
1043	≈4.0							
1045	Collect Sample							
1047	Stop purging, approx 4.7 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

1023 DTW ≈ 20.92' BTOC

1028 DTW ≈ 20.92' BTOC

1033 DTW ≈ 20.93' BTOC

1038 DTW ≈ 20.93' BTOC

1045 DTW ≈ 20.93' BTOC

1047 DTW ≈ 20.93' BTOC

SIGNATURE: [signature] 11/20/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/20/00

SITE ID: BR-05

SITE TYPE: WELL

SITE ACTIVITY: START 1255 END 1340

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER ____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: ____ FT

INITIAL DEPTH TO WATER	≈ 20.70 FT	WELL DEPTH	≈44.4 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 20.74 FT	SCREEN LENGTH	open borehole	PID WELL MOUTH	0.4 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	0.04 FT	DRAWDOWN VOLUME	≈ 0.03 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X, NO X
						LOCKED	NO X
						COLLAR	

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.175 L/MIN	1300	1334	≈ 1.3 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
1310	≈0.8	11.04	0.97	9.1	1.67	13.3	-248	≈175 mL/min
1315	≈1.6	11.08	0.98	8.9	0.00	13.5	-277	≈170 mL/min
1320	≈2.5	10.96	0.98	9.3	0.00	13.5	-289	≈175 mL/min
1325	≈3.4	10.85	0.99	9.7	0.00	13.5	-296	≈175 mL/min
1330	≈4.2	10.86	0.99	9.6	0.00	13.5	-301	≈170 mL/min
1332	Collect sample							
1334	Stop pumping, approx.				4.9 L removed			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (If applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER ____
[ ] OTHER ____	[ ] OTHER ____	[ ] OTHER ____	

NOTES * water has black tint w/ black particulates, RF

1314 DTW ≈ 20.72' BTOC

1316 DTW ≈ 20.72' BTOC

1322 DTW ≈ 20.75' BTOC

1330 DTW ≈ 20.74' BTOC

1334 DTW ≈ 20.74' BTOC

SIGNATURE: [signature] 11/20/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/17/00

SITE ID: BR-06

SITE TYPE: WELL

SITE ACTIVITY: START 1400 END 1515

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	14.1 FT	WELL DEPTH	≈ 45.1 FT	PID AMBIENT AIR	0.0 PPM
FINAL DEPTH TO WATER	15.12 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM
DRAWDOWN	≈ 1.02 FT	DRAWDOWN VOLUME	≈ 0.7 GAL	PRODUCT THICKNESS	NA FT

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

WELL DIAMETER: 4 IN

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

PURGE RATE: x 0.09 L/MIN

BEGIN PURGING: 1424

END PURGING: 1510

TOTAL VOL. PURGED: ≈ 1.0 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
1437	0.8	8.86	0.554	13.6	1.49	11.6	-157	≈ 85 ml/min
1442	1.7	8.43	0.567	13.0	1.59	10.9	-151	≈ 90 ml/min
1452	2.6	8.37	0.574	11.8	0.61	10.7	-157	≈ 90 ml/min
1506	3.4	8.29	0.601	10.9	0.53	10.9	-159	≈ 90 ml/min
1508	Collect sample							
1510	stop pumping, removed ≈ 3.7 L from well							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1437 BTW ≈ 14.56' BTOR

1442 DTW ≈ 14.62' BTOR

1448 DTW ≈ 14.78 BTOR

1457 DTW ≈ 14.94 BTOR

1500 DTW ≈ 15.01' BTOR

1506 DTW ≈ 15.08' BTOR

1510 DTW ≈ 15.12' BTOR

Drawdown occured, sample was collected. RF 11/17/00.

SIGNATURE: [signature] 11/17/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 11/18/00 (11/17/00) RF 11/16/00

PROJECT: Former Taylor Instruments Site Baseline Sampling

SITE ID: BR-07

SITE TYPE: WELL

SITE ACTIVITY: START 0755 END 0845

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): 2.4' (24.25) FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	x 24.57 FT	WELL DEPTH	x54.69 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈24.57 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0.0 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE: ≈ 0.115 L/MIN BEGIN PURGING: 0801 END PURGING: 0842 TOTAL VOL. PURGED: ≈ 1.1 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
0811	0.8	8.86	4.66	13.1	1.66	11.8	-125	≈115 mL/min
0818	1.6	8.72	4.88	6.9	2.34	11.7	-125	≈115 mL/min
0825	2.4	8.68	4.84	5.1	1.07	11.7	-126	≈115 mL/min
0832	3.2	8.62	4.86	3.7	1.10	11.6	-128	≈115 mL/min
0839	4.0	8.56	4.86	1.5	0.00	11.6	-131	≈115 mL/min
0840	Collect Sample							
0842	Stop pumping, approx. 4.3 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

Water has a dark tint.

0813 DTW 24.57 BTOR
0819 DTW 24.54 BTOR
0826 DTW 24.57 BTOR
0833 DTW 24.57 BTOR
0840 DTW 24.57 BTOR
0842 DTW 24.57' BTOR

SIGNATURE: [signature] 11/18/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/14/00

SITE ID: BR-08

SITE TYPE: WELL

SITE ACTIVITY: START 1145 END 1305

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] ~~TOP OF PROTECTIVE CASING~~ [ ] OTHER RF 11/15/00

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	≈21.5 FT	WELL DEPTH	≈73.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈22.99 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	13.9 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈1.5 FT	DRAWDOWN VOLUME	≈1.0 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ≈0.085 L/MIN

BEGIN PURGING: 1157

END PURGING: 1258

TOTAL VOL. PURGED: ≈1.3 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)	Flowrate Comments
1206	≈0.8	12.29	1.49	3.6	0.00	12.2	-223	≈115 mL/min
1215	≈1.6	12.25	1.49	3.6	0.00	12.9	-229	≈95 mL/min
1224	≈2.4	12.18	1.51	3.3	0.00	11.8	-231	≈85 mL/min
1234	≈3.2	12.13	1.49	4.3	0.00	12.8	-235	≈85 mL/min
1244	≈4.0	12.13	1.49	3.7	0.00	12.5	-237	≈85 mL/min
1254	≈4.8	12.13	1.49	3.7	0.00	12.5	-239	≈85 mL/min
1256	Collect sample							
1258	Stop pumping, approx. 5.1 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (If applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1206 DTW ≈ 21.85' BTOR

1207 Lower flow rate, approx 95 mL/min

1213 DTW ≈ 22.05' BTOR

1215 DTW ≈ 22.14' BTOR

1216 Lower flow rate

1224 DTW ≈ 22.37' BTOR

1234 DTW ≈ 22.60' BTOR

1244 DTW ≈ 22.82' BTOR

1254 DTW ≈ 22.95' BTOR

1258 DTW ≈ 22.99' BTOR

SIGNATURE: [signature] 11/14/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-09

SITE TYPE: WELL

SITE ACTIVITY: START 1600 END 1705

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈21.04 FT	WELL DEPTH	≈47 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈21.04 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	137 PPM		
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0.0 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING		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: ≈0.130 L/MIN

BEGIN PURGING: 1614

END PURGING: 1655

TOTAL VOL. PURGED: ≈1.3 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
1621	≈0.8	7.50	1.66	10.1	0.83	11.9	-1	flow rate ≈130 mL/min
1628	≈1.7	7.15	1.71	11.4	0.00	12.0	19	≈130 mL/min
1635	≈2.6	7.06	1.74	10.7	0.00	12.0	30	≈130 mL/min
1642	≈3.5	7.06	1.74	11.4	0.00	12.2	33	≈130 mL/min
1649	≈4.4	7.12	1.75	9.4	0.00	12.2	31	≈130 mL/min
1652	Collect Sample							
1655	Stop pumping, removed approx. 5.2 L.							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

1614 DTW ≈ 21.04' BTOC

1621 DTW ≈ 21.04' BTOC

1629 DTW ≈ 21.04' BTOC

1635 DTW ≈ 21.04' BTOC

1648 DTW ≈ 21.04' BTOC

45°

SIGNATURE: [signature] 11/18/00

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-10

SITE TYPE: WELL

SITE ACTIVITY: START 1345 END 1455

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER: 20.63 FT

WELL DEPTH: ≈47 FT

PID AMBIENT AIR: 0.0 PPM

WELL DIAMETER: 6 IN

FINAL DEPTH TO WATER: 20.63 FT

SCREEN LENGTH: Open boring FT

PID WELL MOUTH: 8.5 PPM

DRAWDOWN: 0.0 FT

DRAWDOWN VOLUME: 0.0 GAL

PRODUCT THICKNESS: NA FT

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X	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: ≈0.090 L/MIN

BEGIN PURGING: 1353

END PURGING: 1448

TOTAL VOL. PURGED: ≈ 1.2 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
1404	≈0.8	8.41	0.688	17.4	4.83	12.0	-150	≈75 mL/min
1415	≈1.6	8.35	0.696	16.0	4.86	12.4	-155	≈75 mL/min
1424	≈2.4	8.26	0.696	18.9	3.62	11.9	-150	≈90 mL/min
1433	≈3.2	8.22	0.697	19.7	3.99	11.8	-152	≈90 mL/min
1442	≈4.0	8.23	0.697	17.2	3.89	12.5	-158	≈90 mL/min
1445	Collect sample							
1448	Stop pumping, ≈ 4.5 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [X] SUBMERSIBLE [ ] OTHER _____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER _____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER _____

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER _____

NOTES

1401 DTW ≈ 20.63' BTOC

1409 DTW ≈ 20.63' BTOC

1419 DTW ≈ 20.63' BTOC

1427 DTW ≈ 20.63' BTOC

1433 DTW ≈ 20.63' BTOC

1448 DTW ≈ 20.63' BTOC

SIGNATURE: _____ 11/18/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-11

SITE TYPE: WELL

SITE ACTIVITY: START 1230 END 1335

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 20.88 FT	WELL DEPTH	≈ 52 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 20.88 FT	SCREEN LENGTH	openboring FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0.0 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.105 L/MIN	1240	1325	≈ 1.2 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
1249	≈ 0.8	8.44	1.53	5.8	1.53	13.0	-114	≈ 130 mL/min
1256	≈ 1.7	8.16	1.53	5.3	1.63	13.3	-112	≈ 130 mL/min
1304	≈ 2.5	8.17	1.54	3.2	0.47	12.7	-112	≈ 105 mL/min
1312	≈ 3.3	7.92	1.54	2.9	1.23	12.5	-111	≈ 105 mL/min
1320	≈ 4.1	7.88	1.54	3.0	0.82	12.8	-114	≈ 105 mL/min
1322	Collect Sample.							
1325	Stop pumping, approx 4.6 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

1243 DTW ≈ 20.88' BTOR

1254 DTW ≈ 20.88' BTOR

1258 DTW ≈ 20.88' BTOR

1304 DTW ≈ 20.88' BTOR

1313 DTW ≈ 20.88' BTOR

SIGNATURE: [signature] 11/18/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/19/00

SITE ID: BR-12

SITE TYPE: WELL

SITE ACTIVITY: START 1425 END 1525

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 15.93 FT	WELL DEPTH	≈ 42.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 16.57 FT	SCREEN LENGTH	open boring	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	≈ 0.64 FT	DRAWDOWN VOLUME	≈ 0.96 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY (RE 11/19/00):

	YES	NO	N/A
CAP	X	X	
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.110 L/MIN	1435		≈ 1.3 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
1444	≈ 0.8	7.98	1.84	15.1	0.90	12.5	-188	≈ 110 ml/min
1452	≈ 1.7	7.94	1.89	15.1	0.86	12.5	-186	≈ 110 ml/min
1500	≈ 2.6	7.91	1.90	14.8	0.00	12.8	-185	≈ 110 ml/min
1508	≈ 3.5	7.88	1.90	14.2	0.00	12.9	-184	≈ 110 ml/min
1515	≈ 4.3							≈ 120 ml/min
1518	Collect Sample							
1520	Stop pumping, approx 4.9 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (If applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

1447 DTW ≈ 16.04' BTOC

1452 DTW ≈ 16.12' BTOC

1500 DTW ≈ 16.20' BTOC

1508 DTW ≈ 16.40' BTOC

1515 DTW ≈ 16.52' BTOC

1520 DTW ≈ 16.57' BTOC

SIGNATURE: [signature] 11/19/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/14/00

SITE ID: BR-13

SITE TYPE: WELL

SITE ACTIVITY: START 0940 END 1035

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 22.22 FT	WELL DEPTH	≈ 67.5 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 22.22 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0.0 GAL	PRODUCT THICKNESS	NA FT	CASING	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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.170 L/MIN	0954	1025	≈ 1.4 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
0958	≈ 0.8	8.42	1.71	6.1	0.27	12.8	-129	≈ 170 ml/min
1003	≈ 1.6	8.28	1.72	3.9	0.00	12.9	-134	≈ 170 ml/min
1008	≈ 2.4	8.08	1.72	3.4	0.00	12.8	-135	≈ 170 ml/min
1013	≈ 3.2	7.95	1.72	3.3	0.00	12.8	-135	≈ 170 ml/min
1018	≈ 4.1	7.95	1.72	3.2	0.00	12.8	-136	≈ 170 ml/min
1020	collect	sample	+ MS/MSD					
1025	stop	pumping,	≈ 5.3 L	removed				

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

0959 DTW ≈ 22.22' BTOC

1003 DTW ≈ 22.23' BTOC

1009 DTW ≈ 22.23' BTOC

1013 DTW ≈ 22.23' BTOC

1025 DTW ≈ 22.22' BTOC

SIGNATURE: [signature] 11/14/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/14/00

SITE ID: BR-14

SITE TYPE: WELL

SITE ACTIVITY: START 1310 END 1417

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] ~~TOP OF PROTECTIVE CASING~~ [ ] OTHER RE 11/14/00

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	≈ 23.0 FT	WELL DEPTH	≈ 75.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 24.25 FT	SCREEN LENGTH	open bore FT	PID WELL MOUTH	1.9 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈ 1.25 FT	DRAWDOWN VOLUME	≈ 0.8 GAL	PRODUCT THICKNESS	NA FT	CASING	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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.110 L/MIN	1330	1413	≈ 1.3 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
1337	≈ 0.8	11.63	2.08	8.8	0.47	11.8	-310	≈ 110 mL/min
1345	≈ 1.7	10.79	2.07	8.9	0.00	11.2	-314	≈ 110 mL/min
1352	≈ 2.6	10.09	2.07	13.4	0.00	11.4	-316	≈ 125 mL/min
1400	≈ 3.5	9.79	2.08	13.7	0.00	11.5	-320	≈ 110 mL/min
1408	≈ 4.4	9.72	2.09	13.9	0.00	11.3	-320	≈ 110 mL/min
1410	Collect Sample							
1413	Stop pumping, approx 5.0L removed.							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES: ≈ water, black tint, sulfur odor.

1332 DTW ≈ 22.88' BTOR

1342 DTW ≈ 23.32' BTOR

1349 DTW ≈ 23.69' BTOR

1352 DTW ≈ 23.74' BTOR

1400 DTW ≈ 23.98' BTOR

1413 DTW ≈ 24.25' BTOR

SIGNATURE: [signature] 11/14/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/14/00

SITE ID: BR-15

SITE TYPE: WELL

SITE ACTIVITY: START 1040 END 1125

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 20.04 FT	WELL DEPTH	≈ 72.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 20.20 FT	SCREEN LENGTH	open bore FT	PID WELL MOUTH	12.4 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	≈ 0.16 FT	DRAWDOWN VOLUME	≈ 0.24 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X
						LOCKED	YES X
						COLLAR	YES X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.165 L/MIN	1047	1120	≈ 1.3 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
1054	≈ 0.8	11.20	1.92	2.6	1.25	13.7	-171	≈165 ml/min
1059	≈ 1.6	11.23	1.96	3.0	0.79	13.6	-174	≈165 ml/min
1104	≈ 2.4	11.41	1.97	1.0	0.00	13.7	-181	≈165 ml/min
1109	≈ 3.2	11.47	1.97	0.9	0.00	14.0	-180	≈165 ml/min
1115	≈ 4.2	11.46	1.97	1.5	0.00	14.0	-180	≈165 ml/min
1117	Collect sample and duplicate @ 1115							
1120	Stop pumping; approx 5.0 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

1055 DTW ≈ 20.09 'BTOC

1059 DTW ≈ 20.11' BTOC

1105 DTW ≈ 20.12' BTOC

1120 DTW ≈ 20.20 'BTOC

Duplicate collected

SIGNATURE: [signature] 11/14/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/19/00

SITE ID: BR-16

SITE TYPE: WELL

SITE ACTIVITY: START 1540 END 1705

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈21.35 FT	WELL DEPTH	≈55.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 22.02 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈0.67 FT	DRAWDOWN VOLUME	≈1.0 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈0.125 L/MIN	1550	1658	≈1.6 GAL

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

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1617	≈0.8	11.98	2.57	>999	0.00	12.4	-308	≈ 180 ml/min
1624	≈1.7	11.87	2.36	>999	0.00	12.0	-304	≈ 125 ml/min
1631	≈2.6	11.82	2.15	21.0	0.00	12.4	-289	≈125 ml/min
1638	≈3.5	11.81	2.15	19.8	0.00	12.5	-287	≈125 ml/min
1645	≈4.4	11.80	2.14	19.1	0.00	12.5	-287	≈125 ml/min
1652	≈5.3	11.71	2.14	18.6	0.00	12.6	-287	≈125 ml/min
1654	Collect Sample							
1658	Stop pumping, approx.				6.0 L removed			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER _____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER _____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER _____

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER _____

NOTES

1610 tubing became clogged with fine sediment in the bottom of the well. Install new tubing.

1617 DTW ≈ 21.80' BTOC, readjusting flow rate.

1624 flow rate ≈ 125 ml/min. DTW ≈ 21.82' BTOC

1635 DTW ≈ 21.88 'BTOC

1638 DTW ≈ 21.91 'BTOC

1645 DTW ≈ 21.92' BTOC

1658 DTW ≈ 22.02' BTOC

SIGNATURE: _____ 11/19/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/18/00

SITE ID: BR-17

SITE TYPE: WELL

SITE ACTIVITY: START 1505 END 1555

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 21.48 FT	WELL DEPTH	≈ 52 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 21.48 FT	SCREEN LENGTH	can't survey FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO _ N/A _
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0.0 GAL	PRODUCT THICKNESS	NA FT	CASING	YES _ NO X N/A _
						LOCKED COLLAR	YES X NO X N/A _

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

PURGE RATE: ≈ 0.125 L/MIN

BEGIN PURGING: 1516

END PURGING: 1552

TOTAL VOL. PURGED: ≈ 4.1 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
1526	≈ 0.8	8.14	0.825	3.3	5.47	13.3	-141	≈125 mL/min
1533	≈ 1.7	7.95	0.840	5.3	1.72	13.1	-138	≈125 mL/min
1540	≈ 2.6	7.83	0.868	5.0	1.03	13.1	-136	≈125 mL/min
1547	≈ 3.5	7.82	0.873	4.8	1.41	13.1	-136	≈125 mL/min
1550	Collect Sample							
1552	Stop pumping, approx. 4.1 L removed							
					PF			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [X] ~~SUBMERSIBLE~~ [ ] OTHER _____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER _____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER _____

NOTES

1526 DTW ≈ 21.48' BTOC

1533 DTW ≈ 21.48' BTOC

1540 DTW ≈ 21.48' BTOC

1552 DTW ≈ 21.48' BTOC

SIGNATURE: _____ 11/18/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/21/00

SITE ID: W-2

SITE TYPE: WELL

SITE ACTIVITY: START 1030 END 1204

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	10.02 FT	WELL DEPTH	20.60 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.9 FT	SCREEN LENGTH	5 ~~10~~ FT RE 1/26/01	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	1.88 FT	DRAWDOWN VOLUME	≈ 0.3 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.175 L/MIN	1135	1203	≈ 1.04 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
1141	≈ 1.0	7.75	0.427	0	9.06	17.9	140	
1146	≈ 1.9	7.77	0.436	1.0	9.08	17.8	140	
1151	≈ 2.6	7.82	0.471	1.8	9.90	17.7	139	flow rate = 150 ml/min
1158	≈ 3.7	7.93	0.447	0.4	9.05	17.5	134	flow rate = 150 ml/min
1201	Collect sample							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

1038 DTW ≈ 12.2' BTOR

1141 DTW ≈ 11.9' BTOR

1146 DTW ≈

NOTES

TD = 20.6'

20.6 - 10.02 = 10.58 (WC)

10.58 X 0.16 ≈ 1.7 = 1 well volume

SIGNATURE: [signature] 10/21/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/17/00

SITE ID: W-4

SITE TYPE: WELL

SITE ACTIVITY: START 0910 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	10.64 FT	WELL DEPTH	28.66 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	— FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	— FT	DRAWDOWN VOLUME	— GAL	PRODUCT THICKNESS	NA FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

((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: 0925

END PURGING: —

TOTAL VOL. PURGED: 4.2 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
0934	0.8	8.54	0.979	2.2	5.02	14.6	-119	≈ 130 mL/min
0942	1.6	8.49	0.988	3.6	4.18	14.3	-111	≈ 100 mL/min
Draw down occurring - purge well dry - come back and sample								
approx. 4 gallons removed from well								
1532	W-4	DTW = 11.18						
1534	0.8	7.44	0.848	5.2	2.50	13.2	-111	
1536	Sample collected							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER

NOTES

0932 DTW ≈ 11.62' BTOR

0941 DTW ≈ 12.78' BTOR

1532 DTW ≈ 11.18' BTOR

MS/MSD Collected

well volume

28.66 - 10.64 = 18.02'

18.02 X 0.16 = 2.9 gals.

SIGNATURE: 11/17/00

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/16/00

SITE ID: W-5

SITE TYPE: WELL

SITE ACTIVITY: START 1110 END 1203

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: 4.5 FT

INITIAL DEPTH TO WATER	9.18 FT	WELL DEPTH	21.65 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.30 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	6.6 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	2.12 FT	DRAWDOWN VOLUME	≈0.3 GAL	PRODUCT THICKNESS	NA FT	CASING	YES — NO — N/A X
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ≈0.110 L/MIN

BEGIN PURGING: 1116

END PURGING: 1202

TOTAL VOL. PURGED: ≈1.2 GAL

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

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:22	≈0.8	8.49	1.96	0.5	0.08	10.3	-256	124 mL/min
11:31	≈1.7	8.39	2.18	0.3	0.00	10.6	-265	100 mL/min
11:39	≈2.5	8.20	2.17	0.9	0.00	11.3	-275	700 mL/min
11:48	≈3.3	8.11	2.15	0.9	0.00	11.8	-281	110 mL/min
11:57	≈4.1	8.04	2.15	-0.1	0.00	12.8	-282	≈85 mL/min
12:00	Collect Sample							
1202	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

NOTES

1118 DTW ≈ 9.6' BTOR
1125 DTW ≈ 10.4' BTOR
1131 DTW ≈ 10.78' BTOR
1133 DTW ≈ 10.86' BTOR
1140 DTW ≈ 11.3' BTOR
1145 DTW ≈ 11.35 BTOR
1151 flow rate ≈ 85 mL/min
DTW ≈ 11.36' BTOR
1157 DTW ≈ 11.32 BTOR

Well volume = 21.65 - 9.18 = 12.47
12.47 x 0.16 ≈ 2.0 gallons
= 1 well volume

* Water has dark tint, sulfur odor.

1202 DTW ≈ 11.30' BTOR

SIGNATURE: [signature] 11/16/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/23/00

SITE ID: W-6

SITE TYPE: WELL

SITE ACTIVITY: START 1640 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): ≈1.02 FT

PROTECTIVE CASING / WELL DIFFERENCE: ≈0.1 FT

NITIAL DEPTH TO WATER: 6.56 FT

WELL DEPTH: 14.92 FT

PID AMBIENT AIR: 0.0 PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: — FT

SCREEN LENGTH: 5/10 FT RF 11/26/01

PID WELL MOUTH: 0.0 PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

DRAWDOWN: — FT

DRAWDOWN VOLUME: — GAL

PRODUCT THICKNESS: NA FT

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

PURGE RATE: ≈0.170 L/MIN

BEGIN PURGING: 1656

END PURGING: 1722

TOTAL VOL. PURGED: — 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
1705	≈1.3	9.12	0.368	2.5	2.03	17.2	-77	170 ml/min
	lowering flow rate - adjusting							
1711	≈2.0	9.16	0.368	4.0	1.67	17.2	-64	114 ml/min ~~80~~
	lowering flow rate - adjusting							
1720	≈2.7	9.41	0.381	3.4	1.40	17.0	-72	80 ml/min.
	flow adjusted to 80 ml/min (as low as possible) - purge well dry - let recharge sample 10/24/00 RF.							
10/24/00								
1714	DTW= 6.36' BTOR							
1718		9.55	0.389	4.8	1.03	17.6	-100	
1722	Collect sample							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

water slightly murky.

SIGNATURE: [signature] 10/24/00

NOTES

1656 Begin filling in-line U-22 and calculating flow rate.

1705 DTW = 9.09' BTOR flow rate ≈ 170 ml/min

1707 DTW = 9.34' BTOR

1710 DTW = 9.79' BTOR flow rate ≈ 114 ml/min

1713 Drawdown still occurring - lowering flow rate.

1719 flow rate ≈ 80 ml/min, DTW = 10.58' BTOR

1722 Stop purging at low flow and purge dry - let recharge sample 10/24/00.

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/23/00

SITE ID: TW-02

SITE TYPE: WELL

SITE ACTIVITY: START 1525 END 1630

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING ☐ OTHER

INITIAL DEPTH TO WATER	10.85 ~~10.07~~ FT	WELL DEPTH	18.31 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	flush FT
FINAL DEPTH TO WATER	——— FT	SCREEN LENGTH	5 ~~10~~ FT RF 1/26/00	PID AMBIENT AIR	0.0 PPM
DRAWDOWN	——— FT	DRAWDOWN VOLUME	——— GAL	PID WELL MOUTH	0.0 PPM
				PRODUCT THICKNESS	NA FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

WELL DIAMETER: 2 IN

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	~~X~~	—	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: 20/100 L/MIN x 65 ml/min

BEGIN PURGING: 1545

END PURGING: 1617

TOTAL VOL. PURGED: ——— 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
1606	≈ 1.3	7.43	0.533	110	7.95	17.2	-202	
1615	≈ 1.9	7.44	0.533	150	7.72	17.1	-202	flow rate ≈ 65 ml/min
	well historically encounters drawdown, purge dry and							
	sample 10/24/00. RF 10/23/00.							
10/24/00 1648	return to collect sample							
1651	DTW = ~~12.65~~ 11.49' BTOR							
1703		7.62	0.640	150	7.03	16.0	-88	
1704	collect sample							

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

water has a sulfur odor

SIGNATURE: [signature] 10/24/00

NOTES

18.31 - 10.85 = 7.46'

WC = 7.46

7.46 x 0.16 = 1.2 gal = 1 well volume.

1605 DTW = 12.65' BTOR, flow rate ≈ 100 ml/min still filling up U-22 and 1 liter amber

1608 DTW = 12.88' BTOR

1611 DTW = 13.00' BTOR

1614 DTW = 13.26' BTOR

1617 DTW = 13.38' BTOR

1630 well purged dry

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/24/00

SITE ID: TW-04

SITE TYPE: WELL

SITE ACTIVITY: START 1100 END 1202

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): 2.6 FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.2 FT

NITIAL DEPTH TO WATER: 12.86 FT

WELL DEPTH: 20.66 FT

PID AMBIENT AIR: 0.0 PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: 14.40 FT

SCREEN LENGTH: 5.10 FT

PID WELL MOUTH: 0.0 PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

DRAWDOWN: 1.54 FT

DRAWDOWN VOLUME: 0.24 GAL

PRODUCT THICKNESS: NA FT

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

PURGE RATE: ≈ 0.140 L/MIN

BEGIN PURGING: 1125

END PURGING: 1200

TOTAL VOL. PURGED: ≈1.04 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
1134	≈0.8	7.45	1.21	3.0	0.56	15.3	-305	flow rate ≈ 140 ml/min
1143	≈2.0	7.41	1.20	1.2	0.31	15.4	-315	
1151	≈3.0	7.34	1.16	1.1	0.36	15.4	-312	flow rate ≈ 125 ml/min
1157	≈4.0	7.28	1.03	1.0	0.34	15.5	-313	flow rate ≈ 165 ml/min
1158	Collect	sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

PURGE OBSERVATIONS

Sulfur odor, water clear

SIGNATURE: J R Fields Jr 10/24/00

NOTES

1134 approx 800 ml removed, DTW = 13.65' pump operating as slow as possible

1139 DTW = 13.82' BTOR

1145 DTW = 13.94' BTOR

1147 flow rate ≈ 125 ml/min

1149 DTW = 13.97' BTOR

1153 DTW = 14.12' BTOR

1158 DTW = 14.35' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/25/00

SITE ID: TW-07

SITE TYPE: WELL

SITE ACTIVITY: START 0905 END 1035

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.17 FT

INITIAL DEPTH TO WATER	≈ 11.12 FT	WELL DEPTH	18.12 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈ 12.05 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈ 0.93 FT	DRAWDOWN VOLUME	≈ 0.15 GAL	PRODUCT THICKNESS	NA FT	CASING LOCKED	YES — NO — N/A X
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ~~≈0.105~~ ~~0.105~~ L/MIN RF 10/25/00

BEGIN PURGING: 0946

END PURGING: 1028

TOTAL VOL. PURGED: ≈ 3.92 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~~ Flow rate
1003	≈ 0.8	7.08	2.33	4.5	2.27	15.5	94	≈ 105 ml/min
1011	≈ 1.6	7.09	2.21	3.9	1.52	15.6	92	≈ 110 ml/min
1019	≈ 2.5	7.09	2.19	3.1	1.29	15.6	92	≈ 110 ml/min.
1026	≈ 3.3	7.08	2.20	3.3	1.13	15.7	91	≈ 110 ml/min.
1028	Collect	Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

PURGE OBSERVATIONS

SIGNATURE: [signature] 10/25/00

NOTES

WC = 7'

Well volume = 7 x 0.16 =

0948 DTW = 11.15' BTOR

0956 DTW = 11.25' BTOR, still filling 4-22

1001 DTW = 11.32' BTOR

1006 DTW = 11.55' BTOR

1012 DTW = 11.68' BTOR

1017 DTW = 11.84' BTOR, flow rate = 110 ml/min.

1023 DTW = 11.96' BTOR, flow rate = 110 ml/min.

1028 DTW = 12.05' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/24/00

SITE ID: TW-09

SITE TYPE: WELL

SITE ACTIVITY: START 1535 END 1640

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.4 FT

INITIAL DEPTH TO WATER	11.23 FT	WELL DEPTH	17.53 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.52 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	1.0 PPM		
DRAWDOWN	≈ 0.29 FT	DRAWDOWN VOLUME	≈0.05 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED COLLAR	X		
		X	

PURGE RATE: ≈0.125 L/MIN

BEGIN PURGING: 1554

END PURGING: 1638

TOTAL VOL. PURGED: ≈4 GAL (≈1.2)

(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)	Flow rate ~~Comments~~
1607	≈ 0.8	6.96	1.93	3.5	1.69	16.5	-123	≈125 ml/min
1614	≈ 1.6	6.97	1.88	1.7	1.04	16.5	-140	≈125 ml/min
1621	≈ 2.5	6.97	1.83	0.7	0.84	16.5	-142	≈125 ml/min
1628	≈ 3.4	6.96	1.81	0.6	0.95	16.5	-138	≈125 ml/min
1635	≈ 4.3	6.95	1.79	0.5	0.81	16.5	-137	≈125 ml/min
1637	Collect sample							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [ ] OTHER _____

PURGE OBSERVATIONS

NOTES: 1 well volume ≈ 1 gallon

pump is set at lowest rotation rate

1559 water just reaching U-22

1600 DTW = 11.29' BTOR

1606 U-22 full est. flow rate ≈ 125 ml/min

1609 DTW = 11.36' BTOR

1610 flow rate ≈ 125 ml/min

1617 DTW = 11.39' BTOR

1622 DTW = 11.49' BTOR

1630 DTW = 11.51' BTOR

1638 DTW = 11.52' BTER

SIGNATURE: _____ 10/24/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/16/00

SITE ID: TW-13

SITE TYPE: WELL

SITE ACTIVITY: START 0835 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: - FT

INITIAL DEPTH TO WATER	6.3 FT	WELL DEPTH	16.1 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.25 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.95 FT	DRAWDOWN VOLUME	≈ 0.15 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE: ≈ 0.100 L/MIN

BEGIN PURGING: 0848

END PURGING: 0937

TOTAL VOL. PURGED: ≈ 1.2 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
0856	≈ 0.8	6.85	1.03	3.1	6.63	13.1	138	flow rate ≈ 170 ml/min
0900	≈ 1.8	7.13	1.01	26.0	6.91	13.1	102	≈ 85 ml/min
0916	≈ 2.5	7.23	1.01	20.9	7.82	13.1	90	≈ 90 ml/min
0924	≈ 3.3	7.17	1.01	19.2	8.84	13.1	74	≈ 100 ml/min
0932	≈ 4.1	7.10	1.01	18.2	7.58	13.4	62	≈ 100 ml/min
0935	Collect Sample							
0937	Stop purging		≈ 4.6	& removed				

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [ ] OTHER

NOTES

0849 DTW ≈ 6.75' BTOR

0858 DTW ≈ 7.19' BTOR

0901 DTW ≈ 7.30' BTOR

0909 DTW ≈ 7.18' BTOR

0915 DTW ≈ 7.20' BTOR

0923 DTW ≈ 7.21' BTOR

0927 DTW ≈ 7.21' BTOR

0932 DTW ≈ 7.23' BTOR

0937 DTW ≈ 7.25' BTOR

SIGNATURE: 11/16/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/17/00

SITE ID: TW-17

SITE TYPE: WELL

SITE ACTIVITY: START 1000 END 1045

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 11.1 FT	WELL DEPTH	≈ 17.34 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈ 11.32 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.2 PPM		
DRAWDOWN	≈ 0.22 FT	DRAWDOWN VOLUME	≈ 0.03 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈ 0.120 L/MIN

BEGIN PURGING: 1005

END PURGING: 1039

TOTAL VOL. PURGED: ≈ 1.0 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~~ Flow rate
1014	≈ 0.8	7.69	0.799	0.3	5.17	13.3	-42	≈ 120 mL/min
1021	≈ 1.6	7.60	0.821	0.4	4.29	13.2	-33	≈ 120 mL/min
1028	≈ 2.4	7.48	0.813	0.0	2.84	13.2	-34	≈ 120 mL/min
1035	≈ 3.2	7.45	0.826	0.0	3.15	13.4	-29	≈ 120 mL/min
1037	Collect Sample							
1039	Stop pumping, ≈ 3.7 L removed from well							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

Well Volume = 17.34 - 11.1 = 6.24

6.24 x 0.16 = 1.0 gallon

1014 DTW ≈ 11.22' BTOR

1021 DTW ≈ 11.26' BTOR

1026 DTW ≈ 11.29' BTOR

1034 DTW ≈ 11.31' BTOR

1037 Collect sample

1039 DTW ≈ 11.32' BTOR

SIGNATURE: [signature] 11/17/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/25/00

SITE ID: TW-2Ø

SITE TYPE: WELL

SITE ACTIVITY: START 1100 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): ≈2.3 FT

PROTECTIVE CASING / WELL DIFFERENCE: ≈0.26 FT

INITIAL DEPTH TO WATER: ≈ 13.11 FT

WELL DEPTH: ≈17.35 FT

PID AMBIENT AIR: 0.0 PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: ≈ 13.35 FT

SCREEN LENGTH: 5 10 FT (RF 1/26/01)

PID WELL MOUTH: 0.0 PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

DRAWDOWN: ≈ 0.24 FT

DRAWDOWN VOLUME: ≈0.04 GAL

PRODUCT THICKNESS: NA FT

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

PURGE RATE: ≈ 0.100 L/MIN

BEGIN PURGING: 1118

END PURGING: 1217

TOTAL VOL. PURGED: ≈ 1.1 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)	Flow rate ~~Comments~~
1143	≈ 0.8	7.26	0.731	1.7	1.9	15.6	-217	≈ 100 ml/min
1152	≈ ~~0.9~~ 1.7	7.24	0.704	1.3	0.65	15.5	-211	≈ 100 ml/min
1200	≈ 2.5	7.21	0.684	2.0	0.90	15.3	-186	≈ 100 ml/min
1208	≈ 3.3	7.20	0.682	1.6	0.94	15.6	-182	≈ 100 ml/min
1216	≈ 4.1	7.20	0.679	1.7	0.93	15.6	-184	≈ 100 ml/min
1217	collect	sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

water-clear
small black flakes
WC = 4.24
well volume = 4.24 X 0.16 = 0.7 gallon

SIGNATURE: [signature] 10/25/00

NOTES

1127 DTW = 13.12' BTOR
1133 water reaching M-22, DTW = 13.19' BTOR
1142 flow rate ≈ 95 ml/min
1143 DTW = 13.24' BTOR
1148 DTW = 13.25' BTOR
1155 DTW = 13.28' BTOR
1159 flow rate ≈ 100 ml/min.
1200 DTW = 13.30' BTOR
1208 DTW = 13.32' BTOR
1216 DTW = 13.35' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11-10-00

