PRE-REMEDY GROUNDWATER MONITORING REPORT MAY 1999 SAMPLING EVENT

FORMER TAYLOR INSTRUMENTS FACILITY ROCHESTER, NEW YORK

Prepared for

Combustion Engineering, Inc.

Prepared By

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Project No. 44836-0719841

July 1999

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MAY 1999 SAMPLING EVENT
TAYLOR INSTRUMENTS FACILITY

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LIST OF ACRONYMS

µg/L	micrograms per liter
CCB	continuing calibration blank
COC	contaminants of concern
ELAP	Environmental Laboratory Accreditation Program
HLA	Harding Lawson Associates
ICB	initial calibration blanks
LCS	laboratory control sample
MCL	Maximum Contaminant Level
ml/min	milliliters per minute
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
PB	preparation blanks
RPD	relative percent difference
TCE	trichloroethene
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes activities and results for the first of the 1999 tri-annual groundwater sampling events to take place at the former Taylor Instruments Facility – New York Department of Environmental Conservation (NYSDEC) Site #828028a located in Rochester, New York. The Pre-Remedy Groundwater Monitoring Program has been implemented to establish baseline groundwater conditions from which an evaluation of natural and remediation-induced trends of site-related contaminants of concern (COCs) can be determined.

2.0 SCOPE OF WORK

Harding Lawson Associates (HLA) collected groundwater samples from selected monitoring wells at the Taylor Instruments Site from May 4 to 6, 1999. Sampling was accomplished in accordance with the Work Plan for the Pre-Remedy Groundwater Monitoring Program (Harding Lawson Associates [HLA], 1999). The wells associated with the groundwater monitoring plan and analyses for which they were submitted is listed in Table 2-1. Figure 3-1 (Appendix A) shows the site boundary and locations of monitoring wells.

All monitoring wells were sampled using low-flow peristaltic pumps at flow rates of 400 milliliters per minute (ml/min) or less. Field measurements of pH, conductivity, temperature, turbidity and dissolved oxygen were collected during purging. Purge and sample data can be found on the field data records (Appendix B).

Table 2-1
Wells and Analyses
May 1999 Sampling Event

Pre-Remedy Groundwater Monitoring Program
Taylor Instruments Site, Rochester, NY

Well ID	Well Type	VOCs	Mercury	Engineering and Natural Attenuation Parameters
BR-01	Bedrock	X	X	X
BR-02	Bedrock	X	X	
BR-03	Bedrock	X	X	X
BR-04	Bedrock	X	X	X
BR-05	Bedrock	X	X	X
BR-06	Bedrock	X	X	X
BR-07	Bedrock	X	X	
OB-04	Overburden	X	X	X
OB-05	Overburden	X	X	X
MW00	Overburden	X	X	
TW01	Overburden	X	X	
TW04	Overburden	X	X	X
TW07	Overburden	X	X	
TW09	Overburden	X	X	
TW13	Overburden	X	X	
TW17	Overburden	X	X	X
TW20	Overburden	X	X	
TW69	Overburden	X	X	
TW74	Overburden	X	X	
W-1	Overburden	X	X	
W-2	Overburden	X	X	X
W-3	Overburden	X	X	
W-4	Overburden	X	X	
W-5	Overburden	X	X	
W-6	Overburden	X	X	

3.0 SUMMARY OF RESULTS

The following paragraphs summarize the volatile organic compound (VOC) and mercury results of the May 1999 sampling event. Engineering and natural attenuation parameters were also collected to provide data for use in remedial design. These results are reported

herein, but not discussed. Data tables for all analytical parameters are presented in Appendix C.

3.1 VOC Results

3.1.1 Overburden Wells

A total of eighteen overburden wells were sampled during the May 1999 Groundwater Sampling Event and analyzed for VOCs. Results for compounds detected in any of the on-site wells are presented in Table 3-1, and Table 3-2 lists results for all VOC analytes. The tables include the results for previous sampling events of September 1997 and October 1997. Trichloroethene (TCE) was reported in samples from ten of the eighteen overburden wells. TCE is the predominant site-related VOC historically detected in the groundwater at the Taylor Instruments Site. TCE was not present in wells located upgradient (generally south and west) of TCE source areas (i.e., W-1, W-2, W-6, and TW-69). TCE was present in source area wells (OB-04 and OB-05) at concentrations up to 68,000J micrograms per liter (µg/L) and in downgradient perimeter wells at concentrations up to 3,000J µg/L (W-5). Figure 3-2 (Appendix A) is an interpretive potentiometric surface map for shallow-overburden groundwater.

Other VOCs detected (and the highest reported concentration) included biotic transformation products of TCE: cis-1,2-dichloroethene (up to 2,700J µg/L), trans-1,2-dichloroethene (41J µg/L), 1,1-dichloroethene (23 µg/L), and vinyl chloride (140 µg/L). Tetrachloroethene was measured only in the two source area wells at concentrations below 25 µg/L. Low levels of fuel type hydrocarbons (benzene, ethylbenzene, and toluene) were also measured in the south source area well (OB-04).

Compounds identified in the May 1999 sampling event are consistent with historic sampling data. Concentrations of TCE show a marked decrease at the source areas when compared to 1997 levels.

3.1.2 Bedrock Wells

All seven site bedrock wells were sampled and analyzed for VOCs. TCE and cis-1,2-dichloroethene were detected in six of the seven wells. No VOCs were detected in upgradient well BR-06. TCE was detected in source area wells (BR-04 and BR-05) at concentrations up to 6,700 µg/L. TCE was present in downgradient perimeter wells at concentrations up to 3,300J µg/L (BR-02). Cis-1,2-dichloroethene was detected at concentrations ranging up to 1,200J µg/L (BR-02). Similar to overburden results, these concentrations are lower in the source area bedrock wells BR-04 and BR-05 than the September and October 1997 results (Table 3-1).

3.2 MERCURY RESULTS

3.2.1 Overburden Wells

Three of eighteen overburden wells exhibited positive results for Mercury (TW07, TW69, and TW74). Mercury concentrations in wells TW07 and TW69 were 0.74 and 0.59 µg/L, respectively. In September/October 1997, mercury was detected in TW07 and TW69 at concentrations of 5.0 and 1.6 µg/L, respectively. The May 1999 results show a decrease in mercury concentrations compared to the historical results and are below the Maximum Contaminant Level (MCL) of 2.0 µg/L for mercury. The concentration of mercury in TW74, an interior well, has increased from 0.48 to 2.2 µg/L, when compared to the September/October 1997 results. This well is located adjacent to a known mercury source in shallow subsurface soils that will be removed during site remediation. Mercury results are presented in Table 3-3 (Appendix C).

3.2.2 Bedrock

Mercury was not detected in any of the bedrock wells.

3.3 ENGINEERING AND NATURAL ATTENUATION PARAMETERS

Results are presented in Tables 3-4 and 3-5 in Appendix C.

4.0 ANALYTICAL PROGRAM

Groundwater samples from the May 1999 sampling event were analyzed at Columbia Analytical Services, Rochester, New York, for VOC analyses by U.S. Environmental Protection Agency (USEPA) 8260b and Mercury by USEPA 7470 (cold vapor atomic absorption). Selected samples were submitted for engineering and natural attenuation parameters to provide additional data for treatment system design. Analyses and methods are listed in Table 4-1. The chain-of-custody forms are located in Appendix D.

Data quality was evaluated in accordance with the work plan using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 1994a) and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 1994b), where applicable. The data set was evaluated for the following four categories:

- Precision and Accuracy
- Representativeness
- Completeness
- Comparability

Table 4-1
Analyses/Methods
May 1999 Sampling Event

Pre-Remedy Groundwater Monitoring Program
Taylor Instruments Site, Rochester, NY

ANALYSIS	METHOD	DESCRIPTION
Volatile Organic Compounds	8260b	Volatiles by GC/MS
Mercury	7470	Hg by cold vapor atomic absorption
Engineering Parameters		
TAL Metals	6010/200.7	TAL metals
Hardness	215.1	Hardness, magnesium and calcium
TSS	160.2	Total Suspended Solids
TDS	160.1	Total Dissolved Solids
Iron (dissolved)	6010/200.7	Dissolved iron by ICP
Natural Attenuation Parameters		
TOC	415.1	Total Organic Carbon
BOD	405.1	Biochemical Oxygen Demand (5-Day)
COD	410.4	Chemical Oxygen Demand
Alkalinity	310.1	Alkalinity
Total Nitrogen	351.2	Kjeldahl Nitrogen , total
Nitrogen	351/353	Nitrate/Nitrite as N
Chloride	300.0	Chloride by ion chromatography
Sulfate	300.0	Sulfate by ion chromatography
Phosphate	365.1	Phosphorus, total
Sulfide	376.1	Sulfide, total
Gases (ethene, ethane, methane)	8015	Gases by modified 8015

4.1 ANALYTICAL PRECISION AND ACCURACY

4.1.1 Volatile Organic Compounds

The matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on samples from two wells, BR-04 and W-6 (samples BR04059901 and W6059901). The MS/MSD recoveries and relative percent differences (RPDs) were within the specified control limits, indicating acceptable accuracy for the matrix and the method and acceptable precision for the laboratory. All of the laboratory control samples (LCSs) exhibited acceptable recoveries.

All surrogate standard recoveries were within acceptance limits for all samples except for 4-bromofluorobenzene in samples TW17059901, BR05059901, TW74059901, TW20059901, W5059901, and TW09059901D. The surrogate recovery for 4-bromofluorobenzene was below the lower control limit for all of the samples listed above. Positive results are qualified "J" and the sample quantitation limits for the non-detected target compounds are qualified "UJ" as estimated.

Water sample TW09059901 was initially analyzed one day outside the hold time. Positive results are qualified "J" and the sample quantitation limits for the nondetected target compounds are qualified "UJ" as estimated.

Water samples BR01059901, BR02059901, BR03059901, BR04059901D, BR05059901, BR07059901, OB04059901, OB05059901, TW17059901, TW09059901, TW09059901D, and W5059901 were re-analyzed at higher dilutions to bring target analytes within the calibration range of the method. Two results were not brought into range. The cis-1,2-dichloroethene result for sample OB04059901 and the trichloroethene result for BR04059901exceeded the calibration range and were flagged "J" as estimated.

The re-analyses for samples BR040559901D, OB04059901, and OB05059901 exceeded the fourteen day hold time by one day. The re-analyses for samples BR02059901, BR07059901, TW09059901, TW09059901D, and W5059901 exceeded the hold time by two days. The re-analysis for sample BR03059901 exceeded the hold time by three days. The results taken from the re-analyses that exceeded the hold time were qualified "J" in accordance with the *National Functional Guidelines for Organic Data Review*. The laboratory data reports are located in Appendix E.

4.1.2 Mercury

The matrix spike (MS) analyses were performed on samples from two wells, BR-04 and W-6 (samples BR04059901 and W6059901, respectively). The MS recoveries were within the specified control limits, indicating acceptable accuracy for the matrix and the method. The laboratory blank spike recoveries were within the control limits.

The duplicate analyses were performed on samples BR04059901 and W6059901. Neither sample exhibited positive results for mercury; therefore, precision cannot be assessed.

4.2 ANALYTICAL REPRESENTATIVENESS

4.2.1 Volatile Organic Compounds

All method blanks, trip blanks and field blanks were free of contamination. One of the two rinseate blanks (QABR01) exhibited a positive result for 2-butanone at 14 µg/L. 2-Butanone was not detected in any of the environmental samples; therefore, no action was taken.

4.2.2 Mercury

All rinseate blanks, field blanks, initial calibration blanks (ICB), continuing calibration blanks (CCB) and preparation blanks (PB) were free of contamination.

4.3 COMPLETENESS

No major laboratory deficiencies were discovered during the evaluation. No target analyte data was rejected. The data set is 100 percent complete.