SITE ID: EW-N-01

SITE TYPE: WELL

SITE ACTIVITY: START 1040 END 1140

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	~~2.45~~ 10.44 FT	WELL DEPTH	23.7 FT	PID AMBIENT AIR	-0- PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	11.7 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	— PPM	WELL INTEGRITY: CAP	YES: X NO: — N/A: —
DRAWDOWN	1.26 FT	DRAWDOWN VOLUME	0.8 GAL	PRODUCT THICKNESS	NA FT	CASING	— — X
						LOCKED	— — X
						COLLAR	— — X
						VAULT	X

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

PURGE RATE: 0.15 GAL/MIN

BEGIN PURGING: 1048

END PURGING: 1137

TOTAL VOL. PURGED: 1.5 GAL

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

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:00	0.8	7.0	0.892	1.2	3.33	15.7	88	≈ 180 ml/min
11:11	1.8	7.1	0.897	0.8	2.24	15.7	57	≈ 160 ml/min
11:16	2.35	7.1	0.899	0.6	3.16	15.6	46	≈ 160 ml/min
11:28	4.4	7.3	0.896	1.0	3.29	15.6	65	≈ 150 ml/min
11:33	5.2	7.1	0.898	1.0	2.37	15.6	56	≈ 150 ml/min
11:35	Samples							
11:37	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

10:57 Dtw = 10.54
11:10 Dtw ≈ 10.92
11:16 Dtw ≈ 11.09
11:25 Dtw ≈ 11.4
11:33 Dtw ≈ 11.6
11:37 Dtw ≈ 11.7

Collected MS/MSD Samples. EW-N-1 (MS) / EW-N-1 (MD)

SIGNATURE: [signature] 11-10-00

14. - 10.44 = 3.56

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/10/00

SITE ID: EW-N-2

SITE TYPE: WELL

SITE ACTIVITY: START 1345 END 1453

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ~~FT~~

INITIAL DEPTH TO WATER	6.35 FT	WELL DEPTH	23.9 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	7.03 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	> 1200 PPM		
DRAWDOWN	≈ 0.68 FT	DRAWDOWN VOLUME	≈ 0.4 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X

Vault X

PURGE RATE	≈ 0.110 L/MIN	BEGIN PURGING	1359	END PURGING	1445

TOTAL VOL. PURGED: ≈ 1.4 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)	Flow rate Comments
1405	≈ 0.8	6.98	1.42	2.1	2.12	14.8	53	≈ 140 mL/min
1412	≈ 1.7	7.01	1.44	2.9	1.74	14.9	35	≈ 125 mL/min
1426	≈ 3.13	7.01	1.44	2.0	1.72	14.9	30	≈ 110 mL/min
1433	≈ 4.01	7.01	1.44	2.0	0.35	14.9	28	≈ 110 mL/min
1441	≈ 4.9	7.01	1.44	1.4	1.54	14.8	26	≈ 110 mL/min
1443	Start Sample							
1445	purging Stopped							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [ ] OTHER _____

NOTES

1410 DTW ≈ 6.7' BTOR
1411 DTW ≈ 6.7' BTOR
1429 DTW ≈ 6.9 BTOR
1445 DTW ≈ 7.03 BTOR

SIGNATURE: _____ 11/10/00

Δ = 9.6 - 6.35 = 3.25'

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/10/00

SITE ID: EW-N-3

SITE TYPE: WELL

SITE ACTIVITY: START 1455 END 1550

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

INITIAL DEPTH TO WATER	≈ 7.1 FT	WELL DEPTH	≈23.45 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 7.43 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	760 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	≈ 0.33 FT	DRAWDOWN VOLUME	≈ 0.2 GAL	PRODUCT THICKNESS	NA FT	CASING	NO —
						LOCKED	N/A X
						COLLAR	—
						Vault	X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.100 L/MIN	1504	1545	≈ 1.1 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
1511	≈ 0.8	7.29	1.49	23.0	1.82	14.9	-13	≈ 130 ml/min
1518	≈ 1.6	7.05	1.50	24.7	1.33	14.9	-12	≈ 120 ml/min
1525	≈ 2.4	7.05	1.50	18.6	1.20	14.6	-14	≈ 120 ml/min
1533	≈ 3.2	7.03	1.50	17.3	1.47	14.6	-13	≈ 100 ml/min
1541	≈ 4.0	7.04	1.50	16.8	1.22	14.6	-15	≈ 100 ml/min
1543	Collect Sample							
1545	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1511 DTW ≈ ~~10.65~~ 7.1' BTOR 11/10/00

1519 DTW ≈ 7.22' BTOR

1528 flow rate ≈ 100 ml/min

1533 DTW ≈ 7.41' BTOR

1545 DTW ≈ 7.43' BTOR

SIGNATURE: 11/10/00

D = 10.65 - 7.1 = 3.55'

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11-11-00

SITE ID: EW-N-4

SITE TYPE: WELL

SITE ACTIVITY: START 0815 END 0915

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ~~_____~~ FT

INITIAL DEPTH TO WATER	≈ 7.4 FT	WELL DEPTH	≈228 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 7.8 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	19.2 PPM		
DRAWDOWN	≈ 0.4 FT	DRAWDOWN VOLUME	≈0.3 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X

Vault X

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.125 L/MIN	0840	0910	≈0.9 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
8:47	≈0.8	7.31	1.45	-3.6	2.22	13.1	5	≈130 mV/min
8:53	≈1.32	7.02	1.47	-4.1	2.24	13.3	11	≈150 mV/min
8:59	≈2.2	6.97	1.47	-4.1	2.26	13.4	12	≈150 mV/min
0906	≈3.1	7.01	1.47	-3.9	2.61	14.0	10	≈125 mV/min
0908	Collecting Sample							
0910	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH-DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

NOTES

0900 DTW ≈ 7.6 BTOR

0908 DTW ≈ 7.75 ' BTOR

0910 DTW ≈ 7.8 ' BTOR

SIGNATURE: [signature]

D = 10.8 - 7.4 ≈ 3.4' BTO

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/11/00

SITE ID: EW-N-5

SITE TYPE: WELL

SITE ACTIVITY: START 0920 END 1015

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	6.1 FT	WELL DEPTH	23.4 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	6.32 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	≈ 0.22 FT	DRAWDOWN VOLUME	≈ 0.143 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X
Vault	X		

PURGE RATE: ≈ 0.110 L/MIN

BEGIN PURGING: 0927

END PURGING: 1007

TOTAL VOL. PURGED: ≈ 1 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
0938	0.8	7.57	1.90	0.9	1.26 ~~1.11~~	14.1	80	
0946	1.6	7.15	1.94	0.7	1.49	13.4	80	≈ 105 mV/min
0954	2.4	7.20	1.94	0.7	1.58	13.7	80	≈ 105 mV/min
1002	3.3	7.23	1.94	1.3	1.58	13.5	79	≈ 110 mV/min
1005	Start Sampling							
1007	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES

DTW ~ 6.1 BTOR

0956 DTW ≈ 6.22 BTOR

1004 DTW ≈ 6.28' BTOR

1007 DTW ≈ 6.32' BTOR

SIGNATURE: [signature] 5/21/01

Δ = 9.8 - 6.1 = 3.7'

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/1/00

SITE ID: EW-N-6

SITE TYPE: WELL

SITE ACTIVITY: START 1055 END

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

INITIAL DEPTH TO WATER	7.8 FT	WELL DEPTH	21.5 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	8.2 FT	SCREEN LENGTH	20 FT	PID WELL MOUTH	10.2 PPM		
DRAWDOWN	0.26 FT	DRAWDOWN VOLUME	×0.2 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	—	—	X
LOCKED	—	—	X
COLLAR	—	—	X
Vault	X		

PURGE RATE: ≈ 0.120 L/MIN

BEGIN PURGING: 1112

END PURGING: 1143

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)	Flow rate Comments
1123	0.8	7.06	1.51	-36	1.19	14.2	106	≈120 mL/min
1130	1.6	7.02	1.53	-33	1.17	14.2	105	≈120 mL/min
1137	2.4	7.04	1.53	-32	0.23	14.2	102	≈120 mL/min
1140	Collect Samples							
1143	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

NOTES

1125 DTW ≈ 8' BTOR

11:30 DTW ≈ 8.04 BTOR

11:36 DTW ≈ 8.14 BTOR

1143 DTW ≈ 8.2' BTOR

SIGNATURE: [illegible] - 11-11-00

Δ = 11.0 - 7.8 = 3.2'

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11-10-00

SITE ID: EW-5-10

SITE TYPE: WELL

SITE ACTIVITY: START 0927 END 1005

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER: 3.2 FT

WELL DEPTH: 15.24 FT

PID AMBIENT AIR: — PPM

WELL DIAMETER: 4 IN

FINAL DEPTH TO WATER: 4.15 FT

SCREEN LENGTH: 15 FT

PID WELL MOUTH: 0 PPM

DRAWDOWN: 1.12 0.95 FT

DRAWDOWN VOLUME: 0.3 GAL

PRODUCT THICKNESS: NA FT

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

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

PURGE RATE: 0.130 L/MIN

BEGIN PURGING: 0930

END PURGING: 1002

TOTAL VOL. PURGED: 1.5 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
0936	0.8	7.11	1.04	2.2	5.0	14.8	+63	≈130 ml/min
0943	1.7	7.05	1.04	3.4	3.10	14.9	160	≈130 ml/min
0950	2.6	7.04	1.05	0.3	2.73	14.8	159	≈130 ml/min
0957	3.5	7.06	1.05	0.7	2.67	14.9	158	≈130 ml/min
1000	Sample							
1002	Stop Purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

NOTES
0940 BTW = 3.8
0947 BTW = 3.95
1002 BTW = 4.15

SIGNATURE: [signature] 11-10-00

@ 4.15 - 3.7 = 2.45

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11-10-00

SITE ID: EW-S-15

SITE TYPE: WELL

SITE ACTIVITY: START 0810 END 0840

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): VAULT FT

PROTECTIVE CASING / WELL DIFFERENCE: ~ FT

INITIAL DEPTH TO WATER	0.4 FT	WELL DEPTH	8.22 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	0.4 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	00.0 PPM		
DRAWDOWN	0 FT	DRAWDOWN VOLUME	0 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X
VAULT	X		

PURGE RATE: 0.150 L/MIN

BEGIN PURGING: 0815

END PURGING: 0837

TOTAL VOL. PURGED: ≈ 1.0 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
~~0818~~	1.3	9.0	0.99	16.4	9.09	13.9	12.3	≈ 160 mL/min
0825	2.2	9.09	0.99	15.6	9.08	13.9	11.5	≈ 150 mL/min
0831	3.1	9.12	1.0	16.1	9.07	13.9	11.2	≈ 150 mL/min
0835	Collect Samples							
0837	Stop Purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

NOTES 0837 DTW = 0.4' BTOR

0825 DTW ≈ 0.4' BTOR

Collected Duplicate sample. (EW-S-15 (DUP).

SIGNATURE: [signature] 11-10-00

~~4~~ 3.9

D = 3.9

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/8/00

SITE ID: EW-S-2

SITE TYPE: WELL

SITE ACTIVITY: START 1015 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Unk ft

PROTECTIVE CASING / WELL DIFFERENCE: — ft

NITIAL DEPTH TO WATER	≈ 0.83 FT	WELL DEPTH	≈18.03 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 1.43 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	1.0 PPM	WELL INTEGRITY: CAP	YES X, NO —, N/A —
DRAWDOWN	≈ 0.6 FT	DRAWDOWN VOLUME	≈ 0.39 GAL	PRODUCT THICKNESS	NA FT	CASING	YES —, NO —, N/A X
						LOCKED	YES —, NO —, N/A X
						COLLAR	YES Unk, NO X, N/A —

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

PURGE RATE: ≈ 0.125 L/MIN

BEGIN PURGING: 1104

END PURGING: 1141

TOTAL VOL. PURGED: ≈ 1.2 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: Flow rate
1111	≈0.8	9.54	0.781	235	0.24	15.9	-25	≈ 170 ml/min
1118	≈1.8	8.00	0.786	87.5	0.00	16.0	47	≈ 140 ml/min
1125	≈2.8	8.01	0.782	66.2	0.00	16.3	63	≈ 190 ml/min
1131	≈3.5	7.92	0.798	56.5	0.00	16.4	64	≈ 120 ml/min
1138	≈4.4	8.11	0.793	56.3	0.00	16.4	66	≈ 125 ml/min
1139	Collect sample							
1141	Stop ~~pump~~ purging DTW ≈ 1.43' BTOR							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE: [signature] 11/8/00

NOTES

18.03 - 0.83 = 17.2 x 0.65 = 11.2 gals

11.2 gals ≈ 1 well volume

1111 flow rate ≈ 170 ml/min, DTW ≈ 1.13' BTOR

1114 flow rate ≈ 140 ml/min - flow as low as possible.
DTW ≈ 1.25' BTOR

1119 flow rate ≈ 140 ml/min, DTW = 1.36' BTOR

1124 flow rate ≈ 190 ml/min, lowering back down to ≈ 140 ml/min

1127 DTW = 1.43' BTOR

1129 flow rate ≈ 120 ml/min

1135 flow rate ≈ 125 ml/min, DTW ≈ 1.43' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/27/00

SITE ID: EW-S-3

SITE TYPE: WELL

SITE ACTIVITY: START 0905 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈2.21 FT	WELL DEPTH	≈17.6 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈2.85 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	≈650 PPM		
DRAWDOWN	0.64 FT	DRAWDOWN VOLUME	≈0.42 GAL	PRODUCT THICKNESS	NA FT		

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

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈0.140 L/MIN	0925	1007	≈1.03 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)	Flow rate ~~Comments~~
0944	≈0.8	8.03	0.493	13.7	0.51	16.6	88	flow rate ≈ 100 mL/min
0950	≈1.6	8.17	0.492	11.6	0.07	16.6	82	≈140 mL/min
0956	≈2.4	8.21	0.491	11.8	0.00	16.6	80	≈140 mL/min
1003	≈3.4	8.20	0.492	12.5	0.00	16.6	81	≈140 mL/min
1005	Collect	Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: [signature] 10/27/00

NOTES

Well smelled like pvc glue, could contribute to PID reading.

0925 DTW ≈ 2.21' BTOR
0936 H_2O filling U-22
0937 DTW ≈ ~~2.27~~ 2.25' BTOR
0940 DTW ≈ 2.39' BTOR
0944 flow rate ≈ 100 mL/min
0948 DTW = 2.52' BTOR
0951 DTW = 2.59' BTOR
0956 DTW = 2.63' BTOR
1007 DTW = 2.85' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/26/00

SITE ID: EW-S-4

SITE TYPE: WELL

SITE ACTIVITY: START END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): VAULT FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

INITIAL DEPTH TO WATER	3.05' FT	WELL DEPTH	18.88 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	3.57 FT	SCREEN LENGTH	~~15~~ 15 FT PF 10/26/00	PID WELL MOUTH	880 PPM		
DRAWDOWN	≈0.52 FT	DRAWDOWN VOLUME	≈0.34 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			
LOCKED			
COLLAR			
Vault	X		

PURGE RATE: ≈0.160 L/MIN

BEGIN PURGING: 1549

END PURGING: 1624

TOTAL VOL. PURGED: ≈1.2 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)	Flow rate Comments
1602	≈1.05	6.60	0.938	0.0	0.00	17.5	-104	≈140 ml/min
1607	≈1.85	6.65	0.931	0.0	0.00	17.5	-113	≈160 ml/min
1612	≈2.65	6.82	0.923	0.0	0.00	17.6	-124	≈160 ml/min
1617	≈3.45	6.88	0.921	0.0	0.00	17.6	-126	≈160 ml/min
1619	Collect	Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: [signature] 5/21/01

NOTES

WC = 15.83

Well volume = 15.83 x 0.65 = 10.3 gals.

1559 DTW = 3.27'

flow rate ≈ 165 ml/min

1603 DTW = ~~3.44' BTOR~~ 3.34 'BTOR

1606 flow rate ≈160 ml/min. PF 10/26/00

1608 DTW = 3.43' BTOR

1613 DTW = 3.53' BTOR

1617 DTW = 3.61' BTOR

1624 DTW = 3.57 'BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/27/00

SITE ID: EW-5-5

SITE TYPE: WELL

SITE ACTIVITY: START 1045 END 1148

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 1.70 FT	WELL DEPTH	≈ 19.27 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 2.92 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	324 PPM		
DRAWDOWN	1.22 FT	DRAWDOWN VOLUME	≈ 0.79 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			
LOCKED			
COLLAR			
Vault	X		

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.140 L/MIN	1059	1137	≈ 1.2 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)	Flow rate Comments
1108	≈ 0.8	6.66	2.00	4.5	9.59	16.7	-96	≈ 140 ml/min
1112	≈ 1.6	6.58	2.02	7.5	7.39	16.6	-88	≈ 120 ml/min
1120	≈ 2.6	6.73	2.01	3.9	5.74	16.6	-87	≈ 120 ml/min
1127	≈ 3.4	6.78	1.99	3.1	4.92	16.7	-80	≈ 120 ml/min
1134	≈ 4.24	6.93	1.97	3.2	4.71	16.7	-79	≈ 120 ml/min
1136	collect	sample						
1137	stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: 10/27/00

NOTES

1105 DTW = 1.90' BTOR
1107 DTW = 2.05' BTOR
1112 DTW = 2.30' BTOR
1113 Lower flow rate
1119 flow rate ≈ 120 ml/min - low as pump will allow.
1120 DTW = 2.61' BTOR
1125 DTW = 2.73' BTOR
1127 flow rate ≈ 120 ml/min
1133 DTW = 2.87' BTOR
1137 DTW = 2.92' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/27/00

SITE ID: EW-S-6

SITE TYPE: WELL

SITE ACTIVITY: START 1158 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

NITIAL DEPTH TO WATER	≈ 2.15 FT	WELL DEPTH	18.94 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 3.15 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	≈610 PPM	WELL INTEGRITY: CAP	YES X, NO —, N/A —
DRAWDOWN	1.0 FT	DRAWDOWN VOLUME	≈0.65 GAL	PRODUCT THICKNESS	NA FT	CASING	YES —, NO —, N/A X
						LOCKED COLLAR	YES —, NO —, N/A X
						Vault	X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.110 L/MIN	1217	1304	≈ 1.2 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)	Flow rate Comments
1228	≈ 0.8	7.25	0.940	20.9	2.53	17.1	28	≈ 120 ml/min
1236	≈ 1.7	7.18	0.965	19.2	0.00	17.0	9	≈ 110 ml/min
1244	≈ 2.6	7.23	0.967	15.2	0.00	16.9	7	≈ 110 ml/min
1252	≈ 3.5	7.27	0.970	16.4	0.00	16.7	6	≈ 110 ml/min
1300	≈ 4.4	7.28	0.965	17.1	0.00	16.7	7	≈ 110 ml/min
1302	Collect sample							
1304	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE: [signature] 10/27/00

NOTES

1224 DTW = 2.36' BTOR
1228 flow rate ≈ 120 ml/min, 4-oz filled.
1230 DTW ≈ 2.50' BTOR
1232 Flow rate ≈ 110 ml/min
1234 DTW ≈ 2.62' BTOR
1237 DTW = 2.72' BTOR
1243 DTW = 2.90' BTOR
1248 DTW = 2.97' BTOR
1254 DTW = 3.09' BTOR
1258 DTW = 3.12' BTOR
1304 DTW ≈ 3.15' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/8/00

SITE ID: EW-S-7

SITE TYPE: WELL

SITE ACTIVITY: START 1200 END 1250

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 3.13 FT	WELL DEPTH	17.23 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 3.30 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	11.5 PPM		
DRAWDOWN	≈ 0.13 FT	DRAWDOWN VOLUME	≈ 0.1 GAL	PRODUCT THICKNESS	NA FT		

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

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

PURGE RATE: ≈ 0.140 L/MIN

BEGIN PURGING: 1209

END PURGING: 1247

TOTAL VOL. PURGED: ≈ 1.3 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
1216	≈ 0.8	7.27	1.24	86.1	0.35	16.1	136	≈ 160 ml/min
1223	≈ 1.8	7.26	1.24	78.7	0.29	15.9	138	≈ 140 ml/min
1229	≈ 2.6	7.27	1.26	64.5	0.13	15.8	136	≈ 140 ml/min
1235	≈ 3.4	7.48	1.26	64.8	0.18	15.9	134	≈ 140 ml/min
1242	≈ 4.4	7.27	1.26	60.2	0.28	15.9	132	≈ 140 ml/min
1245	Collect Sample.							
1247	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE: 11/8/00

NOTES

1216 DTW ≈ 3.23' BTOR
1221 flow rate ≈ 140 ml/min, DTW = 3.27' BTOR
1226 flow rate ≈ 140 ml/min.
1227 DTW ≈ 3.27' BTOR
1229 flow rate ≈ 140 ml/min.
1236 DTW ≈ 3.28' BTOR
1247 DTW ≈ 3.30' BTOR

D = 3.47'

68

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 10/27/00

SITE ID: EW-5-8

SITE TYPE: WELL

SITE ACTIVITY: START END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 2.6' FT	WELL DEPTH	≈ 19.23 FT	PID AMBIENT AIR	0.0 PPM
FINAL DEPTH TO WATER	≈ 3.39 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	> 1000 PPM
DRAWDOWN	≈ 0.79 FT	DRAWDOWN VOLUME	≈ 0.5 GAL	PRODUCT THICKNESS	NA FT

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

WELL DIAMETER: 4 IN

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

PURGE RATE: ≈ 0.120 L/MIN

BEGIN PURGING: 1332

END PURGING: 1402

TOTAL VOL. PURGED: ≈ 0.92 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)	Flow rate Comments
1338	≈ 0.8	7.19	1.43	14.7	0.90	16.8	76	≈ 120 ml/min
1345	≈ 1.6	7.09	1.46	9.2	0.29	16.7	78	≈ 120 ml/min
1352	≈ 2.4	7.10	1.45	8.9	0.18	16.6	76	≈ 120 ml/min
1359	≈ 3.2	7.13	1.44	8.6	0.15	16.6	73	≈ 120 ml/min
1400	collect sample							
1402	stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: 10/27/00

NOTES

1336 DTW = 2.75' BTOR
1340 DTW = 2.94' BTOR
1343 flow rate ≈ 120 ml/min
1344 DTW = 2.98' BTOR
1346 DTW = 2.99' BTOR
1351 DTW = 3.20' BTOR
1355 DTW = 3.32' BTOR
1358 DTW = 3.35' BTOR
1402 DTW = 3.39' BTOR

7.03

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/8/00

SITE ID: EW-S-9

SITE TYPE: WELL

SITE ACTIVITY: START 1445 END 1545

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 3.40 FT	WELL DEPTH	≈ 18.89 FT	PID AMBIENT AIR	0.0 PPM
WELL DIAMETER	4 IN	FINAL DEPTH TO WATER	≈ 3.64 FT	SCREEN LENGTH	15 FT
PID WELL MOUTH	0.2 PPM	DRAWDOWN	≈ 0.24 FT	DRAWDOWN VOLUME	≈ 0.2 GAL
PRODUCT THICKNESS	NA FT				

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	—	—	X
LOCKED	—	—	X
COLLAR	—	—	X

Vault X

PURGE RATE: ≈ 0.120 L/MIN

BEGIN PURGING: 1506

END PURGING: 1540

TOTAL VOL. PURGED: ≈ 1.0 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
1515	≈ 0.9	7.30	1.68	69.4	0.44	15.6	137	≈ 130 ml/min
1522	≈ 1.7	7.50	1.67	60.4	0.00	15.6	138	≈ 120 ml/min
1529	≈ 2.5	7.32	1.67	56.3	0.00	15.6	136	≈ 120 ml/min
1536	≈ 3.3	7.55	1.67	50.4	0.00	15.6	135	≈ 120 ml/min
1538	Collect	sample						
1540	~~≈ 3.8~~	Stop purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

PURGE OBSERVATIONS

SIGNATURE: [signature] 11/8/00

A = 3.93

NOTES

1514 flow rate ≈ 130 ml/min, DTW ≈ 3.51 BTOR
1518 flow rate ≈ 120 ml/min, DTW ≈ 3.56' BTOR
1523 DTW ≈ 3.57' BTOR
1528 DTW ≈ 3.59' BTOR, flow rate ≈ 120 ml/min
1535 DTW ≈ 3.62' BTOR
1540 DTW ≈ 3.64' BTOR

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/9/00

SITE ID: EW-S-10

SITE TYPE: WELL

SITE ACTIVITY: START 0800 END 0930

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

INITIAL DEPTH TO WATER	≈3.75 FT	WELL DEPTH	18.5 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈4.08 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	* ——— PPM		
DRAWDOWN	≈0.33 FT	DRAWDOWN VOLUME	≈0.2 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X
Vault	X		

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈0.130 L/MIN	0835	0922	≈1.3 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: Flow rate
0852	≈0.8	7.17	1.66	4.0	2.43	15.3	142	≈ 100 ml/min
0858	≈1.8	7.19	1.65	5.6	1.11	15.7	135	≈ 160 ml/min
0905	≈2.7	7.23	1.66	5.0	1.31	15.7	129	≈ 132 ml/min
0912	≈3.6	7.27	1.65	4.6	0.00	15.8	122	≈ 130 ml/min
0919	≈4.5	7.28	1.65	3.9	1.13	15.8	122	≈ 130 ml/min
0920	Collect sample							
0922	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[x] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[x] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

PURGE OBSERVATIONS

SIGNATURE: [signature] 11/9/00

7.3 - 3.75 Δ = 3.55

NOTES

*PID NOT OPERATING properly due to moisture in the air.

0855 DTW ≈ 3.95' BTOR
0857 flow rate ≈ 160 ml/min
0859 DTW ≈ 3.98' BTOR
0905 DTW ≈ 4.0' BTOR
0910 DTW ≈ 4.05' BTOR
0922 DTW = 4.08' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/8/00

SITE ID: EW-S-11

SITE TYPE: WELL

SITE ACTIVITY: START 1700 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	3.92 FT	WELL DEPTH	18.05 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	2.8 PPM		
DRAWDOWN	FT	DRAWDOWN VOLUME	GAL	PRODUCT THICKNESS	NA FT		

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

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

Vault X

PURGE RATE: ≈0.130 L/MIN

BEGIN PURGING: 1712

END PURGING: 1744

TOTAL VOL. PURGED: ≈1.0 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)	Flow rate Comments
1720	≈0.8	7.15	2.24	102	6.02	15.3	76	≈170 ml/min
1725	≈1.4	7.14	2.22	73.3	5.69	15.2	70	≈130 ml/min
1732	≈2.3	7.13	2.14	62.8	4.73	15.2	70	≈130 ml/min
1739	≈3.2	7.13	2.11	51.4	4.12	15.2	68	≈130 ml/min
1742	collect sample (getting dark)							
1744	stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: 11/8/00

3.78

NOTES

1718 DTW ≈ 4.12' BTOR

1723 DTW = 4.14' BTOR, flow rate ≈ 130 ml/min

1729 flow rate ≈ 130 ml/min., DTW ≈ 4.3' BTOR

1733 DTW ≈ 4.32' BTOR

1737 DTW = 4.37' BTOR

1744

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Sits Baseline Sampling

DATE: 11/8/00

SITE ID: EW-S-12

SITE TYPE: WELL

SITE ACTIVITY: START 1600 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

NITIAL DEPTH TO WATER	≈8.10 FT	WELL DEPTH	≈18.78 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈8.40 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	6.9 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈0.3 FT	DRAWDOWN VOLUME	≈0.2 GAL	PRODUCT THICKNESS	NA FT	CASING	YES — NO — N/A X
						LOCKED	YES — NO — N/A X
						COLLAR	YES — NO — N/A X
						Vault	X

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

PURGE RATE: ≈0.140 L/MIN

BEGIN PURGING: 1601

END PURGING: 1642

TOTAL VOL. PURGED: ≈1.3 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)	Flow rates Comments
1609	≈0.8	7.42	1.69	4.9	0.63	16.1	21	≈140 ml/min
1617	≈1.8	7.25	1.73	3.7	0.35	16.0	0	≈130 ml/min
1624	≈2.7	7.24	1.69	6.7	0.46	16.0	4	≈130 ml/min
1631	≈3.6	7.45	1.70	8.1	0.45	16.0	6	≈140 ml/min
1638	≈4.6	7.25	1.68	8.0	0.00	16.0	2	≈140 ml/min
1640	Collect sample							
1642	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: 11/8/00

8.1
12.12

D = 3.02

NOTES

1605 DTW ≈ 8.14' BTOR

1607 DTW = 8.16' BTOR

1613 flow rate ≈ 130 ml/min, DTW ≈ 8.24' BTOR

1622 DTW ≈ 8.32' BTOR, flow rate ≈ 130 ml/min

1632 DTW ≈ 8.36' BTOR

1642 DTW ≈ 8.40' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/9/00

SITE ID: EW-5-13

SITE TYPE: WELL

SITE ACTIVITY: START 0935 END 1030

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈4.37 FT	WELL DEPTH	18.6 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈4.79 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	PPM		
DRAWDOWN	≈0.42 FT	DRAWDOWN VOLUME	≈0.3 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X
Vault	X		

PURGE RATE: ≈0.100 L/MIN

BEGIN PURGING: 0947

END PURGING: 1022

TOTAL VOL. PURGED: 3 ≈1.0 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: flow rate
0954	≈0.9	7.37	1.29	14.8	2.25	16.0	125	≈ 190 ml/min
1001	≈1.7	7.39	1.30	16.6	1.29	15.8	119	≈ 110 ml/min
1009	≈2.6	7.60	1.30	17.8	1.80	15.8	114	≈ 100 ml/min
1017	≈3.4	7.61	1.30	17.8	1.02	15.9	110	≈ 100 ml/min
1020	Collect Sample							
1022	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

NOTES

0952 DTW ≈ 4.55' BTOR, flow rate ≈ 190 ml/min
lowering flow rate
0959 flow rate ≈ 110 ml/min
1004 DTW ≈ 4.65' BTOR
1009 flow rate ≈ 100 ml/min.
1019 DTW ≈ 4.76' BTOR
1022 DTW ≈ 4.79' BTOR

SIGNATURE: [signature] 11/9/00

D = 7.42 - 4.37 = 3.05'

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/9/00

SITE ID: EW-S-14

SITE TYPE: WELL

SITE ACTIVITY: START 1045 END 1145

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault 1 FT

PROTECTIVE CASING / WELL DIFFERENCE: ——— FT

INITIAL DEPTH TO WATER	≈ 4.3 FT	WELL DEPTH	18.15 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 4.83 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	* ——— PPM		
DRAWDOWN	≈ 0.53 FT	DRAWDOWN VOLUME	≈ 0.3 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING			X
LOCKED			X
COLLAR			X

Vault X

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.140 L/MIN	1054	1130	≈ 1.4 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)	Flow rate ~~Comments~~
1101	≈ 1.0	7.14	1.52	4.0	0.98	15.5	134	≈ 160 ml/min
1108	≈ 2.1	7.16	1.57	4.9	1.05	15.5	132	≈ 160 ml/min
1114	≈ 3.2	7.17	1.57	3.7	1.15	15.5	129	≈ 180 ml/min
1120	≈ 4.0	7.18	1.53	4.7	1.25	15.5	127	≈ 140 ml/min
1126	≈ 4.8	7.18	1.50	4.3	1.27	15.5	124	≈ 140 ml/min
1128	Collect Sample							
1130	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[ ] OTHER _____	[ ] OTHER _____	[ ] OTHER _____	

PURGE OBSERVATIONS

1106

NOTES

* PID Not operating properly

DTW = 4.57' BTOR

1112 DTW ≈ 4.7' BTOR

1115 DTW ≈ 4.75' BTOR, flow rate ≈ 140 ml/min

1123 DTW = 4.83' BTOR

1130 DTW ≈ 4.83 BTOR

SIGNATURE: [signature] 11/9/00

Δ = 7.7 - 4.3 = 3.4

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11-9-00

SITE ID: EW-S-15

SITE TYPE: WELL

SITE ACTIVITY: START 1430 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): VAULT FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 4.15 FT	WELL DEPTH	17.47 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	≈ 5.11 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	— PPM		
DRAWDOWN	≈ 0.96 FT	DRAWDOWN VOLUME	≈ 0.62 GAL	PRODUCT THICKNESS	NA FT		

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

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.115 L/MIN	1443	1538	≈ 1.4 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
1454	0.8	7.40	1.40	1.0	4.45	16.1	103	≈ 120 ml/min
1501	~~0.6~~ 1.4	7.40	1.40	0.3	4.43	16.1	80	≈ 114 ml/min
1508	0.82	7.48	1.38	1.9	4.40	16.0	61	≈ 115 ml/min
1516	0.72	7.52	1.38	.08	5.04	16.0	45	≈ 115 ml/min
1526	3.7	7.57	1.39	0.2	4.83	16.9	14	≈ 140 ml/min
1535	Collect Sample							
1538	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE: [signature] 11/9/00

8.3 - 4.15 = 4.15

NOTES

1456 DTW ≈ 4.18' BTOR

1501 DTW =

1534 DTW ≈ 5.07' BTOR

1538 DTW = 5.11' BTOR

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/4/00

SITE ID: EW-S-16

SITE TYPE: WELL

SITE ACTIVITY: START 1545 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	4.7 FT	WELL DEPTH	17.8 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	5.6 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	— PPM		
DRAWDOWN	≈ 0.9 FT	DRAWDOWN VOLUME	≈0.6 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	—	—	X
LOCKED	—	—	X
COLLAR	—	—	X

Vault X

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.140 L/MIN	1554	1635	≈1.6 GAL

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

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Flow rate Comments
1600	0.8	7.87	0.643	25.0	0.60	15.6	52	≈130 mL/min
1610	2.2	7.84	0.649	15.2	0.54	15.6	46	≈140 mL/min
1617	3.2	7.70	0.639	15.9	0.31	15.6	41	≈140 mL/min
1624	4.2	7.86	0.631	16.1	0.54	15.5	23	≈140 mL/min
1631	5.5	7.85	0.626	18.0	0.55	15.5	15	≈140 mL/min
1633	collect Samples							
1635	stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

PURGE OBSERVATIONS

NOTES

1612 DTW ≈ ~~4.15' BTOR~~ 5.1' BTOR

1635 DTW ≈ 5.6' BTOR

SIGNATURE: [signature] 11/10/00

~~8.41 - 4.7~~ D = 8.83 - 5.08 = 3.75

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/20/00

SITE ID: OB-#4

SITE TYPE: WELL

SITE ACTIVITY: START 1100 END 1158

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT:
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	≈ 6.31 FT	WELL DEPTH	≈17.5 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈ 6.98 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	12.3 PPM		
DRAWDOWN	≈ 0.67 FT	DRAWDOWN VOLUME	≈0.11 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

PURGE RATE: ≈0.115 L/MIN

BEGIN PURGING: 1116

END PURGING: 1150

TOTAL VOL. PURGED: ≈1.0 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)	Flow rate Comments
1124	≈0.8	7.95	1.42	5.8	3.08	12.4	-17	≈130 ml/min
1131	≈1.6	7.93	1.42	5.9	2.92	12.1	-16	≈115 ml/min
1138	≈2.4	7.93	1.41	5.9	2.63	12.8	-18	≈115 ml/min
1145	≈3.2	7.91	1.42	6.1	2.75	12.5	-17	≈115 ml/min
1147	Collect sample							
1150	Stop pumping. approx. 3.8L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP:
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING:
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH-DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL:
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable):
- [ ] TEFLON
- [ ] OTHER _____

NOTES: Water has black tint, w/ black particulates. RF

1124 DTW ≈ 6.62' BTOR

1130 DTW ≈ 6.68' BTOR

1138 DTW ≈ 6.79' BTOR

1145 DTW ≈ 6.95' BTOR

1150 DTW ≈ 6.98' BTOR

SIGNATURE: [signature] 11/20/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/20/00

SITE ID: OB-05

SITE TYPE: WELL

SITE ACTIVITY: START 1345 END 1425

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	≈9.12 FT	WELL DEPTH	≈18.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈9.87 FT	SCREEN LENGTH	15 FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	≈0.75 FT	DRAWDOWN VOLUME	≈0.12 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ≈0.135 L/MIN

BEGIN PURGING: 1350

END PURGING: 1420

TOTAL VOL PURGED: ≈1.0 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
1358	≈0.8	7.57	1.34	4.1	0.00	13.3	-13	≈170 mL/min
1403	≈1.6	7.50	1.35	4.1	0.00	13.3	-12	≈170 mL/min
1404	≈2.4	7.49	1.35	4.1	0.00	13.3	-11	≈135 mL/min
1415 1418	≈3.2	7.49	1.35	4.1	0.00	13.2	-11	≈135 mL/min
1418 11/20/00	Collect Sample							
1420	Stop pumping, approx 3.4 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH-DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1356 DTW ≈ 9.3' BTOR

1358 DTW ≈ 9.50' BTOR

1404 Lowering flow to approx. 135 mL/min

1408 DTW ≈ 9.76' BTOR

1411 DTW ≈ 9.77' BTOR

1420 DTW ≈ 9.87' BTOR

SIGNATURE: [signature] 11/20/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/17/00

SITE ID: OB-06

SITE TYPE: WELL

SITE ACTIVITY: START 0800 END 0850

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	≈ 6.18 FT	WELL DEPTH	16.32 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈ 7.53 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	5.4 PPM		
DRAWDOWN	≈ 1.35 FT	DRAWDOWN VOLUME	≈ 0.22 GAL	PRODUCT THICKNESS	NA FT		

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

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

PURGE RATE: ≈ 0.10 L/MIN (11/17/00) BEGIN PURGING: 0807 END PURGING: 0842 TOTAL VOL. PURGED: ≈ 1.0 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
0815	≈ 0.8	7.54	1.40	14.0	1.13	11.2	53	≈ 130 ml/min
0822	≈ 1.6	7.62	1.43	10.9	0.00	11.1	41	≈ 120 ml/min
0830	≈ 2.5	7.65	1.43	4.9	0.00	11.3	39	≈ 110 ml/min
0838	≈ 3.4	7.69	1.43	8.3	0.00	11.6	37	≈ 110 ml/min
0840	Collect Sample - Duplicate collected							
0842	Stop purging	≈ 3.6 L removed						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

NOTES

ambient Temp 41°F

0814 DTW 6.85' BTOR

0822 DTW ≈ 7.15' BTOR, lowering flow rate

0826 DTW ≈ 7.25' BTOR, flow rate ≈ 110 ml/min.

0830 DTW ≈ 7.37' BTOR

0838 DTW ≈ 7.49' BTOR

0842 DTW ≈ 7.53' BTOR

Duplicate collected.

SIGNATURE: 11/17/00

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/16/00

SITE ID: OB-07

SITE TYPE: WELL

SITE ACTIVITY: START 1538 END 1635

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	≈ 7.20 FT	WELL DEPTH	≈ 20.03 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	≈ 8.21 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	≈ 1.01 FT	DRAWDOWN VOLUME	≈ 0.16 GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING LOCKED	X		X
COLLAR	X		

PURGE RATE: ≈ 0.08 L/MIN

BEGIN PURGING: 1543

END PURGING: 1627

TOTAL VOL. PURGED: ≈ 1.0 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
1553	0.8	7.52	1.65	0.4	4.11	12.9	-38	≈ 120 ml/min
1602	RF 0.8 1.6	7.51	1.70	0.0	1.72	12.6	-35	≈ 90 ml/min
1611	1.6 ≈ 2.4	7.52	1.72	0.0	1.43	12.5	-34	≈ 90 ml/min
1620	3.2	7.43	1.72	0.0	0.91	12.6	-33	≈ 100 ml/min
1625	Collect sample							
1627	Stop purging		≈ 3.9 L removed					

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER _____

NOTES

1553 DTW ≈ 8.0 BTOR, flow rate ≈ 120 ml/min, lowering flow rate

1601 DTW = 8.18' BTOR, flow rate ≈ 90 ml/min.

1611 DTW = 8.19' BTOR

1616 DTW ≈ 8.20' BTOR

1620 DTW ≈ 8.21' BTOR

1627 DTW ≈ 8.21' BTOR

SIGNATURE: [signature] 11/16/00

GW_SAMPLE.xls

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/16/00

SITE ID: OB-08

SITE TYPE: WELL

SITE ACTIVITY: START 1425 END 1530

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	9.55 FT	WELL DEPTH	25 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.61 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	10.3 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	1.06 FT	DRAWDOWN VOLUME	≈0.17 GAL	PRODUCT THICKNESS	NA FT	CASING	YES — NO — N/A X
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ≈0.105 L/MIN

BEGIN PURGING: 1451

END PURGING: 1525

TOTAL VOL. PURGED: ~~≈3.6~~ ≈0.9 ~~FT~~ GAL 11/16/00

(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
1459	0.8	7.20	1.16	3.0	0.34	13.2	-116	≈110 mL/min
1506	1.6	7.60	1.21	1.4	0.73	13.3	-118	≈110 mL/min
1513	2.4	7.56	1.21	0.5	0.20	13.4	-117	≈105 mL/min
1518	3.2	7.52	1.20	0.3	0.72	13.3	-111	≈105 mL/min
1523	Collect Sample							
1525	Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER _____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY POLYETHYLENE~~ [ ] OTHER _____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER _____

TYPE OF BLADDER MATERIAL (If applicable): [ ] TEFLON [ ] OTHER _____

NOTES

1508 DTW ≈ 10.6 BTOR

1518 DTW ≈ 10.62' BTOR

1525 DTW ≈ 10.61' BTOR

SIGNATURE: _____ 11/16/00

25 - 9.55 = 15.45 x .16 = vol 2.47

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/16/00

SITE ID: OB-09

SITE TYPE: WELL

SITE ACTIVITY: START 1330 END

JOB NUMBER: 49489 - 3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	10.3 FT	WELL DEPTH	23.0 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.62 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	2.5 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	0.32 FT	DRAWDOWN VOLUME	≈ 0.05 GAL	PRODUCT THICKNESS	NA FT	CASING	— — 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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.105 L/MIN	1335	1417	≈ 1.0 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
1347	0.8	7.72	1.36	1.6	1.94	14.2	-145	≈100 mL/min
1355	1.6	7.51	1.38	1.3	1.78	14.3	-139	≈100 mL/min
1403	2.4	7.63	1.38	0.9	2.20	14.3	-130	≈100 mL/min
1411	3.2	7.61	1.39	0.4	1.94	14.4	-123	≈105 mL/min
1415	Collect Samples							
1417	Stop purging	≈ 3.83 L removed						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH-DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1345 DTW ≈ 10.57' BTOR

1349 DTW ≈ 10.55' BTOR

1355 DTW ≈ 10.59' BTOR

1405 DTW ≈ 10.62 BTOR

1412 DTW ≈ 10.62 BTOR

1415 DTW ≈ 10.62 BTOR

SIGNATURE: [signature] 11/16/00

Well Volume 23.0 - 10.3 = 12.7 x 0.16 =

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/20/00

SITE ID: BREW-S-1

SITE TYPE: WELL

SITE ACTIVITY: START 1203 END 1245

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	≈ 19.8 FT	WELL DEPTH	261.8 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	≈ 19.84 FT	SCREEN LENGTH	30 FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	≈ 0.04 FT	DRAWDOWN VOLUME	≈ 0.06 GAL	PRODUCT THICKNESS	NA FT	CASING	YES X
						LOCKED	YES X
						COLLAR	N/A X

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

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈ 0.170 L/MIN	1211	1238	≈ 1.1 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
1217	≈ 0.8	8.90	0.97	8.5	2.20	12.7	-46	≈ 140 mL/min
1222	≈ 1.6	9.11	0.97	7.9	0.00	12.9	-64	≈ 165 mL/min
1227	≈ 2.4	9.17	0.97	8.7	0.00	12.9	-77	≈ 165 mL/min
1232	≈ 3.2	9.24	0.97	8.5	0.00	13.1	-82	≈ 170 mL/min
1235	Collect sample							
1238	stop purging, approx. 4.2 L removed							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

NOTES

1212 DTW ≈ 19.8' BTOR

1215 DTW ≈ 19.81' BTOR

1219 DTW ≈ 19.81' BTOR

1222 DTW ≈ 19.81' BTOR

1224 DTW ≈ 19.83' BTOR

1227 DTW ≈ 19.83' BTOR

1238 DTW ≈ 19.84' BTOR

SIGNATURE: [signature] 11/20/00

Δ = 22.12 - 19.8 = 2.32'

HARDING LAWSON ASSOCIATES

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments Site Baseline Sampling

DATE: 11/20/00

SITE ID: BREW-N-2

SITE TYPE: WELL

SITE ACTIVITY: START 1430 END

JOB NUMBER: 49489-3

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Vault FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	18.47 FT	WELL DEPTH	≈76 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	18.47 FT	SCREEN LENGTH	45 FT	PID WELL MOUTH	0.9 PPM		
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	GAL	PRODUCT THICKNESS	NA FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	—	X	—
Vault	X		

PURGE RATE: ≈0.125 L/MIN

BEGIN PURGING: 1440

END PURGING: 1520

TOTAL VOL. PURGED: 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
1444	≈0.8	7.71	1.18	37.2	8.54	10.8	4	≈ 140 mV/min
1456	≈1.7	7.74	1.18	23.8	7.52	11.7	2	≈ 130 mV/min
1503	≈2.6	7.74	1.18	6.1	7.56	11.7	1	≈ 125 mV/min
1510		7.75	1.18	6.9	7.72	11.8	0	≈ 125 mV/min
1517		7.76	1.19	8.7	7.84	11.7	0	≈ 125 mV/min
1520	Collect Sample							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

NOTES

1441 DTW ≈ 18.47' BTOR

1449 DTW ≈ 18.55' BTOR

1452 DTW ≈ 18.57' BTOR

SIGNATURE: 11/20/00

A = 21.57 - 18.47 = 2.9

March (Quarterly) Field Data Forms

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments

DATE: 03/29/01

SITE ID: OB-08

SITE TYPE: WELL

SITE ACTIVITY: START 1123 END 1201

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.49 FT	WELL DEPTH	25 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.31 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.82 FT	DRAWDOWN VOLUME	0.13 GAL	PRODUCT THICKNESS	— FT		

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

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

PURGE RATE: ≈105 mL/MIN ≈0.105 L/min

BEGIN PURGING: 1128

END PURGING: 1155

TOTAL VOL. PURGED: 0.74 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) Horiba	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1141	1.37	7.40	1.19	5.5	0.00	10.9	34	≈105 mL/min
1145		Collect NA samples						
1155		End purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

Returning to add NA samples

Only need to collect 1 set parameters per discussion w/ office

NOTES

1142 DTW = 9.14'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments

DATE: 03/29/01

SITE ID: W-2

SITE TYPE: WELL

SITE ACTIVITY: START ~~1008~~ 1012 END 1119

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.33 FT	WELL DEPTH	20.60 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.83 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.50 FT	DRAWDOWN VOLUME	0.08 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	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: ≈107 mL/MIN ≈0.107 L/min

BEGIN PURGING: 1025

END PURGING: 1115

TOTAL VOL. PURGED: 1.39 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 (Hanby) (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1033	1.23	7.82	0.529	4.0	4.04	8.0	67	≈154 mL/min
1040	2.06	7.76	0.524	3.6	3.90	7.8	53	≈118 mL/min
1046	2.77	7.73	0.520	3.6	3.48	7.8	40	≈118 mL/min
1053	3.58	7.71	0.519	3.6	3.95	7.8	26	≈115 mL/min
1100	4.33	7.72	0.519	3.5	4.00	7.7	27	≈107 mL/min
1106		7.77	0.517	3.6	4.04	7.9	17	≈107 mL/min
1110		Collect sample for Chloride, Alkalinity, CO_2						
1115		End purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

DO = 3.75 mg/L (down-well)

DO reading taken before purging b/c of smaller well diameter - didn't want probe to get stuck w/ WL indicator

NOTES

1034 DTW = 8.65'
1042 DTW = 8.87'
1047 DTW = 8.99'
1054 DTW = 8.93'
1100 DTW = 8.93'
1108 DTW = 8.86'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling (former Taylor Instruments)
DATE: 03/21/01
SITE ID: TW-07
SITE TYPE: WELL
SITE ACTIVITY: START 0842 END 1009
JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): flush FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.17 FT

INITIAL DEPTH TO WATER	7.25 FT	WELL DEPTH	18.12 FT	PID AMBIENT AIR	PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.78 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	PPM	WELL INTEGRITY: CAP	YES: X, NO: —, N/A: —
DRAWDOWN	0.53 FT	DRAWDOWN VOLUME	0.08 GAL	PRODUCT THICKNESS	— FT	CASING	YES: X, NO: —, N/A: —
						LOCKED	YES: X, NO: —, N/A: —
						COLLAR	YES: X, NO: —, N/A: —

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

PURGE RATE: ≈95 mL/MIN (≈0.095 L/min)
BEGIN PURGING: 0857
END PURGING: 1000
TOTAL VOL. PURGED: 1.70 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L) (Horiba)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0859	1.09	6.73	1.61	9.5	0.00	8.4	104	≈136 mL/min
0905	1.72	6.68	1.59	5.6	0.00	8.3	96	≈105 mL/min
0912	2.46	6.68	1.61	5.7	0.00	8.3	90	≈105 mL/min
0919	3.13	6.58	1.59	7.5	0.00	8.3	89	≈95 mL/min
0926	3.80	6.55	1.55	4.3	0.00	8.5	89	≈95 mL/min
0933	4.47	6.54	1.53	4.3	[illegible] RE	8.6	87	≈95 mL/min
0940	5.14	6.57	1.51	4.5	0.33	8.6	83	≈95 mL/min
0945		Collect samples - 8260 + NA						
1000		End purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER
TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER
TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

> DO reading : 4.50 mg/L
Took initial reading and not during purging b/c of small well diameter - didn't want probe to get stuck w/ WL indicator

SIGNATURE:

NOTES

0900 DTW = 7.63'
0906 DTW = 7.70'
0913 DTW = 7.81'
0920 DTW = 7.74'
0926 DTW = 7.75'
0934 DTW = 7.83'
0940 DTW = 7.85'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments — DATE: 03/28/01

SITE ID: BR-11 — SITE TYPE: WELL

SITE ACTIVITY: START 1553 END 1700 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.61 FT	WELL DEPTH	~52 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	20.74 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.13 FT	DRAWDOWN VOLUME	0.20 GAL	PRODUCT THICKNESS	— FT		

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

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

PURGE RATE: ~98 mL/MIN (~0.098 L/min) — BEGIN PURGING: 1604 — END PURGING: 1657 — TOTAL VOL. PURGED: 1.35 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Hach / DanHill

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1619	1.25	7.49	1.81	15.7	0.00	0.35	9.1	-23	~83 mL/min
1624	1.74	7.46	1.87	11.7	0.00	0.35	9.4	-12	~98 mL/min
1632	2.52	7.38	1.87	11.9	0.00	0.35	9.6	-17	~98 mL/min
1639	3.21	7.35	1.90	10.8	0.00	0.35	9.6	-16	~98 mL/min
1647	3.99	7.34	1.89	10.2	0.00		9.8	-20	~98 mL/min
1650		Collect samples — 8260 — duplicate collected							
1657		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

? water has greenish / rusty tint
samples had rusty/black flakes

NOTES

1603 DTW ≈ 20.61
1620 DTW = ~~1607~~ 20.57'
1626 DTW = 20.61'
1632 DTW = 20.80'
1640 DTW = 20.71'
1648 DTW = 20.69'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr GW Sampling Former Taylor Instruments | DATE: 05/23/01

SITE ID: 08-07 | SITE TYPE: WELL

SITE ACTIVITY: START 1309 END 1553 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	6.97 FT	WELL DEPTH	≈20.03 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.54 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	0.00 PPM	WELL INTEGRITY: CAP	YES X / NO / N/A
DRAWDOWN	0.57 FT	DRAWDOWN VOLUME	0.09 GAL	PRODUCT THICKNESS	FT	CASING	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: ≈ 91 mL/MIN ≈ 0.091 L/min | BEGIN PURGING: 1441 | END PURGING: 1546 | TOTAL VOL. PURGED: 1.53 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
1452	1.07	8.49	1.21	18.2	0.00	8.3	23	≈97 mL/min
1500	1.80	9.61	0.736	11.4	2.44	8.1	-14	≈91 mL/min
1507	2.44	11.17	0.535	8.3	6.39	8.1	-52	≈91 mL/min
1514	3.08	11.43	0.509	6.5	6.80	8.1	-64	≈91 mL/min
1521	3.72	11.43	0.529	6.4	6.93	8.1	-59	≈91 mL/min
1525		Collect samples —		8260 + NA				
1546		End purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

> DO: 6 mg/l

Took initial DO reading from down-well probe instead of during purging b/c of small diameter DO unit would probe & WL indicator to get stuck

SIGNATURE:

NOTES

1454 DTW = 7.47'
1502 DTW = 7.65'
1509 DTW = 7.60'
1516 DTW = 7.60'
1521 DTW = 7.55'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 03/28/01

SITE ID: BL-09 | SITE TYPE: WELL

SITE ACTIVITY: START 0832 END 0952 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.55 FT	WELL DEPTH	≈47 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	20.76 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.21 FT	DRAWDOWN VOLUME	0.32 GAL	PRODUCT THICKNESS	— FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE: ≈120 mL/MIN ≈0.120 L/min | BEGIN PURGING: ~~0853~~ 0900 | END PURGING: 0944 | TOTAL VOL. PURGED: 1.37 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Monit. Well Purged

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0906	0.86	6.91	1.68	4.9	0.00	2.00	10.9	56	≈143 mL/min
0912	1.65	6.88	1.71	4.8	0.00	1.00	10.4	54	≈131 mL/min
0918	2.37	6.88	1.71	4.6	0.00	1.00	10.1	61	≈120 mL/min
0924	3.09	6.91	1.71	3.8	0.00	1.00	9.9	56	≈120 mL/min
0931	3.93	6.96	1.71	3.7	0.00	0.75	9.9	62	≈120 mL/min
0936	4.53	7.00	1.70	3.8	0.00	0.75	9.9	62	≈120 mL/min
0940		Collect sample for BZ60							
0944		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE:

NOTES

0908 DTW = 20.74'
0913 DTW = 20.72'
0919 DTW = 20.74'
0925 DTW = 20.74'
0932 DTW = 20.79'
0938 DTW = 20.77'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr GW Sampling, Former Taylor Instruments — DATE: 03/28/01

SITE ID: BR-10 — SITE TYPE: WELL

SITE ACTIVITY: START 0952 END 1111 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☒ TOP OF PROTECTIVE CASING ☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.33 FT	WELL DEPTH	≈47 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	20.19 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	? FT	DRAWDOWN VOLUME	GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X	X	
COLLAR	X		

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

PURGE RATE: ≈ 77 mL/MIN ≈ 0.077 L/min — BEGIN PURGING: 1002 — END PURGING: 1107 — TOTAL VOL. PURGED: 1.30 GAL

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

PURGE DATA

Horiba U-Dam Well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1018	1.18	7.28	1.54	23.1	0.00	0.35	8.4	-10	≈74 mL/min
1026	1.92	7.31	1.57	12.4	0.00	0.35	8.5	-11	≈92 mL/min
1035	2.61	7.31	1.55	87.0	0.00	0.35	8.1	-14	≈77 mL/min
1043	3.23	7.34	1.52	13.2	0.00	0.35	8.6	-21	≈77 mL/min
1052	3.92	7.36	1.50	8.5	0.00	0.35	8.5	-26	≈77 mL/min
1100	4.54	7.37	1.47	7.3	0.00		8.4	-28	≈77 mL/min
1103		Collect samples - BZ60							
1107		End purging							

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

SIGNATURE:

NOTES

1019 DTW = 23.00'
1027 DTW = 20.25'
1036 DTW = 20.25'
1044 DTW = 20.14'
1053 DTW = 20.23'
1101 DTW = 20.23'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr Gw sampling / Former Taylor Instruments | DATE: 03/29/01

SITE ID: TW-09 | SITE TYPE: WELL

SITE ACTIVITY: START 1117 END 1300 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	flush FT	PROTECTIVE CASING / WELL DIFFERENCE	0.4 FT		
INITIAL DEPTH TO WATER	6.51 FT	WELL DEPTH	17.53 FT	PID AMBIENT AIR	0.00 PPM
WELL DIAMETER	2 IN	FINAL DEPTH TO WATER	6.75 FT	SCREEN LENGTH	5 FT
PID WELL MOUTH	0.00 PPM	DRAWDOWN	0.24 FT	DRAWDOWN VOLUME	0.04 GAL
PRODUCT THICKNESS	FT				

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈115 mL/MIN ≈0.115 L/min | BEGIN PURGING: 1135 (1148) clogged | END PURGING: 1256 | TOTAL VOL. PURGED: 2.03 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)	Meter DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1153	0.58	7.04	1.46	9.8	0.04	6.5	-44	≈115 mL/min
1200	1.39	7.04	1.44	7.6	0.06	6.5	-40	≈115 mL/min
1206	2.08	7.03	1.43	6.3	0.06	6.5	-36	≈115 mL/min
1213	2.89	7.04	1.42	6.2	0.00	6.4	-34	≈115 mL/min
1219	3.58	7.05	1.43	8.9	0.00	6.2	-31	≈115 mL/min
1226	4.39	7.05	1.43	6.5	0.00	6.4	-25	≈115 mL/min
1233	5.20	7.05	1.42	5.4	0.00	6.4	-27	≈115 mL/min
1237		Collect samples - 8260 + NA						
1256		End purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

- DO meter (down-well): 2.75
- Pulling DO meter during purging b/c of small well diameter - don't want to foam up w/ water level
- Initial water very black/grey, very full of debris

NOTES

1154 DTW = 6.83'
1201 DTW = 6.79'
1207 DTW = 6.89'
1214 DTW = 6.71'
1220 DTW = 6.74'
1227 DTW = 6.75'
1234 DTW = 6.79'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments | DATE: 03/27/01

SITE ID: TW-20 | SITE TYPE: WELL

SITE ACTIVITY: START 0827 END 1039 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): ≈2.3 FT

PROTECTIVE CASING / WELL DIFFERENCE: ≈0.26 FT

INITIAL DEPTH TO WATER	11.00 FT	WELL DEPTH	≈17.35 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.49 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.49 FT	DRAWDOWN VOLUME	0.03 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈94 mL/MIN ≈0.094 L/min | BEGIN PURGING: 0848 | END PURGING: 1030 | TOTAL VOL. PURGED: 2.49 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) Horiba	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0901	1.53	7.09	0.94	5.7	7.82	5.2	98	≈118 mL/min
0910	2.38	6.85	0.93	5.2	7.48	5.4	109	≈94 mL/min
0918	3.13	6.77	0.94	5.6	7.50	4.9	100	≈94 mL/min
0926	3.88	6.80	0.91	5.6	6.93	5.0	100	≈94 mL/min
0933	4.54	6.89	0.91	5.7	6.82	4.8	95	≈94 mL/min
0942	5.39	7.09	0.823	5.7	6.39	4.9	75	≈94 mL/min
0951	6.24	7.23	0.814	5.7	6.30	5.1	65	≈94 mL/min
1000	7.09	7.21	0.813	5.7	6.26	5.0	74	≈94 mL/min
1005		Collect samples -		≤20	NM			
1030		Stop purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

Down-well DO meter: 8
Taken before purging and not during due to small well diameter

SIGNATURE:

NOTES

0904 DTW = 11.20'
0911 DTW = 11.21'
0919 DTW = 11.30'
0927 DTW = 11.31'
0936 DTW = 11.35'
0945 DTW = 11.41'
0953 DTW = 11.43'
1001 DTW = 11.46

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW sampling, Former Taylor Instruments | DATE: 03/26/01

SITE ID: BR-15 | SITE TYPE: WELL

SITE ACTIVITY: START 1300 END 1429 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER ____

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	17.43 FT	WELL DEPTH	≈72.0 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	17.79 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.36 FT	DRAWDOWN VOLUME	0.54 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈154 mL/MIN = 0.154 L/min | BEGIN PURGING: RE 1319 1325 | END PURGING: 1417 | TOTAL VOL. PURGED: 2.08 GAL

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

PURGE DATA

Note: 1 Pump-well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1340	2.00	7.11	1.24	24.1	0.00	2.75	6.2	-22	≈133 mL/min
1346	2.92	6.95	1.21	16.8	0.00	2.75	6.9	-12	≈154 mL/min
1351	3.69	6.81	1.26	13.3	0.00	2.75	6.1	-9	≈154 mL/min
1356	4.46	6.86	1.23	14.3	0.00	2.75	6.7	-8	≈154 mL/min
1401	5.23	6.87	1.24	9.4	0.00	2.75	7.4	-11	≈154 mL/min
1406	6.00	6.91	1.25	8.8	0.00	2.60	7.3	-13	≈154 mL/min
1411	6.77	6.98	1.26	8.7	0.00	2.75	7.0	-16	≈154 mL/min
1415		Collect sample - 8260							
1417		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER ____

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER ____

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER ____

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER ____

PURGE OBSERVATIONS

> Note: initial purge water black/grey
Black particulates still present in water during purging

NOTES

1341 DTW = 17.62'
1347 DTW = 17.70'
1352 DTW = 17.71'
1357 DTW = 17.82'
1402 DTW = 17.90'
1407 DTW = 17.91'
1412 DTW = 17.85'

SIGNATURE: [signature]

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 03/26/21

SITE ID: OB-09 | SITE TYPE: WELL

SITE ACTIVITY: START 1020 END 1211 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	RE ~~6.66~~ FT	WELL DEPTH	23.0 FT	PID AMBIENT AIR	too wet PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	6.95 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	too wet PPM	WELL INTEGRITY: CAP	YES X / NO / N/A
DRAWDOWN	0.29 ~~0.05~~ RE FT	DRAWDOWN VOLUME	0.05 GAL	PRODUCT THICKNESS	— FT	CASING	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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈95 mL/MIN ≈0.095 L/min	~~1036~~ RE 1041	1201	0.26 GAL

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

PURGE DATA

Horiba | Down-well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1051	1.11	7.13	1.61	3.0	0.00	2.50	8.9	35	≈111 mL/min
1059	1.87	6.93	1.61	3.0	0.00	2.50	8.4	32	≈95 mL/min
1105	2.44	6.94	1.60	3.1	0.00	2.50	9.1	18	≈95 mL/min
1110	2.92	7.08	1.61	3.2	0.00	2.50	9.2	5	≈95 mL/min
1116	3.49	7.18	1.61	3.9	0.00	2.50	9.2	0	≈95 mL/min
1122	4.06	7.21	1.60	3.0	0.00	2.50	9.3	-3	≈95 mL/min
1128	4.63	7.22	1.61	3.4	0.00	2.50	9.1	-11	≈95 mL/min
1134	5.20	7.21	1.59	3.3	0.00	2.50	9.4	-6	≈95 mL/min
1137		Collect samples —		8260	+ NA				
1201		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE:

NOTES

1052 DTW = 7.15'
1100 DTW = 7.35'
1105 DTW = 7.31'
1111 DTW = 7.31'
1117 DTW = 7.29'
1123 DTW = 7.29'
1128 DTW = 7.28'
1134 DTW =

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 03/25/01

SITE ID: BR-05 | SITE TYPE: WELL

SITE ACTIVITY: START 1414 END 1532 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	19.90 FT	WELL DEPTH	≈49.9 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	19.85 FT	SCREEN LENGTH	open borehole FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	? 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))

WELL INTEGRITY:

	YES	NO	N/A
CAP		X	
CASING	X		
LOCKED		X	
COLLAR	X		

PURGE RATE: ≈154 ML/MIN (≈0.154 L/min) | BEGIN PURGING: ~~1419~~ RE 1440 | END PURGING: 1522 | TOTAL VOL. PURGED: 1.68 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba / Down-well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1448	1.23	7.22	1.23	17.4	0.00	1.50	7.3	-85	≈154 mL/min
1453	2.00	7.18	1.31	14.8	0.00	0.25	6.9	-82	≈154 mL/min
1459	2.92	7.11	1.32	13.3	0.00	0.25	6.9	-78	≈154 mL/min
1504	3.69	7.10	1.31	16.9	0.00	0.15	7.6	-79	≈154 mL/min
1510	4.61	7.09	1.37	12.9	0.00	0.15	6.5	-77	≈154 mL/min
1515	5.38	7.09	1.33	12.3	0.00		7.0	-76	≈154 mL/min
1519		Collect sample - 8260							
1522		Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

> Note: when first trying to pump, tubing clogged full of grey/black material
> still black particles in water

NOTES

1450 DTW = 19.90'
1455 DTW = 19.90'
1500 DTW = 19.90'
1506 DTW = 19.85'
1511 DTW = 19.85'
1516 DTW = 19.80'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments

DATE: 03/25/01

SITE ID: OB-05

SITE TYPE: WELL

SITE ACTIVITY: START 1352 END 1411

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: ~~17.60~~ 17.60' - DRY FT

WELL DEPTH: ≈18.0 FT

PID AMBIENT AIR: PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: FT

SCREEN LENGTH: 15 FT

PID WELL MOUTH: PPM

DRAWDOWN: 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))

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

PURGE RATE: L/MIN

BEGIN PURGING: 1405

END PURGING:

TOTAL VOL. PURGED: 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
1403	Down - well DO meter				8.00			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

> WL indicator & DO probe getting tangled in 2" well, so DO probe pulled before pumping begins

> Well dry @ ≈ 17.60' BTOC

Not able to sample

SIGNATURE: 5/21/01

NOTES

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr Low Sampling Former Taylor Instruments

DATE: 03/25/01

SITE ID: BR-13

SITE TYPE: WELL

SITE ACTIVITY: START 1051 END 1224

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	21.03 FT	WELL DEPTH	~67.5 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	20.10 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	? FT	DRAWDOWN VOLUME	GAL	PRODUCT THICKNESS	FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ~133 mL/MIN = 0.133 L/min

BEGIN PURGING: 1127

END PURGING: 1215

TOTAL VOL. PURGED: 1.66 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba U-22 Pow-Well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1139	1.60	7.19	1.71	5.1	0.00	0.15	9.6	-94	~133 mL/min
1145	2.40	7.18	1.71	4.0	0.00	0.15	9.5	-93	~133 mL/min
1150	3.07	7.17	1.71	3.6	0.00	0.10	9.4	-93	~133 mL/min
1156	3.87	7.17	1.72	5.3	0.00	0.15	9.2	-94	~133 mL/min
1202	4.67	7.17	1.73	3.8	0.00		9.3	-95	~133 mL/min
1206		Collect sample - BZ00							
1208		Collect MS & MSD							
1215		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE:

NOTES

1141 DTW = 21.10'

1146 DTW = 20.99'

1151 DTW = 20.95'

1157 DTW = 20.94'

1202 DTW = 20.89'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments — DATE: 03/25/01

SITE ID: BR-16 — SITE TYPE: WELL

SITE ACTIVITY: START 0903 END 1049 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☒ TOP OF PROTECTIVE CASING ☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.21 FT	WELL DEPTH	≈55.0 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	20.62 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM	WELL INTEGRITY: CAP	YES: — NO: X N/A: —
DRAWDOWN	0.41 FT	DRAWDOWN VOLUME	0.62 GAL	PRODUCT THICKNESS	— FT	CASING	YES: X NO: — N/A: —
						LOCKED	YES: — NO: X N/A: —
						COLLAR	YES: X NO: — N/A: —

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

PURGE RATE: ≈45 mL/MIN ≈0.095 L/min — BEGIN PURGING: 0938 — END PURGING: 1047 — TOTAL VOL. PURGED: 1.70 GAL

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

PURGE DATA

Horiba | Duran Mill

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0950	2.24	8.73	2.25	>999	0.00	0.15	10.8	-264	≈187 mL/min
0954	2.91	8.36	2.32	>999	0.00	0.25	10.0	-246	≈ 143 mL/min
1011	4.02	7.82	2.43	11.7	0.00	0.25	8.8	-186	≈ 71 mL/min
1018	4.63	7.76	2.44	9.5	0.00	0.20	8.5	-184	≈ 87 mL/min
1025	5.30	7.75	2.45	8.0	0.00	0.20	8.9	-186	≈ 95 mL/min
1032	5.97	7.78	2.45	7.7	0.00	0.15	9.0	-187	≈95 mL/min
1039	6.64	7.79	2.45	7.0	0.00	0.25	9.2	-189	≈95 mL/min
1044		Collect samples - BZ60							
1047		End purging							

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

Initial purge water very black/grey

SIGNATURE:

NOTES

0952 DTW = 25.50'
0954 DTW = 20.13'
1013 DTW = 20.81'
1019 DTW = 20.66'
1025 DTW = 20.65'
1033 DTW = 20.56'
1040 DTW = 20.65'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments | DATE: 03/25/01

SITE ID: BR-12 | SITE TYPE: WELL

SITE ACTIVITY: START 0742 END 0904 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☒ TOP OF PROTECTIVE CASING ☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	14.77 FT	WELL DEPTH	≈ 42.0 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	15.37 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.60 FT	DRAWDOWN VOLUME	0.9 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP		X	
CASING	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: ≈ 83 mL/MIN ≈ 0.083 L/min | BEGIN PURGING: RE 0757 0807 | END PURGING: 0859 | TOTAL VOL. PURGED: 1.12 GAL

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

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L) Horiba	DISSOLVED O_2 (mg/L) Down-well	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0812	0.91	7.14	2.22	64.6	0.00	0.25	8.5	-138	≈ 182 mL/min
0820	1.83	7.00	2.27	26.7	0.00	0.25	7.1	-131	≈ 115 mL/min
0829	2.58	7.02	2.28	14.2	0.00	0.25	6.5	-130	≈ 83 mL/min
0836	3.16	7.15	2.29	10.7	0.00	0.25	6.5	-137	≈ 83 mL/min
0844	3.82	7.23	2.28	11.3	0.00	0.25	6.5	-140	≈ 83 mL/min
0852	4.48	7.24	2.28	8.6	0.00	0.25	6.7	-141	≈ 83 mL/min
0855		Collect samples — 8260							
0859		End purging							

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

SIGNATURE:

NOTES

0813 DTW = 14.91'
0821 DTW = 15.50'
0829 DTW = 15.14'
0837 DTW = 15.20'
0845 DTW = 15.28'
0852 DTW = 15.31'
0900 DTW = 15.37'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: TOAT GW Sampling Former Teledyne Instruments

DATE: 03/24/01

SITE ID: MW-00

SITE TYPE: WELL

SITE ACTIVITY: START 1508 END 1515

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: FT

WELL DEPTH: FT

PID AMBIENT AIR: PPM

WELL DIAMETER: IN

FINAL DEPTH TO WATER: FT

SCREEN LENGTH: FT

PID WELL MOUTH: PPM

DRAWDOWN: FT

DRAWDOWN VOLUME: GAL

PRODUCT THICKNESS: FT

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

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

PURGE RATE: L/MIN

BEGIN PURGING:

END PURGING:

TOTAL VOL. PURGED: 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

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

SIGNATURE: 5/21/01

NOTES

MW-00 obstructed at about 6' BTOR

No way to sample

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments

DATE: 03/24/01

SITE ID: W-6

SITE TYPE: WELL

SITE ACTIVITY: START 1444 END 1508

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: FT

WELL DEPTH: 14.92 FT

PID AMBIENT AIR: too wet PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: FT

SCREEN LENGTH: 5 FT

PID WELL MOUTH: too wet PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

DRAWDOWN: 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: L/MIN

BEGIN PURGING:

END PURGING:

TOTAL VOL. PURGED: 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

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] ~~HIGH DENSITY~~ POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE:

NOTES

Obstructed at about 3' BTOR

Cannot collect sample

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr GW Sampling former Baylor Instruments — DATE: 03/24/01

SITE ID: BR-17 — SITE TYPE: WELL

SITE ACTIVITY: START 1325 END 1426 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: ~~11.81~~ RE incorrect reading FT

WELL DEPTH: ≈52 FT

PID AMBIENT AIR: too wet PPM

WELL DIAMETER: 6 IN

FINAL DEPTH TO WATER: 20.59 FT

SCREEN LENGTH: open boring FT

PID WELL MOUTH: too wet PPM

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

DRAWDOWN: 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: ≈111 mL/MIN ≈0.111 L/min

BEGIN PURGING: 1330

END PURGING: 1419

TOTAL VOL. PURGED: 2.28 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba / Ramwell

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1341	1.22	7.07	2.05	11.3	0.00	0.30	8.4	-103	≈111 mL/min
1350	2.21	7.04	2.05	21.7	0.00	0.25	8.8	-99	≈111 mL/min
1400	3.32	7.05	2.06	7.6	0.00	0.15	8.6	-98	≈111 mL/min
1409	4.32	7.08	2.06	10.9	0.00	0.25	8.4	-96	≈111 mL/min
1414		Collect samples - 8260							
1419		Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] ~~HIGH DENSITY~~ POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

SIGNATURE:

NOTES

1342 DTW = 20.80'

1350 DTW = 20.79'

1403 DTW = 20.69'

1411 DTW = ~~21.80'~~ 20.90' RE

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 03/24/01

SITE ID: BR-08 | SITE TYPE: WELL

SITE ACTIVITY: START 1210 END 1325 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.01 FT	WELL DEPTH	≈ 73.0 FT	PID AMBIENT AIR	too wet PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	22.85 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	too wet PPM		
DRAWDOWN	2.84 FT	DRAWDOWN VOLUME	1.85 GAL	PRODUCT THICKNESS	FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE: ≈ 86 ML/MIN ≈ 0.086 L/min | BEGIN PURGING: 1220 | END PURGING: 1320 | TOTAL VOL. PURGED: 1.34 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Bailer | Dunn-well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1232	1.14	11.71	1.60	1.4	0.00	0.25	10.4	-245	≈ 95 mL/min
1240	1.83	11.68	1.61	0.8	0.00	0.35	9.9	-243	≈ 86 mL/min
1246	2.35	11.68	1.61	1.0	0.00	0.25	9.7	-244	≈ 86 mL/min
1255	3.12	11.68	1.60	0.9	0.00	0.25	9.9	-246	≈ 86 mL/min
1304	3.89	11.67	1.61	1.0	0.00	0.15	9.3	-245	≈ 86 mL/min
1313	4.66	11.67	1.61	1.2	0.00	0.25	9.2	-244	≈ 86 mL/min
1318		Collect samples - 8260							
1320		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