4.4 COMPARABILITY

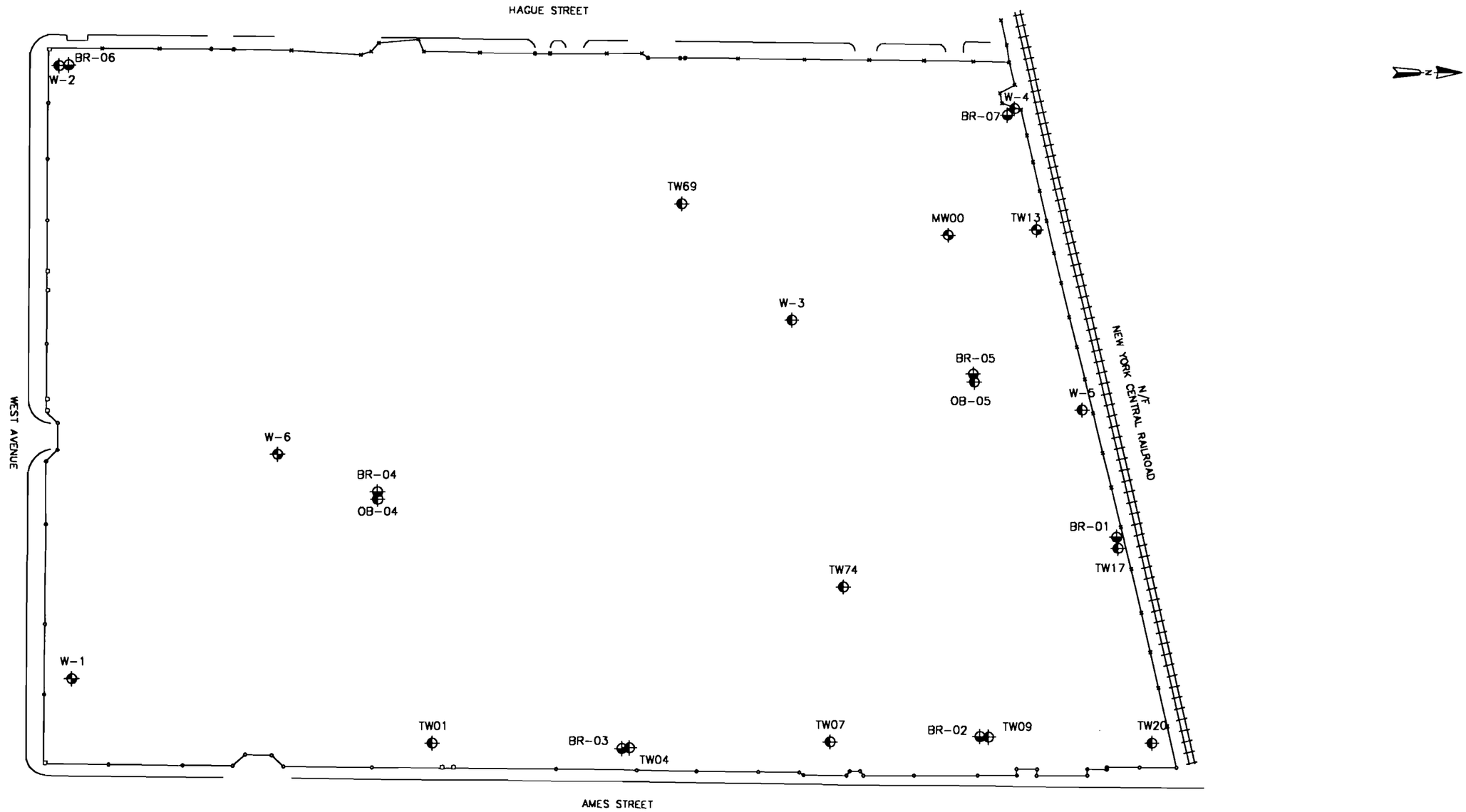
All analyses were performed by Columbia Analytical Services, an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. Results were reported according to NYSDEC Analytical Services Protocols. The data are interpreted to be comparable to other data sets provided by ELAP-certified laboratories using comparable analytical methods.

5.0 CONCLUSIONS

The May 1999 groundwater results are consistent with earlier groundwater sampling data and will be used to provide an ongoing baseline of contaminant concentration trends prior to site remediation. The next sampling event is scheduled for September 1999 and will be completed in accordance with the *Pre-Remedy Groundwater Monitoring Work Plan* (HLA, 1999).

APPENDIX A

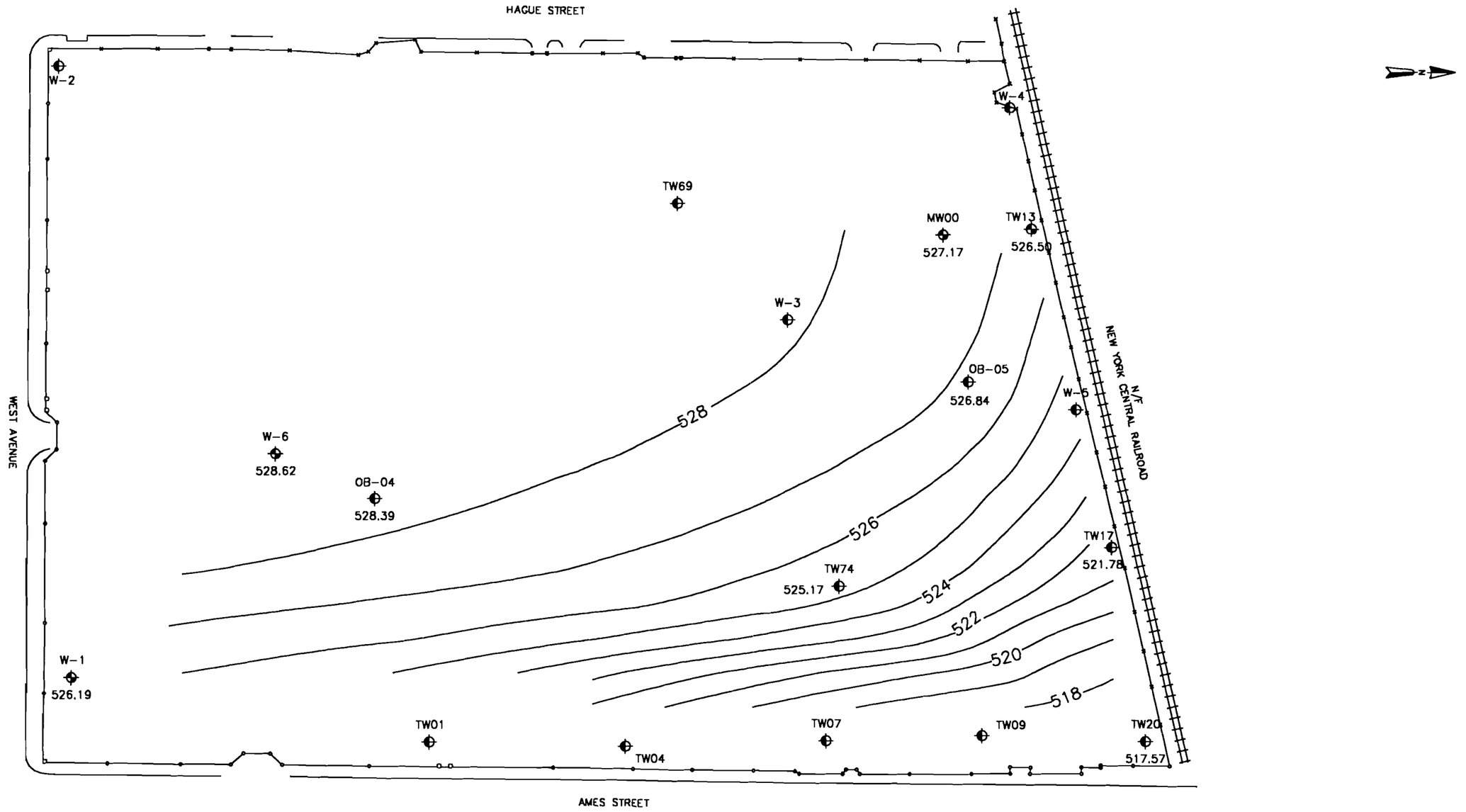
FIGURES



HLA Harding Lawson Associates	TITLE: GROUNDWATER MONITORING LOCATIONS PRE-REMEDY GROUNDWATER MONITORING PROGRAM TAYLOR INSTRUMENTS SITE, ROCHESTER, NY	0 50 100 FEET	DWN: JRF CHKD: DATE: 7/7/99	DES.: APPD: REV.: 00

PROJECT NO.: 44836

FIGURE NO.: 3-1



HLA Harding Lawson Associates	TITLE: POTENTIOMETRIC SURFACE MAP OVERBURDEN GROUNDWATER, MAY 1999 TAYLOR INSTRUMENTS FACILITY, ROCHESTER, NY	0 50 100 FEET	DWN: JRF	DES.:	PROJECT NO.: 44836
			CHKD:	APPD:	FIGURE NO.: 3-2
			DATE: 7/16/99	REV.: 01	

APPENDIX B

FIELD SAMPLE RECORDS

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: BR01059901

Project: Ames St | Job Number: 7198.41 | Date: 5-6-99

Sample Location ID: BRØ1 | Location Activity: Start 1122 End 1321

Field QC Data: ☐ Field Duplicate Collected Dup ID ________

WATER LEVEL / WELL DATA

Well Depth: 41.91 FT ☑ Measured ☐ Historical ☐ TOC ☑ Top of Prot. Casing ☐ ________

Well Stick-up (from ground): ____ FT | Prot. Casing/TOC Diff.: ____ FT

Depth to Water: 11.51 FT | Historical Well Depth: ____ FT

Well Dia.: ☐ 2 Inch ☑ 4 Inch ☐ 6 Inch ☐ ________

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☐	☑
Well Locked	☑	☐	☐
Other: ________	☐	☐	☐

Height of Water Column: 30.40 FT × ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 19.76 GAL/VOL

TOTAL GAL PURGED: ~~2+~~ continued on next page

Ambient Air: 0.0 PPM | Well Mouth: 0.0 PPM

PURGE DATA

Start Purge: 1122 | End Purge: Continue on other page

	1130	1135	1143	1149	1158
Purge Volume	@ 0.5 GAL	@ 0.7 GAL	@ 1.2 GAL	@ 1.6 GAL	@ 2.1 GAL
Temp, Deg C	16.4	16.7	16.7	16.8	16.7
pH, Units	7.80	7.67	7.72	7.60	7.62
Specific Conductivity umhos/cm	1.07	1.07	1.05	1.08	1.07
Turbidity (NTUs)	555	207	147	154	121
DO (mg/L)	1.08	2.08	2.54		2.34

Sample Observations:
- ☑ Clear w/ black flecks
- ☐ Colored ________
- ☐ Cloudy ________
- ☑ Turbid ________
- ☐ Odor ________
- ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	
☑	☑	Peristaltic Pump
☐	☐	Submersible Pump
☐	☐	Bailer
☑	☑	Teflon Tubing
☐	☐	Air Lift
☐	☐	Waterra
	☐	In-line Filter
	☐	Press/Vac Filter
☐	☐	________

Equipment ID: ISCO # ____ KECK # ____ ☐ 2" ☐ 1" # ____ ☐ CSD ________

Decon Fluids Used: ☑ Liqui-Nox ☑ Deionized Water ☐ HNO3 ☐ Potable Water ☐ Isopropanol ☐ None ☐ ________

Water Level Equip. Used: ☑ Electric Cond. Probe ☐ Float Activated ☐ Keck Interface Probe ☐ Other ________

Number of Filters Used ________

NOTES: flow rate ≈ 220 ml/min.
1157 Decreased flow to ≈ 220 ml/min.
~~1157 Date~~ 1150 increased flow to clean sediment out of ~~to~~ tubing.

SM Approval ________

Date: 5/6/99

Signature: [signature]

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: BR01059901

Project: Ames St | Job Number: 7198.41 | Date: 5/6/99

Sample Location ID: BR-01 | Location Activity: Start 1122 End 1321

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 41.91 FT | ☑ Measured ☐ Historical | ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 11.51 FT | Historical Well Depth: _____ FT

Well Dia. ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ _____

Well Material: ☐ PVC ☑ Steel

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 30.40 FT X ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 21.4 GAL/VOL

5.4 TOTAL GAL PURGED

Ambient Air: _____ PPM | Well Mouth: _____ PPM

PURGE DATA

Continue from previous page

Start Purge: 1241 | End Purge: 1256

Purge Volume	@ 4.6 GAL	@ 5.2 GAL	@ 5.4 GAL	@ ___ GAL	@ ___ GAL
Time	1241	1250	1255		
Temp. Deg C	17.0	16.9	16.8		
pH, Units	7.66	7.64	7.67		
Specific Conductivity umhos/cm	1.08	1.07	1.08		
Turbidity	97	100	98		
DO	4.30	3.56	3.82		

Sample Observations:
☑ Clear + black flecks
☐ Colored _____
☐ Cloudy _____
☐ Turbid _____
☐ Odor _____
☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☐ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☐ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☑ Keck Interface Probe
☐	☐ Teflon Tubing	☐ QED _____	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 220 ml/min. Final DTW - 11.90'

SM Approval: _____ | Date: 5/6/99 | Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: BR02059901

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: BR-02 | Location Activity: Start 0837 End 0948

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 44.29 FT | ☑ Measured ☐ Historical | ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 25.07 FT | Historical Well Depth: _____ FT

Well Dia.: ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ _____

Well Material: ☐ PVC ☑ ~~SS~~ steel liner

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 19.22 FT × ☐ ~~.16~~ GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = ~12.5 GAL/VOL

~1.0 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.2 PPM

PURGE DATA

Start Purge: 0916 | End Purge: 0942

Purge Volume	@ 0.6 GAL (0935)	@ 0.7 GAL (0935)	@ 0.9 GAL (0939)	@ 1.0 GAL (0942)	@ ___ GAL
Temp. Deg C	16.4	15.7	15.5	15.7	
pH, Units	8.14	7.90	7.70	7.41	
Specific Conductivity umhos/cm	1.28	1.19	1.19	1.21	
Turbidity	21	21	20	17	
DO mg/L	7.84	7.26	7.63	6.06	

Sample Observations: ☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ ~~Liqui-Nox~~	☑ ~~Electric~~ Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 140 mL/min. Final DTW 25.35'

SM Approval: _____ Date: 5-5-99

Signature: Doreen Carrigeen

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: BR03059901

Project: Ames St. | Job Number: 7198.41 | Date: 5-4-99

Sample Location ID: BR-03 | Location Activity: Start 1824 1836 End 1935

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 40.91 FT — ☑ Measured ☐ Historical — ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 9.96 FT | Historical Well Depth: _____ FT

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Dia. ☐ 2 Inch ☑ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 30.95 FT X ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 20.1 GAL/VOL

2.4 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.0 PPM

PURGE DATA

Start Purge: 1836 | End Purge: 1905

Purge Volume	@ 0.8 GAL (1825)	@ 1.3 GAL (1851)	@ 2.0 GAL (1859)	@ 2.4 GAL (1904)	@ ___ GAL
Temp. Deg C	14.0	13.4	13.4	13.6	
pH, Units	7.82	7.77	7.71	7.76	
Specific Conductivity umhos/cm	1.27	1.28	1.28	1.30	
Turbidity	13	12	10	10	
DO mg/L	0.87	1.75	1.86	1.95	

Sample Observations: ☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☐ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # WZ0025	☐ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☑ 1" # ___	☐ HNO3	☑ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☑ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used: _____
☐	☐ Waterra		☐ None	
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 330 ml/min. final depth to water 12.60'

SM Approval _____ Date: 5/4/99

Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of ___

Sample ID: BR04059901

Project: Ames St | Job Number: 7198.41 | Date: 5-6-99

Sample Location ID: BR-04 | Location Activity: Start 1347 End

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 45.30 FT | ☑ Measured ☐ Historical | ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): ___ FT | Prot. Casing/TOC Diff.: ___ FT

Depth to Water: 21.24 FT | Historical Well Depth: ___ FT

Well Dia: ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ _____

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☐	☐	☐
Concrete Collar Intact	☐	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 24.06 FT

X ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN)

= 15.7 GAL/VOL

1.2 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.0 PPM

PURGE DATA

Start Purge: 1348 | End Purge:

Purge Volume	@ 0.2 GAL (1404)	@ 1.0 GAL (1410)	@ 1.2 GAL (1416)	@ ___ GAL	@ ___ GAL
Temp. Deg C	22.3	21.1	21.4		
pH, Units	7.48	7.60	7.52		
Specific Conductivity umhos/cm	2.08	2.12	2.14		
Turbidity	9	9	9		
DO mg/L	4.97	5.21	5.66		

Sample Observations:
☑ Clear Some black flecks
☐ Colored _____
☐ Cloudy _____
☐ Turbid _____
☐ Odor _____
☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used ___
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____			

NOTES: Flow rate ≈ 165 ml/min | final DTW = 21.25

SM Approval _____ | Date: 5/7/99 | Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: BR0505990 1

Project: Ames St | Job Number: 7198.41 | Date: 5-6-99

Sample Location ID: BR-05 | Location Activity: Start 1455 End 1605

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 51.56 FT ☑ Measured ☐ Historical | ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/ TOC Diff.: _____ FT

Depth to Water: 22.19 FT | Historical Well Depth: _____ FT

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Dia. ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 29.37 FT X ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 19.1 GAL/VOL | 1.5 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.2 PPM

PURGE DATA

Start Purge: 1455 | End Purge: 1526

Purge Volume	1506 @ 0.5 GAL	1511 @ 0.8 GAL	1516 @ 1.0 GAL	1521 @ 1.2 GAL	1526 @ 1.5 GAL
Temp. Deg C	19.4	18.9	19.0	18.8	18.9
pH, Units	7.69	7.61	7.62	7.62	7.60
Specific Conductivity umhos/cm	1.71	1.72	1.71	1.71	1.73
Turbidity	53	78	60	60	59
DO (mg/L)	6.50	6.22	6.05	5.95	6.19

Sample Observations:
☑ Clear Some black flecks
☐ Colored _____
☐ Cloudy _____
☐ Turbid _____
☐ Odor _____
☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 180 ml/min. final depth to water = 22.19

SM Approval: _____ Date: 5/6/99

Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: ~~DC 5-4-99 BR0605990~~ BR0605990 1

Project: Ames St.

Job Number: 7198.41

Date: 5-4-99

Sample Location ID: BR-06

Location Activity: Start 1620 End

Field QC Data: ☐ Field Duplicate Collected Dup ID

WATER LEVEL / WELL DATA

Well Depth: ~~44.16~~ 16.9 ~~12.60~~ FT ☐ Measured ☐ Historical ☐ TOC ☐ Top of Prot. Casing ☐

Well Stick-up (from ground): FT

Prot. Casing/ TOC Diff.: FT

Depth to Water: ~~11.60~~ nc FT

Historical Well Depth: FT

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Dia. ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other:	☐	☐	☐

Height of Water Column: ~~31.56~~ 27.26 ~~32.56~~ FT nc

X ☐ ~~.16~~ GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN)

= ~~5x 20.5~~ 17.7 GAL/VOL

4.13 TOTAL GAL PURGED

Ambient Air: 0.0 PPM

Well Mouth: 0.0 PPM

Flow rate ≈ 285 mL/min

5+

RF 7/13/99

PURGE DATA

Start Purge: ~~1650~~ 1705 End Purge: 1720

Purge Volume	1712 @ 1.53 GAL	1714 @ 0.65 GAL	1717 @ 2.90 GAL	@ 4.13 GAL	@ ___ GAL
Temp. Deg C	14.9	14.7	14.1	14.0	
pH, Units	8.02	7.96	7.76	7.71	
Specific Conductivity umhos/cm	1.08	1.13	1.23	1.25	
turbidity	15	15	9	8	
DO (mg/L)	0.87	2.27	1.68	1.20	

Sample Observations:
- ☑ Clear
- ☑ Colored greenish hint
- ☐ Cloudy
- ☐ Turbid
- ☐ Odor
- ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO #	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK #	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" #	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ OED	☐ Potable Water	☐ Other
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used
	☐ In-line Filter		☐	
	☐ Press/Vac Filter			
☐	☐			

NOTES: Started w/ whale pump. Pumped out 5 gallons, but was pumping too quickly so we went to peristaltic. 1.3 gal/min

Final DTW - 15.54'

SM Approval

Date: 5-4-99

Signature: Denver Carrigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: BR07059901

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: BR-07 | Location Activity: Start 1033 End 1125

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 52.88 FT | ☑ Measured ☐ Historical | ☐ TOC ☑ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 24.03 FT | Historical Well Depth: _____ FT

Well Dia: ☐ 2 inch ☑ 4 inch ☐ 6 inch ☐ _____

Well Material: ☐ PVC ☐ SS ☑ Steel

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☐	☑
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 28.85 FT | X ☐ .16 GAL/FT (2 IN) ☑ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = ~18.75 GAL/VOL

TOTAL GAL PURGED: 1.0

Ambient Air: 0.0 PPM | Well Mouth: 0.0 PPM

Flow rate ~ 225 ~~mg/L~~ mL/min

PURGE DATA

Start Purge: 1047 | End Purge: 1105

Purge Volume	@ 0.48 GAL (1055)	@ 0.77 GAL (1100)	@ 1.0 GAL (1104)	@ ___ GAL	@ ___ GAL
Temp. Deg C	18.6	18.3	18.6		
pH, Units	7.76	7.70	7.75		
Specific Conductivity umhos/cm	4.63	4.06	4.07		
turbidity	1	1	0		
DO mg/L	6.02	5.96	6.10		

Sample Observations:
☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used: _____
☐	☐ Waterra		☐ None	
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final OTW - 25.53'

SM Approval: _____ Date: 5-5-99

Signature: Deven Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: MW00059901

Project: Ames SF | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: ~~MW-07~~ MW-00 | Location Activity: Start 1518 End 1551

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 12.23 Ft | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ Ft | Prot. Casing/TOC Diff.: _____ Ft

Depth to Water: 8.53 Ft | Historical Well Depth: _____ Ft

Well Dia: ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Material: ☑ PVC ☐ SS ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 3.70 Ft X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 0.6 GAL/VOL | 1.1 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 6.4 PPM

Flow rate - 220 mL/min

PURGE DATA

Start Purge: 1515 | End Purge: 1535

Purge Volume	@ 0.23 GAL (1519)	@ 0.37 GAL (1530)	@ 1.1 GAL (1534)	@ ___ GAL	@ ___ GAL
Temp. Deg C	16.9	17.2	17.0		
pH, Units	7.44	7.39	7.41		
Specific Conductivity umhos/cm	0.855	0.861	0.861		
turbidity	5	1	2		
DO mg/L	1.40	1.74	1.72		

Sample Observations: ☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☐ Peristaltic Pump	ISCO # _____	☐ Liqui-Nox	☐ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 8.53'

SM Approval: _____ Date: 5-5-99

Signature: Deven Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: OB04059901

Project: Ames St | Job Number: 7198.41 | Date: 5-6-99

Sample Location ID: OB-04 | Location Activity: Start 1335 End 1505

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 18.73 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 16.81 FT | Historical Well Depth: _____ FT

Well Dia.: ☐ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Material: ☐ PVC ☐ SS ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☐	☐	☐
Concrete Collar Intact	☐	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 11.92 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 1.9 GAL/VOL

2.2 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 202.6 PPM

Flow rate 400 mL/min

PURGE DATA

* Note: 3 min hiatus to change batteries

Start Purge: 1348 1355 1359 | 1403 | End Purge: 1413 1412

Purge Volume	@ 1.7 GAL	@ 1.2 GAL	@ 1.8 GAL	@ 2.2 GAL	@ ___ GAL
Temp, Deg C	18.1	17.2	15.3	15.5	
pH, Units	7.83	7.86	7.77	7.76	
Specific Conductivity umhos/cm	1.42	1.42	1.36	1.32	
turbidity	23	12	4	2	
~~Cond~~ DO mg/L	1.30	2.00	1.24	1.65	

Sample Observations: ☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 8.98'

SM Approval: _____ Date: 5-6-99

Signature: D. Carlson

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: OB05059901

Project: Ames St Job Number: 7198.41 Date: 5-6-99

Sample Location ID: OB05 Location Activity: Start 1231 End 1326

Field QC Data: ☐ Field Duplicate Collected Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 20.07 FT ☐ Measured ☐ Historical ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT Prot. Casing/ TOC Diff.: _____ FT

Depth to Water: 7.54 FT Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia. ☐ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 12.53 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 2.00 GAL/VOL

1.0 TOTAL GAL PURGED

Ambient Air: 0.0 PPM Well Mouth: 300 PPM

Flow rate ~~333 mL/min~~ ~305 mL/min

PURGE DATA

Start Purge: 1236 End Purge: 1250

Purge Volume	@ 1241 GAL	@ 1245 GAL	@ 1249 GAL	@ ___ GAL	@ ___ GAL
Temp. Deg C	16.2	16.1	16.3		
pH, Units	7.45	7.51	7.50		
Specific Conductivity umhos/cm	0.930	0.935	0.937		
turbidity	1	1	0		
00 mg/L	1.06	1.26	1.26		

Sample Observations: ☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 8.27'

Date: 5-6-99

SM Approval: _____ Signature: Deven Carrigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: TW01059901

Project: Ames St. | Job Number: 07198.41 | Date: 5/4/99

Sample Location ID: TW-01 | Location Activity: Start 1742 End 1810

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 22.03 FT ☑ Measured ☐ Historical ☐ TOC ☐ Top of Prot. Casing ☑ Flush