> note: most drawdown occured initialy, until flow rate was adjusted

NOTES

1232 DTW = 21.20'
1241 DTW = 21.42'
1246 DTW = 21.61'
1257 DTW = 21.65'
1305 DTW = 21.90'
1313 DTW = 22.25'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr Low Sampling Former Taylor Instruments | DATE: 03/24/01

SITE ID: BR-04 | SITE TYPE: WELL

SITE ACTIVITY: START 0952 END 1047 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☒ TOP OF PROTECTIVE CASING ☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	20.32 FT	WELL DEPTH	≈44.2 FT	PID AMBIENT AIR	too wet PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	20.45 FT	SCREEN LENGTH	Open boring FT	PID WELL MOUTH	too wet PPM	WELL INTEGRITY: CAP	YES ☐ NO ☒ N/A ☐
DRAWDOWN	0.13 FT	DRAWDOWN VOLUME	0.08 GAL	PRODUCT THICKNESS	— FT	CASING LOCKED	YES ☒ NO ☐ N/A ☐
						COLLAR	YES ☒ NO ☐ N/A ☐

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

PURGE RATE: ≈147 mL/MIN ≈0.147 L/min | BEGIN PURGING: 1000 | END PURGING: 1042 | TOTAL VOL. PURGED: 1.65 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L) Horiba	DISSOLVED O_2 (mg/L) Down-well	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1010	1.35	6.99	1.60	3.7	0.00	0.35	11.1	-78	≈135 mL/min
1017	2.38	7.07	1.60	2.8	0.00	0.35	11.6	-78	≈147 mL/min
1023	3.26	6.99	1.61	2.9	0.00	0.35	11.5	-82	≈147 mL/min
1029	~~3.14~~ 3.82	7.03	1.60	3.7	0.00	0.35	11.6	-84	≈147 mL/min
1036	5.17	7.06	1.60	4.1	0.00		11.6	-88	≈147 mL/min
1041		Collect sample — 8260							
1042		Stop purging							

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

7 Very close to EW-1S/EW-1D
Is this effecting our WL's?

SIGNATURE:

NOTES

1011 DTW = 20.42'
1018 DTW = 20.33'
1025 DTW = 20.43'
1030 DTW = 20.34'
1038 DTW = 20.35'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: TQH GW Sampling Former Taylor Instruments

DATE: 03/24/01

SITE ID: OB-04

SITE TYPE: WELL

SITE ACTIVITY: START 0835 END 0952

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER: 12.80' FT

WELL DEPTH: ≈17.5 FT

PID AMBIENT AIR: too wet PPM

WELL DIAMETER: 2 IN

FINAL DEPTH TO WATER: 13.91' FT

SCREEN LENGTH: 15 FT

PID WELL MOUTH: too wet PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP		X	
CASING	X		
LOCKED		X	
COLLAR	X		

DRAWDOWN: 1.11' FT

DRAWDOWN VOLUME: 0.18 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: ≈71 ML/MIN ≈ 0.079 L/min

BEGIN PURGING: 0847

END PURGING: 0949

TOTAL VOL. PURGED: 1.27 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
0900	1.08	7.94	0.623	15.4	10.44	6.00	6.6	62	≈83 mL/min
0910	1.79	7.83	0.607	7.0	10.37	6.00	6.6	41	≈ 71 mL/min
0920	2.58	7.87	0.595	5.2	10.24	6.00	6.7	20	≈ 79 mL/min
0928	3.21	7.96	0.591	6.0	10.25	5.75	7.2	26	≈ 79 mL/min
0935	3.76	7.94	0.595	6.2	10.30	6.00	7.0	32	≈ 79 mL/min
0942	4.31	7.96	0.595	7.4	10.27	6.00	7.3	31	≈ 79 mL/min
0947		Collect sample — 8260							
0949		Stop purging							

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

SIGNATURE:

NOTES

0902 DTW = 13.20'
0911 DTW = 13.52'
0922 DTW = 13.52'
0929 DTW = 13.62'
0936 DTW = 13.73'
0944 DTW = 13.82'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments | DATE: 03/23/01

SITE ID: TW-17 | SITE TYPE: WELL

SITE ACTIVITY: START 1450 END 1613 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	5.3 FT	WELL DEPTH	≈17.34 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	5.64 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.0 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	0.34 FT	DRAWDOWN VOLUME	0.05 GAL	PRODUCT THICKNESS	FT	CASING	YES X NO — N/A —
						LOCKED	YES X NO — N/A —
						COLLAR	YES X NO — N/A —

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

PURGE RATE: ≈104 mL/MIN ≈ 0.104 L/min | BEGIN PURGING: 1463 | END PURGING: 1606 | TOTAL VOL. PURGED: 1.97 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
1506	1.27 • 09	7.12	0.716	1.2	9.52	1.50	8.3	-7	≈ 98 mL/min
1520	2.84 • 20	6.88	0.713	1.6	8.78	1.25	8.0	9	≈ 117 mL/min
1535	4.50 • 21	6.91	0.718	1.5	8.63	1.25	8.0	16	≈ 111 mL/min
1545	5.54	6.91	0.716	2.2	8.75	1.25	7.5	15	≈ 104 mL/min
~~1600~~ 1550		Collect samples —		8260 + NA					
1606		Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE:

NOTES

12:50 DTW ≈ 5.3'

1509 DTW ≈ 5.35'

1528 DTW ≈ 5.43'

1539 DTW ≈ 5.38'

1546 DTW ≈ 5.37'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr GW Sampling, former Taylor Instruments | DATE: 03/23/01

SITE ID: BR-14 | SITE TYPE: WELL

SITE ACTIVITY: START 1150 END 1324 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] ~~TOP OF PROTECTIVE CASING~~ [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	17.3 FT	WELL DEPTH	≈75.0 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	19.2 FT	SCREEN LENGTH	open hole FT	PID WELL MOUTH	0.00 PPM	WELL INTEGRITY: CAP	YES X NO — N/A —
DRAWDOWN	1.9 FT	DRAWDOWN VOLUME	1.24 GAL	PRODUCT THICKNESS	— FT	CASING	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: ≈91 mL/MIN ≈.091 L/min | BEGIN PURGING: ~~1157~~ 1203 | END PURGING: 1313 | TOTAL VOL. PURGED: 1.66 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) Horiba (*)	DISSOLVED O_2 (mg/L) Rosa-well	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1211	1.00	10.04	1.76	7.6	0.00	1.60	11.6	-268	≈ 125 mL/min
1217	1.67	10.04	1.61	7.5	0.00	1.60	11.3	-254	≈ 111 mL/min
1223	2.22	10.00	1.56	7.4	0.00	1.60	11.3	-248	≈ 91 mL/min
1230	2.86	9.90	1.58	7.7	0.00	1.60	11.1	-253	≈ 91 mL/min
1237	~~2.56~~ RE	9.90	1.56	8.1	0.00	1.60	11.1	-253	≈ 91 mL/min
1243	~~2.64~~ 4.96	9.86	1.35	7.2	0.00	~~1.60~~ RE	11.2	-247	≈ 91 mL/min
									≈ 91 mL/min
1306		9.86	1.34	7.1	0.00	1.60	11.2	-244	
1309		Collect samples - 8260							
1313		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

(*) erroneous DO ?

→ purge water very black, sulfur odor

NOTES

1214 DTW = 18.07'

1218 DTW = 18.31'

1225 DTW = 18.55'

1232 DTW = 18.80'

1239 DTW = 18.92

1251 DTW = 18.95'

1317 DTW = 19.20'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments — DATE: 03/23/01

SITE ID: W-5 — SITE TYPE: WELL

SITE ACTIVITY: START 0934 END 1149 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	flush FT	PROTECTIVE CASING / WELL DIFFERENCE	4.5 FT		
INITIAL DEPTH TO WATER	5.45 FT	WELL DEPTH	21.65 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.37 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	1.92 FT	DRAWDOWN VOLUME	0.31 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈81 mL/MIN (0.081 L/min) — BEGIN PURGING: 1019 — END PURGING: 1144 — TOTAL VOL. PURGED: 1.79 GAL

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

PURGE DATA

Horiba U-22 Dan well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (*) (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1027	1.20	6.93	1.87	13.3	0.00	1.00	9.3	-69	≈150 mL/min
1042	2.87	6.86	1.85	11.1	0.00	1.00	9.2	-65	≈111 mL/min
1056	4.00	6.83	1.85	11.8	0.00	1.00	9.1	-62	≈81 mL/min
1108	4.97	6.87	1.84	8.5	0.00	1.00	9.5	-64	≈81 mL/min
1115	5.54	6.87	1.84	6.4	0.00	1.00	9.5	-65	≈81 mL/min
1121		Collect samples — 8260 + NA							
1144		Stop purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH-DENS~~ITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

(*) erroneous DO (2)

SIGNATURE:

NOTES

1028 DTW = 5.66'
1044 DTW = 7.24'
1057 DTW = 7.00'
1108 DTW ≈ 7.01'
1116 DTW ≈ 7.20'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 3/23/01

SITE ID: BR-07 | SITE TYPE: WELL

SITE ACTIVITY: START 0757 END 0928 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): 2.4 FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	23.57 FT	WELL DEPTH	≈54.69 FT	PID AMBIENT AIR	0.00 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	23.79 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.00 PPM		
DRAWDOWN	0.22 FT	DRAWDOWN VOLUME	0.143 GAL	PRODUCT THICKNESS	— FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP			X
CASING	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: ≈ 87 mL/MIN ≈ 0.087 L/min | BEGIN PURGING: 0817 | END PURGING: 0920 | TOTAL VOL. PURGED: 1.43 GAL

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

PURGE DATA

Horiba / Flow-Cell

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0835	1.13	7.16	4.88	7.5	0.00	0.25	8.6	-102	≈62.5
0845	1.82	7.17	4.87	2.3	0.00	0.25	9.3	-102	≈69
0855	2.58	7.21	4.89	1.9	0.00	0	9.0	-107	≈76
0903	3.28	7.24	4.88	1.5	0.00	0	9.8	-109	≈87
0913	4.15	7.24	4.86	1.7	0.00	0	10.2	-111	≈87
0918		Collect sample							
0920		End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

(*) erroneous DO ?

? some very black water - cleared up

SIGNATURE:

NOTES

0836 DTW = 23.90'
0846 DTW = 24.10'
0856 DTW = 23.82'
0904 DTW = 23.75'
0913 DTW = 23.80'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr. GW Sampling Former Taylor Instruments

DATE: 03/22/01

SITE ID: TW-04

SITE TYPE: WELL

SITE ACTIVITY: START 1438 END 1709

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): 2.6 FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.2 FT

INITIAL DEPTH TO WATER	5.34 FT	WELL DEPTH	20.66 FT	PID AMBIENT AIR	too wet PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.92 * see notes FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	too wet PPM	WELL INTEGRITY: CAP	YES X / NO — / N/A —
DRAWDOWN	3.58 FT	DRAWDOWN VOLUME	0.57 GAL	PRODUCT THICKNESS	— FT	CASING	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: ≈ 161 mL/MIN ≈ 0.161 L/min

BEGIN PURGING: 1539

END PURGING: 1656

TOTAL VOL. PURGED: 3.22 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) Hach	DISSOLVED O_2 (mg/L) Downhole	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments	
1601	1.69	7.39	1.02	4.6	0.00	0.25	4.6	-150	≈ 77 mL/min	6'30"
1609	Pump stopped purging (?)									
1609	Resume pumping					needle frozen				
1611	2.19	7.25	0.99	95.1	0.00	~~2.50~~ DE	6.9	-152	≈ 250 mL/min	2'00"
1619	3.48	7.24	1.01	34.0	0.00	0.12	6.6	-156	≈ 161 mL/min	3'06"
1627	4.77	7.26	1.00	23.1	0.00	0.12	6.7	-158	≈ 161 mL/min	3'05"
1636	6.22	7.29	1.01	9.9	0.00	0.12	6.7	-157	≈ 161 mL/min	3'08"
1639	6.70	Collect samples -	8260 and	NA						
1656		Stop purging								

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

- Strong sulphur smell
- Intermittent black flakes - very many, creates black water

* Most drawdown occured while trying to fix pump (when pump stopped pulling, so we bumped flow rate way up, then adjusted down to minimize drawdown)

(*) erroneous DO?

SIGNATURE:

NOTES

1602 DTW = 6.30'
1615 DTW = 7.23'
1623 DTW = 7.87'
1637 DTW = 8.61'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1Qtr. GW Sampling, Former Taylor Instruments | DATE: 03/22/01

SITE ID: BR-03 | SITE TYPE: WELL

SITE ACTIVITY: START 1300 END 1438 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	≈2.4 FT	PROTECTIVE CASING / WELL DIFFERENCE	– FT				
INITIAL DEPTH TO WATER	7.35 FT	WELL DEPTH	≈42.0 FT	PID AMBIENT AIR	too wet PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	8.45' FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	too wet PPM	WELL INTEGRITY: CAP / CASING / LOCKED / COLLAR	YES / NO / N/A
DRAWDOWN	1.15 FT	DRAWDOWN VOLUME	0.75 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	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
≈95 ml/MIN ≈0.095 L/min	1324	1428	1.46 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) (Horiba / Barrowell)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1337	1.24	7.69	1.43	6.7	0.00 / 1.75	5.4	-190	≈95 ml/min — 5'15"
1350	2.48	7.68	1.43	3.8	0.00 / 1.75	5.6	-194	≈95 ml/min — 5'18"
1359	3.34	7.70	1.44	3.5	0.00 / 1.75	5.7	-196	≈95 ml/min — 5'29"
1407	4.10	7.74	1.45	4.1	0.00 / 1.75	5.8	-198	≈95 ml/min — 5'18"
1417	5.05	7.76	1.45	2.3	0.00 / 1.75	5.9	-200	≈95 ml/min — 5'A"
1425		Collect Sample						
1428		End Purging						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

Red & Black flakes in sample

(*) erroneous DO ?

SIGNATURE:

NOTES

1342 DTW = 7.65' BTOC
1351 DTW = 7.89'
1400 DTW = 7.60'
1409 DTW = 8.25'
1417 DTW = 8.51'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling, Former Taylor Instruments | DATE: 3/22/01

SITE ID: BR-06 | SITE TYPE: WELL

SITE ACTIVITY: START 0845 END 1031 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT | PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	12.31 FT	WELL DEPTH	≈45.1 FT	PID AMBIENT AIR	Too wet PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	13.46 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	Too wet PPM	WELL INTEGRITY: CAP / CASING / LOCKED / COLLAR	YES / NO / N/A
DRAWDOWN	1.15 FT	DRAWDOWN VOLUME	0.75 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: ≈ 87 mL/MIN ≈ 0.087 L/min | BEGIN PURGING: 0921 | END PURGING: 1013 | TOTAL VOL. PURGED: 1.17 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	
0931	1.13	7.76	0.768	10.1	0.00	0.75	6.0	-201	≈113 mL/min	4'25"
0941	2.00	7.40	0.785	4.5	0.00	1.00	6.5	-152	≈ 87 mL/min	5'43"
0948	2.61	7.37	0.867	4.7	0.00	1.00	6.5	-143	≈ 87 mL/min	5'44"
0958	3.48	7.43	0.937	4.2	0.00	0.50	6.5	-140	≈ 87 mL/min	5'45"
1007	4.26	7.47	0.962	4.4	0.00	0.25	6.4	-138	≈ 87 mL/min	5'44"
1010	Collect sample BR-06									
1013	Stop purging									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] ~~HIGH DENSITY~~ POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

⊗ - erroneous DO?

SIGNATURE:

NOTES

0937 DTW = 12.73'
0942 DTW = 13.15'
0948 DTW = 13.40'
0959 DTW = 13.30'
1008 DTW = 13.50'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Last GW sampling, Former Taylor Instruments | DATE: 3/21/01, 3/22/01

SITE ID: W-4 | SITE TYPE: WELL

SITE ACTIVITY: START 0910 END 0832 - 03/22 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.90 FT	WELL DEPTH	28.66 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.88 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	— 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))

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

PURGE RATE: L/MIN | BEGIN PURGING: CE 3/21 ~~0728~~ 0930 | END PURGING: 3/22 0820 | TOTAL VOL. PURGED: 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) ⊗	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
3/21									
0943	1.08	7.05	1.24	1.2	0.00	0.75	8.4	37	≈ 83 mL/min
0949	1.58	7.05	1.24	0.7	0.00	0.75	8.5	41	≈ 83 mL/min
0959	2.27	7.14	1.24	0.9	1.85	0.50	8.6	32	≈ 69 mL/min
1021 –	Cannot get constant flow rate, and too much drawdown – purge well dry & come back to sample								
3/22									
0812		7.16	1.26	1.6	0.00	2.00	8.1	-71	≈ 125 mL/min
0818	Collect samples								
0820	Stop purging								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

0807 – 3/22 – Begin purging

⊗ – Erroneous DO ?

SIGNATURE:

NOTES

0944 DTW = 10.64'
0950 DTW = 11.18'
0959 DTW = 11.71'
1018 DTW = 12.2

3/22

0806 DTW = 8.52'
~~0818~~

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments

DATE: 03/21/01

SITE ID: EW-2-5

SITE TYPE: WELL

SITE ACTIVITY: START 1635 END 1820

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): - FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: 15.20 FT

WELL DEPTH: 19.29 FT

PID AMBIENT AIR: Too wet PPM

WELL DIAMETER: 4 IN

FINAL DEPTH TO WATER: FT

SCREEN LENGTH: 15 FT

PID WELL MOUTH: Too wet PPM

DRAWDOWN: 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})

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

PURGE RATE: L/MIN

BEGIN PURGING: 17:20

END PURGING: 1816

TOTAL VOL. PURGED: 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
		3.64	0.080	7.4	9.27	6.2	-56	
1745	Collect samples		- 8260	+ Nat. Attn. set				
1816	End purging							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

Heavy Rain

Only need 1 set parameters

NOTES

SIGNATURE: 5/21/01

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments — DATE: 3/21/01

SITE ID: BK-02 — SITE TYPE: WELL

SITE ACTIVITY: START 1514 END 1630 — JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	22.40 FT	WELL DEPTH	42.23 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	22.70 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.30 FT	DRAWDOWN VOLUME	0.048 GAL	PRODUCT THICKNESS	— FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP			X
CASING	X		
LOCKED			X
COLLAR	X		

PURGE RATE: ≈ 80 mL/MIN ≈ 0.08 L/min — BEGIN PURGING: 1530 — END PURGING: 1622 — TOTAL VOL PURGED: 1.16 GAL

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

PURGE DATA

Hach | Brand

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1541	1.16	7.21	1.08	25.8	0.00	0.25	10.6	-63	≈ 165 mL/min
1550	2.45	7.17	1.08	16.0	0.00	0.25	10.6	-63	≈ 80 mL/min
1606	3.31	7.14	1.08	8.7	0.00	0.25	10.6	-60	≈ 86 mL/min
1614	4.00	7.11	1.08	7.5	0.00	0.25	10.6	-57	≈ 82 mL/min
1618	collect sample BK-02								
1622	End purging								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [ ] OTHER

PURGE OBSERVATIONS

⊗ Erroneous DO ?

SIGNATURE:

NOTES

1542 DTW = 22.53
1557 DTW = 22.60
1606 DTW = 22.61
1615 DTW = 22.65

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments — DATE: 3/21/01

SITE ID: BR-01 — SITE TYPE: WELL

SITE ACTIVITY: START 1116 END 1236 — JOB NUMBER:

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: NA FT

INITIAL DEPTH TO WATER	14.57 FT	WELL DEPTH	38 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	14.61 FT	SCREEN LENGTH	open boring FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.10 FT	DRAWDOWN VOLUME	0.016 GAL	PRODUCT THICKNESS	FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

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

PURGE RATE: ≈133 mL/MIN (0.133 L/min) — BEGIN PURGING: 1144 — END PURGING: 1229 — TOTAL VOL. PURGED: 1.56 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) (X) Horiba	(X) Dan Hall	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1147	0.90	7.26	1.00	93.0	0.00	0.50	10.5	-118	≈133 mL/min
1153	1.20	7.27	0.99	46.6	0.00	0.50	10.5	-125	≈133 mL/min
1200	2.13	7.28	0.96	38.3	0.00	0.25	10.6	-130	≈133 mL/min
1206	2.93	7.27	0.96	31.6	0.00	0.25	10.6	-132	≈133 mL/min
1219	4.66	7.25	0.94	30.8	0.00	0.12	10.6	-134	≈133 mL/min
1224	Collect	sample	BR-01						
1225	Collect	sample	BR-01D	(Duplicate)					
1229	Stop purging								

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

(X) erroneous DO (?)

SIGNATURE:

NOTES

1148 DTW = 14.50' BTOC
1154 DTW = 14.59'
1158 DTW = 14.60'
1206 DTW = 14.61'
1219 DTW = 14.61'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments | DATE: 3/21/01

SITE ID: OB-06 | SITE TYPE: WELL

SITE ACTIVITY: START 0804 END 0908 | JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT

PROTECTIVE CASING / WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.93 FT	WELL DEPTH	16.32 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.66 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	0.0 PPM		
DRAWDOWN	0.73 FT	DRAWDOWN VOLUME	0.12 GAL	PRODUCT THICKNESS	FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE RATE: ≈ 104 mL/MIN (≈ 0.104 L/min) | BEGIN PURGING: 0815 | END PURGING: 0859 | TOTAL VOL PURGED: 1.19 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba | Rosemount

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
0819	[illegible] 0.42	7.55	0.796	2.2	11.63	1.75	6.9	142	≈ 104 mL/min
0826	[illegible] 1.15	7.50	0.793	2.4	11.51	1.50	6.9	148	≈ 104 mL/min
0831	1.67	7.50	0.791	2.5	11.51	1.50	6.9	150	≈ 104 mL/min
0836	2.19	7.48	0.795	1.9	11.36	1.50	6.7	151	≈ 104 mL/min
0841	2.71	7.48	0.792	2.2	11.15	1.50	6.8	149	≈ 104 mL/min
0850	3.65	7.51	0.797	1.8	10.89	1.50	6.9	150	≈ 104 mL/min
0853	Collect sample								
0859	Stop purging								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE:

NOTES

0822 DTW = 9.25'
0827 DTW = 9.28'
0832 DTW = 9.35'
0837 DTW = 9.30'
0842 DTW = 9.40'
0850 DTW = 9.40'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 qtr. GW Sampling, Former Taylor Instruments

DATE: 3/20/01

SITE ID: OB-08

SITE TYPE: WELL

SITE ACTIVITY: START 1630 END

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): flush FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	14.52 FT	WELL DEPTH	25 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	15.59 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	Let vent for long (0.0) PPM		
DRAWDOWN	1.07 FT	DRAWDOWN VOLUME	0.17 GAL	PRODUCT THICKNESS	— FT		

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

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED			
COLLAR	X		

PURGE RATE: ≈91 mL/MIN ≈0.091 L/min

BEGIN PURGING: 1709

END PURGING: 1749

TOTAL VOL. PURGED: 0.95 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
					Horiba	Panthil			
1713	0.67	7.30	1.21	32.4	1.54		11.6	-38	≈167 mL/min
1716	1.10	7.27	1.21	29.3	1.17	3.0	11.4	-18	≈143 mL/min
1723	1.88	7.12	1.20	21.3	0.65	2.4	11.1	5	≈111 mL/min
1729	2.43	7.12	1.20	10.4	0.00	2.0	11.0	22	≈91 mL/min
1735	2.98	7.09	1.20	8.0	0.00	2.0	10.9	23	≈91 mL/min
1742	3.62	7.10	1.20	7.7	0.00	1.9	10.9	28	≈91 mL/min
1745	Collect sample								
1749	End purging								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [x] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [ ] OTHER

PURGE OBSERVATIONS

* erroneous DO?

SIGNATURE:

NOTES

1714 DTW = 15.50'
1717 DTW = 15.58'
1724 DTW = 15.59'
1730 DTW = 15.59'
1736 DTW = 15.59'
1743 DTW = 15.59'

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: 1 Qtr GW Sampling Former Taylor Instruments

DATE: 3/20/01

SITE ID: TW-13

SITE TYPE: WELL

SITE ACTIVITY: START 1122 END 1538

JOB NUMBER:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

INITIAL DEPTH TO WATER	4.77 FT	WELL DEPTH	15.1 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	Flush FT
FINAL DEPTH TO WATER	5.30 FT	SCREEN LENGTH	5 FT	PID AMBIENT AIR	0.00 PPM
DRAWDOWN	0.53 FT	DRAWDOWN VOLUME	≈0.08 GAL	PID WELL MOUTH	0.00 PPM
				PRODUCT THICKNESS	FT
				PROTECTIVE CASING / WELL DIFFERENCE	FT
				WELL DIAMETER	2 IN

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	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: ≈75 mL/MIN ≈0.075 L/min

BEGIN PURGING: 1329

END PURGING: 1525

TOTAL VOL. PURGED: ≈2.26 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba / Davis Well

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1340	~~1.93~~ .69	3.38	0.00	35.7	13.60	2.25	15.8	105	≈ 63 mL/min
1348	~~1.29~~ 1.73	3.07	0.00	35.8	13.69	2.25	14.8	82	≈ 67 mL/min
1355	~~1.81~~ 1.83	3.04	0.00	35.9	13.74	2.25	14.1	112	≈ 86 mL/min
1411	3.03	3.39	0.00	36.1	13.54	1.60	13.8	21	≈ 75 mL/min
1425	4.08	7.26	1.13	10.8	9.88	1.60	12.9	107	≈ 75 mL/min
1433	4.68	7.26	1.06	13.9	10.02	1.40	12.9	115	≈ 75 mL/min
1441	5.28	7.19	0.91	7.7	10.00	1.40	12.9	116	≈ 75 mL/min
1450	5.95	7.29	1.13	3.9	10.30	1.30	13.4	116	≈ 74 mL/min
1458	6.54	7.33	1.12	1.4	10.12	1.10	13.2	115	≈ 74 mL/min
1501	Collect sample TW-13								
1513	Collect TW-13-MS, TW-13-MSD (Matrix Spike, Matrix Spike Dup)								

Note: various readings erroneous

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[ ] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	

PURGE OBSERVATIONS

SIGNATURE:

NOTES

13:39 DTW = 5.16'
13:49 DTW = 5.28'
14:00 DTW = 5.38'
14:25 DTW = 5.30'
14:34 DTW = 5.30'
14:43 DTW = 5.35'
14:50 DTW = 5.40'
14:58 DTW = 5.40'

APPENDIX D

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY

RZ0.4418

Page 1 of 1

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: [X] 21 Days [ ] 10 Days [ ] 5 Days [ ] 72 Hours [ ] 24 Hours [ ] Other ____

Lab Batch No.: | Lab SDG ID:

Seals Intact? [ ] YES [ ] NO | Cooler Temp.:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 295 5380
Project Name: Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 4489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY. 14609	

Special Handling Instructions:

Sampler Name: Tommie Monroe / Ronny Fields

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Total Containers
	W-2	W-2	10/21/00 1201	FS	GW	3	3
	TW-04	TW-04	10/24/00 1158	FS	GW	3	3
	TW-09	TW-09	10/24/00 1637	FS	GW	3	3
	TW-01	TW-01	10/24/00 1704	FS	GW	3	3
	W-6	W-6	10/24/00 1722	FS	GW	3	3
	TW-07	TW-07	10/25/00 1028	FS	GW	3	3
	TW-20	TW-20	10/25/00 1217	FS	GW	3	3
	QAFB01	QA	10/25/00 1550	FB	GW	3	3
	QARB01	QA	10/25/00 1600	EB	GW	3	3
	QATB01	QA	10/25/00 00:00	TB	GW	3	3

Preservative: HCL

Container Type: 40mL glass

Fraction[3]: T

Total 30

[1]Type: FS - Environmental Sample; FD - Field Duplicate; TB - Trip Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate; FB - Field Blank; PE - Performance Evaluation Blank; Other: ____

[2]Media: SOIL - Soil; GW - Groundwater; SED - Sediment; SW - Surface Water; SL - Sludge; AIR - Air; SV - Soil Vapor; WIPE - Wipe; LC - Leachate; TIS - Tissue; BW - Water (Blank); TW - Tap Water; FP - Free Product

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need lowest possible ~~detection~~ reporting limits for non-detected compounds.

Possible Hazard Identification: [ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [X] Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/25/00 1643		10/25/00 1643
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature) CAS	Date/Time 10-25-00 1643

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

CHAIN OF CUSTODY

R20-4418

Page 1 of 1

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other _____

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO. Cooler Temp:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 285 5380
Project Name: Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY 14609	
Special Handling Instructions:		
Sampler Name: R. Fields	Airbill No.:	

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCl	Container Type: 40 mL	Fraction[3]: T	Analysis Requested: 8260	Total Containers
	EW-S-4	EW-S-4	10/26/00 1619	FS	GW				3	3
	EW-S-3	EW-S-3	10/27/00 1005	FS	GW				3	3
	EW-S-5	EW-S-5	10/27/00 1136	FS	GW				3	3
	EW-S-6	EW-S-6	10/27/00 1302	FS	GW				3	3
	EW-S-8	EW-S-8	10/27/00 1400	FS	GW				3	3
			/							
			/							
			/							
			/							
			/							
			/							
			/							

QC Level IV

10/27/00

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: _____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need lowest possible reporting limits for non-detected compounds.

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	10/27/00 1650	Joni Janton	10/27/00 1615
		[signature]	10/27/00 1650		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames SI\Remediation Drilling\Field\blank forms\HLA_COC.ppt

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN CUSTODY

K204654

Page 1 1

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☒ Other Normal ☐ 72 Hours ☐ 24 Hours

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO	LABORATORY INFO
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical Phone: 716 285 5380
Project Name: Taylor Instr.	Laboratory Contact: Mike Perry Fax: 716 285 8475
Project Number / Task: 49489.3	Address: 1 Mustard St.
Purchase Order Number: 6599	City/State/Zip: Rochester, NY 14609
Special Handling Instructions:	
Sampler Name:	Airbill No.:

Preservative: HCl

Container Type: 40 mL VIAL

Fraction[3]: T

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Total Containers
	EW-S-2	EW-S-2	11/8/00 1139	FS	GW	3	3
	EW-S-7	EW-S-7	11/8/00 1245	FS	GW	3	3
	EW-S-9	EW-S-9	11/8/00 1348	FS	GW	3	3
	EW-S-12	EW-S-12	11/8/00 1640	FS	GW	3	3
	EW-S-11	EW-S-11	11/8/00 1742	FS	GW	3	3
	EW-S-10	EW-S-10	11/9/00 0920	FS	GW	3	3
	EW-S-13	EW-S-13	11/9/00 1020	FS	GW	3	3
	EW-S-14	EW-S-14	11/9/00 1128	FS	GW	3	3
	EW-S-15	EW-S-15	11/9/00 1535	FS	GW	3	3
	EW-S-16	EW-S-16	11/9/00 1633	FS	GW	3	3
			/				
			/				

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: _____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need lowest possible reporting limits for non detected compounds
RF

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			11/9/00 1700		11/9/00 1635
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

035

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

R20-4654

Page ____ of ____

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☒ Other Normal

Lab Batch No.: | Lab SDG ID:

Seals Intact? ☐ YES ☐ NO | Cooler Temp.:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 285 3380
Project Name: Former Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 44489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY. 14609	

Special Handling Instructions:

Sampler Name: | Airbill No.:

Preservative: HCL

Container Type: 40 ml Vial

Fraction[3]: T

Analysis Requested: 8260

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Total Containers
423607	EW-S-1S	EW-S-1S	11/10/00 0835	FS	GW	3
608	EW-S-1S (DUP)	EW-S-1S	11/10/00 0835	FD	GW	3
610	EW-S-1D	EW-S-1D	11/10/00 1000	FS	GW	3
617	EW-N-1	EW-N-1	11/10/00 1135	FS	GW	3
	EW-N-1 (MS)	EW-N-1	11/10/00 1135	MS	GW	3 (MATRIX SPIKE)
↓	EW-N-1 (MD)	EW-N-1	11/10/00 1135	MSD	GW	3 (MATRIX SPIKE DUPLICATE)
621	EW-N-2	EW-N-2	11/10/00 1443	FS	GW	3
622	EW-N-3	EW-N-3	11/10/00 1543	FS	GW	3
623	QAFB02	QA	11/10/00 1610	~~FB~~ EB	GW	3
624	QARB02	QA	11/10/00 1615	EB	GW	3
			/			
			/			

[1]Type:
FS - Environmental Sample
FD - Field Duplicate
TB - Trip Blank
EB - Equip. Rinsate Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
FB - Field Blank
PE - Performance Evaluation Blank
Other: _____

[2]Media:
SOIL - Soil
GW - Groundwater
SED - Sediment
SW - Surface Water
SL - Sludge
AIR - Air
SV - Soil Vapor
WIPE - Wipe
LC - Leachate
TIS - Tissue
BW - Water (Blank)
TW - Tap Water
FP - Free Product

[3]Fraction:
T - Total
D - Dissolved
S - SPLP
C - TCLP
N - Not Applicable

Comments: R2-4654

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/10/00 1650	Soni Lawton	11/10/00 16:50
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		CAL	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

11/10/00 1657

037

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

R20-4786

Page ____ of ____

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp: 4

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 288
Project Name: Former Taylor Instr. Site	Laboratory Contact: Mike Perry	Fax: 716 288
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY	
Special Handling Instructions:		
Sampler Name:	Airbill No.:	

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Preservative: HCl	Container Type: 40 mL glass	Fraction[3]: T	Total Containers
	EW-N-4	EW-N-4	11/11/00 / 0908	FS	GW	3				3
	EW-N-5	EW-N-5	11/11/00 / 1005	FS	GW	3				3
	EW-N-6	EW-N-6	11/11/00 / 1140	FS	GW	3				3
	TW-13	TW-13	11/16/00 / 0935	FS	GW	3				3
	W-5	W-5	11/16/00 / 1200	FS	GW	3				3
	OB-09	OB-09	11/16/00 / 1415	FS	GW	3				3
	OB-08	OB-08	11/16/00 / 1523	FS	GW	3				3
	OB-07	OB-07	11/16/00 / 1625	FS	GW	3				3
			/							
			/							
			/							
			/							

11/16/00

[1]Type:
FS - Environmental Sample; MSO - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	11/16/00 1654	Joni Lawson	11/16/00 16:54
		[signature]	11-16-00 16:54

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Ads\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

R20-4786

Page 1 of 1

Agreed Upon Turnaround Time: [X] 21 Days [ ] 10 Days [ ] 5 Days [ ] 72 Hours [ ] 24 Hours [ ] Other

Lab Batch No.:

Lab SDG ID:

Seals Intact? [ ] YES [ ] NO Cooler Temp:

PROJECT INFO

HLA Contact: Ronny Fields
Project Name: Former Taylor Instr. Site
Project Number / Task: 49489.3
Purchase Order Number: 6599
Special Handling Instructions:

LABORATORY INFO

Laboratory Name: Columbia Analytical
Laboratory Contact: Mike Perry
Address: 1 Mustard St.
City/State/Zip: Rochester, NY
Phone: 716 288-5380
Fax: 716 288-8475

Sampler Name:
Airbill No.:

Preservative: HCl
Container Type: 40 mL glass
Fraction[3]: T
Analysis Requested: 8260

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Total Containers	
	OB-06	OB-06	11/17/00 0840	FS	GW	3	3
	TW-17	TW-17	11/17/00 1037	FS	GW	3	3
	BR-01	BR-01	11/17/00 1127	FS	GW	3	3
	QATB02	QATB02	11/17/00 0000	FS	GW	3	3
	BR-06	BR-06	11/17/00 1508	FS	GW	3	3
	W-4	W-4	11/17/00 1536	FS	GW	3	3
	W-4 (MS)	W-4	11/17/00 1536	FS	GW	3	(Matrix spike) 3
	W-4 (MD)	W-4	11/17/00 1536	FS	GW	3	(Matrix spike duplicate) 3
	OB-06 (DUP)	OB-06	11/17/00 0840	FS	GW	3	(Duplicate) 3
			/				
			/				
			/				

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other:

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need the lowest possible reporting limits for non-detected compounds

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [X] Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			11/17/00 1622		11-17-00 1622
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
				CAS	11/17/00 16:22

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

1/98c

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

Page 1 of 1

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.: | Lab SDG ID:
Seals Intact? ☐ YES ☐ NO | Cooler Temp: ____

PROJECT INFO

HLA Contact: Ronny Fields
Project Name: Former Taylor Instr. site
Project Number / Task: 44489.3
Purchase Order Number: 6599
Special Handling Instructions:
Sampler Name:

LABORATORY INFO

Laboratory Name: Columbia Analytical Svcs. Phone: 716 288 5380
Laboratory Contact: Mike Perry Fax: 716 288 8475
Address: 1 Mustard St.
City/State/Zip: Rochester, NY 14609
Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Preservative: HCl	Container Type: 40ml glass	Fraction[3]: T	Total Containers
475477	BR-07	BR-07	11/18/00 / 0840	FS	GW	3				3
479	BR-03	BR-03	11/18/00 / 1043	FS	GW	3				3
481	BR-02	BR-02	11/18/00 / 1145	FS	GW	3				3
481	BR-11	BR-11	11/18/00 / 1322	FS	GW	3				3
485	BR-10	BR-10	11/18/00 / 1445	FS	GW	3				3
486	BR-17	BR-17	11/18/00 / 1550	FS	GW	3				3
487	BR-09	BR-09	11/18/00 / 1652	FS	GW	3				3
			/							
			/							
			/							
			/							
			/							

RF 11/20/00

[1]Type:
FS - Environmental Sample
MSD - Matrix Spike Duplicate
FD - Field Duplicate
FB - Field Blank
TB - Trip Blank
PE - Performance Evaluation Blank
EB - Equip. Rinseate Blank
MS - Matrix Spike
Other: ____

[2]Media:
SOIL - Soil
AIR - Air
BW - Water (Blank)
GW - Groundwater
SV - Soil Vapor
TW - Tap Water
SED - Sediment
WIPE - Wipe
FP - Free Product
SW - Surface Water
LC - Leachate
SL - Sludge
TIS - Tissue

[3]Fraction:
T - Total
D - Dissolved
S - SPLP
C - TCLP
N - Not Applicable

Comments: Need lowest possible reporting limits for non-detected compounds. RF

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant
☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	11/20/00 1607	[signature]	11/20/00 1607
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]		[signature]	11/20/00 16:07

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abt Arlen St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

1/207

CHAIN OF CUSTODY

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Page 1 of 1

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.: | Lab SDG ID: | Seals Intact? ☐ YES ☐ NO | Cooler Temp:

PROJECT INFO

HLA Contact: Ronny Fields
Project Name: Former Taylor Instr. Site
Project Number / Task: 49489.3
Purchase Order Number: 6594
Special Handling Instructions:

LABORATORY INFO

Laboratory Name: Columbia Analytical Svcs. | Phone: 716 288 5380
Laboratory Contact: Mike Perry | Fax: 716 288 8475
Address: 1 Mustard St.
City/State/Zip: Rochester, NY 14609

Sampler Name: R. Fields | Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCl	Container Type: 40 mL glass	Fraction[3]: T	Analysis Requested: 8260	Total Containers
425488	QATB03	QA	11/19/001 0000	TB	BW				3	3
489	QAFB03	QA	11/19/001 0910	FB	BW				3	3
490	QARB03	QA	11/19/001 0915	EB	BW				3	3
491	BR-13	BR-13	11/19/001 1020	FS	GW				3	3
↓	BR-13 (MS)	BR-13	11/19/001 1020	MS	GW				3	(MATRIX SPIKE) 3
↓	BR-13 (MD)	BR-13	11/19/001 1020	MSD	GW				3	(MATRIX SPIKE DUPLICATE) 3
492	BR-15	BR-15	11/19/001 1117	FS	GW				3	3
493	BR-15 (DUP)	BR-15	11/19/001 1117	FD	GW				3	(DUPLICATE) 3
494	BR-08	BR-08	11/19/001 1256	FS	GW				3	3
495	BR-14	BR-14	11/19/001 1410	FS	GW				3	3
496	BR-12	BR-12	11/19/001 1518	FS	GW				3	3
497	BR-16	BR-16	11/19/001 1654	FS	GW				3	3

Total = 36

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need lowest possible reporting limits for non-detected compounds.
RF

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	11/20/00 1607	[signature]	11/20/00 1607
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
				[signature]	11-20-00 1607

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Ab&Ayres St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

CHAIN OF CUSTODY

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Page 1 of 1

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.: | Lab SDG ID: | Seals Intact? ☐ YES ☐ NO | Cooler Temp: ____

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical Svcs	Phone: 716 288 5380
Project Name: Former Taylor Instr. Site	Laboratory Contact: Mike Perry	Fax: 716 288 8475
Project Number / Task: 49489.3	Address: 1 Mustard St. Ste 2	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY 14609	

Special Handling Instructions:

Sampler Name: R. Fields | Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Preservative: HCl	Container Type: 40mL glass	Fraction[3]: T	Total Containers
425500	OB-04	OB-04	11/19/00 / 1147	FS	GW	3				3
501	BR-04	BR-04	11/19/00 / 1045	FS	GW	3				3
504	BREW-S-1	BREW-S-1	11/19/00 / 1235	FS	GW	3				3
505	OB-05	OB-05	11/19/00 / 1418	FS	GW	3				3
506	BR-05	BR-05	11/19/00 / 1332	FS	GW	3				3
507	BREW-N-1	BREW-N-1	11/19/00 / 1520	FS	GW	3				3
			/							
			/							
			/							
			/							
			/							
			/							

JR Fields 11/20/00

18

[1]Type: FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media: SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need lowest possible reporting limits for non-detected target compounds, JR

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		JR Fields	11/20/00 1607		11-20-00 1607
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

MARCH (QUARTERLY)
CHAIN-OF-CUSTODY FORMS

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

121

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ VOA's ☐ METALS ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ Reac ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Nitrate, Sulfate, Chloride
TDC
Sulfide
Iron (II) Ferrous
Methane, Ethane, Ethene
CO_2, Alkalinity

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	TIME	MATRIX																						
QARB01		03/20/01	12:47	Water	3	3																				Rinsate
TW-13		03/20/01	15:01	Water	3	3																				
TW-13-MS		03/20/01	15:13	Water	3	3																				Matrix Spike
TW-13-MSD		03/20/01	15:14	Water	3	3																				Matrix Spike Duplicate
OB-08		03/20/01	17:45	Water	3	3																				
OB-06		03/21/01	08:53	Water	3	3																				
BR-01		03/21/01	12:24	Water	3	3																				
BR-01D		03/21/01	12:25	Water	3	3																				
BR-02		03/21/01	16:18	Water	3	3																				
EW-5-5		03/21/01	17:45	Water	12	3																		1	3	1	1	2	1	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See OAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: K21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name:	Printed Name: Gregory A. Emerson	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/22/01 11:20	Date/Time: 3/22/01 11:20	Date/Time:	Date/Time: 3-22-01 11:20	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 2 OF 2

SR # 1122

CAS Contact

Project Name: Former Taylor Instruments	Project Number:
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS	METALS ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
QATB01		03/22/01	00:00	Water	3	3											Trip Blank

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
_X_ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO# 6599
BILL TO:
SUBMISSION #: K1-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name:	Printed Name: Gregory Q. Emerson	Printed Name:	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm: CAS	Firm:	Firm:	Firm:
Date/Time: 03/22/01 11:20	Date/Time: 3/22/01 1120	Date/Time: 3-22-01 11:20	Date/Time:	Date/Time:	Date/Time:

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

124

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature: Robert A. Ellis	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS	☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO_2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
MW-4		03/22/01	09:18	Water	3	3																
BR-06		03/22/01	10:10	Water	3	3																
QAFB01		03/22/01	10:55	Water	3	3																Field Blank
BR-03		03/22/01	14:25	Water	3	3																
TW-04		03/22/01	16:39	Water	12	3										1	3	1	1	2	1	
QATB02		03/22/01	00:00	Water	3	3																Trip Blank

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
6599
PO#
BILL TO: Client
SUBMISSION #: 01-6272

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 1.5°C CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A. Ellis	Signature: Cindy Toomey	Signature: Gregory O. Emerson	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name: Gregory O. Emerson	Printed Name:	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm: CAS	Firm:	Firm:	Firm:
Date/Time: 03/22/01 17:33	Date/Time: 3/23/01 1510	Date/Time: 3/23/01 1510	Date/Time:	Date/Time:	Date/Time:

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE _____ OF _____

SR # 126
CAS Contact

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature: Robert A. Ellis	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO_2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
BR-07		03/23/01	09:18	Water	3	3																
W-5		03/23/01	11:21	Water	12	3										1	3	1	1	2	1	
BR-14		03/23/01	13:09	Water	3	3																
TW-17		03/23/01	15:50	Water	12	3										1	3	1	1	2	1	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
__X__ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: RL-6301

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A Ellis	Signature: Brian Collon	Signature	Signature	Signature	Signature
Printed Name: Robert A Ellis	Printed Name: Brian Collon	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Harding ESE	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3/24/00 11:15	Date/Time	Date/Time	Date/Time	Date/Time

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ VOAs ☐ METALS ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	TIME	MATRIX			REMARKS/ ALTERNATE DESCRIPTION
OB - 04		03/24/01	09:47	Water	3	3	
BR - 04		03/24/01	10:41	Water	3	3	
BR - 08		03/24/01	13:18	Water	3	3	
BR - 17		03/24/01	14:14	Water	3	3	
BR - 12		03/25/01	08:55	Water	3	3	
BR - 16		03/25/01	10:44	Water	3	3	
BR - 13		03/25/01	12:06	Water	3	3	
BR - 13 - MS		03/25/01	12:08	Water	3	3	Matrix Spike
BR - 13 - MSD		03/25/01	12:08	Water	3	3	Matrix Spike Duplicate
BR - 05		03/25/01	15:19	Water	3	3	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: R21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name	Printed Name: Gregory O. Emerson	Printed Name	Printed Name
Firm: Harding ESE	Firm: CAS	Firm	Firm: CAS	Firm	Firm
Date/Time: 03/26/01 16:15	Date/Time: 3/26/01 1615	Date/Time	Date/Time: 3-26-01 16:15	Date/Time	Date/Time

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 2 OF 2

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate	TCL	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
OB-09		03/26/01	11:37	Water	12	3										1	3	1	1	2	1	
BR-15		03/26/01	14:15	Water	3	3																
QAFB02		03/26/01	15:51	Water	3	3																
QARB02		03/26/01	15:54	Water	3	3																

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO# 6599
BILL TO:
SUBMISSION #: RI-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Cindy Toomey	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name:	Printed Name: Gregory D. Emerson	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/26/01 16:15	Date/Time: 3/26/01 1615	Date/Time:	Date/Time: 3-26-01 16:15	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE _____ OF _____

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Nitrate, Sulfate, Chloride
TOC
Sulfide
Iron (II) Ferrous
Methane, Ethane, Ethene
CO2, Alkalinity

131

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS																		REMARKS/ ALTERNATE DESCRIPTION
TW-20	450774	03/27/01	10:05	Water	12	3										1	3	1	1	2	1		
TW-09	775	03/27/01	12:37	Water	12	3										1	3	1	1	2	1		

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: A1-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: V Gardner	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: V Gardner	Printed Name:	Printed Name: Gregory C. Bmerian	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/28/01 07:20	Date/Time: 3/28/01 @ 0720	Date/Time:	Date/Time: 3-28-01 7:20	Date/Time:	Date/Time:

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Ferrous Iron (Fe)	Methane, Ethane, Ethene	CO2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
BR-09		03/28/01	09:40	Water	3	3																	
BR-10		03/28/01	11:03	Water	3	3																	
QATB03		03/28/01	00:00	Water	3	3																	Trip Blank
OB-01		03/28/01	15:23	Water	12	3										1	3	1	1	2	1		
BR-11		03/28/01	16:50	Water	3	3																	
BR-11D		03/28/01	16:51	Water	3	3																	Duplicate

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: R21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: J Gardner	Signature	Signature: Gregory O. Emerson	Signature	Signature
Printed Name: Robert A Ellis	Printed Name: CAS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Harding ESE	Firm: 3/29/01 @ 0730	Firm	Firm: CAS	Firm	Firm
Date/Time: 03/28/01 07:00	Date/Time	Date/Time	Date/Time: 3-29-01 7:30	Date/Time	Date/Time

SCOC-0101-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE _____ OF _____

SR # _____

CAS Contact _____

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager/Contact: Lonny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/ PCB's ☐8081 ☐608 ☐CLP ☐8082	STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP	STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐METALS ☐SVOA's ☐H/P	WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride, Iron (II) Ferrous Sulfide	Alkalinity, CO2	TOC	Ethane, Methane, Ethene	REMARKS/ ALTERNATE DESCRIPTION
TW-07		03/29/01	09:45	Water	11	3									1	1	1	3	2	
W-2		03/29/01	11:10	Water											1*		1			* only Chloride
OB-08		03/29/01	11:45	Water	8										1	1	1	3	2	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 4 CUSTODY SEALS: Y (N) Client

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A Ellis	Signature: Joni Janson	Signature: Bryan Callen	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Joni Janson	Printed Name: Bryan Callen	Printed Name:	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm: CAS	Firm:	Firm:	Firm:
Date/Time: 03/29/01 12:15	Date/Time: 3/29/01 14:30	Date/Time: 3/29/01 1430	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

APPENDIX E

LABORATORY REPORTS, GROUNDWATER SAMPLING EVENTS

BASELINE DATA PACKAGE

(October/November 2000)

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

November 17, 2000

COPY

Mr. Ronny Fields
Harding Lawson Associates
1400 Center Point Blvd.
Suite 158
Knoxville, TN 37932-1968

PROJECT:FORMER TAYLOR INSTUMENTS SITE
Submission #:R2004418

Dear Mr. Fields

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Michael Perry
Laboratory Director

Enc.

1 of 3

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Lab Submission # : R2004418
Reported : 11/17/00

Report Contains a total of 32 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

Columbia Analytical Services inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2004418

Lab ID	Client ID
418788	W-2
418789	TW-04
418790	TW-09
418791	TW-01
418792	W-6
418794	TW-07
418796	TW-20
418798	QAFB01
418800	QARB01
418801	QATB01
419782	EW-S-4
419783	EW-S-3
419784	EW-S-5
419785	EW-S-6
419786	EW-S-8

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
OH EPA # in Rochester:	VAP	AIHA # in Rochester:	7889

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : W-2

Date Sampled : 10/21/00 12:01 **Order #:** 418788 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/04/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 10/24/00 11:58 **Order #:** 418789 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/04/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	79	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	42	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	102	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 10/24/00 16:37 **Order #:** 418790 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/04/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	36	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	250 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 10/24/00 16:37 **Order #:** 418790 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/07/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	34	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	230	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-01

Date Sampled : 10/24/00 17:04 **Order #:** 418791 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : W-6

Date Sampled : 10/24/00 17:22 **Order #:** 418792 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/05/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	210 E	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : W-6

Date Sampled : 10/24/00 17:22 **Order #:** 418792 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/07/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	220	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	10 U	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-07

Date Sampled : 10/25/00 10:28 **Order #:** 418794 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/05/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	7.2	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	28	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	28	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : TW-20

Date Sampled : 10/25/00 12:17 **Order #:** 418796 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.2	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : QAFB01

Date Sampled : 10/25/00 15:50 **Order #:** 418798 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/05/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : QARB01

Date Sampled : 10/25/00 16:00 **Order #:** 418800 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : QATB01

Date Sampled : 10/25/00 : **Order #:** 418801 **Sample Matrix:** WATER
Date Received: 10/25/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-4

Date Sampled : 10/26/00 16:19 **Order #:** 419782 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 500.00			
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	2500 U	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	36000	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
FREON 113	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	60000	UG/L
VINYL CHLORIDE	1.0	500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-3

Date Sampled : 10/27/00 10:05 **Order #:** 419783 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	60	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	1100 E	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-3

Date Sampled : 10/27/00 10:05 **Order #:** 419783 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/07/00			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	62	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	1100	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-5

Date Sampled : 10/27/00 11:36 **Order #:** 419784 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 5000.00			
ACETONE	20	100000 U	UG/L
BENZENE	5.0	25000 U	UG/L
BROMODICHLOROMETHANE	5.0	25000 U	UG/L
BROMOFORM	5.0	25000 U	UG/L
BROMOMETHANE	5.0	25000 U	UG/L
2-BUTANONE (MEK)	10	50000 U	UG/L
CARBON DISULFIDE	10	50000 U	UG/L
CARBON TETRACHLORIDE	5.0	25000 U	UG/L
CHLOROBENZENE	5.0	25000 U	UG/L
CHLOROETHANE	5.0	25000 U	UG/L
CHLOROFORM	5.0	25000 U	UG/L
CHLOROMETHANE	5.0	25000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25000 U	UG/L
1,1-DICHLOROETHANE	5.0	25000 U	UG/L
1,2-DICHLOROETHANE	5.0	25000 U	UG/L
1,1-DICHLOROETHENE	5.0	25000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25000 U	UG/L
1,2-DICHLOROPROPANE	5.0	25000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25000 U	UG/L
ETHYLBENZENE	5.0	25000 U	UG/L
FREON 113	5.0	25000 U	UG/L
2-HEXANONE	10	50000 U	UG/L
METHYLENE CHLORIDE	5.0	25000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50000 U	UG/L
STYRENE	5.0	25000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25000 U	UG/L
TETRACHLOROETHENE	5.0	25000 U	UG/L
TOLUENE	5.0	25000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25000 U	UG/L
TRICHLOROETHENE	5.0	590000	UG/L
VINYL CHLORIDE	1.0	5000 U	UG/L
O-XYLENE	5.0	25000 U	UG/L
M+P-XYLENE	5.0	25000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-6

Date Sampled : 10/27/00 13:02 **Order #:** 419785 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 57895

DATE ANALYZED : 11/05/00
ANALYTICAL DILUTION: 100.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1200	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	13000	UG/L
VINYL CHLORIDE	1.0	100 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTUMENTS SITE
Client Sample ID : EW-S-8

Date Sampled : 10/27/00 14:00 **Order #:** 419786 **Sample Matrix:** WATER
Date Received: 10/27/00 **Submission #:** R2004418 **Analytical Run** 57895

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/05/00			
ANALYTICAL DILUTION: 5000.00			
ACETONE	20	100000 U	UG/L
BENZENE	5.0	25000 U	UG/L
BROMODICHLOROMETHANE	5.0	25000 U	UG/L
BROMOFORM	5.0	25000 U	UG/L
BROMOMETHANE	5.0	25000 U	UG/L
2-BUTANONE (MEK)	10	50000 U	UG/L
CARBON DISULFIDE	10	50000 U	UG/L
CARBON TETRACHLORIDE	5.0	25000 U	UG/L
CHLOROBENZENE	5.0	25000 U	UG/L
CHLOROETHANE	5.0	25000 U	UG/L
CHLOROFORM	5.0	25000 U	UG/L
CHLOROMETHANE	5.0	25000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25000 U	UG/L
1,1-DICHLOROETHANE	5.0	25000 U	UG/L
1,2-DICHLOROETHANE	5.0	25000 U	UG/L
1,1-DICHLOROETHENE	5.0	25000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25000 U	UG/L
1,2-DICHLOROPROPANE	5.0	25000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25000 U	UG/L
ETHYLBENZENE	5.0	25000 U	UG/L
FREON 113	5.0	25000 U	UG/L
2-HEXANONE	10	50000 U	UG/L
METHYLENE CHLORIDE	5.0	25000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50000 U	UG/L
STYRENE	5.0	25000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25000 U	UG/L
TETRACHLOROETHENE	5.0	25000 U	UG/L
TOLUENE	5.0	25000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25000 U	UG/L
TRICHLOROETHENE	5.0	570000	UG/L
VINYL CHLORIDE	1.0	5000 U	UG/L
O-XYLENE	5.0	25000 U	UG/L
M+P-XYLENE	5.0	25000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 418798 Harding Lawson Associates

Client ID: QAFB01

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 57895

			MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
BENZENE	50.0	0	47.0	94	47.0	94	0	11	76 - 127
CHLOROBENZENE	50.0	0	50.0	100	50.0	100	0	13	75 - 130
1,1-DICHLOROETHENE	50.0	0	54.0	108	54.0	108	0	14	61 - 145
TOLUENE	50.0	0	49.0	98	50.0	100	2	13	76 - 125
TRICHLOROETHENE	50.0	0	50.0	100	49.0	98	2	14	71 - 120

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 424734 ANALYTICAL RUN # : 57895

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/04/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	81	21 - 165
BENZENE	20.0	92	37 - 151
BROMODICHLOROMETHANE	20.0	96	35 - 155
BROMOFORM	20.0	91	45 - 169
BROMOMETHANE	20.0	87	10 - 242
2-BUTANONE (MEK)	20.0	89	25 - 162
CARBON DISULFIDE	20.0	79	45 - 148
CARBON TETRACHLORIDE	20.0	96	70 - 140
CHLOROBENZENE	20.0	97	37 - 160
CHLOROETHANE	20.0	97	53 - 149
CHLOROFORM	20.0	97	51 - 138
CHLOROMETHANE	20.0	84	10 - 273
DIBROMOCHLOROMETHANE	20.0	94	53 - 149
1,1-DICHLOROETHANE	20.0	102	59 - 155
1,2-DICHLOROETHANE	20.0	97	49 - 155
1,1-DICHLOROETHENE	20.0	104	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	92	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	101	54 - 156
1,2-DICHLOROPROPANE	20.0	88	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	95	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	94	17 - 183
ETHYLBENZENE	20.0	96	37 - 162
FREON 113	20.0	114	25 - 162
2-HEXANONE	20.0	87	22 - 155
METHYLENE CHLORIDE	20.0	95	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	92	46 - 157
STYRENE	20.0	95	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	88	46 - 157
TETRACHLOROETHENE	20.0	100	64 - 148
TOLUENE	20.0	94	47 - 150
1,1,1-TRICHLOROETHANE	20.0	95	52 - 162
1,1,2-TRICHLOROETHANE	20.0	90	52 - 150
TRICHLOROETHENE	20.0	92	71 - 157
VINYL CHLORIDE	20.0	89	10 - 251
O-XYLENE	20.0	94	71 - 135
M+P-XYLENE	40.0	95	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 424734 ANALYTICAL RUN # : 57895

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/04/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	81	21 - 165
BENZENE	20.0	92	37 - 151
BROMODICHLOROMETHANE	20.0	96	35 - 155
BROMOFORM	20.0	91	45 - 169
BROMOMETHANE	20.0	87	10 - 242
2-BUTANONE (MEK)	20.0	89	25 - 162
CARBON DISULFIDE	20.0	79	45 - 148
CARBON TETRACHLORIDE	20.0	96	70 - 140
CHLOROBENZENE	20.0	97	37 - 160
CHLOROETHANE	20.0	97	53 - 149
CHLOROFORM	20.0	97	51 - 138
CHLOROMETHANE	20.0	84	10 - 273
DIBROMOCHLOROMETHANE	20.0	94	53 - 149
,1-DICHLOROETHANE	20.0	102	59 - 155
1,2-DICHLOROETHANE	20.0	97	49 - 155
1,1-DICHLOROETHENE	20.0	104	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	92	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	101	54 - 156
1,2-DICHLOROPROPANE	20.0	88	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	95	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	94	17 - 183
ETHYLBENZENE	20.0	96	37 - 162
FREON 113	20.0	114	25 - 162
2-HEXANONE	20.0	87	22 - 155
METHYLENE CHLORIDE	20.0	95	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	92	46 - 157
STYRENE	20.0	95	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	88	46 - 157
TETRACHLOROETHENE	20.0	100	64 - 148
TOLUENE	20.0	94	47 - 150
1,1,1-TRICHLOROETHANE	20.0	95	52 - 162
1,1,2-TRICHLOROETHANE	20.0	90	52 - 150
TRICHLOROETHENE	20.0	92	71 - 157
VINYL CHLORIDE	20.0	89	10 - 251
O-XYLENE	20.0	94	71 - 135
M+P-XYLENE	40.0	95	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 424737 ANALYTICAL RUN # : 57895

DATE ANALYZED : 11/06/00
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	69	21 - 165
BENZENE	20.0	86	37 - 151
BROMODICHLOROMETHANE	20.0	92	35 - 155
BROMOFORM	20.0	96	45 - 169
BROMOMETHANE	20.0	59	10 - 242
2-BUTANONE (MEK)	20.0	76	25 - 162
CARBON DISULFIDE	20.0	82	45 - 148
CARBON TETRACHLORIDE	20.0	82	70 - 140
CHLOROBENZENE	20.0	92	37 - 160
CHLOROETHANE	20.0	84	53 - 149
CHLOROFORM	20.0	92	51 - 138
CHLOROMETHANE	20.0	73	10 - 273
DIBROMOCHLOROMETHANE	20.0	102	53 - 149
1,1-DICHLOROETHANE	20.0	95	59 - 155
1,2-DICHLOROETHANE	20.0	94	49 - 155
1,1-DICHLOROETHENE	20.0	87	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	92	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	89	54 - 156
1,2-DICHLOROPROPANE	20.0	88	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	92	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	102	17 - 183
ETHYLBENZENE	20.0	85	37 - 162
FREON 113	20.0	93	25 - 162
2-HEXANONE	20.0	72	22 - 155
METHYLENE CHLORIDE	20.0	93	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	75	46 - 157
STYRENE	20.0	91	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	92	46 - 157
TETRACHLOROETHENE	20.0	82	64 - 148
TOLUENE	20.0	86	47 - 150
1,1,1-TRICHLOROETHANE	20.0	83	52 - 162
1,1,2-TRICHLOROETHANE	20.0	98	52 - 150
TRICHLOROETHENE	20.0	84	71 - 157
VINYL CHLORIDE	20.0	77	10 - 251
O-XYLENE	20.0	89	71 - 135
M+P-XYLENE	40.0	87	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 424733 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 57895

DATE ANALYZED : 11/04/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 424735 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 57895

DATE ANALYZED : 11/05/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 11/17/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 424736 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 57895

DATE ANALYZED : 11/06/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

CHAIN OF CUSTODY

RZ0.4418

Page 1 of 1

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: [X] 21 Days [ ] 10 Days [ ] 5 Days [ ] 72 Hours [ ] 24 Hours [ ] Other

Lab Batch No.:

Lab SDG ID:

Seals Intact? [ ] YES [ ] NO

Cooler Temp:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 285 5380
Project Name: Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY. 14609	

Special Handling Instructions:

Sampler Name: Tommie Monroe / Ronny Fields

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCL	Container Type: 40mL glass	Fraction[3]: T	Analysis Requested: 8260	Total Containers
	W-2	W-2	10/21/00 1201	FS	GW				3	3
	TW-04	TW-04	10/24/00 1158	FS	GW				3	3
	TW-09	TW-09	10/24/00 1637	FS	GW				3	3
	TW-01	TW-01	10/24/00 1704	FS	GW				3	3
	W-6	W-6	10/24/00 1722	FS	GW				3	3
	TW-07	TW-07	10/25/00 1028	FS	GW				3	3
	TW-20	TW-20	10/25/00 1217	FS	GW				3	3
	QAFB01	QA	10/25/00 1550	FB	GW				3	3
	QARB01	QA	10/25/00 1600	EB	GW				3	3
	QATB01	QA	10/25/00 00:00	TB	GW				3	3
			/							
			/							

Total 30

[1]Type: FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other:

[2]Media: SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need lowest possible ~~detection~~ reporting limits for non-detected compounds.

Possible Hazard Identification: [ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/25/00 1643		10/25/00 1643
				CAS	10-25-00 1643

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abbott Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

DGU

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client HLA Submission Number R2-4418

Cooler received on 10/25/00 by: CJ COURIER: CAS UPS FEDEX CD&L (CLIENT)

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant air bubbles? YES (NO) N/A
5. Were (Ice) or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC,) CLIENT
7. Temperature of cooler(s) upon receipt: 3°C

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: _____

Thermometer ID: 101 (Temp Blank) Sample Bottle Cooler Temp. IR Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 10-26-00 by: JE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

CHAIN OF CUSTODY

R20-4418

Page 1 of 1

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 285 5380
Project Name: Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY 14609	
Special Handling Instructions:		
Sampler Name: R. Fields	Airbill No.:	

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Total Containers
	EW-S-4	EW-S-4	10/26/00 1619	FS	GW	3	3
	EW-S-3	EW-S-3	10/27/00 1005	FS	GW	3	3
	EW-S-5	EW-S-5	10/27/00 1136	FS	GW	3	3
	EW-S-6	EW-S-6	10/27/00 1302	FS	GW	3	3
	EW-S-8	EW-S-8	10/27/00 1400	FS	GW	3	3

Preservative: HCl

Container Type: 40 mL

Fraction[3]: T

[1]Type: FS - Environmental Sample; FD - Field Duplicate; TB - Trip Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate; FB - Field Blank; PE - Performence Evaluation Blank; Other: ____

[2]Media: SOIL - Soil; GW - Groundwater; SED - Sediment; SW - Surface Water; SL - Sludge; AIR - Air; SV - Soil Vapor; WIPE - Wipe; LC - Leachate; TIS - Tissue; BW - Water (Blank); TW - Tap Water; FP - Free Product

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need lowest possible reporting limits for non-detected compounds.

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/27/00 1650	Joni Janton	10/27/00 16:52
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/27/00 1650		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

021

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Hardin Submission Number 4418.

Cooler received on 10/27/00 by: MK COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?	YES ~~NO~~
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES NO
3.	Did all bottles arrive in good condition (unbroken)?	YES NO
4.	Did any VOA vials have significant air bubbles?	YES NO N/A
5.	Were **Ice** or **Ice packs** present?	YES NO
6.	Where did the bottles originate?	CAS/ROC, CLIENT
7.	Temperature of cooler(s) upon receipt:	3

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 10/27/00 1650

Thermometer ID: _____ Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 10/30/00 by: MK

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES NO
2.	Did all bottle labels and tags agree with custody papers?	YES NO
3.	Were correct containers used for the tests indicated?	YES NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	~~N/A~~

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

December 13, 2000

COPY

Mr. Ronny Fields
Harding Lawson Associates
1400 Center Point Blvd.
Suite 158
Knoxville, TN 37932-1968

PROJECT:FORMER TAYLOR INSTRUMENTS SITE
Submission #:R2004654

Dear Mr. Fields

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Michael Perry
Laboratory Director

Enc.

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

203

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Lab Submission # : R2004654
Reported : 12/13/00

Report Contains a total of 38 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

CASE NARRATIVE

COMPANY: Harding Lawson
Former Taylor Instruments Site - Ames Street
SUBMISSION #: R2004654

Samples were collected on 11/08/00 - 11/10/00 and received at CAS on 11/09/00 - 11/10/00 at cooler temperatures of 0.0 - 6.0 °C.

VOLATILE ORGANICS

Eighteen water samples were analyzed for TCL Volatiles plus Freon 113 by SW-846 method 8260B.

All Tuning criteria for BFB were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

All internal standard areas were within QC limits.

Matrix Spike/Matrix Spike Duplicate recoveries and the % RPD for sample EW-N-1 were all within QC limits. The Blank Spike recoveries were all acceptable.

The Laboratory Blanks associated with these analyses were free of contamination.

Several samples were reanalyzed at higher dilutions to bring target analytes within the calibration range of the method. Both dilutions were reported with target analytes over the calibration range flagged with an "E".

To help facilitate seeing lower detection limits, all detected compounds between the reported PQL and the statistical MDL have been flagged with a "J" as being estimated.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

Columbia Analytical Services Inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2004654

Lab ID	Client ID
423184	EW-S-2
423185	EW-S-7
423186	EW-S-9
423187	EW-S-12
423188	EW-S-11
423189	EW-S-10
423190	EW-S-13
423191	EW-S-14
423192	EW-S-15
423193	EW-S-16
423607	EW-S-1S
423608	EW-S-1S (DUP)
423610	EW-S-1D
423617	EW-N-1
423621	EW-N-2
423622	EW-N-3
423623	QAFB02 RF 4/24/01
423624	QARB02

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-2

Date Sampled : 11/08/00 11:39 **Order #:** 423184 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	370	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	2800 E	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	180	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	18	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	360	UG/L
VINYL CHLORIDE	1.0	4.5 J	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-2

Date Sampled : 11/08/00 11:39 **Order #:** 423184 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	2800	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	180	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	21 J	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	370	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-7

Date Sampled : 11/08/00 12:45 **Order #:** 423185 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 1000.00			
ACETONE	20	20000 U	UG/L
BENZENE	5.0	5000 U	UG/L
BROMODICHLOROMETHANE	5.0	5000 U	UG/L
BROMOFORM	5.0	5000 U	UG/L
BROMOMETHANE	5.0	5000 U	UG/L
2-BUTANONE (MEK)	10	10000 U	UG/L
CARBON DISULFIDE	10	10000 U	UG/L
CARBON TETRACHLORIDE	5.0	5000 U	UG/L
CHLOROBENZENE	5.0	5000 U	UG/L
CHLOROETHANE	5.0	5000 U	UG/L
CHLOROFORM	5.0	5000 U	UG/L
CHLOROMETHANE	5.0	5000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHANE	5.0	5000 U	UG/L
1,2-DICHLOROETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHENE	5.0	5000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1900 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
1,2-DICHLOROPROPANE	5.0	5000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
ETHYLBENZENE	5.0	5000 U	UG/L
FREON 113	5.0	5000 U	UG/L
2-HEXANONE	10	10000 U	UG/L
METHYLENE CHLORIDE	5.0	5000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/L
STYRENE	5.0	5000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/L
TETRACHLOROETHENE	5.0	5000 U	UG/L
TOLUENE	5.0	5000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/L
TRICHLOROETHENE	5.0	130000	UG/L
VINYL CHLORIDE	1.0	1000 U	UG/L
O-XYLENE	5.0	5000 U	UG/L
M+P-XYLENE	5.0	5000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-9

Date Sampled : 11/08/00 15:45 **Order #:** 423186 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 100.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	460 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	16000	UG/L
VINYL CHLORIDE	1.0	100 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-12

Date Sampled : 11/08/00 16:40 **Order #:** 423187 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 200.00			
ACETONE	20	4000 U	UG/L
BENZENE	5.0	1000 U	UG/L
BROMODICHLOROMETHANE	5.0	1000 U	UG/L
BROMOFORM	5.0	1000 U	UG/L
BROMOMETHANE	5.0	1000 U	UG/L
2-BUTANONE (MEK)	10	2000 U	UG/L
CARBON DISULFIDE	10	2000 U	UG/L
CARBON TETRACHLORIDE	5.0	1000 U	UG/L
CHLOROBENZENE	5.0	1000 U	UG/L
CHLOROETHANE	5.0	1000 U	UG/L
CHLOROFORM	5.0	1000 U	UG/L
CHLOROMETHANE	5.0	1000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHANE	5.0	1000 U	UG/L
1,2-DICHLOROETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHENE	5.0	1000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	630 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1000 U	UG/L
1,2-DICHLOROPROPANE	5.0	1000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
ETHYLBENZENE	5.0	1000 U	UG/L
FREON 113	5.0	1000 U	UG/L
2-HEXANONE	10	2000 U	UG/L
METHYLENE CHLORIDE	5.0	1000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2000 U	UG/L
STYRENE	5.0	1000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1000 U	UG/L
TETRACHLOROETHENE	5.0	1000 U	UG/L
TOLUENE	5.0	1000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1000 U	UG/L
TRICHLOROETHENE	5.0	30000	UG/L
VINYL CHLORIDE	1.0	200 U	UG/L
O-XYLENE	5.0	1000 U	UG/L
M+P-XYLENE	5.0	1000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-11

Date Sampled : 11/08/00 17:42 **Order #:** 423188 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 2500.00			
ACETONE	20	50000 U	UG/L
BENZENE	5.0	13000 U	UG/L
BROMODICHLOROMETHANE	5.0	13000 U	UG/L
BROMOFORM	5.0	13000 U	UG/L
BROMOMETHANE	5.0	13000 U	UG/L
2-BUTANONE (MEK)	10	25000 U	UG/L
CARBON DISULFIDE	10	25000 U	UG/L
CARBON TETRACHLORIDE	5.0	13000 U	UG/L
CHLOROBENZENE	5.0	13000 U	UG/L
CHLOROETHANE	5.0	13000 U	UG/L
CHLOROFORM	5.0	13000 U	UG/L
CHLOROMETHANE	5.0	13000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	13000 U	UG/L
1,1-DICHLOROETHANE	5.0	13000 U	UG/L
1,2-DICHLOROETHANE	5.0	13000 U	UG/L
1,1-DICHLOROETHENE	5.0	13000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	13000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13000 U	UG/L
1,2-DICHLOROPROPANE	5.0	13000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13000 U	UG/L
ETHYLBENZENE	5.0	13000 U	UG/L
FREON 113	5.0	13000 U	UG/L
2-HEXANONE	10	25000 U	UG/L
METHYLENE CHLORIDE	5.0	13000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25000 U	UG/L
STYRENE	5.0	13000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13000 U	UG/L
TETRACHLOROETHENE	5.0	13000 U	UG/L
TOLUENE	5.0	13000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	13000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	13000 U	UG/L
TRICHLOROETHENE	5.0	470000	UG/L
VINYL CHLORIDE	1.0	2500 U	UG/L
O-XYLENE	5.0	13000 U	UG/L
M+P-XYLENE	5.0	13000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-10

Date Sampled : 11/09/00 09:20 **Order #:** 423189 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	1700	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	108	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-13

Date Sampled : 11/09/00 10:20 **Order #:** 423190 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 50.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	83 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	7200	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-14

Date Sampled : 11/09/00 11:28 **Order #:** 423191 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	13	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	140	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	7.2	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	400 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	108	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-14

Date Sampled : 11/09/00 11:28 **Order #:** 423191 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	130	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	6.6 J	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	390	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-15