Well Stick-up (from ground): flush | Prot. Casing/TOC Diff.: ___ FT

Depth to Water: 8.11 FT | Historical Well Depth: ___ FT

Well Material: ☑ PVC ☐ SS ☐ ___

Well Dia.: ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ ___

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☐	☐
Other: ___	☐	☐	☐

Height of Water Column: 13.92 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 2.3 GAL/VOL

1.6 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 1.9 PPM

PURGE DATA

Start Purge: 1742 | End Purge: 1804

Purge Volume	@ 0.4 GAL (1747)	@ 0.7 GAL (1751)	@ 1.0 GAL (1755)	@ 1.3 GAL (1759)	@ 1.6 GAL (1803)
Temp. Deg C	12.9	12.4	12.3	12.7	12.6
pH, Units	8.60	8.62	8.59	8.53	8.50
Specific Conductivity umhos/cm	0.640	0.642	0.649	0.650	0.657
Turbidity	28	9	5	4	3
DO (mg/L)	2.57	2.49	2.22	2.42	2.35

Sample Observations: ☐ Clear ☐ Colored ___ ☐ Cloudy ___ ☐ Turbid ___ ☐ Odor ___ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # ___	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # ___	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CSD	☐ Potable Water	☐ Other ___
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used ___
	☐ In-line Filter		☐ ___	
	☐ Press/Vac Filter			
☐	☐ ___			

NOTES: purge rate ≈ 285 ml/min

SM Approval: _____ Date: 5-4-99 Signature: [signature]

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: TW040599901, D

Project: Ames St. | Job Number: 7198.41 | Date: 5-4-99

Sample Location ID: TW-04 | Location Activity: Start 1820 End 1939

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 20.55 FT ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 9.36 FT | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia.: ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 11.19 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = ≈1.8 GAL/VOL

2.43 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 2.9 PPM

Flow rate 0.4 L/min

PURGE DATA

Start Purge: 1827 End Purge: 1850

Purge Volume	@ 0.95 GAL (1836)	@ 1.64 GAL (1843)	@ 2.43 GAL (1850)	@ ___ GAL	@ ___ GAL
Temp. Deg C	12.5	11.8	12.1		
pH, Units	7.73	7.78	7.75		
Specific Conductivity umhos/cm	0.950	0.957	0.942		
turbidity	11	10	4		
DO mg/L	0.97	1.90	2.09		

Sample Observations:
☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☑ Odor Sulfur ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Sulfur odor.
Final DTW - 14.87'

SM Approval: _____ Date: 5-4-99

Signature: Deven Carigon

TW-7

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: TW07059901

Project: Ames St. | Job Number: 07198.41 | Date: 5/5/99

Sample Location ID: TW-07 | Location Activity: Start ~~0927~~ 0944 End 1020 RG 5/5/99

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 18.31 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): flush | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 10.75 FT | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia. ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☑	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 7.56 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 1.2 GAL/VOL

2.9 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 1.9 PPM

PURGE DATA

Start Purge: 0944 | End Purge: ~~26/5/99~~ 1013

Purge Volume	@ 0.9 GAL (0953)	@ 1.2 GAL (0956)	@ 1.6 GAL (1000)	@ 2.0 GAL (1004)	@ 2.4 GAL (1008)	2.9 GAL (1013)
Temp. Deg C	12.1	11.6	11.9	11.8	11.4	11.7
pH, Units	7.42	7.30	7.33	6.98	7.05	6.95
Specific Conductivity umhos/cm	1.89	1.90	1.89	1.88	1.88	1.88
Turbidity (NTUs)	22	34	60	20	5	12
DO mg/L	0.41	1.08	1.49	1.62	1.64	1.47

Sample Observations:
☑ Clear ☐ ~~Colored~~ _____ ☑ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CSD	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 385 ml/min. Collected VOA, Hg-CVAA

final DTW = 11.61'

Date: 5/5/99

SM Approval: _____ Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: TW090599901, D

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: TW-09 | Location Activity: Start 0837 End 0930

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 17.40 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 10.98 FT | Historical Well Depth: _____ FT

Well Dia.: ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Material: ☑ PVC ☐ SS ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☐	☐	☐
Concrete Collar Intact	☐	☑	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 6.42 FT | X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) | = ~1.03 GAL/VOL

1.6 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 5.2 PPM

Flow rate ~ 333 ~~mg/L~~ mL/min

PURGE DATA

Start Purge: 0844 | End Purge: 0910

Purge Volume	0843 @ 0.35 GAL	0857 @ 1.14 GAL	0902 @ 1.53 GAL	0910 @ ___ GAL	@ ___ GAL
Temp, Deg C	12.5	12.8	12.2		
pH, Units	7.85	7.79	7.73		
Specific Conductivity umhos/cm	0.97	5.94	0.95		
turbidity	15	5	3		
DO (mg/L)	1.43	2.00	1.72		

Sample Observations: ☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling
☑	☑ Peristaltic Pump
☐	☐ Submersible Pump
☐	☐ Bailer
☑	☑ Teflon Tubing
☐	☐ Air Lift
☐	☐ Waterra
	☐ In-line Filter
	☐ Press/Vac Filter
☐	☐ _____

Equipment ID: ISCO # _____ | KECK # _____ | ☐ 2" ☐ 1" # ___ | ☐ CSD

Decon Fluids Used: ☑ Liqui-Nox ☑ Deionized Water ☐ HNO3 ☐ Potable Water ☐ Isopropanol ☐ None ☐ _____

Water Level Equip. Used: ☑ Electric Cond. Probe ☐ Float Activated ☐ Keck Interface Probe ☐ Other _____

Number of Filters Used: _____

NOTES:

SM Approval: _____ Date: 5-5-99

Signature: Deven Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: TW130599O1

Project: Ames St. Job Number: 7198.41 Date: 5-5-99

Sample Location ID: TW-13 Location Activity: Start 1521 End ~~1102~~ 1602 (1552 5-5-99)

Field QC Data: ☐ Field Duplicate Collected Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 14.88 FT ☑ Measured ☐ Historical ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): flush FT Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 5.05 FT Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia.: ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 9.83 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 1.6 GAL/VOL

1.2 TOTAL GAL PURGED

Ambient Air: 0.0 PPM Well Mouth: 3.2 PPM

PURGE DATA

Start Purge: 1526 End Purge: 1552

Purge Volume	@ 0.6 GAL (1539)	@ 0.9 GAL (1545)	@ 1.2 GAL (1551)	@ ___ GAL	@ ___ GAL
Temp. Deg C	18.9	17.5	17.7		
pH, Units	7.49	7.53	7.35		
Specific Conductivity umhos/cm	1.79	1.80	1.82		
Turbidity (NTUs)	28	32	28		
DO (mg/L)	1.30	1.72	1.51		

Sample Observations:
☑ Clear (black flecks) ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 180 ml/min final depth to water = 6.0'

Date: 5/5/99

SM Approval: _____ Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: TW17059901

Project: Ames St | Job Number: 7198.41 | Date: 5-6-99

Sample Location ID: TW-17 | Location Activity: Start 1108 End 1224

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 17.60 FT ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 7.86 FT | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia.: ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☐	☑
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 9.74 FT × ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = ~1.5 GAL/VOL

1.7 ~~0.7~~ TOTAL GAL PURGED

RF 7/8/99

Ambient Air: 0.0 PPM | Well Mouth: 6.4 PPM

Flow rate - 250 mL/min

PURGE DATA

Start Purge: 1123 | End Purge: ~~1344~~ 1144 DC ~~1.7~~ RF 7/8/99

Purge Volume	@ 0.5 GAL (1130)	@ 0.5 GAL (1135)	@ 1.0 GAL (1138)	@ ~~0~~ GAL (~~1344~~)	@ ___ GAL
Temp. Deg C	14.6	14.2	12.9	14.3	
pH, Units	7.66	7.63	7.59	7.65	
Specific Conductivity umhos/cm	0.97	0.93	0.93	0.94	
turbidity	10	5	4	2	
DO mg/L	5.42	5.10	5.44	5.34	

Sample Observations:
☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 8.14'

Date: 5-6-99

SM Approval: _____ | Signature: Deven Carrigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

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Sample ID: TW2005990 1

Project: Ames St.

Job Number: 7198.41

Date: 5-5-99

Sample Location ID: TW-20

Location Activity: Start ~~1618~~ 1700 End 1742

RF 5/5/99

Field QC Data: ☐ Field Duplicate Collected Dup ID _____

WATER LEVEL / WELL DATA

Well Depth: 17.22 FT ☑ Measured ☐ Historical ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT

Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 12.59 FT

Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia. ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☐	☐	☐
Concrete Collar Intact	☐	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 4.63 FT

X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN)

= 0.74 GAL/VOL

1.7 TOTAL GAL PURGED

Ambient Air: 0.0 PPM

Well Mouth: 1.2 PPM

~~Flow rate 190 mL/min~~ RF 5/5/99

PURGE DATA

Start Purge: ~~1629~~ 1700 End Purge: 1730

Purge Volume	1708 @ 0.7 GAL	1714 @ 0.8 GAL	1718 @ 1.0 GAL	1725 @ 1.4 GAL	1730 @ 1.7 GAL
Temp. Deg C	14.0	13.4	14.0	13.4	13.8
pH, Units	7.83	7.73	7.74	7.67	7.72
Specific Conductivity umhos/cm	0.818	0.812	0.812	0.802	0.777
turbidity	34	16	4	1	0
DO mg/L	2.83	2.88	2.96	3.07	2.89

Sample Observations

☑ ~~Clear~~ ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☐	☑ Peristaltic Pump	ISCO # _____	☐ Liqui-Nox	☐ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☐ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☐	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used _____
☐	☐ Waterra		☐ None	
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: flow rate ≈ 210 mL/min. final depth to water 12.75

SM Approval _____ Date: 5/5/99

Signature: _____

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: TW69059901

Project: Ames St

Job Number: 7198.41

Date: 5-5-99

Sample Location ID: TW-69

Location Activity: Start 1335 End 1412

Field QC Data: ☐ Field Duplicate Collected Dup ID ______

WATER LEVEL / WELL DATA

Well Depth: 21.76 FT — ☑ Measured ☐ Historical — ☑ TOC ☐ Top of Prot. Casing ☐ ______

Well Stick-up (from ground): ______ FT

Prot. Casing/TOC Diff.: ______ FT

Well Dia.: ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ ______

Depth to Water: 6.86 FT

Historical Well Depth: ______ FT

Well Material: ☑ PVC ☐ SS ☐ ______

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☑	☐
Well Locked	☑	☐	☐
Other: ______	☐	☐	☐

Height of Water Column: 14.90 FT x. ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = ~2.38 GAL/VOL

~0.86 TOTAL GAL PURGED

Ambient Air: 0.0 PPM

Well Mouth: 4.7 PPM

Flow rate ~ 205 mL/min

PURGE DATA

Start Purge: 1345 End Purge: 1402

Purge Volume	1352 @0.33 GAL	1355 @0.10 GAL	1401 @0.36 GAL	@ ___ GAL	@ ___ GAL
Temp. Deg C	15.9	16.0	16.6		
pH, Units	8.46	8.00	8.05		
Specific Conductivity umhos/cm	2.00	2.02	2.07		
turbidity	6	6	6		
100 mg/L	1.09	0.89	2.12		

Sample Observations:
- ☑ Clear w/ black chunks of mag(metal?)(?)
- ☐ Colored ______
- ☐ Cloudy ______
- ☐ Turbid ______
- ☑ Odor sulfur
- ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	
☑	☑	Peristaltic Pump
☐	☐	Submersible Pump
☐	☐	Bailer
☑	☑	Teflon Tubing
☐	☐	Air Lift
☐	☐	Waterra
	☐	In-line Filter
	☐	Press/Vac Filter
☐	☐	______

Equipment ID: ISCO # ______ KECK # ______ ☐ 2" ☐ 1" # ___ ☐ CSD ______

Decon Fluids Used: ☐ Liqui-Nox ☑ Deionized Water ☐ HNO3 ☐ Potable Water ☐ Isopropanol ☐ None ☐ ______

Water Level Equip. Used: ☑ Electric Cond. Probe ☐ Float Activated ☐ Keck Interface Probe ☐ Other ______

Number of Filters Used ______

NOTES: Final DTW - 11.26'

Date: 5-5-99

SM Approval ______

Signature: Deven Carrigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: TW74059901

Project: Ames Sf | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: TW-74 | Location Activity: Start 1618 End 1718

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 16.92 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 10.606 * FT (* taken after 1 L purged) | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____ | Well Dia. ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 6.26 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 1.0 GAL/VOL | 1.7 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 5.2 PPM

Flow rate - 190 mL/min

PURGE DATA

Start Purge: 1629 | End Purge: 1703

Purge Volume	1639 @ 0.5 GAL	1646 @ 0.85 GAL	1656 @ ~~1.35~~ 1.0 GAL	1657 @ 1.4 GAL	1703 @ 1.70 GAL
Temp, Deg C	19.7	18.5	17.2	17.4	18.5
pH, Units	7.87	7.82	7.67	7.56	7.43
Specific Conductivity umhos/cm	1.63	1.76	1.76	1.82	1.84
turbidity	25	50	42	108	DC 3113
00 mg/L	1.39	1.09	1.35	1.16	1.47

Sample Observations: ☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used: _____
☐	☐ Waterra		☐ None	
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 10.04' * taken at 1746

SM Approval: _____ Date: 5-5-99

Signature: D. Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: W1059901

Project: Ames St.