Date Sampled : 11/09/00 15:35 **Order #:** 423192 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	1.1 J	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	29	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1.2 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	620 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-15

Date Sampled : 11/09/00 15:35 **Order #:** 423192 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	26	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	600	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	100	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-16

Date Sampled : 11/09/00 16:33 **Order #:** 423193 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	22	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	450 E	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.8	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	630 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-16

Date Sampled : 11/09/00 16:33 **Order #:** 423193 **Sample Matrix:** WATER
Date Received: 11/09/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	430	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.2 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	630	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-1S

Date Sampled : 11/10/00 08:35 **Order #:** 423607 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	1000	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	16 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	160	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-1S (DUP)

Date Sampled : 11/10/00 08:35 **Order #:** 423608 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	1000	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	18 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	170	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-1D

Date Sampled : 11/10/00 10:00 **Order #:** 423610 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 1000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20000 U	UG/L
BENZENE	5.0	5000 U	UG/L
BROMODICHLOROMETHANE	5.0	5000 U	UG/L
BROMOFORM	5.0	5000 U	UG/L
BROMOMETHANE	5.0	5000 U	UG/L
2-BUTANONE (MEK)	10	10000 U	UG/L
CARBON DISULFIDE	10	10000 U	UG/L
CARBON TETRACHLORIDE	5.0	5000 U	UG/L
CHLOROBENZENE	5.0	5000 U	UG/L
CHLOROETHANE	5.0	5000 U	UG/L
CHLOROFORM	5.0	5000 U	UG/L
CHLOROMETHANE	5.0	5000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHANE	5.0	5000 U	UG/L
1,2-DICHLOROETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHENE	5.0	5000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	11000	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
1,2-DICHLOROPROPANE	5.0	5000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
ETHYLBENZENE	5.0	5000 U	UG/L
FREON 113	5.0	5000 U	UG/L
2-HEXANONE	10	10000 U	UG/L
METHYLENE CHLORIDE	5.0	5000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/L
STYRENE	5.0	5000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/L
TETRACHLOROETHENE	5.0	5000 U	UG/L
TOLUENE	5.0	5000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/L
TRICHLOROETHENE	5.0	200000	UG/L
VINYL CHLORIDE	1.0	1000 U	UG/L
O-XYLENE	5.0	5000 U	UG/L
M+P-XYLENE	5.0	5000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	115	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-1

Date Sampled : 11/10/00 11:35 **Order #:** 423617 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	93	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	28 J	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	13 J	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	2700 E	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	115	%

02

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-1

Date Sampled : 11/10/00 11:35 **Order #:** 423617 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/22/00			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	86 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	30 J	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
FREON 113	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	2400	UG/L
VINYL CHLORIDE	1.0	25 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	93	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-2

Date Sampled : 11/10/00 14:43 **Order #:** 423621 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1100	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	7200	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-3

Date Sampled : 11/10/00 15:43 **Order #:** 423622 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 100.00			
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	490 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	13000	UG/L
VINYL CHLORIDE	1.0	100 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	115	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QAFB012 5/1/01

Date Sampled : 11/10/00 16:10 **Order #:** 423623 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/22/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.4	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	23	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	103	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QARB02

Date Sampled : 11/10/00 16:15 **Order #:** 423624 **Sample Matrix:** WATER
Date Received: 11/10/00 **Submission #:** R2004654 **Analytical Run** 58674

DATE ANALYZED : 11/22/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	21	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	92	%

COLUMBIA

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 429930 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 58674

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	104	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 429942 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 58674

DATE ANALYZED : 11/14/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	100	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/13/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 429947 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 58674

DATE ANALYZED : 11/22/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	96	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 423617 Harding Lawson Associates

Client ID: EW-N-1

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 58674

			MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
BENZENE	1250	0	1300	104	1200	96	8	11	76 - 127
CHLOROBENZENE	1250	0	1300	104	1300	104	0	13	75 - 130
1,1-DICHLOROETHENE	1250	0	1400	112	1300	104	7	14	61 - 145
TOLUENE	1250	0	1300	104	1200	96	8	13	76 - 125
TRICHLOROETHENE	1250	2400	3700	104	3600	96	3	14	71 - 120

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 429933 ANALYTICAL RUN # : 58674

DATE ANALYZED : 11/13/00
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	75	21 - 165
BENZENE	20.0	88	37 - 151
BROMODICHLOROMETHANE	20.0	97	35 - 155
BROMOFORM	20.0	96	45 - 169
BROMOMETHANE	20.0	61	10 - 242
2-BUTANONE (MEK)	20.0	83	25 - 162
CARBON DISULFIDE	20.0	81	45 - 148
CARBON TETRACHLORIDE	20.0	104	70 - 140
CHLOROBENZENE	20.0	95	37 - 160
CHLOROETHANE	20.0	101	53 - 149
CHLOROFORM	20.0	97	51 - 138
CHLOROMETHANE	20.0	73	10 - 273
DIBROMOCHLOROMETHANE	20.0	99	53 - 149
1,1-DICHLOROETHANE	20.0	100	59 - 155
1,2-DICHLOROETHANE	20.0	100	49 - 155
1,1-DICHLOROETHENE	20.0	99	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	93	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	93	54 - 156
1,2-DICHLOROPROPANE	20.0	83	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	94	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	100	17 - 183
ETHYLBENZENE	20.0	94	37 - 162
FREON 113	20.0	112	25 - 162
2-HEXANONE	20.0	81	22 - 155
METHYLENE CHLORIDE	20.0	95	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	83	46 - 157
STYRENE	20.0	95	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	94	46 - 157
TETRACHLOROETHENE	20.0	98	64 - 148
TOLUENE	20.0	92	47 - 150
1,1,1-TRICHLOROETHANE	20.0	98	52 - 162
1,1,2-TRICHLOROETHANE	20.0	92	52 - 150
TRICHLOROETHENE	20.0	93	71 - 157
VINYL CHLORIDE	20.0	95	10 - 251
O-XYLENE	20.0	93	71 - 135
M+P-XYLENE	40.0	95	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 429943 ANALYTICAL RUN # : 58674

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/14/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	61	21 - 165
BENZENE	20.0	95	37 - 151
BROMODICHLOROMETHANE	20.0	105	35 - 155
BROMOFORM	20.0	97	45 - 169
BROMOMETHANE	20.0	78	10 - 242
2-BUTANONE (MEK)	20.0	74	25 - 162
CARBON DISULFIDE	20.0	70	45 - 148
CARBON TETRACHLORIDE	20.0	118	70 - 140
CHLOROBENZENE	20.0	99	37 - 160
CHLOROETHANE	20.0	111	53 - 149
CHLOROFORM	20.0	112	51 - 138
CHLOROMETHANE	20.0	76	10 - 273
DIBROMOCHLOROMETHANE	20.0	105	53 - 149
1,1-DICHLOROETHANE	20.0	110	59 - 155
1,2-DICHLOROETHANE	20.0	109	49 - 155
1,1-DICHLOROETHENE	20.0	109	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	98	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	105	54 - 156
1,2-DICHLOROPROPANE	20.0	92	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	100	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	101	17 - 183
ETHYLBENZENE	20.0	103	37 - 162
FREON 113	20.0	125	25 - 162
2-HEXANONE	20.0	85	22 - 155
METHYLENE CHLORIDE	20.0	98	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	80	46 - 157
STYRENE	20.0	98	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	93	46 - 157
TETRACHLOROETHENE	20.0	105	64 - 148
TOLUENE	20.0	98	47 - 150
1,1,1-TRICHLOROETHANE	20.0	113	52 - 162
1,1,2-TRICHLOROETHANE	20.0	96	52 - 150
TRICHLOROETHENE	20.0	101	71 - 157
VINYL CHLORIDE	20.0	103	10 - 251
O-XYLENE	20.0	95	71 - 135
M+P-XYLENE	40.0	101	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 429949 ANALYTICAL RUN # : 58674

DATE ANALYZED : 11/22/00
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	89	21 - 165
BENZENE	20.0	99	37 - 151
BROMODICHLOROMETHANE	20.0	100	35 - 155
BROMOFORM	20.0	97	45 - 169
BROMOMETHANE	20.0	105	10 - 242
2-BUTANONE (MEK)	20.0	82	25 - 162
CARBON DISULFIDE	20.0	80	45 - 148
CARBON TETRACHLORIDE	20.0	102	70 - 140
CHLOROBENZENE	20.0	97	37 - 160
CHLOROETHANE	20.0	105	53 - 149
CHLOROFORM	20.0	101	51 - 138
CHLOROMETHANE	20.0	87	10 - 273
DIBROMOCHLOROMETHANE	20.0	94	53 - 149
1,1-DICHLOROETHANE	20.0	103	59 - 155
1,2-DICHLOROETHANE	20.0	97	49 - 155
1,1-DICHLOROETHENE	20.0	111	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	96	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	106	54 - 156
1,2-DICHLOROPROPANE	20.0	92	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	99	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	97	17 - 183
ETHYLBENZENE	20.0	99	37 - 162
FREON 113	20.0	107	25 - 162
2-HEXANONE	20.0	84	22 - 155
METHYLENE CHLORIDE	20.0	98	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	87	46 - 157
STYRENE	20.0	99	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	93	46 - 157
TETRACHLOROETHENE	20.0	98	64 - 148
TOLUENE	20.0	91	47 - 150
1,1,1-TRICHLOROETHANE	20.0	95	52 - 162
1,1,2-TRICHLOROETHANE	20.0	93	52 - 150
TRICHLOROETHENE	20.0	103	71 - 157
VINYL CHLORIDE	20.0	96	10 - 251
O-XYLENE	20.0	99	71 - 135
M+P-XYLENE	40.0	101	71 - 135

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding L Submission Number R2-4654

Cooler received on 11/09/00 by: MMK COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?	(YES) NO				
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES) NO				
3.	Did all bottles arrive in good condition (unbroken)?	(YES) NO				
4.	Did any VOA vials have significant air bubbles?	YES (NO) N/A				
5.	Were **Ice** or **Ice packs** present?	(YES) NO				
6.	Where did the bottles originate?	(CAS/ROC), CLIENT				
7.	Temperature of cooler(s) upon receipt:	4	6			
	Is the temperature within 0° - 6° C?:	Yes ☑	Yes ☑	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐
	Date/Time Temperatures Taken:	11/09/00	1700	MMK		

Thermometer ID: _____ Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11/10/00 by: [signature]

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO	
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO	
3.	Were correct containers used for the tests indicated?	(YES) NO	
4.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

K204654

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☒ Other Normal ☐ 72 Hours ☐ 24 Hours

Lab Batch No.

Lab SDG ID

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO

HLA Contact: Ronny Fields
Project Name: Taylor Instr.
Project Number / Task: 49489.3
Purchase Order Number: 6599
Special Handling Instructions:

LABORATORY INFO

Laboratory Name: Columbia Analytical
Phone: 716 285 5380
Laboratory Contact: Mike Perry
Fax: 716 285 8475
Address: 1 Mustard St.
City/State/Zip: Rochester, NY 14609

Sampler Name:
Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCL	Container Type: 40 mL vial	Fraction[3]: T	Analysis Requested: 8260	Total Containers
	EW-S-2	EW-S-2	11/8/00 1139	FS	GW				3	3
	EW-S-7	EW-S-7	11/8/00 1245	FS	GW				3	3
	EW-S-9	EW-S-9	11/8/00 1548	FS	GW				3	3
	EW-S-12	EW-S-12	11/8/00 1640	FS	GW				3	3
	EW-S-11	EW-S-11	11/8/00 1742	FS	GW				3	3
	EW-S-10	EW-S-10	11/9/00 0920	FS	GW				3	3
	EW-S-13	EW-S-13	11/9/00 1020	FS	GW				3	3
	EW-S-14	EW-S-14	11/9/00 1128	FS	GW				3	3
	EW-S-15	EW-S-15	11/9/00 1535	FS	GW				3	3
	EW-S-16	EW-S-16	11/9/00 1633	FS	GW				3	3
			/							
			/							

[1]Type:
FS - Environmental Sample
FD - Field Duplicate
TB - Trip Blank
EB - Equip. Rinseate Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
FB - Field Blank
PE - Performance Evaluation Blank
Other:

[2]Media:
SOIL - Soil
GW - Groundwater
SED - Sediment
SW - Surface Water
SL - Sludge
AIR - Air
SV - Soil Vapor
WIPE - Wipe
LC - Leachate
TIS - Tissue
BW - Water (Blank)
TW - Tap Water
FP - Free Product

[3]Fraction:
T - Total
D - Dissolved
S - SPLP
C - TCLP
N - Not Applicable

Comments:
Need lowest possible reporting limits for non detected compounds
RF

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			11/9/00 1700		11/9/00 1635
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding-K Submission Number R2-4654

Cooler received on 11/10/00 by: [illegible] COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?	YES (NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?	(YES) NO
4.	Did any VOA vials have significant air bubbles?	YES (NO) N/A
5.	Were **Ice** or **Ice packs** present?	(YES) NO
6.	Where did the bottles originate?	(CAS/ROC), CLIENT
7.	Temperature of cooler(s) upon receipt:	0

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 11/10/00 1715

Thermometer ID: IR-6uM Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11/13/00 by: [illegible] JE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES NO
2.	Did all bottle labels and tags agree with custody papers?	YES NO
3.	Were correct containers used for the tests indicated?	YES NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

CHAIN OF CUSTODY

R20-4654

Page ____ of ____

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☒ Other Normal ☐ 72 Hours ☐ 24 Hours

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO Cooler Temp:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 285 3380
Project Name: Former Taylor Instr. Facility	Laboratory Contact: Mike Perry	Fax: 716 285 8475
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY. 14609	
Special Handling Instructions:		
Sampler Name:	Airbill No.:	

Preservative: HCL

Container Type: 40 ml Vial

Fraction[3]: T

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: R260	Total Containers
423607	EW-S-1S	EW-S-1S	11/10/00 0835	FS	GW	3	3
608	EW-S-1S (DUP)	EW-S-1S	11/10/00 0835	FD	GW	3	3
610	EW-S-1D	EW-S-1D	11/10/00 1000	FS	GW	3	3
617	EW-N-1	EW-N-1	11/10/00 1135	FS	GW	3	3
↓	EW-N-1 (MS)	EW-N-1	11/10/00 1135	MS	GW	3	3 (MATRIX SPIKE)
↓	EW-N-1 (MD)	EW-N-1	11/10/00 1135	MSD	GW	3	3 (MATRIX SPIKE DUPLICATE)
621	EW-N-2	EW-N-2	11/10/00 1443	FS	GW	3	3
622	EW-N-3	EW-N-3	11/10/00 1543	FS	GW	3	3
623	QAFB01	QA	11/10/00 1610	~~FB~~ EB	GW	3	3
624	QARB02	QA	11/10/00 1615	EB	GW	3	3
			/				
			/				

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performence Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:

R2-4654

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	11/10/00 1650	Soni Samson	11/10/00 1650
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature) CAS	Date/Time

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\blank forms\HLA_COC.ppt

037

4671

11/10/00 1650

Columbia Analytical Services, inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

December 29, 2000

COPY

Mr. Ronny Fields
Harding Lawson Associates
1400 Center Point Blvd.
Suite 158
Knoxville, TN 37932-1968

PROJECT:FORMER TAYLOR INSTRUMENTS SITE
Submission #:R2004786

Dear Mr. Fields

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Michael K. Perry
Laboratory Director

Enc.

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Lab Submission # : R2004786
Reported : 12/29/00

Report Contains a total of 77 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

01

CASE NARRATIVE

COMPANY: Harding Lawson
Former Taylor Instruments Site - Ames Street
SUBMISSION #: R2004786

Samples were collected on 11/11/00 - 11/20/00 and received at CAS on 11/16/00 - 11/20/00 at cooler temperatures of 2.0 - 3.0 °C.

VOLATILE ORGANICS

Thirty-eight water samples were analyzed for TCL Volatiles plus Freon 113 by SW-846 method 8260B.

All Tuning criteria for BFB were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

All internal standard areas were within QC limits.

Matrix Spike/Matrix Spike Duplicate recoveries and the % RPD for samples W-4 and BR-13 were all within QC limits. The Blank Spike recoveries were all acceptable.

The Laboratory Blanks associated with these analyses were free of contamination.

Several samples were reanalyzed at higher dilutions to bring target analytes within the calibration range of the method. Both dilutions were reported with target analytes over the calibration range flagged with an "E".

To help facilitate seeing lower detection limits, all detected compounds between the reported PQL and the statistical MDL have been flagged with a "J" as being estimated.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

Columbia Analytical Services, inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2004786

Lab ID	Client ID
424969	EW-N-4
424970	EW-N-5
424971	EW-N-6
424972	TW-13
424973	W-5
424974	OB-09
424976	OB-08
424977	OB-07
425115	OB-06
425117	OB-06 (DUP)
425118	TW-17
425119	BR-01
425121	QATB02
425122	BR-06
425123	W-4
425477	BR-07
425479	BR-03
425481	BR-02
425482	BR-11
425485	BR-10
425486	BR-17
425487	BR-09

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

Columbia Analytical Services inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2004786

Lab ID	Client ID
425488	QATB03
425489	QAFB03
425490	QARB03
425491	BR-13
425492	BR-15
425493	BR-15 (DUP)
425494	BR-08
425495	BR-14
425496	BR-12
425497	BR-16
425500	OB-04
425501	BR-04
425504	BREW-S-1
425505	OB-05
425506	BR-05
425507	BREW-N-1

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

Columbia Analytical Services inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-4

Date Sampled : 11/11/00 09:08 **Order #:** 424969 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/21/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	31	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	840	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	101	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-5

Date Sampled : 11/11/00 10:05 **Order #:** 424970 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/21/00
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	55	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	640	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	102	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-N-6

Date Sampled : 11/11/00 11:40 **Order #:** 424971 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/21/00
ANALYTICAL DILUTION: 50.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	130 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	6800	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	103	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-13

Date Sampled : 11/16/00 09:35 **Order #:** 424972 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/21/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	102	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-5

Date Sampled : 11/16/00 12:00 **Order #:** 424973 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	27	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	11	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	58	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	104	%
TOLUENE-D8	(88 - 110 %)	91	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	89	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-09

Date Sampled : 11/16/00 14:15 **Order #:** 424974 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/27/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	14	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	7.7	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	180	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	95	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 11/16/00 15:23 **Order #:** 424976 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/20/00
ANALYTICAL DILUTION: 200.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	4000 U	UG/L
BENZENE	5.0	1000 U	UG/L
BROMODICHLOROMETHANE	5.0	1000 U	UG/L
BROMOFORM	5.0	1000 U	UG/L
BROMOMETHANE	5.0	1000 U	UG/L
2-BUTANONE (MEK)	10	2000 U	UG/L
CARBON DISULFIDE	10	2000 U	UG/L
CARBON TETRACHLORIDE	5.0	1000 U	UG/L
CHLOROBENZENE	5.0	1000 U	UG/L
CHLOROETHANE	5.0	1000 U	UG/L
CHLOROFORM	5.0	1000 U	UG/L
CHLOROMETHANE	5.0	1000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHANE	5.0	1000 U	UG/L
1,2-DICHLOROETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHENE	5.0	1000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	390 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1000 U	UG/L
1,2-DICHLOROPROPANE	5.0	1000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
ETHYLBENZENE	5.0	1000 U	UG/L
FREON 113	5.0	1000 U	UG/L
2-HEXANONE	10	2000 U	UG/L
METHYLENE CHLORIDE	5.0	1000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2000 U	UG/L
STYRENE	5.0	1000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1000 U	UG/L
TETRACHLOROETHENE	5.0	1000 U	UG/L
TOLUENE	5.0	1000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1000 U	UG/L
TRICHLOROETHENE	5.0	40000	UG/L
VINYL CHLORIDE	1.0	200 U	UG/L
O-XYLENE	5.0	1000 U	UG/L
M+P-XYLENE	5.0	1000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	102	%
TOLUENE-D8	(88 - 110 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-07

Date Sampled : 11/16/00 16:25 **Order #:** 424977 **Sample Matrix:** WATER
Date Received: 11/16/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/30/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	7.2	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	54	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	90	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-06

Date Sampled : 11/17/00 08:40 **Order #:** 425115 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	60	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	2500 E	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-06

Date Sampled : 11/17/00 08:40 **Order #:** 425115 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 12/01/00
ANALYTICAL DILUTION: 20.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	54 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	2600	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	87	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-06 (DUP)

Date Sampled : 11/17/00 08:40 **Order #:** 425117 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 25.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	80 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
FREON 113	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	3300	UG/L
VINYL CHLORIDE	1.0	25 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-17

Date Sampled : 11/17/00 10:37 **Order #:** 425118 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	7.9 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	1000	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-01

Date Sampled : 11/17/00 11:37 **Order #:** 425119 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	520 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	4.3 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	180	UG/L
VINYL CHLORIDE	1.0	3.5 J	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-01

Date Sampled : 11/17/00 11:37 **Order #:** 425119 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	550	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	180	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	95	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QATB02

Date Sampled : 11/17/00 00:00 **Order #:** 425121 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-06

Date Sampled : 11/17/00 15:08 **Order #:** 425122 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-4

Date Sampled : 11/17/00 15:36 **Order #:** 425123 **Sample Matrix:** WATER
Date Received: 11/17/00 **Submission #:** R2004786 **Analytical Run** 59053

DATE ANALYZED : 11/28/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	2.2 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-07

Date Sampled : 11/18/00 08:40 **Order #:** 425477 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/27/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	6.4	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	29	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	7.4	UG/L
VINYL CHLORIDE	1.0	250 E	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	92	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	89	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-07

Date Sampled : 11/18/00 08:40 **Order #:** 425477 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	28	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	9.1 J	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	6.5 J	UG/L
VINYL CHLORIDE	1.0	220	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-03

Date Sampled : 11/18/00 10:43 **Order #:** 425479 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/27/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	2.2 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	99	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1.2 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	420 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-03

Date Sampled : 11/18/00 10:43 **Order #:** 425479 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/30/00
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	96	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	440	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	93	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-02

Date Sampled : 11/18/00 11:45 **Order #:** 425481 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	540	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	31 J	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	2300 E	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-02

Date Sampled : 11/18/00 11:45 **Order #:** 425481 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	440	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 J	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	1800	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-11

Date Sampled : 11/18/00 13:22 **Order #:** 425482 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/27/00
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	320	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	52	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	1400	UG/L
VINYL CHLORIDE	1.0	13 J	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	101	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	95	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-10

Date Sampled : 11/18/00 14:45 **Order #:** 425485 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	450	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	27 J	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	4000	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	102	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	87	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-17

Date Sampled : 11/18/00 15:50 **Order #:** 425486 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	3.6 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	160	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	84	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	880 E	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-17

Date Sampled : 11/18/00 15:50 **Order #:** 425486 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	150	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	78	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	840	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-09

Date Sampled : 11/18/00 16:52 **Order #:** 425487 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	190 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	12000 E	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-09

Date Sampled : 11/18/00 16:52 **Order #:** 425487 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 100.00			
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	170 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	13000	UG/L
VINYL CHLORIDE	1.0	100 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QATB03

Date Sampled : 11/19/00 00:00 **Order #:** 425488 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QAFB03

Date Sampled : 11/19/00 09:10 **Order #:** 425489 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	4.5 J	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	100	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QARB03

Date Sampled : 11/19/00 09:15 **Order #:** 425490 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/30/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	3.9 J	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-13

Date Sampled : 11/19/00 10:20 **Order #:** 425491 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	2.5 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	93	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-15

Date Sampled : 11/19/00 11:17 **Order #:** 425492 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	54 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	2700	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	100	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-15 (DUP)

Date Sampled : 11/19/00 11:17 **Order #:** 425493 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	49 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
FREON 113	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	2700	UG/L
VINYL CHLORIDE	1.0	25 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	96	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-08

Date Sampled : 11/19/00 12:56 **Order #:** 425494 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	44	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.2 J	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	540	UG/L
VINYL CHLORIDE	1.0	7.0 J	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	92	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-14

Date Sampled : 11/19/00 14:10 **Order #:** 425495 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1.2 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	22	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-12

Date Sampled : 11/19/00 15:18 **Order #:** 425496 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/30/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	8.1	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	200	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-16

Date Sampled : 11/19/00 16:54 **Order #:** 425497 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

DATE ANALYZED : 11/28/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	3.8 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	6.0	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-04

Date Sampled : 11/19/00 11:47 **Order #:** 425500 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

DATE ANALYZED : 11/28/00
ANALYTICAL DILUTION: 500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	2500 U	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2900	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
FREON 113	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	70000	UG/L
VINYL CHLORIDE	1.0	500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-04

Date Sampled : 11/19/00 10:45 **Order #:** 425501 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	17 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	600	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	140	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	9000 E	UG/L
VINYL CHLORIDE	1.0	25 J	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-04

Date Sampled : 11/19/00 10:45 **Order #:** 425501 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59053

DATE ANALYZED : 11/30/00
ANALYTICAL DILUTION: 100.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	520	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	140 J	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	10000	UG/L
VINYL CHLORIDE	1.0	100 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BREW-S-1

Date Sampled : 11/19/00 12:35 **Order #:** 425504 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	120	UG/L
CARBON DISULFIDE	10	20	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	140	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	3.1 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	240 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BREW-S-1

Date Sampled : 11/19/00 12:35 **Order #:** 425504 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/28/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	130	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	150	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	250	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-05

Date Sampled : 11/19/00 14:18 **Order #:** 425505 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/00			
ANALYTICAL DILUTION: 100.00			
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	500 U	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	4600	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
FREON 113	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	24000 E	UG/L
VINYL CHLORIDE	1.0	350 J	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-05

Date Sampled : 11/19/00 14:18 **Order #:** 425505 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 200.00			
ACETONE	20	4000 U	UG/L
BENZENE	5.0	1000 U	UG/L
BROMODICHLOROMETHANE	5.0	1000 U	UG/L
BROMOFORM	5.0	1000 U	UG/L
BROMOMETHANE	5.0	1000 U	UG/L
2-BUTANONE (MEK)	10	2000 U	UG/L
CARBON DISULFIDE	10	2000 U	UG/L
CARBON TETRACHLORIDE	5.0	1000 U	UG/L
CHLOROBENZENE	5.0	1000 U	UG/L
CHLOROETHANE	5.0	1000 U	UG/L
CHLOROFORM	5.0	1000 U	UG/L
CHLOROMETHANE	5.0	1000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHANE	5.0	1000 U	UG/L
1,2-DICHLOROETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHENE	5.0	1000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	4200	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1000 U	UG/L
1,2-DICHLOROPROPANE	5.0	1000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
ETHYLBENZENE	5.0	1000 U	UG/L
FREON 113	5.0	1000 U	UG/L
2-HEXANONE	10	2000 U	UG/L
METHYLENE CHLORIDE	5.0	1000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2000 U	UG/L
STYRENE	5.0	1000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1000 U	UG/L
TETRACHLOROETHENE	5.0	1000 U	UG/L
TOLUENE	5.0	1000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1000 U	UG/L
TRICHLOROETHENE	5.0	25000	UG/L
VINYL CHLORIDE	1.0	310 J	UG/L
O-XYLENE	5.0	1000 U	UG/L
M+P-XYLENE	5.0	1000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	93	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-05

Date Sampled : 11/19/00 13:28 **Order #:** 425506 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1200	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	4200 E	UG/L
VINYL CHLORIDE	1.0	160	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-05

Date Sampled : 11/19/00 13:28 **Order #:** 425506 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1200	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
FREON 113	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	4800	UG/L
VINYL CHLORIDE	1.0	170	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BREW-N-1

Date Sampled : 11/19/00 15:20 **Order #:** 425507 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	47	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	53	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1.5 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	810 E	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Harding Lawson Associates
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BREW-N-1

Date Sampled : 11/19/00 15:20 **Order #:** 425507 **Sample Matrix:** WATER
Date Received: 11/20/00 **Submission #:** R2004786 **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	9.8 J	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	51	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	1000	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	95	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432087 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

DATE ANALYZED : 11/20/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	96	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432091 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

DATE ANALYZED : 11/27/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432288 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

DATE ANALYZED : 11/29/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432106 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432111 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	96	%

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432114 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59000

DATE ANALYZED : 12/01/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

VOLATILE ORGANICS
METHOD 8021B
Reported: 12/29/00

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 432093 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 59001

DATE ANALYZED : 12/19/00
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
BENZENE	2.0	2.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	2.0	2.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	2.0	2.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
2-CHLOROETHYLVINYL ETHER	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,3-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,4-DICHLOROBENZENE	2.0	2.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	2.0	2.0 U	UG/L
ETHYLBENZENE	2.0	2.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	2.0	2.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	2.0	2.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	2.0	2.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
VINYL CHLORIDE	2.0	2.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
BROMOCHLOROMETHANE	(60 - 138 %)	94	%
CHLOROFLUOROBENZENE	(60 - 121 %)	87	%
CHLOROFLUOROBENZENE (PID)	(60 - 128 %)	95	%

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 425123 Harding Lawson Associates

Client ID: W-4

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 59053

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
BENZENE	50.0	0	54.0	108	49.0	98	10	11	76 - 127
CHLOROBENZENE	50.0	0	52.0	104	49.0	98	6	13	75 - 130
1,1-DICHLOROETHENE	50.0	0	61.0	122	58.0	116	5	14	61 - 145
TOLUENE	50.0	0	52.0	104	50.0	100	4	13	76 - 125
TRICHLOROETHENE	50.0	2.20	56.0	108	50.0	96	11	14	71 - 120

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 425491 Harding Lawson Associates

Client ID: BR-13

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 59000

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
BENZENE	50.0	0	47.0	94	49.0	98	4	11	76 - 127
CHLOROBENZENE	50.0	0	46.0	92	48.0	96	4	13	75 - 130
1,1-DICHLOROETHENE	50.0	0	53.0	106	55.0	110	4	14	61 - 145
TOLUENE	50.0	0	46.0	92	49.0	98	6	13	76 - 125
TRICHLOROETHENE	50.0	2.50	48.0	91	51.0	97	6	14	71 - 120

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 432088 ANALYTICAL RUN # : 59000

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/20/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	66	21 - 165
BENZENE	20.0	109	37 - 151
BROMODICHLOROMETHANE	20.0	105	35 - 155
BROMOFORM	20.0	100	45 - 169
BROMOMETHANE	20.0	88	10 - 242
2-BUTANONE (MEK)	20.0	95	25 - 162
CARBON DISULFIDE	20.0	92	45 - 148
CARBON TETRACHLORIDE	20.0	105	70 - 140
CHLOROBENZENE	20.0	107	37 - 160
CHLOROETHANE	20.0	111	53 - 149
CHLOROFORM	20.0	101	51 - 138
CHLOROMETHANE	20.0	115	10 - 273
DIBROMOCHLOROMETHANE	20.0	107	53 - 149
1,1-DICHLOROETHANE	20.0	96	59 - 155
1,2-DICHLOROETHANE	20.0	104	49 - 155
1,1-DICHLOROETHENE	20.0	99	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	102	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	98	54 - 156
1,2-DICHLOROPROPANE	20.0	101	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	103	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	106	17 - 183
ETHYLBENZENE	20.0	110	37 - 162
FREON 113	20.0	106	25 - 162
2-HEXANONE	20.0	110	22 - 155
METHYLENE CHLORIDE	20.0	98	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	110	46 - 157
STYRENE	20.0	124	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	109	46 - 157
TETRACHLOROETHENE	20.0	115	64 - 148
TOLUENE	20.0	108	47 - 150
1,1,1-TRICHLOROETHANE	20.0	107	52 - 162
1,1,2-TRICHLOROETHANE	20.0	100	52 - 150
TRICHLOROETHENE	20.0	103	71 - 157
VINYL CHLORIDE	20.0	112	10 - 251
O-XYLENE	20.0	111	71 - 135
M+P-XYLENE	40.0	107	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 432092 ANALYTICAL RUN # : 59000

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/27/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	61	21 - 165
BENZENE	20.0	97	37 - 151
BROMODICHLOROMETHANE	20.0	95	35 - 155
BROMOFORM	20.0	95	45 - 169
BROMOMETHANE	20.0	131	10 - 242
2-BUTANONE (MEK)	20.0	68	25 - 162
CARBON DISULFIDE	20.0	85	45 - 148
CARBON TETRACHLORIDE	20.0	105	70 - 140
CHLOROBENZENE	20.0	97	37 - 160
CHLOROETHANE	20.0	94	53 - 149
CHLOROFORM	20.0	89	51 - 138
CHLOROMETHANE	20.0	89	10 - 273
DIBROMOCHLOROMETHANE	20.0	91	53 - 149
1,1-DICHLOROETHANE	20.0	86	59 - 155
1,2-DICHLOROETHANE	20.0	87	49 - 155
1,1-DICHLOROETHENE	20.0	99	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	94	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	101	54 - 156
1,2-DICHLOROPROPANE	20.0	89	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	89	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	92	17 - 183
ETHYLBENZENE	20.0	100	37 - 162
FREON 113	20.0	112	25 - 162
2-HEXANONE	20.0	68	22 - 155
METHYLENE CHLORIDE	20.0	90	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	71	46 - 157
STYRENE	20.0	100	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	86	46 - 157
TETRACHLOROETHENE	20.0	110	64 - 148
TOLUENE	20.0	96	47 - 150
1,1,1-TRICHLOROETHANE	20.0	98	52 - 162
1,1,2-TRICHLOROETHANE	20.0	91	52 - 150
TRICHLOROETHENE	20.0	97	71 - 157
VINYL CHLORIDE	20.0	94	10 - 251
O-XYLENE	20.0	102	71 - 135
M+P-XYLENE	40.0	104	71 - 135

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 432289 ANALYTICAL RUN # : 59000

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/29/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	76	21 - 165
BENZENE	20.0	83	37 - 151
BROMODICHLOROMETHANE	20.0	80	35 - 155
BROMOFORM	20.0	83	45 - 169
BROMOMETHANE	20.0	124	10 - 242
2-BUTANONE (MEK)	20.0	82	25 - 162
CARBON DISULFIDE	20.0	95	45 - 148
CARBON TETRACHLORIDE	20.0	78	70 - 140
CHLOROBENZENE	20.0	88	37 - 160
CHLOROETHANE	20.0	79	53 - 149
CHLOROFORM	20.0	77	51 - 138
CHLOROMETHANE	20.0	77	10 - 273
DIBROMOCHLOROMETHANE	20.0	86	53 - 149
1,1-DICHLOROETHANE	20.0	79	59 - 155
1,2-DICHLOROETHANE	20.0	83	49 - 155
1,1-DICHLOROETHENE	20.0	81	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	81	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	82	54 - 156
1,2-DICHLOROPROPANE	20.0	78	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	84	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	85	17 - 183
ETHYLBENZENE	20.0	84	37 - 162
FREON 113	20.0	92	25 - 162
2-HEXANONE	20.0	82	22 - 155
METHYLENE CHLORIDE	20.0	82	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	82	46 - 157
STYRENE	20.0	92	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	88	46 - 157
TETRACHLOROETHENE	20.0	89	64 - 148
TOLUENE	20.0	83	47 - 150
1,1,1-TRICHLOROETHANE	20.0	76	52 - 162
1,1,2-TRICHLOROETHANE	20.0	92	52 - 150
TRICHLOROETHENE	20.0	81	71 - 157
VINYL CHLORIDE	20.0	74	10 - 251
O-XYLENE	20.0	89	71 - 135
M+P-XYLENE	40.0	90	71 - 135

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 432112 ANALYTICAL RUN # : 59000

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/30/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	66	21 - 165
BENZENE	20.0	96	37 - 151
BROMODICHLOROMETHANE	20.0	94	35 - 155
BROMOFORM	20.0	88	45 - 169
BROMOMETHANE	20.0	129	10 - 242
2-BUTANONE (MEK)	20.0	75	25 - 162
CARBON DISULFIDE	20.0	87	45 - 148
CARBON TETRACHLORIDE	20.0	94	70 - 140
CHLOROBENZENE	20.0	102	37 - 160
CHLOROETHANE	20.0	95	53 - 149
CHLOROFORM	20.0	91	51 - 138
CHLOROMETHANE	20.0	100	10 - 273
DIBROMOCHLOROMETHANE	20.0	90	53 - 149
1,1-DICHLOROETHANE	20.0	96	59 - 155
,2-DICHLOROETHANE	20.0	88	49 - 155
1,1-DICHLOROETHENE	20.0	105	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	94	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	102	54 - 156
1,2-DICHLOROPROPANE	20.0	89	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	94	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	93	17 - 183
ETHYLBENZENE	20.0	99	37 - 162
FREON 113	20.0	117	25 - 162
2-HEXANONE	20.0	79	22 - 155
METHYLENE CHLORIDE	20.0	95	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	79	46 - 157
STYRENE	20.0	102	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	91	46 - 157
TETRACHLOROETHENE	20.0	106	64 - 148
TOLUENE	20.0	99	47 - 150
1,1,1-TRICHLOROETHANE	20.0	91	52 - 162
1,1,2-TRICHLOROETHANE	20.0	94	52 - 150
TRICHLOROETHENE	20.0	99	71 - 157
VINYL CHLORIDE	20.0	92	10 - 251
O-XYLENE	20.0	104	71 - 135
M+P-XYLENE	40.0	104	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 432115 ANALYTICAL RUN # : 59000

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 12/01/00			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	66	21 - 165
BENZENE	20.0	101	37 - 151
BROMODICHLOROMETHANE	20.0	93	35 - 155
BROMOFORM	20.0	97	45 - 169
BROMOMETHANE	20.0	122	10 - 242
2-BUTANONE (MEK)	20.0	65	25 - 162
CARBON DISULFIDE	20.0	60	45 - 148
CARBON TETRACHLORIDE	20.0	93	70 - 140
CHLOROBENZENE	20.0	105	37 - 160
CHLOROETHANE	20.0	98	53 - 149
CHLOROFORM	20.0	91	51 - 138
CHLOROMETHANE	20.0	111	10 - 273
DIBROMOCHLOROMETHANE	20.0	96	53 - 149
1,1-DICHLOROETHANE	20.0	97	59 - 155
1,2-DICHLOROETHANE	20.0	87	49 - 155
1,1-DICHLOROETHENE	20.0	98	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	89	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	96	54 - 156
1,2-DICHLOROPROPANE	20.0	93	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	96	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	94	17 - 183
ETHYLBENZENE	20.0	101	37 - 162
FREON 113	20.0	111	25 - 162
2-HEXANONE	20.0	64	22 - 155
METHYLENE CHLORIDE	20.0	91	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	72	46 - 157
STYRENE	20.0	105	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	92	46 - 157
TETRACHLOROETHENE	20.0	105	64 - 148
TOLUENE	20.0	99	47 - 150
1,1,1-TRICHLOROETHANE	20.0	88	52 - 162
1,1,2-TRICHLOROETHANE	20.0	96	52 - 150
TRICHLOROETHENE	20.0	95	71 - 157
VINYL CHLORIDE	20.0	97	10 - 251
O-XYLENE	20.0	104	71 - 135
M+P-XYLENE	40.0	108	71 - 135

CHAIN OF CUSTODY

R20-4786

Page ____ of ____

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: ☐ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other ____

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO

HLA Contact: Ronny Fields

Project Name: Former Taylor Instr. Site

Project Number / Task: 44489.3

Purchase Order Number: 6599

Special Handling Instructions:

LABORATORY INFO

Laboratory Name: Columbia Analytical

Phone: 716 288

Laboratory Contact: Mike Perry

Fax: 716 288

Address: 1 Mustard St.

City/State/Zip: Rochester, NY

Sampler Name:

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative	Container Type	Fraction[3]	Analysis Requested: 8260	Total Containers
	EW-N-4	EW-N-4	11/11/00 / 0908	FS	GW	HCl	40 ml glass	T	3	3
	EW-N-5	EW-N-5	11/11/00 / 1005	FS	GW				3	3
	EW-N-6	EW-N-6	11/11/00 / 1140	FS	GW				3	3
	TW-13	TW-13	11/16/00 / 0935	FS	GW				3	3
	W-5	W-5	11/16/00 / 1200	FS	GW				3	3
	OB-09	OB-09	11/16/00 / 1415	FS	GW				3	3
	OB-08	OB-08	11/16/00 / 1523	FS	GW				3	3
	OB-07	OB-07	11/16/00 / 1625	FS	GW				3	3
			/							
			/							
			/							
			/							

11/16/00

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			11/16/00 1654	Joni Jawson	11/16/00 16:54
					11-16-00 16:54

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abs\Ames St\Remediation Drilling\Field\blank forms\COC.ppt

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding - K Submission Number R2-4786

Cooler received on 11/16/00 by: [illegible] COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?				YES (NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?				(YES) NO	
3.	Did all bottles arrive in good condition (unbroken)?				(YES) NO	
4.	Did any VOA vials have significant air bubbles?				YES (NO) N/A	
5.	Were **Ice** or **Ice packs** present?				(YES) NO	
6.	Where did the bottles originate?				(CAS/ROC) CLIENT	
7.	Temperature of cooler(s) upon receipt:	2°	3°			
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☒	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 11/16/00 1655

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11-17-00 by: [illegible]

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

CHAIN OF CUSTODY

R20-4786

Page 1 of 1

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp.:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical	Phone: 716 288-5380
Project Name: Former Taylor Instr. Site	Laboratory Contact: Mike Perry	Fax: 716 288-8475
Project Number / Task: 49489.3	Address: 1 Mustard St.	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY	

Special Handling Instructions:

Sampler Name:

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Analysis Requested: 8260	Preservative: HCl	Container Type: 40 mL glass	Fraction[3]: T	Total Containers
	OB-06	OB-06	11/17/00 0840	FS	GW	3				3
	TW-17	TW-17	11/17/00 1037	FS	GW	3				3
	BR-01	BR-01	11/17/00 1127	FS	GW	3				3
	QATB02	QATB02	11/17/00 0000	FS	GW	3				3
	BR-06	BR-06	11/17/00 1508	FS	GW	3				3
	W-4	W-4	11/17/00 1536	FS	GW	3				3
	W-4 (MS)	W-4	11/17/00 1536	FS	GW	3				3 (Matrix spike)
	W-4 (MD)	W-4	11/17/00 1536	FS	GW	3				3 (Matrix spike duplicate)
	OB-06 (DUP)	OB-06	11/17/00 0840	FS	GW	3				3 (Duplicate)
			/							
			/							
			/							

[1]Type: FS - Environmental Sample; FD - Field Duplicate; TB - Trip Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate; FB - Field Blank; PE - Performance Evaluation Blank; Other: _____

[2]Media: SOIL - Soil; GW - Groundwater; SED - Sediment; SW - Surface Water; SL - Sludge; AIR - Air; SV - Soil Vapor; WIPE - Wipe; LC - Leachate; TIS - Tissue; BW - Water (Blank); TW - Tap Water; FP - Free Product

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need the lowest possible reporting limits for non-detected compounds

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	11/17/00 1622	[signature]	11-17-00 1622
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]		CAS	11/17/00 16:22

WHITE: LABORAT[illegible]OPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

1792

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding Submission Number 4786

Cooler received on 11-17-00 by: JE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?				YES / (NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?				(YES) NO	
3.	Did all bottles arrive in good condition (unbroken)?				(YES) NO	
4.	Did any VOA vials have significant air bubbles?				YES (NO) N/A	
5.	Were **Ice** or **Ice packs** present?				(YES) NO	
6.	Where did the bottles originate?				(CAS/ROC) CLIENT	
7.	Temperature of cooler(s) upon receipt:	3°				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 11-17-00 @ 16:30

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11/20/00 by: MB

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

CHAIN OF CUSTODY

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Page 1 of 1

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO		LABORATORY INFO	
HLA Contact: Ronny Fields		Laboratory Name: Columbia Analytical Svcs.	Phone: 716 288 5380
Project Name: Former Taylor Instr. Site		Laboratory Contact: Mike Perry	Fax: 716 288 8475
Project Number / Task: 49489.3		Address: 1 Mustard St.	
Purchase Order Number: 6599		City/State/Zip: Rochester, NY 14609	

Special Handling Instructions:

Sampler Name:

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCl	Container Type: 40ml glass	Fraction[3]: T	Analysis Requested: 8260	Total Containers
485477	BR-07	BR-07	11/18/00 / 0840	FS	GW				3	3
479	BR-03	BR-03	11/18/00 / 1043	FS	GW				3	3
481	BR-02	BR-02	11/18/00 / 1145	FS	GW				3	3
481	BR-11	BR-11	11/18/00 / 1327	FS	GW				3	3
485	BR-10	BR-10	11/18/00 / 1445	FS	GW				3	3
486	BR-17	BR-17	11/18/00 / 1550	FS	GW				3	3
487	BR-09	BR-09	11/18/00 / 1652	FS	GW				3	3
			/							
			/							
			/							
			/							
			/							

11/20/00

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: _____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need lowest possible reporting limits for non-detected compounds.
RF

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			11/20/00 1607		11/20/00 1607
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
					11/20/00 1707

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

1807

CHAIN OF CUSTODY

Harding Lawson Associates
400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Page 1 of 1

Agreed Upon Turnaround Time: [X] 21 Days [ ] 10 Days [ ] 5 Days [ ] 72 Hours [ ] 24 Hours [ ] Other ____

Lab Batch No.:

Lab SDG ID:

Seals Intact? [ ] YES [ ] NO Cooler Temp.:

PROJECT INFO

HLA Contact: Ronny Fields
Project Name: Former Taylor Instr. Site
Project Number / Task: 49489.3
Purchase Order Number: 6599
Special Handling Instructions:

LABORATORY INFO

Laboratory Name: Columbia Analytical Svcs.
Laboratory Contact: Mike Perry
Address: 1 Mustard St.
City/State/Zip: Rochester, NY 14609
Phone: 716 288 5380
Fax: 716 288 8475

Sampler Name: R. Fields
Airbill No.:

Preservative: HCl
Container Type: 40 mL glass
Fraction[3]: T
Analysis Requested: 8260

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Total Containers
425488	QATB03	QA	11/19/00 0000	TB	BW	3
489	QAFB03	QA	11/19/00 0910	FB	BW	3
490	QARB03	QA	11/19/00 0915	EB	BW	3
491	BR-13	BR-13	11/19/00 1020	FS	GW	3
↓	BR-13 (MS)	BR-13	11/19/00 1020	MS	GW	3 (MATRIX SPIKE)
↓	BR-13 (MD)	BR-13	11/19/00 1020	MSD	GW	3 (MATRIX SPIKE DUPLICATE)
492	BR-15	BR-15	11/19/00 1117	FS	GW	3
493	BR-15 (DUP)	BR-15	11/19/00 1117	FD	GW	3 (DUPLICATE)
494	BR-08	BR-08	11/19/00 1256	FS	GW	3
495	BR-14	BR-14	11/19/00 1410	FS	GW	3
496	BR-12	BR-12	11/19/00 1518	FS	GW	3
497	BR-16	BR-16	11/19/00 1654	FS	GW	3

Total 36

[1]Type:
FS - Environmental Sample; MSD - Matrix Spike Duplicate; FD - Field Duplicate; FB - Field Blank; TB - Trip Blank; PE - Performance Evaluation Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; Other: ____

[2]Media:
SOIL - Soil; AIR - Air; BW - Water (Blank); GW - Groundwater; SV - Soil Vapor; TW - Tap Water; SED - Sediment; WIPE - Wipe; FP - Free Product; SW - Surface Water; LC - Leachate; SL - Sludge; TIS - Tissue

[3]Fraction:
T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments:
Need lowest possible reporting limits for non-detected compounds.
RF

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [X] Unknown

Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
		[signature]	11/20/00 1607	[signature]	11/20/00 1607
Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
				[signature]	11-20-00 1607

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abbott Apes St\Remediation Drilling\Field\blank forms\HLA_COC.ppt

CHAIN OF CUSTODY

Harding Lawson Associates
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone: (865) 531-1922
Fax: (865) 531-8226

Page 1 of 1

Agreed Upon Turnaround Time: ☒ 21 Days ☐ 10 Days ☐ 5 Days ☐ 72 Hours ☐ 24 Hours ☐ Other _____

Lab Batch No.:

Lab SDG ID:

Seals Intact? ☐ YES ☐ NO

Cooler Temp:

PROJECT INFO	LABORATORY INFO	
HLA Contact: Ronny Fields	Laboratory Name: Columbia Analytical Svcs	Phone: 716 288 5380
Project Name: former Taylor Instr. Site	Laboratory Contact: Mike Perry	Fax: 716 288 8475
Project Number / Task: 44489.3	Address: 1 Mustard st. Ste RE	
Purchase Order Number: 6599	City/State/Zip: Rochester, NY 14609	

Special Handling Instructions:

Sampler Name: R. Fields

Airbill No.:

Lab Sample No. (For Laboratory Use Only)	Sample ID	Location Name	Date / Time Collected	Type[1]	Media[2]	Preservative: HCl	Container Type: 40ml glass	Fraction[3]: T	Analysis Requested: 8260	Total Containers
425500	OB-04	OB-04	11/19/00 1147	FS	GW				3	3
501	BR-04	BR-04	11/19/00 1045	FS	GW				3	3
504	BREW-S-1	BREW-S-1	11/19/00 1235	FS	GW				3	3
505	OB-05	OB-05	11/19/00 1418	FS	GW				3	3
506	BR-05	BR-05	11/19/00 1332	FS	GW				3	3
507	BREW-N-1	BREW-N-1	11/19/00 1520	FS	GW				3	3

RF Trip 11/20/00

[1]Type: FS - Environmental Sample; FD - Field Duplicate; TB - Trip Blank; EB - Equip. Rinseate Blank; MS - Matrix Spike; MSD - Matrix Spike Duplicate; FB - Field Blank; PE - Performance Evaluation Blank; Other: _____

[2]Media: SOIL - Soil; GW - Groundwater; SED - Sediment; SW - Surface Water; SL - Sludge; AIR - Air; SV - Soil Vapor; WIPE - Wipe; LC - Leachate; TIS - Tissue; BW - Water (Blank); TW - Tap Water; FP - Free Product

[3]Fraction: T - Total; D - Dissolved; S - SPLP; C - TCLP; N - Not Applicable

Comments: Need lowest possible reporting limits for non-detected target compounds. RF

18

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
R. Fields	11/20/00 1607		11-20-00/1607
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

G:\Commercial\Abb\Ames St\Remediation Drilling\Field\blank forms\... _COC.ppt

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding-K Submission Number R2-4786

Cooler received on 11/20/00 by: COURIER: CAS UPS FEDEX CD&L CLIENT

1.	Were custody seals on outside of cooler?	YES / NO				
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES NO				
3.	Did all bottles arrive in good condition (unbroken)?	YES NO				
4.	Did any VOA vials have significant air bubbles?	YES NO N/A				
5.	Were **Ice** or **Ice packs** present?	YES NO				
6.	Where did the bottles originate?	CAS/ROC; CLIENT				
7.	Temperature of cooler(s) upon receipt:	2	3			
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 11/20/00 1610

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. IR Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 11-21-00 by: JE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES	NO
2.	Did all bottle labels and tags agree with custody papers?	YES	NO
3.	Were correct containers used for the tests indicated?	YES	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

FIRST QUARTERLY PACKAGE

(March 2001)

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

April 24, 2001

COPY

Mr. Ronny Fields
Harding ESE
1400 Center Point Blvd.
Suite 158
Knoxville, TN 37932-1968

PROJECT:FORMER TAYLOR INSTRUMENTS SITE
Submission #:R2106245

Dear Mr. Fields

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Michael Perry
Laboratory Director

Enc.

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Lab Submission # : R2106245
Reported : 04/24/01

Report Contains a total of 137 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

CASE NARRATIVE

COMPANY: Harding ESE
Former Taylor Instruments Site - Ames Street
SUBMISSION #: R2106245

Samples were collected on 03/22/01 - 03/29/00 and received at CAS on the same day as collection in good condition. An electronic deliverable has been sent via E-Mail.

VOLATILE ORGANICS

Forty-six water samples were analyzed for TCL Volatiles plus Freon 113 by SW-846 method 8260B.

All Tuning criteria for BFB were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

All internal standard areas were within QC limits.

Matrix Spike/Matrix Spike Duplicate recoveries and the % RPD for samples TW-13 and BR-13 were all within QC limits. The Blank Spike recoveries were all acceptable.

The Laboratory Blanks associated with these analyses were free of contamination.

Several samples were reanalyzed at higher dilutions to bring target analytes within the calibration range of the method. Both dilutions were reported with target analytes over the calibration range flagged with an "E".

To help facilitate seeing lower detection limits, all detected compounds between the reported PQL and the statistical MDL have been flagged with a "J" as being estimated. Also, Vinyl Chloride has been reported to a PQL of 1.0 ug/l

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

NATURAL ATTENUATION ANALYSES

Ten samples were analyzed for the list of natural attenuation analytes. These samples were analyzed for Total and Bicarbonate Alkalinity by EPA method 310.1; Chloride by EPA method 300.0; Ferrous Iron by SM method 3500D; Free Carbon dioxide by SM method 4500B; Nitrate by EPA method 300.0; Sulfate by EPA method 300.0; pH by EPA method 150.1; Total Dissolved Solids by EPA method 160.2; Total Sulfide by EPA method 376.1; and TOC by EPA method 415.1. These samples were also analyzed for Low Molecular Weight gases by GC method 8015B.

The Blank Spike recoveries (LCS) were all acceptable.

No analytical or QC problems were encountered with these analyses.

MERCURY ANALYSIS

Four samples were analyzed for Total Mercury using SW-846 method 7470A.

The Blank Spike recoveries (LCS) were all acceptable.

No analytical or QC problems were encountered.

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2106245

Lab ID	Client ID
449463	QARB01
449464	TW-13
449465	OB-08
449466	OB-06
449467	BR-01
449468	BR-01D
449469	BR-02
449470	EW-S-5
449473	TRIP BLANK
449923	W-4
449924	BR-06
449925	QAFB01
449926	BR-03
449927	TW-04
449928	QATB02
450194	BR-07
450197	W-5
450199	BR-14
450201	TW-17
450357	OB-04
450358	BR-04
450359	BR-08
450360	BR-17
450361	BR-12
450362	BR-16
450363	BR-13
450364	BR-05
450365	OB-09
450366	BR-15
450367	QAFB02

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2106245

Lab ID	Client ID
450368	QARB02
450774	TW-20
450775	TW-09
451224	MH-23
451225	MH-24
451226	MH-6
451227	MH-22
451228	BR-09
451229	BR-10
451230	QATB03
451231	OB-07
451232	BR-11
451233	BR-11 DUP
451526	TW-07
451530	W-2
451535	OB-08

Columbia Analytical Services inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QARB01

Date Sampled : 03/20/01 12:47 **Order #:** 449463 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-13

Date Sampled : 03/20/01 15:01 **Order #:** 449464 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 03/20/01 17:45 **Order #:** 449465 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 250.00			
ACETONE	20	5000 U	UG/L
BENZENE	5.0	1300 U	UG/L
BROMODICHLOROMETHANE	5.0	1300 U	UG/L
BROMOFORM	5.0	1300 U	UG/L
BROMOMETHANE	5.0	1300 U	UG/L
2-BUTANONE (MEK)	10	2500 U	UG/L
CARBON DISULFIDE	10	2500 U	UG/L
CARBON TETRACHLORIDE	5.0	1300 U	UG/L
CHLOROBENZENE	5.0	1300 U	UG/L
CHLOROETHANE	5.0	1300 U	UG/L
CHLOROFORM	5.0	1300 U	UG/L
CHLOROMETHANE	5.0	1300 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHANE	5.0	1300 U	UG/L
1,2-DICHLOROETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHENE	5.0	1300 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
1,2-DICHLOROPROPANE	5.0	1300 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
ETHYLBENZENE	5.0	1300 U	UG/L
FREON 113	5.0	1300 U	UG/L
2-HEXANONE	10	2500 U	UG/L
METHYLENE CHLORIDE	5.0	1300 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2500 U	UG/L
STYRENE	5.0	1300 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1300 U	UG/L
TETRACHLOROETHENE	5.0	1300 U	UG/L
TOLUENE	5.0	1300 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1300 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1300 U	UG/L
TRICHLOROETHENE	5.0	28000	UG/L
VINYL CHLORIDE	1.0	250 U	UG/L
O-XYLENE	5.0	1300 U	UG/L
M+P-XYLENE	5.0	1300 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-06

Date Sampled : 03/21/01 08:53 **Order #:** 449466 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	540	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-01

Date Sampled : 03/21/01 12:24 **Order #:** 449467 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

DATE ANALYZED : 04/03/01
ANALYTICAL DILUTION: 2.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	78	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	34	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2.2 J	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	320	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-01D

Date Sampled : 03/21/01 12:25 **Order #:** 449468 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

DATE ANALYZED : 04/03/01
ANALYTICAL DILUTION: 2.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	88	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	35	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2.4 J	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	320	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-02

Date Sampled : 03/21/01 16:18 **Order #:** 449469 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

DATE ANALYZED : 04/03/01
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	95	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	1200	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-5

Date Sampled : 03/21/01 17:45 **Order #:** 449470 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		6.20	°C	03/21/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-5

Date Sampled : 03/21/01 17:45 **Order #:** 449470 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	147	MG/L	04/04/01	11:30	1.0
CHLORIDE	300.0	0.100	76.9	MG/L	03/23/01	13:22	40.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/23/01	10:30	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	3.5	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	0.981	MG/L	03/23/01	10:53	10.0
PH	150.1		8.00		03/26/01	17:00	NA
SULFATE	300.0	0.200	195	MG/L	03/23/01	13:22	40.0
TOTAL ALKALINITY	310.1	2.00	147	MG/L	04/04/01	16:45	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	559	MG/L	03/27/01	08:40	1.0
TOTAL ORGANIC CARBON	415.1	1.00	3.68	MG/L	04/12/01	11:23	1.0
TOTAL SULFIDE	376.1	1.00	2.90	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-5

Date Sampled : 03/21/01 17:45 **Order #:** 449470 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

DATE ANALYZED : 04/03/01
ANALYTICAL DILUTION: 200.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	4000 U	UG/L
BENZENE	5.0	1000 U	UG/L
BROMODICHLOROMETHANE	5.0	1000 U	UG/L
BROMOFORM	5.0	1000 U	UG/L
BROMOMETHANE	5.0	1000 U	UG/L
2-BUTANONE (MEK)	10	2000 U	UG/L
CARBON DISULFIDE	10	2000 U	UG/L
CARBON TETRACHLORIDE	5.0	1000 U	UG/L
CHLOROBENZENE	5.0	1000 U	UG/L
CHLOROETHANE	5.0	1000 U	UG/L
CHLOROFORM	5.0	1000 U	UG/L
CHLOROMETHANE	5.0	1000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHANE	5.0	1000 U	UG/L
1,2-DICHLOROETHANE	5.0	1000 U	UG/L
1,1-DICHLOROETHENE	5.0	1000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1000 U	UG/L
1,2-DICHLOROPROPANE	5.0	1000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1000 U	UG/L
ETHYLBENZENE	5.0	1000 U	UG/L
FREON 113	5.0	1000 U	UG/L
2-HEXANONE	10	2000 U	UG/L
METHYLENE CHLORIDE	5.0	1000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2000 U	UG/L
STYRENE	5.0	1000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1000 U	UG/L
TETRACHLOROETHENE	5.0	1000 U	UG/L
TOLUENE	5.0	1000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1000 U	UG/L
TRICHLOROETHENE	5.0	38000	UG/L
VINYL CHLORIDE	1.0	200 U	UG/L
O-XYLENE	5.0	1000 U	UG/L
M+P-XYLENE	5.0	1000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : EW-S-5

Date Sampled : 03/21/01 17:45 **Order #:** 449470 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TRIP BLANK

Date Sampled : 03/22/01 00:00 **Order #:** 449473 **Sample Matrix:** WATER
Date Received: 03/22/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	91	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-4

Date Sampled : 03/22/01 08:18 **Order #:** 449923 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	500 E	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	1.6 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-4

Date Sampled : 03/22/01 08:18 **Order #:** 449923 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	590	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	25 U	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-06

Date Sampled : 03/22/01 10:10 **Order #:** 449924 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QAFB01

Date Sampled : 03/22/01 10:55 **Order #:** 449925 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-03

Date Sampled : 03/22/01 14:25 **Order #:** 449926 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 2.50			
ACETONE	20	50 U	UG/L
BENZENE	5.0	13 U	UG/L
BROMODICHLOROMETHANE	5.0	13 U	UG/L
BROMOFORM	5.0	13 U	UG/L
BROMOMETHANE	5.0	13 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
CARBON DISULFIDE	10	25 U	UG/L
CARBON TETRACHLORIDE	5.0	13 U	UG/L
CHLOROBENZENE	5.0	13 U	UG/L
CHLOROETHANE	5.0	13 U	UG/L
CHLOROFORM	5.0	13 U	UG/L
CHLOROMETHANE	5.0	13 U	UG/L
DIBROMOCHLOROMETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHANE	5.0	13 U	UG/L
1,2-DICHLOROETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHENE	5.0	3.2 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	12 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
1,2-DICHLOROPROPANE	5.0	13 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
ETHYLBENZENE	5.0	13 U	UG/L
FREON 113	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
METHYLENE CHLORIDE	5.0	13 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25 U	UG/L
STYRENE	5.0	13 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13 U	UG/L
TETRACHLOROETHENE	5.0	13 U	UG/L
TOLUENE	5.0	13 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	13 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	13 U	UG/L
TRICHLOROETHENE	5.0	760 E	UG/L
VINYL CHLORIDE	1.0	2.5 U	UG/L
O-XYLENE	5.0	13 U	UG/L
M+P-XYLENE	5.0	13 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-03

Date Sampled : 03/22/01 14:25 **Order #:** 449926 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	12 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	810	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 03/22/01 16:39 **Order #:** 449927 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		6.70	°C	03/22/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 03/22/01 16:39 **Order #:** 449927 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	309	MG/L	04/04/01	11:30	1.0
CHLORIDE	300.0	0.100	9.40	MG/L	03/26/01	12:09	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/26/01	12:10	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	20	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	03/26/01	12:09	10.0
PH	150.1		7.56		03/26/01	17:00	NA
SULFATE	300.0	0.200	257	MG/L	03/26/01	13:15	100.0
TOTAL ALKALINITY	310.1	2.00	309	MG/L	04/04/01	16:45	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	663	MG/L	03/27/01	08:40	1.0
TOTAL ORGANIC CARBON	415.1	1.00	3.58	MG/L	04/12/01	14:15	1.0
TOTAL SULFIDE	376.1	1.00	1.13	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 03/22/01 16:39 **Order #:** 449927 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	2500 E	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	16	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	14	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 03/22/01 16:39 **Order #:** 449927 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	2400	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	100 U	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-04

Date Sampled : 03/22/01 16:39 **Order #:** 449927 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QATB02

Date Sampled : 03/22/01 00:00 **Order #:** 449928 **Sample Matrix:** WATER
Date Received: 03/23/01 **Submission #:** R2106245 **Analytical Run** 62854

DATE ANALYZED : 04/04/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-07

Date Sampled : 03/23/01 09:18 **Order #:** 450194 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62853

DATE ANALYZED : 04/03/01
ANALYTICAL DILUTION: 2.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	40 U	UG/L
BENZENE	5.0	7.0 J	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	34	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	2.6 J	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	3.4 J	UG/L
VINYL CHLORIDE	1.0	210	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-5

Date Sampled : 03/23/01 11:21 **Order #:** 450197 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		9.50	°C	03/23/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-5

Date Sampled : 03/23/01 11:21 **Order #:** 450197 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	561	MG/L	04/04/01	11:30	1.0
CHLORIDE	300.0	0.100	32.7	MG/L	03/24/01	13:49	10.0
FERROUS IRON	FE+2	0.100	1.76	MG/L	03/26/01	12:10	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	110	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	03/24/01	13:49	10.0
PH	150.1		7.06		03/26/01	17:00	NA
SULFATE	300.0	0.200	464	MG/L	04/18/01	11:12	100.0
TOTAL ALKALINITY	310.1	2.00	561	MG/L	04/04/01	16:45	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	1310	MG/L	03/29/01	13:50	1.0
TOTAL ORGANIC CARBON	415.1	1.00	7.20	MG/L	04/12/01	14:30	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-5

Date Sampled : 03/23/01 11:21 **Order #:** 450197 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	71	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	8.1	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	120	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-5

Date Sampled : 03/23/01 11:21 **Order #:** 450197 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	4.0	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-14

Date Sampled : 03/23/01 13:09 **Order #:** 450199 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	230 E	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	14	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	14	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.5	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	1.2 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	104	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

WS 4/25/01

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-14

Date Sampled : 03/23/01 13:09 **Order #:** 450199 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62854

DATE ANALYZED : 04/04/01
ANALYTICAL DILUTION: 2.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	260	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	16 J	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	10 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
FREON 113	5.0	10 U	UG/L
2-HEXANONE	10	15 J	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	10 U	UG/L
TOLUENE	5.0	5.0 J	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	2.1 J	UG/L
VINYL CHLORIDE	1.0	2.0 U	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-17

Date Sampled : 03/23/01 15:50 **Order #:** 450201 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		7.50	°C	03/23/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-17

Date Sampled : 03/23/01 15:50 **Order #:** 450201 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	283	MG/L	04/04/01	11:30	1.0
CHLORIDE	300.0	0.100	17.3	MG/L	03/24/01	13:36	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/26/01	12:10	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	22	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	03/24/01	13:36	10.0
PH	150.1		7.44		03/26/01	17:00	NA
SULFATE	300.0	0.200	103	MG/L	04/18/01	11:24	40.0
TOTAL ALKALINITY	310.1	2.00	283	MG/L	04/04/01	16:45	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	484	MG/L	03/29/01	13:50	1.0
TOTAL ORGANIC CARBON	415.1	1.00	2.03	MG/L	04/12/01	14:45	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-17

Date Sampled : 03/23/01 15:50 **Order #:** 450201 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62854

DATE ANALYZED : 04/04/01
ANALYTICAL DILUTION: 5.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	530	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-17

Date Sampled : 03/23/01 15:50 **Order #:** 450201 **Sample Matrix:** WATER
Date Received: 03/24/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-04

Date Sampled : 03/24/01 09:47 **Order #:** 450357 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	3.2 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	150	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-04

Date Sampled : 03/24/01 10:41 **Order #:** 450358 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	400	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	95 J	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	9000	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-08

Date Sampled : 03/24/01 13:18 **Order #:** 450359 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	250	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	320	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	6.7 J	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	11 J	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	1000 E	UG/L
VINYL CHLORIDE	1.0	5.0 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	12 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-08

Date Sampled : 03/24/01 13:18 **Order #:** 450359 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	280	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	320	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	10 J	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	1100	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	12 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-17

Date Sampled : 03/24/01 14:14 **Order #:** 450360 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	25 U	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	9.4 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	360	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	93	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
FREON 113	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	5900 E	UG/L
VINYL CHLORIDE	1.0	52	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-17

Date Sampled : 03/24/01 14:14 **Order #:** 450360 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	380	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 J	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	6900	UG/L
VINYL CHLORIDE	1.0	50	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-12

Date Sampled : 03/24/01 08:55 **Order #:** 450361 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	29	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	21	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	130	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	115	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-16

Date Sampled : 03/25/01 10:44 **Order #:** 450362 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	92	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	1.2 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-13

Date Sampled : 03/25/01 12:06 **Order #:** 450363 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	150	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	3200 E	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	115	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-13

Date Sampled : 03/25/01 12:06 **Order #:** 450363 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	1.7 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	150	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	14	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	2400 *	UG/L
VINYL CHLORIDE	1.0	1.0	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-05

Date Sampled : 03/25/01 15:19 **Order #:** 450364 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	850	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	120 J	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	5800	UG/L
VINYL CHLORIDE	1.0	160	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	99	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-09

Date Sampled : 03/26/01 11:37 **Order #:** 450365 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		9.40	°C	03/26/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-09

Date Sampled : 03/26/01 11:37 **Order #:** 450365 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	301	MG/L	04/06/01	09:00	1.0
CHLORIDE	300.0	0.100	48.3	MG/L	03/27/01	11:02	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/27/01	10:05	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	15	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	3.52	MG/L	03/27/01	11:02	10.0
PH	150.1		7.64		03/28/01	07:40	NA
SULFATE	300.0	0.200	492	MG/L	03/27/01	11:25	100.0
TOTAL ALKALINITY	310.1	2.00	301	MG/L	04/06/01	09:00	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	1070	MG/L	03/29/01	13:50	1.0
TOTAL ORGANIC CARBON	415.1	1.00	2.60	MG/L	04/12/01	11:37	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-09

Date Sampled : 03/26/01 11:37 **Order #:** 450365 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	16	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	7.6	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	150	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	98	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-09

Date Sampled : 03/26/01 11:37 **Order #:** 450365 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-15

Date Sampled : 03/26/01 14:15 **Order #:** 450366 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	100 U	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	33 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
FREON 113	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	2500	UG/L
VINYL CHLORIDE	1.0	20 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QAFB02

Date Sampled : 03/26/01 15:51 **Order #:** 450367 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QARB02

Date Sampled : 03/26/01 15:54 **Order #:** 450368 **Sample Matrix:** WATER
Date Received: 03/26/01 **Submission #:** R2106245 **Analytical Run** 62854

DATE ANALYZED : 04/05/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	1.1 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-20

Date Sampled : 03/27/01 10:05 **Order #:** 450774 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		5.00	°C	03/27/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-20

Date Sampled : 03/27/01 10:05 **Order #:** 450774 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	368	MG/L	04/09/01	11:50	1.0
CHLORIDE	300.0	0.100	7.58	MG/L	03/28/01	11:53	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/28/01	09:40	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	65	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	5.33	MG/L	03/28/01	11:53	10.0
PH	150.1		7.19		03/28/01	11:50	NA
SULFATE	300.0	0.200	67.9	MG/L	03/28/01	11:53	10.0
TOTAL ALKALINITY	310.1	2.00	368	MG/L	04/09/01	11:50	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	492	MG/L	03/30/01	09:55	1.0
TOTAL ORGANIC CARBON	415.1	1.00	1.57	MG/L	04/17/01	16:50	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-20

Date Sampled : 03/27/01 10:05 **Order #:** 450774 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	12	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	100	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-20

Date Sampled : 03/27/01 10:05 **Order #:** 450774 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 03/27/01 12:37 **Order #:** 450775 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		6.40	°C	03/27/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 03/27/01 12:37 **Order #:** 450775 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	237	MG/L	04/09/01	11:50	1.0
CHLORIDE	300.0	0.100	27.0	MG/L	03/28/01	11:40	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/28/01	09:40	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	55	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	2.95	MG/L	03/28/01	11:40	10.0
PH	150.1		6.97		03/28/01	11:50	NA
SULFATE	300.0	0.200	475	MG/L	04/21/01	15:10	100.0
TOTAL ALKALINITY	310.1	2.00	237	MG/L	04/09/01	11:50	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	1020	MG/L	03/30/01	09:55	1.0
TOTAL ORGANIC CARBON	415.1	1.00	1.92	MG/L	04/17/01	17:05	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	03/28/01	13:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 03/27/01 12:37 **Order #:** 450775 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1.9 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	120	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-09

Date Sampled : 03/27/01 12:37 **Order #:** 450775 **Sample Matrix:** WATER
Date Received: 03/28/01 **Submission #:** R2106245 **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-09

Date Sampled : 03/28/01 09:40 **Order #:** 451228 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	250 U	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	250 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
FREON 113	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	250 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	9500	UG/L
VINYL CHLORIDE	1.0	50 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	101	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-10

Date Sampled : 03/28/01 11:03 **Order #:** 451229 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	980	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	110 J	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
FREON 113	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	4700	UG/L
VINYL CHLORIDE	1.0	25 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : QATB03

Date Sampled : 03/28/01 00:00 **Order #:** 451230 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-07

Date Sampled : 03/28/01 15:23 **Order #:** 451231 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		8.10	°C	03/28/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-07

Date Sampled : 03/28/01 15:23 **Order #:** 451231 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	2.00 U	MG/L	04/09/01	11:50	1.0
CHLORIDE	300.0	0.100	27.3	MG/L	03/29/01	11:20	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/29/01	15:15	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	0.100 U	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	3.62	MG/L	03/29/01	11:20	10.0
PH	150.1		10.2		03/30/01	09:50	NA
SULFATE	300.0	0.200	155	MG/L	04/23/01	18:47	40.0
TOTAL ALKALINITY	310.1	2.00	40.1	MG/L	04/09/01	11:50	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	339	MG/L	04/03/01	09:00	1.0
TOTAL ORGANIC CARBON	415.1	1.00	3.80	MG/L	04/12/01	12:52	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	04/04/03	15:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-07

Date Sampled : 03/28/01 15:23 **Order #:** 451231 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	28	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	7.5	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-07

Date Sampled : 03/28/01 15:23 **Order #:** 451231 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62901

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/10/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	5.2	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-11

Date Sampled : 03/28/01 16:50 **Order #:** 451232 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	21 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	260	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	120	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	13 J	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	32000 E	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-11

Date Sampled : 03/28/01 16:50 **Order #:** 451232 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

DATE ANALYZED : 04/06/01
ANALYTICAL DILUTION: 500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	2500 U	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
FREON 113	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	44000	UG/L
VINYL CHLORIDE	1.0	500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	114	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-11 DUP

Date Sampled : 03/28/01 16:51 **Order #:** 451233 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 10.00			
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	50 U	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	19 J	UG/L
CIS-1,2-DICHLOROETHENE	5.0	270	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	120	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
FREON 113	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	12 J	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	31000 E	UG/L
VINYL CHLORIDE	1.0	21	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	92	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : BR-11 DUP

Date Sampled : 03/28/01 16:51 **Order #:** 451233 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 500.00			
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	2500 U	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
FREON 113	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	52000	UG/L
VINYL CHLORIDE	1.0	500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-07

Date Sampled : 03/29/01 09:45 **Order #:** 451526 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		8.60	°C	03/29/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-07