Job Number: 7198.41

Date: 5/4/99

Sample Location ID: ~~W-01 BC~~ W-1

Location Activity: Start 1317 End 1350

Field QC Data: ☐ Field Duplicate Collected: Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 13.74 FT ☑ Measured ☐ Historical

☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT

Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 9.90 FT

Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia. ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:	Yes	No	N/A
Prot. Casing Secure	☐	☑	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☑	☐
Other: _____	☐	☐	☐

Height of Water Column: 3.84 FT

X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN)

= 0.61 GAL/VOL

2.6 TOTAL GAL PURGED

Ambient Air: 0.0 PPM

Well Mouth: 0.0 PPM

≈ 300 mL/min

PURGE DATA

Start Purge: 1317 End Purge: 1345

Purge Volume	1330 @ 1.01 GAL	1336 @ 1.5 GAL	1340 @ 1.8 GAL	1345 @ 2.2 GAL	@ ___ GAL
Temp. Deg C	14.8	13.5	13.8	13.3	
pH, Units	7.52	7.40	7.37	7.35	
Specific Conductivity umhos/cm	1.15	1.08	1.17	1.18	
DO (mg/L)	14.23	2.72	2.40	2.41	
Turbidity	3	5	2	0	

Sample Observations:

☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid 30 ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☐	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☐	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____			

NOTES: Final DTW - 11.49'

SM Approval: _____

Date: 5-4-99

Signature: Deven Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: W2059901

Project: Ames St.

Job Number: 7198.41

Date: 5-4-99

Sample Location ID: W-2

Location Activity: Start 1517 End 1617

Field QC Data: ☐ Field Duplicate Collected: Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 20.46 FT ☐ Measured ☐ Historical ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT

Prot. Casing/ TOC Diff.: _____ FT

Depth to Water: 8.92 FT

Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Well Dia. ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 11.54 FT X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 1.85 GAL/VOL

1.9 TOTAL GAL PURGED

Ambient Air: 0.0 PPM

Well Mouth: 0.2 PPM

Flow rate = 290 mL/min

PURGE DATA

Start Purge: 1517 End Purge: 1542

Purge Volume	@ 1.01 GAL (1551)	@ 1.4 GAL (1535)	@ 1.6 GAL (1538)	@ 1.9 GAL (1542)	@ ___ GAL
Temp. Deg C	14.2	12.4	12.5	12.3	
pH, Units	8.06	8.11	7.87	7.85	
Specific Conductivity umhos/cm	0.677	0.695	0.693	0.698	
turbidity	1	6	1	0	
DO	5.50	5.42	5.73	5.48	

Sample Observations:

☑ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☐ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Final DTW - 11.72'

Date: 5-4-99

SM Approval: _____

Signature: Deven Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: W3059901

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: W-3 | Location Activity: Start 1352 End 1449

Field QC Data: ☐ | Field Duplicate Collected | Dup ID:

WATER LEVEL / WELL DATA

Well Depth: 22.45 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ ____

Well Stick-up (from ground): ____ FT | Prot. Casing/TOC Diff.: ____ FT

Depth to Water: 7.68 FT | Historical Well Depth: ____ FT

Well Material: ☐ PVC ☐ SS ☐ ____

Well Dia.: ☑ 2 inch ☐ 4 inch ☐ 6 inch ☐ ____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☑	☐	☐
Well Locked	☐	☑	☐
Other: ____	☐	☐	☐

Height of Water Column: 14.77 FT | X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) = 2.36 GAL/VOL

0.65 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.0 PPM

Flow rate - 175 mL/min

PURGE DATA

Start Purge: 1417 | End Purge: 1435

Purge Volume	@ 0.3 GAL (1427)	@ 0.5 GAL	@ 0.65 GAL (1431)	@ ___ GAL	@ ___ GAL
Temp. Deg C	14.5	16.2	16.3		
pH, Units	7.38	7.37	7.37		
Specific Conductivity umhos/cm	4.30	4.35	4.38		
Turbidity	10	11	10		
DO (mg/L)	0.81	0.92	1.06		

Sample Observations:
☑ Clear w/ black chunks of metal (?) ☐ Colored ____ ☐ Cloudy ____ ☐ Turbid ____ ☐ Odor ____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # ____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # ____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ____	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other ____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used ____
☐	☐ Waterra		☐ None	
	☐ Inline Filter		☐ ____	
	☐ Press/Vac Filter			
☐	☐ ____	____		

NOTES: Final DTW - 11.74'
Removed section (~20') of tubing - pitch black at bottom

SM Approval: ____ Date: 5-5-99

Signature: D. Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page ___ of ___

Sample ID: W4059901

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: W-4 | Location Activity: Start 1028 End 1130

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Stick-up (from ground): ___ FT | Prot. Casing/ TOC Diff.: ___ FT

Well Depth: 28.52 FT | ☑ Measured ☐ Historical | ☐ TOC ☐ Top of Prot. Casing ☐ _____

Well Dia. ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity: Prot. Casing Secure ☑ Yes ☐ No ☐ N/A; Concrete Collar Intact ☐ ☐ ☑; Well Locked ☑ ☐ ☐; Other: _____ ☐ ☐ ☐

Depth to Water: 9.78 FT | Historical Well Depth: ___ FT | Well Material: ☑ PVC ☐ SS ☐ _____

Height of Water Column: 18.74 FT | X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) | = ~3.0 GAL/VOL | 1.8 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 0.9 PPM

Flow rate - 225 ~~ml~~ mL/min

PURGE DATA

Start Purge: 1049 | End Purge: 1125

Purge Volume	@ 0.8 GAL (1103)	@ 1.1 GAL (1108)	@ 1.4 GAL (1117)	@ 1.8 GAL (1129)	@ ___ GAL
Temp, Deg C	17.5	17.6	16.9	16.8	
pH, Units	7.61	7.64	7.65	7.45	
Specific Conductivity umhos/cm	1.00	1.04	1.04	1.05	
Turbidity	26	22	21	23	
DO (mg/L)	1.34	1.60	1.80	1.65	

Sample Observations: ☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☑ Turbid Black (flakes) ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ CED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	Number of Filters Used: ___
☐	☐ Waterra		☐ None	
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____			

NOTES:

Final DTW: 16.83'

flow rate 225 mL/min

Date: 5/5/99

SM Approval: _____ Signature: _____

* stop at 1115
resume 1119

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Sample ID: W5059901

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: W-5 | Location Activity: Start 1749 End 1840

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Well Depth: 22.25 FT ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Dia. ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity: Prot. Casing Secure (Yes ☐ No ☑ N/A ☐); Concrete Collar Intact (Yes ☑ No ☐ N/A ☐); Well Locked (Yes ☐ No ☑ N/A ☐); Other _____ (Yes ☐ No ☐ N/A ☐)

Depth to Water: 6.91 FT | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____

Height of Water Column: 15.34 ~~22.25~~ FT

X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN)

= 2.45 GAL/VOL | 1.25 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 276 PPM

Flow rate - 250 mL/min

PURGE DATA

Start Purge: 1810 | End Purge: 1829

Purge Volume	1819 @0.22 GAL	1820 @0.66 GAL	1824 @0.92 GAL	1829 @1.25 GAL	@ ___ GAL
Temp. Deg C	15.3	14.5	14.6	14.7	
pH, Units	7.38	7.42	7.42	7.49	
Specific Conductivity umhos/cm	1.88	1.90	1.90	1.90	
turbidity	40	8	3	2	
00 mg/L	1.29	1.95	2.02	2.09	

Sample Observations: ☐ Clear ☐ Colored _____ ☑ Cloudy w/ black chunks ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☑ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____	_____		

NOTES: Pulled out lodged 12' section of tubing. Bottom was pitch black.

Final DTW - 8.50'

SM Approval: _____ Date: 5-5-99

Signature: D Carigan

HARDING LAWSON ASSOCIATES
FIELD DATA RECORD - GROUND WATER

Page 1 of 1

Sample ID: W6059901, MS, MD

Project: Ames St | Job Number: 7198.41 | Date: 5-5-99

Sample Location ID: W-6 | Location Activity: Start 1240 End 1334

Field QC Data: ☐ | Field Duplicate Collected | Dup ID: _____

WATER LEVEL / WELL DATA

Well Depth: 14.45 FT | ☑ Measured ☐ Historical | ☑ TOC ☐ Top of Prot. Casing ☐ _____

Well Stick-up (from ground): _____ FT | Prot. Casing/TOC Diff.: _____ FT

Depth to Water: 5.08 FT | Historical Well Depth: _____ FT

Well Material: ☑ PVC ☐ SS ☐ _____ | Well Dia. ☑ 2 Inch ☐ 4 Inch ☐ 6 Inch ☐ _____

Well Integrity:

	Yes	No	N/A
Prot. Casing Secure	☑	☐	☐
Concrete Collar Intact	☐	☐	☐
Well Locked	☑	☐	☐
Other: _____	☐	☐	☐

Height of Water Column: 9.37 FT | X ☑ .16 GAL/FT (2 IN) ☐ .65 GAL/FT (4 IN) ☐ 1.5 GAL/FT (6 IN) ☐ ___ GAL/FT (___ IN) | = ~1.5 GAL/VOL | 1.4 TOTAL GAL PURGED

Ambient Air: 0.0 PPM | Well Mouth: 1.2 PPM

Flow rate - 250 mL/min

PURGE DATA

Start Purge: 1250 | End Purge: 1311

Purge Volume	@ 1256 0.5 GAL	@ 1304 0.9 GAL	@ 1308 1.2 GAL	@ 1311 1.4 GAL	@ ___ GAL
Temp. Deg C	19.5	15.3	15.0	14.6	
pH, Units	11.13	11.0	11.07	11.10	
Specific Conductivity umhos/cm	0.687	0.714	0.710	0.714	
turbidity	13	13	15	11	
DO	2.64	2.19	2.02	2.24	

Sample Observations: ☐ Clear ☐ Colored _____ ☐ Cloudy _____ ☐ Turbid _____ ☐ Odor _____ ☐ Other (see notes)

EQUIPMENT DOCUMENTATION

Purging	Sampling	Equipment ID	Decon Fluids Used	Water Level Equip. Used
☑	☑ Peristaltic Pump	ISCO # _____	☐ Liqui-Nox	☑ Electric Cond. Probe
☐	☐ Submersible Pump	KECK # _____	☑ Deionized Water	☐ Float Activated
☐	☐ Bailer	☐ 2" ☐ 1" # ___	☐ HNO3	☐ Keck Interface Probe
☑	☑ Teflon Tubing	☐ QED	☐ Potable Water	☐ Other _____
☐	☐ Air Lift		☐ Isopropanol	
☐	☐ Waterra		☐ None	Number of Filters Used: _____
	☐ In-line Filter		☐ _____	
	☐ Press/Vac Filter			
☐	☐ _____			

NOTES: Final DTW - 11.85'

Date: 5-5-99

SM Approval: _____ | Signature: Deven Carigan

APPENDIX C

DATA TABLES

Table 3-1

VOC Positive Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-01	BR-02	BR-03	BR-04	BR-04	BR-05
	SAMPLE ID	BR01059901	BR02059901	BR03059901	BR04059901	BR04059901D	BR05059901
	DATE	05/06/99	05/05/99	05/04/99	05/06/99	05/06/99	05/06/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Benzene		5 U	5 U	5 U	50 U	50 U	5 UJ
1,1-Dichloroethane		5 U	5 U	5 U	50 U	50 U	5.2 J
1,1-Dichloroethene		5 U	6.0	5 U	50 U	50 U	23 J
cis-1,2-Dichloroethene		320	1200 J	5.5	160	210	440
trans-1,2-Dichloroethene		5 U	24	5 U	50 U	50 U	84 J
Ethylbenzene		5 U	5 U	5 U	50 U	50 U	5 UJ
Tetrachloroethene		5 U	5 U	5 U	50 U	50 U	5 UJ
Toluene		5 U	5 U	5 U	50 U	50 U	5 UJ
Trichloroethene		1800	3300 J	420 J	2100 J	2100 J	6700
Vinyl chloride		5 U	5 U	5 U	50 U	50 U	95 J

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-1

VOC Positive Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-06	BR-07	MW00	OB-04	OB-05	TW01
	SAMPLE ID	BR06059901	BR07059901	MW00059901	OB04059901	OB05059901	TW01059901
	DATE	05/04/99	05/05/99	05/05/99	05/06/99	05/06/99	05/04/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Benzene		5 U	5 U	5 U	5.7	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	19	23	5 U
cis-1,2-Dichloroethene		5 U	53	5 U	1800 J	2700 J	5 U
trans-1,2-Dichloroethene		5 U	5.9	5 U	25	29	5 U
Ethylbenzene		5 U	5 U	6.1	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	23	20	5 U
Toluene		5 U	5 U	5 U	5.7	5 U	5 U
Trichloroethene		5 U	5.4	5 U	68000 J	23000 J	5 U
Vinyl chloride		5 U	360 J	12	5 U	140	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-1

VOC Positive Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW04	TW07	TW09	TW09	TW13	TW17
	SAMPLE ID	TW04059901	TW07059901	TW09059901	TW09059901D	TW13059901	TW17059901
	DATE	05/04/99	05/05/99	05/05/99	05/05/99	05/05/99	05/06/99
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Benzene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
1,1-Dichloroethane		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
1,1-Dichloroethene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
cis-1,2-Dichloroethene		5 U	5 U	34 J	28 J	5 U	11 J
trans-1,2-Dichloroethene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
Ethylbenzene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
Tetrachloroethene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
Toluene		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ
Trichloroethene		91	14	880 J	990 J	5 U	1500
Vinyl chloride		5 U	5 U	10 UJ	5 UJ	5 U	5 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-1

VOC Positive Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW20	TW69	TW74	W-1	W-2	W-3
	SAMPLE ID	TW20059901	TW69059901	TW74059901	W1059901	W2059901	W3059901
	DATE	05/05/99	05/05/99	05/05/99	05/04/99	05/04/99	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Benzene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
1,1-Dichloroethane		5 UJ	5 U	5 UJ	5 U	5 U	5 U
1,1-Dichloroethene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
cis-1,2-Dichloroethene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
trans-1,2-Dichloroethene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
Ethylbenzene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
Tetrachloroethene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
Toluene		5 UJ	5 U	5 UJ	5 U	5 U	5 U
Trichloroethene		11 J	5 U	18 J	5 U	5 U	5 U
Vinyl chloride		5 UJ	5 U	5 UJ	5 U	5 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-1

VOC Positive Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	W-4	W-5	W-6
	SAMPLE ID	W4059901	W5059901	W6059901
	DATE	05/05/99	05/05/99	05/05/99
	RESULT TYPE	Primary	Primary	Primary
Benzene		5 U	5 UJ	5 U
1,1-Dichloroethane		5 U	5 UJ	5 U
1,1-Dichloroethene		5 U	6.2 J	5 U
cis-1,2-Dichloroethene		5 U	840 J	5 U
trans-1,2-Dichloroethene		5 U	41 J	5 U
Ethylbenzene		5 U	5 UJ	5 U
Tetrachloroethene		5 U	5 UJ	5 U
Toluene		5 U	5 UJ	5 U
Trichloroethene		5 U	3000 J	5 U
Vinyl chloride		5 U	5 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-01	BR-01	BR-01	BR-02	BR-02	BR-02
	SAMPLE ID	BR01XXXX	BR01XXXX	BR01069901	BR02XXXX	BR02XXXX	BR02069901
	DATE	09/07/97	10/01/97	05/06/99	09/07/97	10/01/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Acetone		400 U	500 U	20 U	40 U	2000 U	20 U
Benzene		100 U	130 U	5 U	10 U	500 U	5 U
Bromodichloromethane		100 U	130 U	5 U	10 U	500 U	5 U
Bromoform		100 U	130 U	5 U	10 U	500 U	5 U
Bromomethane		100 U	130 U	5 U	10 U	500 U	5 U
2-Butanone (MEK)		200 U	250 U	10 U	20 U	1000 U	10 U
Carbon disulfide		200 U	250 U	10 U	20 U	1000 U	10 U
Carbon tetrachloride		100 U	130 U	5 U	10 U	500 U	5 U
Chlorobenzene		100 U	130 U	5 U	10 U	500 U	5 U
Chloroethane		100 U	130 U	5 U	10 U	500 U	5 U
Chloroform		100 U	130 U	5 U	10 U	500 U	5 U
Chloromethane		100 U	130 U	5 U	10 U	500 U	5 U
Dibromochloromethane		100 U	130 U	5 U	10 U	500 U	5 U
1,1-Dichloroethane		100 U	130 U	5 U	10 U	500 U	5 U
1,2-Dichloroethane		100 U	130 U	5 U	10 U	500 U	5 U
1,1-Dichloroethene		100 U	130 U	5 U	10 U	500 U	8.0
cis-1,2-Dichloroethene		100 U	130 U	320	98	640	1200 J
trans-1,2-Dichloroethene		100 U	130 U	5 U	85	500 U	24
1,2-Dichloropropane		100 U	130 U	5 U	10 U	500 U	5 U
cis-1,3-Dichloropropene		100 U	130 U	5 U	10 U	500 U	5 U
trans-1,3-Dichloropropene		100 U	130 U	5 U	10 U	500 U	5 U
Ethylbenzene		100 U	130 U	5 U	10 U	500 U	5 U
2-Hexanone		200 U	250 U	10 U	20 U	1000 U	10 U
Methylene chloride		100 U	130 U	5 U	10 U	500 U	5 U
4-Methyl-2-pentanone(MIBK)		200 U	250 U	10 U	20 U	1000 U	10 U
Styrene		100 U	130 U	5 U	10 U	500 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected,quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-01	BR-01	BR-01	BR-02	BR-02	BR-02
	SAMPLE ID	BR01XXXX	BR01XXXX	BR01059901	BR02XXXX	BR02XXXX	BR02059901
	DATE	09/07/97	10/01/97	05/06/99	09/07/97	10/01/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		100 U	130 U	5 U	10 U	500 U	5 U
Tetrachloroethene		100 U	130 U	5 U	10 U	500 U	5 U
Toluene		100 U	130 U	5 U	10 U	500 U	5 U
1,1,1-Trichloroethane		100 U	130 U	5 U	10 U	500 U	5 U
1,1,2-Trichloroethane		100 U	130 U	5 U	10 U	500 U	5 U
Trichloroethene		3600	3800	1800	260	18000	3300 J
Vinyl chloride		100 U	130 U	5 U	10 U	500 U	5 U
o-Xylene		100 U	130 U	5 U	10 U	500 U	5 U
m + p-Xylene		100 U	130 U	5 U	10 U	500 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-03	BR-03	BR-03	BR-04	BR-04	BR-04
	SAMPLE ID	BR03XXXX	BR03XXXX	BR03059901	BR04XXXX	BR04XXXD	BR04XXXX
	DATE	09/07/97	10/02/97	05/04/99	09/09/97	09/09/97	10/02/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Acetone		200 U	20 U	20 U	500 U	500 U	2000 U
Benzene		50 U	5 U	5 U	130 U	130 U	500 U
Bromodichloromethane		50 U	5 U	5 U	130 U	130 U	500 U
Bromoform		50 U	5 U	5 U	130 U	130 U	500 U
Bromomethane		50 U	5 U	5 U	130 U	130 U	500 U
2-Butanone (MEK)		100 U	10 U	10 U	250 U	250 U	1000 U
Carbon disulfide		100 U	10 U	10 U	250 U	250 U	1000 U
Carbon tetrachloride		50 U	5 U	5 U	130 U	130 U	500 U
Chlorobenzene		50 U	5 U	5 U	130 U	130 U	500 U
Chloroethane		50 U	5 U	5 U	130 U	130 U	500 U
Chloroform		50 U	5 U	5 U	130 U	130 U	500 U
Chloromethane		50 U	5 U	5 U	130 U	130 U	500 U
Dibromochloromethane		50 U	5 U	5 U	130 U	130 U	500 U
1,1-Dichloroethane		50 U	5 U	5 U	130 U	130 U	500 U
1,2-Dichloroethane		50 U	5 U	5 U	130 U	130 U	500 U
1,1-Dichloroethene		50 U	5 U	5 U	130 U	130 U	500 U
cis-1,2-Dichloroethene		50 U	6.1	5.6	240	260	500 U
trans-1,2-Dichloroethene		50 U	5 U	5 U	130 U	130 U	500 U
1,2-Dichloropropane		50 U	5 U	5 U	130 U	130 U	500 U
cis-1,3-Dichloropropene		50 U	5 U	5 U	130 U	130 U	500 U
trans-1,3-Dichloropropene		50 U	5 U	5 U	130 U	130 U	500 U
Ethylbenzene		50 U	5 U	5 U	130 U	130 U	500 U
2-Hexanone		100 U	10 U	10 U	250 U	250 U	1000 U
Methylene chloride		50 U	5 U	5 U	130 U	130 U	500 U
4-Methyl-2-pentanone(MIBK)		100 U	10 U	10 U	250 U	250 U	1000 U
Styrene		50 U	5 U	5 U	130 U	130 U	500 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-03	BR-03	BR-03	BR-04	BR-04	BR-04
	SAMPLE ID	BR03XXXX	BR03XXXX	BR03059901	BR04XXXX	BR04XXXD	BR04XXXX
	DATE	09/07/97	10/02/97	05/04/99	09/09/97	09/09/97	10/02/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
1,1,2,2-Tetrachloroethane		50 U	5 U	5 U	130 U	130 U	500 U
Tetrachloroethene		50 U	5 U	5 U	130 U	130 U	500 U
Toluene		50 U	5 U	5 U	130 U	130 U	500 U
1,1,1-Trichloroethane		50 U	5 U	5 U	130 U	130 U	500 U
1,1,2-Trichloroethane		50 U	5 U	5 U	130 U	130 U	500 U
Trichloroethene		850	440	420 J	3700	4700	27000
Vinyl chloride		50 U	5 U	5 U	130 U	130 U	500 U
o-Xylene		50 U	5 U	5 U	130 U	130 U	500 U
m+p-Xylene		50 U	5 U	5 U	130 U	130 U	500 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-04	BR-04	BR-05	BR-05	BR-05	BR-06
	SAMPLE ID	BR04059901	BR04059901D	BR05XXXX	BR05XXXX	BR05059901	BR06XXXX
	DATE	05/06/99	05/06/99	09/09/97	10/01/97	05/06/99	09/09/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
Acetone		200 U	200 U	500 U	500 U	20 UJ	20 U
Benzene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Bromodichloromethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Bromoform		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Bromomethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
2-Butanone (MEK)		100 U	100 U	250 U	250 U	10 UJ	10 U
Carbon disulfide		100 U	100 U	250 U	250 U	10 UJ	10 U
Carbon tetrachloride		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Chlorobenzene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Chloroethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Chloroform		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Chloromethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Dibromochloromethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
1,1-Dichloroethane		50 U	50 U	130 U	130 U	5.2 J	5.0 U
1,2-Dichloroethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
1,1-Dichloroethene		50 U	50 U	130 U	130 U	23 J	5.0 U
cis-1,2-Dichloroethene		160	210	580	620	440	5.0 U
trans-1,2-Dichloroethene		50 U	50 U	130 U	130 U	84 J	5.0 U
1,2-Dichloropropane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
cis-1,3-Dichloropropene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
trans-1,3-Dichloropropene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Ethylbenzene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
2-Hexanone		100 U	100 U	250 U	250 U	10 UJ	10 U
Methylene chloride		50 U	50 U	130 U	130 U	5 UJ	5.0 U
4-Methyl-2-pentanone(MIBK)		100 U	100 U	250 U	250 U	10 UJ	10 U
Styrene		50 U	50 U	130 U	130 U	5 UJ	5.0 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-04	BR-04	BR-05	BR-05	BR-05	BR-06
	SAMPLE ID	BR04059901	BR04059901D	BR05XXXX	BR05XXXX	BR05059901	BR06XXXX
	DATE	05/06/99	05/06/99	09/09/97	10/01/97	05/06/99	09/09/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Tetrachloroethene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Toluene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
1,1,1-Trichloroethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
1,1,2-Trichloroethane		50 U	50 U	130 U	130 U	5 UJ	5.0 U
Trichloroethene		2100 J	2100 J	10000	12000	6700	5.0 U
Vinyl chloride		50 U	50 U	130 U	130 U	95 J	5.0 U
o-Xylene		50 U	50 U	130 U	130 U	5 UJ	5.0 U
m + p-Xylene		50 U	50 U	130 U	130 U	5 UJ	5.0 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-06	BR-06	BR-07	BR-07	BR-07	BR-07
	SAMPLE ID	BR06XXXX	BR06059901	BR07XXXX	BR07XXXX	BR07XXXD	BR07059901
	DATE	10/01/97	05/04/99	09/07/97	10/01/97	10/01/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Acetone		20 U	20 U	40 U	100 U	50 U	20 U
Benzene		5 U	5 U	10 U	25 U	13 U	5 U
Bromodichloromethane		5 U	5 U	10 U	25 U	13 U	5 U
Bromoform		5 U	5 U	10 U	25 U	13 U	5 U
Bromomethane		5 U	5 U	10 U	25 U	13 U	5 U
2-Butanone (MEK)		10 U	10 U	20 U	50 U	25 U	10 U
Carbon disulfide		10 U	10 U	20 U	50 U	25 U	10 U
Carbon tetrachloride		5 U	5 U	10 U	25 U	13 U	5 U
Chlorobenzene		5 U	5 U	10 U	25 U	13 U	5 U
Chloroethane		5 U	5 U	10 U	25 U	13 U	5 U
Chloroform		5 U	5 U	14	25 U	13 U	5 U
Chloromethane		5 U	5 U	10 U	25 U	13 U	5 U
Dibromochloromethane		5 U	5 U	10 U	25 U	13 U	5 U
1,1-Dichloroethane		5 U	5 U	10 U	25 U	13 U	5 U
1,2-Dichloroethane		5 U	5 U	10 U	25 U	13 U	5 U
1,1-Dichloroethene		5 U	5 U	10 U	25 U	13 U	5 U
cis-1,2-Dichloroethene		5 U	5 U	62	460	450	53
trans-1,2-Dichloroethene		5 U	5 U	10 U	25 U	13 U	5.9
1,2-Dichloropropane		5 U	5 U	10 U	25 U	13 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	10 U	25 U	13 U	5 U
trans-1,3-Dichloropropene		5 U	5 U	10 U	25 U	13 U	5 U
Ethylbenzene		5 U	5 U	10 U	25 U	13 U	5 U
2-Hexanone		10 U	10 U	20 U	50 U	25 U	10 U
Methylene chloride		5 U	5 U	10 U	25 U	13 U	5 U
4-Methyl-2-pentanone(MIBK)		10 U	10 U	20 U	50 U	25 U	10 U
Styrene		5 U	5 U	10 U	25 U	13 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	BR-06	BR-06	BR-07	BR-07	BR-07	BR-07
	SAMPLE ID	BR06XXXX	BR06059901	BR07XXXX	BR07XXXX	BR07XXXD	BR07059901
	DATE	10/01/97	05/04/99	09/07/97	10/01/97	10/01/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
1,1,2,2-Tetrachloroethane		5 U	5 U	10 U	25 U	13 U	5 U
Tetrachloroethene		5 U	5 U	10 U	25 U	13 U	5 U
Toluene		5 U	5 U	26	61	54	5 U
1,1,1-Trichloroethane		5 U	5 U	10 U	25 U	13 U	5 U
1,1,2-Trichloroethane		5 U	5 U	10 U	25 U	13 U	5 U
Trichloroethene		5 U	5 U	210	110	13 U	5.4
Vinyl chloride		5 U	5 U	200	700	530	360 J
o-Xylene		5 U	5 U	10 U	25 U	13 U	5 U
m+p-Xylene		5 U	5 U	10 U	25 U	13 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	MW00	OB-04	OB-04	OB-04	OB-05	OB-05
	SAMPLE ID	MW00059901	OB04XXXX	OB04XXXX	OB04059901	OB05XXXX	OB05XXXX
	DATE	05/05/99	09/09/97	10/02/97	05/06/99	09/09/97	10/01/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Acetone		20 U	50000 U	50000 U	20 U	20000 U	5000 U
Benzene		5 U	13000 U	13000 U	5.7	5000 U	1300 U
Bromodichloromethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Bromoform		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Bromomethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
2-Butanone (MEK)		10 U	25000 U	25000 U	10 U	10000 U	2500 U
Carbon disulfide		10 U	25000 U	25000 U	10 U	10000 U	2500 U
Carbon tetrachloride		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Chlorobenzene		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Chloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Chloroform		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Chloromethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Dibromochloromethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
1,1-Dichloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
1,2-Dichloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
1,1-Dichloroethene		5 U	13000 U	13000 U	19	5000 U	1300 U
cis-1,2-Dichloroethene		5 U	27000	13000	1800 J	5000 U	1300 U
trans-1,2-Dichloroethene		5 U	13000 U	13000 U	25	5000 U	1300 U
1,2-Dichloropropane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
cis-1,3-Dichloropropene		5 U	13000 U	13000 U	5 U	5000 U	1300 U
trans-1,3-Dichloropropene		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Ethylbenzene		6.1	13000 U	13000 U	5 U	5000 U	1300 U
2-Hexanone		10 U	25000 U	25000 U	10 U	10000 U	2500 U
Methylene chloride		5 U	13000 U	13000 U	5 U	5000 U	1300 U
4-Methyl-2-pentanone(MIBK)		10 U	25000 U	25000 U	10 U	10000 U	2500 U
Styrene		5 U	13000 U	13000 U	5 U	5000 U	1300 U

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VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	MW00	OB-04	OB-04	OB-04	OB-05	OB-05
	SAMPLE ID	MW00059901	OB04XXXX	OB04XXXX	OB04059901	OB05XXXX	OB05XXXX
	DATE	05/05/99	09/09/97	10/02/97	05/06/99	09/09/97	10/01/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Tetrachloroethene		5 U	13000 U	13000 U	23	5000 U	1300 U
Toluene		5 U	13000 U	13000 U	5.7	5000 U	1300 U
1,1,1-Trichloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
1,1,2-Trichloroethane		5 U	13000 U	13000 U	5 U	5000 U	1300 U
Trichloroethene		5 U	550000	280000	68000 J	120000	47000
Vinyl chloride		12	13000 U	13000 U	5 U	5000 U	1300 U
o-Xylene		5 U	13000 U	13000 U	5 U	5000 U	1300 U
m + p-Xylene		5 U	13000 U	13000 U	5 U	5000 U	1300 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	OB-05	TW01	TW01	TW04	TW04	TW04
	SAMPLE ID	OB05059901	TW01XXXX	TW01059901	TW04XXXX	TW04XXXD	TW04059901
	DATE	05/06/99	09/06/97	05/04/99	09/06/97	09/06/97	05/04/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Acetone		20 U	20 U	20 U	20 U	20 U	20 U
Benzene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Bromodichloromethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Bromoform		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Bromomethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
2-Butanone (MEK)		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Chlorobenzene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Chloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Chloroform		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Chloromethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Dibromochloromethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
1,1-Dichloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
1,2-Dichloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
1,1-Dichloroethene		23	5.0 U	5 U	5.0 U	5.0 U	5 U
cis-1,2-Dichloroethene		2700 J	5.0 U	5 U	5.0 U	5.0 U	5 U
trans-1,2-Dichloroethene		29	5.0 U	5 U	5.0 U	5.0 U	5 U
1,2-Dichloropropane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
cis-1,3-Dichloropropene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
trans-1,3-Dichloropropene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Ethylbenzene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
4-Methyl-2-pentanone(MIBK)		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	OB-05	TW01	TW01	TW04	TW04	TW04
	SAMPLE ID	OB05059901	TW01XXXX	TW01059901	TW04XXXX	TW04XXXD	TW04059901
	DATE	05/06/99	09/08/97	05/04/99	09/06/97	09/06/97	05/04/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
1,1,2,2-Tetrachloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Tetrachloroethene		20	5.0 U	5 U	5.0 U	5.0 U	5 U
Toluene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
1,1,1-Trichloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
1,1,2-Trichloroethane		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
Trichloroethene		23000 J	6.0	5 U	77	72	91
Vinyl chloride		140	5.0 U	5 U	5.0 U	5.0 U	5 U
o-Xylene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U
m+p-Xylene		5 U	5.0 U	5 U	5.0 U	5.0 U	5 U

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VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW07	TW07	TW09	TW09	TW13	TW13
	SAMPLE ID	TW07XXXX	TW07059901	TW09059901	TW09059901D	TW13XXXX	TW13059901
	DATE	10/02/97	05/05/99	05/05/99	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Acetone		20 U	20 U	40 UJ	20 UJ	20 U	20 U
Benzene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Bromodichloromethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Bromoform		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Bromomethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
2-Butanone (MEK)		10 U	10 U	20 UJ	10 UJ	10 U	10 U
Carbon disulfide		10 U	10 U	20 UJ	10 UJ	10 U	10 U
Carbon tetrachloride		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Chlorobenzene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Chloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Chloroform		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Chloromethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Dibromochloromethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
1,1-Dichloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
1,2-Dichloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
1,1-Dichloroethene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
cis-1,2-Dichloroethene		5 U	5 U	34 J	28 J	5.0 U	5 U
trans-1,2-Dichloroethene		31	5 U	10 UJ	5 UJ	5.0 U	5 U
1,2-Dichloropropane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
trans-1,3-Dichloropropene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Ethylbenzene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
2-Hexanone		10 U	10 U	20 UJ	10 UJ	10 U	10 U
Methylene chloride		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
4-Methyl-2-pentanone(MIBK)		10 U	10 U	20 UJ	10 UJ	10 U	10 U
Styrene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW07	TW07	TW09	TW09	TW13	TW13
	SAMPLE ID	TW07XXXX	TW07059901	TW09059901	TW09059901D	TW13XXXX	TW13059901
	DATE	10/02/97	05/05/99	05/05/99	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
1,1,2,2-Tetrachloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Tetrachloroethene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Toluene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
1,1,1-Trichloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
1,1,2-Trichloroethane		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
Trichloroethene		32	14	880 J	990 J	5.0 U	5 U
Vinyl chloride		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
o-Xylene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U
m+p-Xylene		5 U	5 U	10 UJ	5 UJ	5.0 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW17	TW17	TW20	TW20	TW69	TW69
	SAMPLE ID	TW17XXXX	TW17059901	TW20XXXX	TW20059901	TW69XXXX	TW69059901
	DATE	09/06/97	05/06/99	09/08/97	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Acetone		200 U	20 UJ	20 U	20 UJ	20 U	20 U
Benzene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Bromodichloromethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Bromoform		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Bromomethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
2-Butanone (MEK)		100 U	10 UJ	10 U	10 UJ	10 U	10 U
Carbon disulfide		100 U	10 UJ	10 U	10 UJ	10 U	10 U
Carbon tetrachloride		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Chlorobenzene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Chloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Chloroform		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Chloromethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Dibromochloromethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,1-Dichloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,2-Dichloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,1-Dichloroethene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
cis-1,2-Dichloroethene		50 U	11 J	5.0 U	5 UJ	5.0 U	5 U
trans-1,2-Dichloroethene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,2-Dichloropropane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
cis-1,3-Dichloropropene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
trans-1,3-Dichloropropene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Ethylbenzene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
2-Hexanone		100 U	10 UJ	10 U	10 UJ	10 U	10 U
Methylene chloride		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
4-Methyl-2-pentanone(MIBK)		100 U	10 UJ	10 U	10 UJ	10 U	10 U
Styrene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW17	TW17	TW20	TW20	TW69	TW69
	SAMPLE ID	TW17XXXX	TW17059901	TW20XXXX	TW20059901	TW69XXXX	TW69059901
	DATE	09/06/97	05/06/99	09/08/97	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Tetrachloroethene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Toluene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,1,1-Trichloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
1,1,2-Trichloroethane		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
Trichloroethene		1900	1500	11	11 J	5.0 U	5 U
Vinyl chloride		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
o-Xylene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U
m+p-Xylene		50 U	5 UJ	5.0 U	5 UJ	5.0 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW74	TW74	W-1	W-1	W-1	W-2
	SAMPLE ID	TW74XXXX	TW74059901	MWW1XXXX	MWW1XXXD	W1059901	MWW2XXXX
	DATE	09/07/97	05/05/99	09/08/97	09/08/97	05/04/99	09/09/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Acetone		20 U	20 UJ	20 U	20 U	20 U	20 U
Benzene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Bromodichloromethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Bromoform		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Bromomethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
2-Butanone (MEK)		10 U	10 UJ	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 UJ	10 U	10 U	10 U	10 U
Carbon tetrachloride		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Chlorobenzene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Chloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Chloroform		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Chloromethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Dibromochloromethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,1-Dichloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,2-Dichloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,1-Dichloroethene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
cis-1,2-Dichloroethene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
trans-1,2-Dichloroethene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,2-Dichloropropane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
cis-1,3-Dichloropropene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
trans-1,3-Dichloropropene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Ethylbenzene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
2-Hexanone		10 U	10 UJ	10 U	10 U	10 U	10 U
Methylene chloride		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
4-Methyl-2-pentanone(MIBK)		10 U	10 UJ	10 U	10 U	10 U	10 U
Styrene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U

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U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	TW74	TW74	W-1	W-1	W-1	W-2
	SAMPLE ID	TW74XXXX	TW74059901	MWW1XXXX	MWW1XXXD	W1059901	MWW2XXXX
	DATE	09/07/97	05/05/99	09/08/97	09/08/97	05/04/99	09/09/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
1,1,2,2-Tetrachloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Tetrachloroethene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Toluene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,1,1-Trichloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
1,1,2-Trichloroethane		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
Trichloroethene		19	18 J	5.0 U	5.0 U	5 U	23
Vinyl chloride		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
o-Xylene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U
m+p-Xylene		5.0 U	5 UJ	5.0 U	5.0 U	5 U	5.0 U

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U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	W-2	W-2	W-3	W-3	W-4	W-4
	SAMPLE ID	MWW2XXXX	W2059901	MWW3XXXX	W3059901	MWW4XXXX	W4059901
	DATE	10/01/97	05/04/99	09/07/97	05/05/99	09/07/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Acetone		20 U	20 U	20 U	20 U	20 U	20 U
Benzene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Bromodichloromethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Bromoform		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Bromomethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
2-Butanone (MEK)		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Chlorobenzene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Chloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Chloroform		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Chloromethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Dibromochloromethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,1-Dichloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,2-Dichloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,1-Dichloroethene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
cis-1,2-Dichloroethene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
trans-1,2-Dichloroethene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,2-Dichloropropane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
trans-1,3-Dichloropropene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Ethylbenzene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		5 U	5 U	5.0 U	5 U	5.0 U	5 U
4-Methyl-2-pentanone(MIBK)		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		5 U	5 U	5.0 U	5 U	5.0 U	5 U

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U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	W-2	W-2	W-3	W-3	W-4	W-4
	SAMPLE ID	MWW2XXXX	W2059901	MWW3XXXX	W3059901	MWW4XXXX	W4059901
	DATE	10/01/97	05/04/99	09/07/97	05/05/99	09/07/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Tetrachloroethene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Toluene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,1,1-Trichloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5.0 U	5 U	5.0 U	5 U
Trichloroethene		5 U	5 U	10	5 U	5.3	5 U
Vinyl chloride		5 U	5 U	5.0 U	5 U	5.0 U	5 U
o-Xylene		5 U	5 U	5.0 U	5 U	5.0 U	5 U
m+p-Xylene		5 U	5 U	5.0 U	5 U	5.0 U	5 U

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Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	W-5	W-5	W-6	W-6
	SAMPLE ID	MWW5XXXX	W5059901	MWW6XXXX	W6059901
	DATE	10/01/97	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary
Acetone		100 U	20 UJ	20 U	20 U
Benzene		25 U	5 UJ	5.0 U	5 U
Bromodichloromethane		25 U	5 UJ	5.0 U	5 U
Bromoform		25 U	5 UJ	5.0 U	5 U
Bromomethane		25 U	5 UJ	5.0 U	5 U
2-Butanone (MEK)		50 U	10 UJ	10 U	10 U
Carbon disulfide		50 U	10 UJ	10 U	10 U
Carbon tetrachloride		25 U	5 UJ	5.0 U	5 U
Chlorobenzene		25 U	5 UJ	5.0 U	5 U
Chloroethane		25 U	5 UJ	5.0 U	5 U
Chloroform		25 U	5 UJ	5.0 U	5 U
Chloromethane		25 U	5 UJ	5.0 U	5 U
Dibromochloromethane		25 U	5 UJ	5.0 U	5 U
1,1-Dichloroethane		25 U	5 UJ	5.0 U	5 U
1,2-Dichloroethane		25 U	5 UJ	5.0 U	5 U
1,1-Dichloroethene		25 U	6.2 J	5.0 U	5 U
cis-1,2-Dichloroethene		26	840 J	5.0 U	5 U
trans-1,2-Dichloroethene		25 U	41 J	5.0 U	5 U
1,2-Dichloropropane		25 U	5 UJ	5.0 U	5 U
cis-1,3-Dichloropropene		25 U	5 UJ	5.0 U	5 U
trans-1,3-Dichloropropene		25 U	5 UJ	5.0 U	5 U
Ethylbenzene		25 U	5 UJ	5.0 U	5 U
2-Hexanone		50 U	10 UJ	10 U	10 U
Methylene chloride		25 U	5 UJ	5.0 U	5 U
4-Methyl-2-pentanone(MIBK)		50 U	10 UJ	10 U	10 U
Styrene		25 U	5 UJ	5.0 U	5 U

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U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-2

VOC Comprehensive Results
September 1999 - May 1999
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/l)	SITE	W-5	W-5	W-6	W-6
	SAMPLE ID	MWW5XXXX	W5059901	MWW6XXXX	W6059901
	DATE	10/01/97	05/05/99	09/08/97	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary
1,1,2,2-Tetrachloroethane		25 U	5 UJ	5.0 U	5 U
Tetrachloroethene		25 U	5 UJ	5.0 U	5 U
Toluene		25 U	5 UJ	5.0 U	5 U
1,1,1-Trichloroethane		25 U	5 UJ	5.0 U	5 U
1,1,2-Trichloroethane		25 U	5 UJ	5.0 U	5 U
Trichloroethene		2200	3000 J	5.0 U	5 U
Vinyl chloride		25 U	5 U	5.0 U	5 U
o-Xylene		25 U	5 U	5.0 U	5 U
m + p-Xylene		25 U	5 U	5.0 U	5 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-3

Mercury Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/L)	SITE	BR-01	BR-02	BR-03	BR-04	BR-04	BR-05
	SAMPLE ID	BR01059901	BR02059901	BR03059901	BR04059901	BR04059901D	BR05059901
	DATE	05/06/99	05/05/99	05/04/99	05/06/99	05/06/99	05/06/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Mercury		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-3

Mercury Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/L)	SITE	BR-06	BR-07	MW00	OB-04	OB-05	TW01
	SAMPLE ID	BR06059901	BR07059901	MW00059901	OB04059901	OB05059901	TW01059901
	DATE	05/04/99	05/05/99	05/05/99	05/06/99	05/06/99	05/04/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Mercury		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-3

Mercury Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/L)	SITE	TW04	TW07	TW09	TW09	TW13	TW17
	SAMPLE ID	TW04059901	TW07059901	TW09059901	TW09059901D	TW13059901	TW17059901
	DATE	05/04/99	05/05/99	05/05/99	05/05/99	05/05/99	05/06/99
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Mercury		0.30 U	0.74	0.30 U	0.30 U	0.30 U	0.30 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-3

Mercury Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/L)	SITE	TW20	TW69	TW74	W-1	W-2	W-3
	SAMPLE ID	TW20059901	TW69059901	TW74059901	W1059901	W2059901	W3059901
	DATE	05/05/99	05/05/99	05/05/99	05/04/99	05/04/99	05/05/99
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Mercury		0.30 U	0.59	2.2	0.30 U	0.30 U	0.30 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-3

Mercury Results
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT (Units in ug/L)	SITE	W-4	W-5	W-6
	SAMPLE ID	W4059901	W5059901	W6059901
	DATE	05/05/99	05/05/99	05/05/99
	RESULT TYPE	Primary	Primary	Primary
Mercury		0.30 U	0.30 U	0.30 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-4

Engineering Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	BR-01	BR-03	BR-04	BR-05	BR-06	OB-04
		SAMPLE ID	BR01059901	BR03059901	BR04059901	BR05059901	BR06059901	OB04059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99	05/06/99
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum	(mg/l)		1.18	0.1 U	0.1 U	0.1 U	0.1 U	0.195
Antimony	(mg/l)		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Arsenic	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	(mg/l)		0.0540	0.02 U	0.208	0.279	0.106	0.149
Beryllium	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	(mg/l)		174	104	162	163	99.1	162
Chromium	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	(mg/l)		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	(mg/l)		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	(mg/l)		57.3	14.8	3.06	8.08	9.77	0.474
Lead	(mg/l)		0.0116	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	(mg/l)		56.9	58.9	43.3	44.6	71.5	22.3
Manganese	(mg/l)		0.249	0.120	0.222	0.242	0.0541	0.135
Nickel	(mg/l)		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	(mg/l)		2.94	33.7	6.32	4.10	5.16	8.61
Selenium	(mg/l)		0.00634	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Silver	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	(mg/l)		49.7	90.2	225	170	52.2	110
Thallium	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium	(mg/l)		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	(mg/l)		0.0271	0.0182	0.0112	0.0122	0.01 U	0.0485
Total Dissolved Solids (TDS)	(mg/L)		663	1380	1330	1150	690	957
Total Suspended Solids (TSS)	(mg/l)		779	28.8	2.60	12.6	21.5	26.2
Hardness- calcium	(mg/l)		---	---	---	---	---	404
Hardness- magnesium	(mg/l)		---	---	---	---	---	92.0

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected,quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-4

Engineering Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	BR-01	BR-03	BR-04	BR-05	BR-06	OB-04
		SAMPLE ID	BR01059901	BR03059901	BR04059901	BR05059901	BR06059901	OB04059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99	05/06/99
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Iron (Dissolved)	(mg/L)		.281	1.48	.664	.601	1.75	.1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-4

Engineering Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	OB-05	TW04	TW17	TW17	W-2
		SAMPLE ID	OB05059901	TW04059901	TW17059901	TW17059901D	W2059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99
		RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Aluminum	(mg/l)		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Antimony	(mg/l)		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Arsenic	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	(mg/l)		0.0821	0.0247	0.0569	0.0556	0.0525
Beryllium	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	(mg/l)		136	101	134	131	33.6
Chromium	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	(mg/l)		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Copper	(mg/l)		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	(mg/l)		0.1 U	0.438	0.217	0.106	0.1 U
Lead	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	(mg/l)		26.9	33.0	28.2	27.6	10.2
Manganese	(mg/l)		0.303	0.0607	0.01 U	0.01 U	0.0527
Nickel	(mg/l)		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	(mg/l)		2.31	6.22	2.36	2.11	2 U
Selenium	(mg/l)		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Silver	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	(mg/l)		21.3	33.4	51.6	51.6	109
Thallium	(mg/l)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium	(mg/l)		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	(mg/l)		0.01 U	0.0113	0.01 U	0.01 U	0.01 U
Total Dissolved Solids (TDS)	(mg/L)		568	549	617	644	399
Total Suspended Solids (TSS)	(mg/l)		1 U	2.70	4.73	---	1 U
Hardness- calcium	(mg/l)		340	252	334	327	83.9
Hardness- magnesium	(mg/l)		110	140	120	110	42.0

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-4

Engineering Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	OB-05	TW04	TW17	TW17	W-2
		SAMPLE ID	OB05059901	TW04059901	TW17059901	TW17059901D	W2059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99
		RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Iron (Dissolved)	(mg/L)		.111	.1 U	.1 U	.1 U	.1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-5

Natural Attenuation Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	BR-01	BR-03	BR-04	BR-05	BR-06	OB-04
		SAMPLE ID	BR01059901	BR03059901	BR04059901	BR05059901	BR06059901	OB04059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99	05/06/99
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Biochemical Oxygen Demand (5-day)	(mg/L)		2 U	2 U	2 U	2 U	2 U	2 U
Chemical Oxygen Demand	(mg/L)		16.2	7.64	22.6	18	8.27	43.4
Chloride	(mg/l)		74.4	22.0	434	209	231	89.8
Alkalinity, total	(mg/L)		363	260	335	338	270	231
Total Organic Carbon	(mg/L)		1.85	1.9	6.17	4.32	1.89	13.8
Nitrate/Nitrite as N	(mg/l)		---	---	---	---	---	8.46
Sulfate	(mg/L)		---	---	---	---	---	367
Nitrogen, total (Kjeldahl)	(mg/l)		---	---	---	