Date Sampled : 03/29/01 09:45 **Order #:** 451526 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	268	MG/L	04/12/01	08:30	1.0
CHLORIDE	300.0	0.100	45.0	MG/L	03/29/01	17:10	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/29/01	15:15	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	150	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	22.3	MG/L	03/29/01	17:10	10.0
PH	150.1		6.58		03/30/01	09:50	NA
SULFATE	300.0	0.200	318	MG/L	04/24/01	12:35	100.0
TOTAL ALKALINITY	310.1	2.00	268	MG/L	04/12/01	08:30	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	972	MG/L	04/03/01	09:00	1.0
TOTAL ORGANIC CARBON	415.1	1.00	6.50	MG/L	04/12/01	13:07	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	04/04/03	15:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-07

Date Sampled : 03/29/01 09:45 **Order #:** 451526 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1.2 J	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	3.5 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	94	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	112	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : TW-07

Date Sampled : 03/29/01 09:45 **Order #:** 451526 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62901

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/10/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-2

Date Sampled : 03/29/01 11:10 **Order #:** 451530 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	7.19	MG/L	04/23/01	20:13	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 03/29/01 11:45 **Order #:** 451535 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		10.9	°C	03/29/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 03/29/01 11:45 **Order #:** 451535 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	305	MG/L	04/12/01	08:30	1.0
CHLORIDE	300.0	0.100	49.6	MG/L	03/29/01	17:22	10.0
FERROUS IRON	FE+2	0.100	0.100 U	MG/L	03/29/01	15:15	1.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	70	MG/L	04/20/01		1.0
NITRATE NITROGEN	300.0	0.0500	0.597	MG/L	03/29/01	17:22	10.0
PH	150.1		7.40		03/30/01	09:50	NA
SULFATE	300.0	0.200	263	MG/L	04/24/01	12:47	100.0
TOTAL ALKALINITY	310.1	2.00	305	MG/L	04/12/01	08:30	1.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	781	MG/L	04/03/01	09:00	1.0
TOTAL ORGANIC CARBON	415.1	1.00	4.22	MG/L	04/12/01	13:21	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	04/04/03	15:45	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/25/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 03/29/01 11:45 **Order #:** 451535 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 250.00			
ACETONE	20	5000 U	UG/L
BENZENE	5.0	1300 U	UG/L
BROMODICHLOROMETHANE	5.0	1300 U	UG/L
BROMOFORM	5.0	1300 U	UG/L
BROMOMETHANE	5.0	1300 U	UG/L
2-BUTANONE (MEK)	10	2500 U	UG/L
CARBON DISULFIDE	10	2500 U	UG/L
CARBON TETRACHLORIDE	5.0	1300 U	UG/L
CHLOROBENZENE	5.0	1300 U	UG/L
CHLOROETHANE	5.0	1300 U	UG/L
CHLOROFORM	5.0	1300 U	UG/L
CHLOROMETHANE	5.0	1300 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHANE	5.0	1300 U	UG/L
1,2-DICHLOROETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHENE	5.0	1300 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	390 J	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
1,2-DICHLOROPROPANE	5.0	1300 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
ETHYLBENZENE	5.0	1300 U	UG/L
FREON 113	5.0	1300 U	UG/L
2-HEXANONE	10	2500 U	UG/L
METHYLENE CHLORIDE	5.0	1300 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2500 U	UG/L
STYRENE	5.0	1300 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1300 U	UG/L
TETRACHLOROETHENE	5.0	1300 U	UG/L
TOLUENE	5.0	1300 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1300 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	1300 U	UG/L
TRICHLOROETHENE	5.0	29000	UG/L
VINYL CHLORIDE	1.0	250 U	UG/L
O-XYLENE	5.0	1300 U	UG/L
M+P-XYLENE	5.0	1300 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : OB-08

Date Sampled : 03/29/01 11:45 **Order #:** 451535 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245 **Analytical Run** 62901

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/10/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	13	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454264 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62853

DATE ANALYZED : 04/02/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	93	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454268 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	96	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	110	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454270 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454272 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	101	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454291 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62853

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	101	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	113	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454276 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	97	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL+FREON 113
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454278 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62854

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/06/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
FREON 113	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(86 - 115 %)	95	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	111	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454353 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62900

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 04/24/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 454359 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 62901

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/10/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2106245
Client: Harding ESE
FORMER TAYLOR INSTRUMENTS SITE

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
MERCURY	0.000300 U	0.00103	0.00100	103	80 - 120	62542	MG/L
NITRATE NITROGEN	0.0500 U	1.27	1.25	102	90 - 110	62185	MG/L
SULFATE	0.200 U	2.50	2.50	100	90 - 110	62187	MG/L
CHLORIDE	0.100 U	2.54	2.50	102	90 - 110	62188	MG/L
CHLORIDE	0.100 U	2.58	2.50	103	90 - 110	62201	MG/L
SULFATE	0.200 U	2.47	2.50	99	90 - 110	62202	MG/L
NITRATE NITROGEN	0.0500 U	1.26	1.25	101	90 - 110	62205	MG/L
NITRATE NITROGEN	0.0500 U	1.26	1.25	101	90 - 110	62227	MG/L
CHLORIDE	0.100 U	2.52	2.50	101	90 - 110	62240	MG/L
SULFATE	0.200 U	2.54	2.50	102	90 - 110	62241	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2106245
Client: Harding ESE
FORMER TAYLOR INSTRUMENTS SITE

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
BICARBONATE ALKALINITY	2.00 U	20.5	20.0	103	88 - 112	62244	MG/L
TOTAL SULFIDE	1.00 U	4.98	4.69	106	44 - 122	62278	MG/L
NITRATE NITROGEN	0.0500 U	1.27	1.25	101	90 - 110	62282	MG/L
FERROUS IRON	0.100 U	0.396	0.400	99	80 - 120	62285	MG/L
FERROUS IRON	0.100 U	0.396	0.400	99	80 - 120	62286	MG/L
FERROUS IRON	0.100 U	0.417	0.400	104	80 - 120	62287	MG/L
CHLORIDE	0.100 U	2.59	2.50	104	90 - 110	62311	MG/L
NITRATE NITROGEN	0.0500 U	1.28	1.25	103	90 - 110	62361	MG/L
SULFATE	0.200 U	2.55	2.50	102	90 - 110	62375	MG/L
NITRATE NITROGEN	0.0500 U	1.32	1.25	106	90 - 110	62422	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2106245
Client: Harding ESE
FORMER TAYLOR INSTRUMENTS SITE

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
CHLORIDE	0.100 U	2.61	2.50	104	90 - 110	62427	MG/L
FERROUS IRON	0.100 U	0.403	0.400	101	80 - 120	62447	MG/L
TOTAL SULFIDE	1.00 U	4.44	3.76	118	44 - 122	62569	MG/L
TOTAL ALKALINITY	2.00 U	984	1000	98	88 - 112	62641	MG/L
TOTAL ALKALINITY	2.00 U	21.0	20.0	105	88 - 112	62705	MG/L
BICARBONATE ALKALINITY	2.00 U	20.1	20.0	101	88 - 112	62706	MG/L
TOTAL ORGANIC CARBON	1.00 U	10.1	10.0	101	81 - 116	62738	MG/L
BICARBONATE ALKALINITY	2.00 U	20.0	20.0	100	88 - 112	62765	MG/L
TOTAL ALKALINITY	2.00 U	20.9	20.0	105	88 - 112	62766	MG/L
CHLORIDE	0.100 U	2.53	2.50	101	90 - 110	62834	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2106245
Client: Harding ESE
FORMER TAYLOR INSTRUMENTS SITE

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
TOTAL ALKALINITY	2.00 U	20.5	20.0	103	88 - 112	62886	MG/L
TOTAL ORGANIC CARBON	1.00 U	9.35	10.0	93	81 - 116	63049	MG/L
FERROUS IRON	0.100 U	0.424	0.400	106	80 - 120	63276	MG/L

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 449464 Harding ESE

Client ID: TW-13

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 62853

			MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
BENZENE	50.0	0	46.0	92	47.0	94	2	11	76 - 127
CHLOROBENZENE	50.0	0	46.0	92	47.0	94	2	13	75 - 130
1,1-DICHLOROETHENE	50.0	0	48.0	96	49.0	98	2	14	61 - 145
TOLUENE	50.0	0	48.0	96	49.0	98	2	13	76 - 125
TRICHLOROETHENE	50.0	0	48.0	96	51.0	102	6	14	71 - 120

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 450363 Harding ESE

Client ID: BR-13

Test: 8260B TCL+FREON 113

Analytical Units: UG/L

Run Number : 62854

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	MATRIX SPIKE FOUND	MATRIX SPIKE % REC.	MATRIX SPIKE DUP. FOUND	MATRIX SPIKE DUP. % REC.	RPD	QC LIMITS RPD	QC LIMITS REC.
BENZENE	1000	0	920	92	900	90	2	11	76 - 127
CHLOROBENZENE	1000	0	920	92	920	92	0	13	75 - 130
1,1-DICHLOROETHENE	1000	0	930	93	940	94	1	14	61 - 145
TOLUENE	1000	0	920	92	930	93	1	13	76 - 125
TRICHLOROETHENE	1000	3200	4100	90	4100	90	0	14	71 - 120

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454265 ANALYTICAL RUN # : 62853

DATE ANALYZED : 04/02/01
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	79	21 - 165
BENZENE	20.0	83	37 - 151
BROMODICHLOROMETHANE	20.0	98	35 - 155
BROMOFORM	20.0	99	45 - 169
BROMOMETHANE	20.0	75	10 - 242
2-BUTANONE (MEK)	20.0	85	25 - 162
CARBON DISULFIDE	20.0	92	45 - 148
CARBON TETRACHLORIDE	20.0	102	70 - 140
CHLOROBENZENE	20.0	86	37 - 160
CHLOROETHANE	20.0	107	53 - 149
CHLOROFORM	20.0	90	51 - 138
CHLOROMETHANE	20.0	77	10 - 273
DIBROMOCHLOROMETHANE	20.0	97	53 - 149
1,1-DICHLOROETHANE	20.0	89	59 - 155
1,2-DICHLOROETHANE	20.0	100	49 - 155
1,1-DICHLOROETHENE	20.0	85	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	88	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	87	54 - 156
1,2-DICHLOROPROPANE	20.0	81	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	89	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	97	17 - 183
ETHYLBENZENE	20.0	90	37 - 162
FREON 113	20.0	111	25 - 162
2-HEXANONE	20.0	94	22 - 155
METHYLENE CHLORIDE	20.0	86	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	88	46 - 157
STYRENE	20.0	87	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	91	46 - 157
TETRACHLOROETHENE	20.0	87	64 - 148
TOLUENE	20.0	87	47 - 150
1,1,1-TRICHLOROETHANE	20.0	91	52 - 162
1,1,2-TRICHLOROETHANE	20.0	91	52 - 150
TRICHLOROETHENE	20.0	84	71 - 157
VINYL CHLORIDE	20.0	95	10 - 251
O-XYLENE	20.0	88	71 - 135
M+P-XYLENE	40.0	90	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454269 ANALYTICAL RUN # : 62853

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/03/01			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	108	21 - 165
BENZENE	20.0	96	37 - 151
BROMODICHLOROMETHANE	20.0	109	35 - 155
BROMOFORM	20.0	106	45 - 169
BROMOMETHANE	20.0	84	10 - 242
2-BUTANONE (MEK)	20.0	93	25 - 162
CARBON DISULFIDE	20.0	86	45 - 148
CARBON TETRACHLORIDE	20.0	118	70 - 140
CHLOROBENZENE	20.0	95	37 - 160
CHLOROETHANE	20.0	123	53 - 149
CHLOROFORM	20.0	100	51 - 138
CHLOROMETHANE	20.0	82	10 - 273
IBROMOCHLOROMETHANE	20.0	108	53 - 149
1,1-DICHLOROETHANE	20.0	97	59 - 155
1,2-DICHLOROETHANE	20.0	106	49 - 155
1,1-DICHLOROETHENE	20.0	97	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	96	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	98	54 - 156
1,2-DICHLOROPROPANE	20.0	89	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	97	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	105	17 - 183
ETHYLBENZENE	20.0	100	37 - 162
FREON 113	20.0	123	25 - 162
2-HEXANONE	20.0	107	22 - 155
METHYLENE CHLORIDE	20.0	96	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	107	46 - 157
STYRENE	20.0	96	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	91	46 - 157
TETRACHLOROETHENE	20.0	100	64 - 148
TOLUENE	20.0	99	47 - 150
1,1,1-TRICHLOROETHANE	20.0	108	52 - 162
1,1,2-TRICHLOROETHANE	20.0	101	52 - 150
TRICHLOROETHENE	20.0	100	71 - 157
VINYL CHLORIDE	20.0	112	10 - 251
O-XYLENE	20.0	99	71 - 135
M+P-XYLENE	40.0	101	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454292 ANALYTICAL RUN # : 62853

DATE ANALYZED : 04/04/01
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	96	21 - 165
BENZENE	20.0	89	37 - 151
BROMODICHLOROMETHANE	20.0	101	35 - 155
BROMOFORM	20.0	104	45 - 169
BROMOMETHANE	20.0	77	10 - 242
2-BUTANONE (MEK)	20.0	106	25 - 162
CARBON DISULFIDE	20.0	82	45 - 148
CARBON TETRACHLORIDE	20.0	116	70 - 140
CHLOROBENZENE	20.0	86	37 - 160
CHLOROETHANE	20.0	118	53 - 149
CHLOROFORM	20.0	97	51 - 138
CHLOROMETHANE	20.0	87	10 - 273
DIBROMOCHLOROMETHANE	20.0	95	53 - 149
1,1-DICHLOROETHANE	20.0	92	59 - 155
1,2-DICHLOROETHANE	20.0	105	49 - 155
1,1-DICHLOROETHENE	20.0	94	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	94	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	91	54 - 156
1,2-DICHLOROPROPANE	20.0	81	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	89	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	95	17 - 183
ETHYLBENZENE	20.0	91	37 - 162
FREON 113	20.0	128	25 - 162
2-HEXANONE	20.0	108	22 - 155
METHYLENE CHLORIDE	20.0	92	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	101	46 - 157
STYRENE	20.0	87	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	90	46 - 157
TETRACHLOROETHENE	20.0	87	64 - 148
TOLUENE	20.0	89	47 - 150
1,1,1-TRICHLOROETHANE	20.0	103	52 - 162
1,1,2-TRICHLOROETHANE	20.0	88	52 - 150
TRICHLOROETHENE	20.0	91	71 - 157
VINYL CHLORIDE	20.0	109	10 - 251
O-XYLENE	20.0	88	71 - 135
M+P-XYLENE	40.0	88	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454271 ANALYTICAL RUN # : 62854

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	105	21 - 165
BENZENE	20.0	92	37 - 151
BROMODICHLOROMETHANE	20.0	106	35 - 155
BROMOFORM	20.0	102	45 - 169
BROMOMETHANE	20.0	93	10 - 242
2-BUTANONE (MEK)	20.0	98	25 - 162
CARBON DISULFIDE	20.0	81	45 - 148
CARBON TETRACHLORIDE	20.0	115	70 - 140
CHLOROBENZENE	20.0	94	37 - 160
CHLOROETHANE	20.0	132	53 - 149
CHLOROFORM	20.0	106	51 - 138
CHLOROMETHANE	20.0	84	10 - 273
DIBROMOCHLOROMETHANE	20.0	104	53 - 149
1,1-DICHLOROETHANE	20.0	100	59 - 155
1,2-DICHLOROETHANE	20.0	110	49 - 155
1,1-DICHLOROETHENE	20.0	100	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	97	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	100	54 - 156
1,2-DICHLOROPROPANE	20.0	88	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	88	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	97	17 - 183
ETHYLBENZENE	20.0	100	37 - 162
FREON 113	20.0	128	25 - 162
2-HEXANONE	20.0	106	22 - 155
METHYLENE CHLORIDE	20.0	97	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	110	46 - 157
STYRENE	20.0	91	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	84	46 - 157
TETRACHLOROETHENE	20.0	99	64 - 148
TOLUENE	20.0	97	47 - 150
1,1,1-TRICHLOROETHANE	20.0	113	52 - 162
1,1,2-TRICHLOROETHANE	20.0	96	52 - 150
TRICHLOROETHENE	20.0	108	71 - 157
VINYL CHLORIDE	20.0	115	10 - 251
O-XYLENE	20.0	91	71 - 135
M+P-XYLENE	40.0	94	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454273 ANALYTICAL RUN # : 62854

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	96	21 - 165
BENZENE	20.0	89	37 - 151
BROMODICHLOROMETHANE	20.0	101	35 - 155
BROMOFORM	20.0	104	45 - 169
BROMOMETHANE	20.0	77	10 - 242
2-BUTANONE (MEK)	20.0	106	25 - 162
CARBON DISULFIDE	20.0	82	45 - 148
CARBON TETRACHLORIDE	20.0	116	70 - 140
CHLOROBENZENE	20.0	86	37 - 160
CHLOROETHANE	20.0	118	53 - 149
CHLOROFORM	20.0	97	51 - 138
CHLOROMETHANE	20.0	87	10 - 273
DIBROMOCHLOROMETHANE	20.0	95	53 - 149
1,1-DICHLOROETHANE	20.0	92	59 - 155
1,2-DICHLOROETHANE	20.0	105	49 - 155
1,1-DICHLOROETHENE	20.0	94	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	94	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	91	54 - 156
1,2-DICHLOROPROPANE	20.0	81	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	89	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	95	17 - 183
ETHYLBENZENE	20.0	91	37 - 162
FREON 113	20.0	128	25 - 162
2-HEXANONE	20.0	108	22 - 155
METHYLENE CHLORIDE	20.0	92	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	101	46 - 157
STYRENE	20.0	87	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	90	46 - 157
TETRACHLOROETHENE	20.0	87	64 - 148
TOLUENE	20.0	89	47 - 150
1,1,1-TRICHLOROETHANE	20.0	103	52 - 162
1,1,2-TRICHLOROETHANE	20.0	88	52 - 150
TRICHLOROETHENE	20.0	91	71 - 157
VINYL CHLORIDE	20.0	109	10 - 251
O-XYLENE	20.0	88	71 - 135
M+P-XYLENE	40.0	88	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454277 ANALYTICAL RUN # : 62854

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/05/01			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	116	21 - 165
BENZENE	20.0	91	37 - 151
BROMODICHLOROMETHANE	20.0	108	35 - 155
BROMOFORM	20.0	106	45 - 169
BROMOMETHANE	20.0	91	10 - 242
2-BUTANONE (MEK)	20.0	106	25 - 162
CARBON DISULFIDE	20.0	102	45 - 148
CARBON TETRACHLORIDE	20.0	116	70 - 140
CHLOROBENZENE	20.0	93	37 - 160
CHLOROETHANE	20.0	127	53 - 149
CHLOROFORM	20.0	106	51 - 138
CHLOROMETHANE	20.0	89	10 - 273
DIBROMOCHLOROMETHANE	20.0	105	53 - 149
1,1-DICHLOROETHANE	20.0	102	59 - 155
1,2-DICHLOROETHANE	20.0	109	49 - 155
1,1-DICHLOROETHENE	20.0	104	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	98	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	102	54 - 156
1,2-DICHLOROPROPANE	20.0	87	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	96	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	102	17 - 183
ETHYLBENZENE	20.0	97	37 - 162
FREON 113	20.0	137	25 - 162
2-HEXANONE	20.0	112	22 - 155
METHYLENE CHLORIDE	20.0	97	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	109	46 - 157
STYRENE	20.0	93	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	101	46 - 157
TETRACHLOROETHENE	20.0	91	64 - 148
TOLUENE	20.0	93	47 - 150
1,1,1-TRICHLOROETHANE	20.0	112	52 - 162
1,1,2-TRICHLOROETHANE	20.0	101	52 - 150
TRICHLOROETHENE	20.0	93	71 - 157
VINYL CHLORIDE	20.0	119	10 - 251
O-XYLENE	20.0	93	71 - 135
M+P-XYLENE	40.0	98	71 - 135

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL+FREON 113

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454279 ANALYTICAL RUN # : 62854

DATE ANALYZED : 04/06/01
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	94	21 - 165
BENZENE	20.0	83	37 - 151
BROMODICHLOROMETHANE	20.0	100	35 - 155
BROMOFORM	20.0	104	45 - 169
BROMOMETHANE	20.0	98	10 - 242
2-BUTANONE (MEK)	20.0	115	25 - 162
CARBON DISULFIDE	20.0	103	45 - 148
CARBON TETRACHLORIDE	20.0	98	70 - 140
CHLOROBENZENE	20.0	82	37 - 160
CHLOROETHANE	20.0	116	53 - 149
CHLOROFORM	20.0	94	51 - 138
CHLOROMETHANE	20.0	78	10 - 273
DIBROMOCHLOROMETHANE	20.0	99	53 - 149
1,1-DICHLOROETHANE	20.0	93	59 - 155
1,2-DICHLOROETHANE	20.0	103	49 - 155
1,1-DICHLOROETHENE	20.0	87	10 - 234
CIS-1,2-DICHLOROETHENE	20.0	87	54 - 156
TRANS-1,2-DICHLOROETHENE	20.0	88	54 - 156
1,2-DICHLOROPROPANE	20.0	80	10 - 210
CIS-1,3-DICHLOROPROPENE	20.0	91	10 - 227
TRANS-1,3-DICHLOROPROPENE	20.0	96	17 - 183
ETHYLBENZENE	20.0	85	37 - 162
FREON 113	20.0	119	25 - 162
2-HEXANONE	20.0	119	22 - 155
METHYLENE CHLORIDE	20.0	93	10 - 221
4-METHYL-2-PENTANONE (MIBK)	20.0	109	46 - 157
STYRENE	20.0	84	66 - 144
1,1,2,2-TETRACHLOROETHANE	20.0	104	46 - 157
TETRACHLOROETHENE	20.0	80	64 - 148
TOLUENE	20.0	83	47 - 150
1,1,1-TRICHLOROETHANE	20.0	92	52 - 162
1,1,2-TRICHLOROETHANE	20.0	94	52 - 150
TRICHLOROETHENE	20.0	86	71 - 157
VINYL CHLORIDE	20.0	102	10 - 251
O-XYLENE	20.0	81	71 - 135
M+P-XYLENE	40.0	79	71 - 135

COLUMBIA ANALYTICAL SERVICES

ORGANIC RUN QUALITY CONTROL SUMMARY
Report Date: 04/24/01

Client: Harding ESE
FORMER TAYLOR INSTRUMENTS SITE

CAS Submission #: R2106245
Reported Units: UG/L
Order #: 449464

PRECISION

	ORIGINAL	DUPLICATE	RPD
ETHANE	1.00 U	1.00 U	NC
ETHYLENE	1.00 U	1.00 U	NC
METHANE	2.00 U	2.00 U	NC
PROPANE	1.00 U	1.00 U	NC

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8015B GASES

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454354 ANALYTICAL RUN # : 62900

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/04/01			
ANALYTICAL DILUTION: 1.0			
ETHANE	30.8	88	50 - 150
ETHYLENE	28.6	79	50 - 150
METHANE	16.5	80	50 - 150
PROPANE	45.6	75	50 - 150

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8015B GASES

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 454360 ANALYTICAL RUN # : 62901

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/10/01			
ANALYTICAL DILUTION: 1.0			
ETHANE	30.8	118	50 - 150
ETHYLENE	28.6	103	50 - 150
METHANE	16.5	100	50 - 150
PROPANE	45.6	90	50 - 150

COLUMBIA ANALYTICAL SERVICES

Reported: 05/09/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-2

Date Sampled : 03/29/01 11:10 **Order #:** 451530 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
BICARBONATE ALKALINITY	310.1	2.00	213	MG/L	05/03/01	07:45	1.0
CHLORIDE	300.0	0.100	7.19	MG/L	04/23/01	20:13	10.0
FREE CARBON DIOXIDE CONTENT	4500B	0.100	16	MG/L	05/09/01		1.0
PH	150.1		7.50		05/03/01	07:45	NA
TOTAL ALKALINITY	310.1	2.00	213	MG/L	05/03/01	07:45	0.0
TOTAL DISSOLVED SOLIDS	160.1	10.0	325	MG/L	05/02/01	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/09/01

Harding ESE
Project Reference: FORMER TAYLOR INSTRUMENTS SITE
Client Sample ID : W-2

Date Sampled : 03/29/01 11:10 **Order #:** 451530 **Sample Matrix:** WATER
Date Received: 03/29/01 **Submission #:** R2106245

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TEMPERATURE	170.1		7.90	°C	03/29/01		1.0

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

121

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature: Robert A Ellis	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR's LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR's LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ VOA's ☐ METALS ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Nitrate, Sulfate, Chloride
TOC
Sulfide
Iron (II) Ferrous
Methane, Ethane, Ethene
CO_2, Alkalinity

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX																															
QARB01		03/20/01	12:47	Water	3	3																														Rinsate
TW-13		03/20/01	15:01	Water	3	3																														
TW-13-MS		03/20/01	15:13	Water	3	3																														Matrix Spike
TW-13-MSD		03/20/01	15:14	Water	3	3																														Matrix Spike Duplicate
OB-08		03/20/01	17:45	Water	3	3																														
OB-06		03/21/01	08:53	Water	3	3																														
BR-01		03/21/01	12:24	Water	3	3																														
BR-01D		03/21/01	12:25	Water	3	3																														
BR-02		03/21/01	16:18	Water	3	3																														
EW-5-5		03/21/01	17:45	Water	12	3																												1	3	1	1	2	1

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: R21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A. Ellis	Signature: Cindy Toomey	Signature:	Signature: Gregory P. Emerson	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name:	Printed Name: Gregory P. Emerson	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/22/01 11:20	Date/Time: 3/22/01 11:20	Date/Time:	Date/Time: 3-22-01 11:20	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 2 OF 2

SR #

CAS Contact

1122

Project Name: Former Taylor Instruments	Project Number:
Project Manager/Contact: Romy Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS	WASTE CHARACTERIZATION ☐ SVOA's ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
QATB01		03/22/01	00:00	Water	3	3										Trip Blank

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
_X_ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO# 6599
BILL TO:
SUBMISSION #: R1-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A Ellis	Signature: Cindy Toomey	Signature: Gregory O. Emerson	Signature:	Signature:	Signature:
Printed Name: Harding ESE	Printed Name:	Printed Name: Gregory O. Emerson	Printed Name:	Printed Name:	Printed Name:
Firm: 03/22/01 11:20	Firm: 3/22/01 11:20	Firm: CAS	Firm:	Firm:	Firm:
Date/Time:	Date/Time:	Date/Time: 3-22-01 11:20	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

123

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding-K Submission Number R2-6245

Cooler received on 3-22-01 by: JE COURIER: CAS UPS (FEDEX) CD&L CLIENT

1.	Were custody seals on outside of cooler?				YES (NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?				(YES) NO	
3.	Did all bottles arrive in good condition (unbroken)?				(YES) NO	
4.	Did any VOA vials have significant air bubbles?				YES (NO) N/A	
5.	Were (Ice) or Ice packs present?				(YES) NO	
6.	Where did the bottles originate?				(CAS/ROC) CLIENT	
7.	Temperature of cooler(s) upon receipt:	12				
	Is the temperature within 0° - 6° C?:	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☒	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 3-22-01 @ 12:05

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3-23-01 by: JE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO	
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO	
3.	Were correct containers used for the tests indicated?	(YES) NO	
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

124

Project Name: Former Taylor Instruments
Project Number: 51870.4
Project Manager / Contact: Ronny Fields
Report CC:
Company/Address: Harding ESE
1400 Centerpoint Blvd. Suite 158
Knoxville, TN 37932
Phone #: (865) 531-1922
FAX#: (865) 531-8226
Sampler's Signature: Robert A. Ellis
Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX			GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO_2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
W-4		03/22/01	08:18	Water	3	3																	
GR-06		03/22/01	10:10	Water	3	3																	
QAFB01		03/22/01	10:55	Water	3	3																	Field Blank
GR-03		03/22/01	14:25	Water	3	3																	
TW-04		03/22/01	16:39	Water	12	3										1	3	1	1	2	1		
QATB02		03/22/01	00:00	Water	3	3																	Trip Blank

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
6599
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 15° CUSTODY SEALS: Y (N)

SUBMISSION #: 01-6272

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A. Ellis	Signature: Cindy Toomey	Signature: Gregory O. Esmerian	Signature: Client	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name: Gregory O. Esmerian	Printed Name:	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm: CAS	Firm:	Firm:	Firm:
Date/Time: 03/22/01 17:32	Date/Time: 3/23/01 1510	Date/Time: 3/23/01 1510	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding-K Submission Number R2-6272

Cooler received on 3/23/01 by: BC COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					(YES) NO
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were Ice or Ice packs present?					YES (NO)
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	15				
	Is the temperature within 0° - 6° C?:	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☒	No ☐	No ☐	No ☐	No ☐
	Date/Time Temperatures Taken:	3/23/01		15:15		
	Thermometer ID: IR-Gun	Temp Blank	Sample Bottle	Cooler Temp.	(IR Gun)	

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3-26-01 by: AE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475

PAGE _____ OF _____

SR # 126

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager / Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS	WASTE CHARACTERIZATION ☐ SVOA's ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO_2, Alkalinity
BR-07		03/23/01	09:18	Water	3	3															
W-5		03/23/01	11:21	Water	12	3											1	3	1	1	2	1
BR-14		03/23/01	13:09	Water	3	3															
TW-17		03/23/01	15:50	Water	12	3											1	3	1	1	2	1

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ **RUSH** (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
__X__ **STANDARD**
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO# 6599
BILL TO:
SUBMISSION #: A21-6301

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Brian Colton	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time:	Date/Time: 3/24/00 11:15	Date/Time:	Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding Submission Number 6307

Cooler received on 3/24/01 by: [illegible] COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					(NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were Ice or Ice packs present?					(YES) NO
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	3				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐
	Date/Time Temperatures Taken:	3/24/01			11:25	
	Thermometer ID:	Temp Blank	Sample Bottle	Cooler Temp.	IR Gun	

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3/26/01 by: [illegible]

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?		(YES) NO
2.	Did all bottle labels and tags agree with custody papers?		(YES) NO
3.	Were correct containers used for the tests indicated?		(YES) NO
4.	Air Samples:	Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated	(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

128

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE	
1400 Centerpoint Blvd. Suite 158	
Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature: Robert A Ellis	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX			REMARKS/ ALTERNATE DESCRIPTION
OB-04		03/24/01	09:47	Water	3	3	
BR-04		03/24/01	10:41	Water	3	3	
BR-08		03/24/01	13:18	Water	3	3	
BR-17		03/24/01	14:14	Water	3	3	
BR-12		03/25/01	08:55	Water	3	3	
BR-16		03/25/01	10:44	Water	3	3	
BR-13		03/25/01	12:06	Water	3	3	
BR-13-MS		03/25/01	12:08	Water	3	3	Matrix Spike
BR-13-MSD		03/25/01	12:08	Water	3	3	Matrix Spike Duplicate
BR-05		03/25/01	15:19	Water	3	3	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: K21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A Ellis	Signature: Cindy Toomey	Signature:	Signature: Gregory O. Emerson	Signature:	Signature:
Printed Name: Harding ESE	Printed Name: CRS	Printed Name:	Printed Name: Gregory O. Emerson	Printed Name:	Printed Name:
Firm: 03/26/01 16:15	Firm: 3/26/01 1615	Firm:	Firm: CAS	Firm:	Firm:
Date/Time:	Date/Time:	Date/Time:	Time: 3-26-01 1615	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 2 OF 2

SR # 1
CAS Contact

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager/Contact: Romy Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ METALS ☐ SVOA's	WASTE CHARACTERIZATION ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Iron(II) Ferrous	Methane, Ethane, Ethene	CO_2, Alkalinity
OB-09		03/26/01	11:37	Water	12	3											1	3	1	1	2	1
BR-15		03/26/01	14:15	Water	3	3																
QAFB02		03/26/01	15:51	Water	3	3																
QARB02		03/26/01	15:54	Water	3	3																

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: R01-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Cindy Toomey	Signature:	Signature:	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: Cindy Toomey	Printed Name:	Printed Name: Gregory P. Emerson	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/26/01 16:15	Date/Time: 3/26/01 1615	Date/Time:	Date/Time: 3-26-01 16:15	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding - K Submission Number R2-6245

Cooler received on 3/26/01 by: ME COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					(YES) / NO
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were Ice or Ice packs present?					(YES) NO
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	6				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐
	Date/Time Temperatures Taken:		3/26/01		1630	
	Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)					

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3-27-01 by: ME

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE _____ OF _____

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8726
Sampler's Signature: Robert A. Ellis	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate, Sulfate, Chloride	TOC	Sulfide	Iron (II) Excess	Methane, Ethane, Ethene	CO_2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
TW-20	450774	03/27/01	10:05	Water	12	3									1	3	1	1	2	1	
TW-09	775	03/27/01	12:37	Water	12	3									1	3	1	1	2	1	

131

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
65799
PO#
BILL TO:

SUBMISSION#: R21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A. Ellis	Signature: V Gardner	Signature:	Signature: Gregory C. Bmerian	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: CAS	Printed Name:	Printed Name: Gregory C. Bmerian	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/28/01 07:20	Date/Time: 3/28/01 @ 0720	Date/Time:	Date/Time: 3-28-01 7:20	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client Harding Submission Number R2-6245

Cooler received on 3-28-01 by: HE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?	YES / (NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?	(YES) NO
4.	Did any VOA vials have significant air bubbles?	YES (NO) N/A
5.	Were (Ice) or Ice packs present?	(YES) NO
6.	Where did the bottles originate?	(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	1°

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 3-28-01 @ 7:30

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3-28-01 by: HE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO
3.	Were correct containers used for the tests indicated?	(YES) NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SR #

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 57870.4
Project Manager/Contact: Ronny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd. Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☒8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/ PCB's ☐8081 ☐608 ☐CLP ☐8082	STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP	STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐METALS ☐SVOA's ☐H/P	WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Nitrate Sulfate Chloride	TOC	Sulfide	Iron (II) Ferrous	Methane, Ethane, Ethene	CO2, Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
BR-09		03/28/01	09:40	Water	3	3																	
BR-10		03/28/01	11:03	Water	3	3																	
QATB03		03/28/01	00:00	Water	3	3																	Trip Blank
OB-01		03/28/01	15:23	Water	12	3										1	3	1	1	2	1		
BR-11		03/28/01	16:50	Water	3	3																	
BR-11D		03/28/01	16:51	Water	3	3																	Duplicate

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
__X__ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #: R21-6245

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: V Gardner	Signature:	Signature: Gregory O. Emerson	Signature:	Signature:
Printed Name: Robert A Ellis	Printed Name: CAS	Printed Name:	Printed Name: Gregory O. Emerson	Printed Name:	Printed Name:
Firm: Harding ESE	Firm: 3/29/01 @ 0730	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 03/29/01 07:00	Date/Time:	Date/Time:	Date/Time: 3-29-01 7:30	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services, INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE _____ OF _____

SR # 136

CAS Contact

Project Name: Former Taylor Instruments	Project Number: 51870.4
Project Manager/Contact: Lonny Fields	Report CC:
Company/Address: Harding ESE 1400 Centerpoint Blvd Suite 158 Knoxville, TN 37932	
Phone #: (865) 531-1922	FAX#: (865) 531-8226
Sampler's Signature:	Sampler's Printed Name: Robert A Ellis

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐8260 ☐624 ☐CLP
GC/MS SVOA's ☐8270 ☐625 ☐CLP
GC VOA's ☐8021 ☐601/602
PESTICIDES/ PCB's ☐8081 ☐608 ☐CLP ☐8082
STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP
STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP
TCLP ☐VOA's ☐METALS ☐SVOA's ☐H/P
WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Nitrate, Sulfate, Chloride, Iron (II) Ferrous Sulfide
Alkalinity, CO_2
TOC
Ethene, Methane, Ethane

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/ PCB's ☐8081 ☐608 ☐CLP ☐8082	STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP	STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐METALS ☐SVOA's ☐H/P	WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below) Nitrate, Sulfate, Chloride, Iron (II) Ferrous Sulfide	Alkalinity, CO_2	TOC	Ethene, Methane, Ethane	REMARKS/ ALTERNATE DESCRIPTION
TW-07		03/24/01	09:45	Water	11	3										1	1	1	3	2	
W-2		03/24/01	11:10	Water												1*		1			* only Chloride
OB-08		03/24/01	11:45	Water	8											1	1	1	3	2	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
_X_ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
6599
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 4 CUSTODY SEALS: Y N Client

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert A. Ellis	Signature: Joni Janson	Signature: Bryan Collier	Signature	Signature	Signature
Printed Name: Robert A Ellis	Printed Name: Joni Janson	Printed Name: Bryan Collier	Printed Name	Printed Name	Printed Name
Firm: Harding ESE	Firm: CAS	Firm: CAS	Firm	Firm	Firm
Date/Time: 03/24/01 12:15	Date/Time: 3/29/01 14:30	Date/Time: 3/24/01 1430	Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.

Cooler Receipt And Preservation Check Form

Project/Client Harding Submission Number 6745

Cooler received on 3/29/01 by: BL COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					YES / NO
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES NO N/A
5.	Were Ice or Ice packs present?					(YES) NO
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	4				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 3/29/01 1507

Thermometer ID: _____ Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 3/30/01 by: BL

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO
3.	Were correct containers used for the tests indicated?	(YES) NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments: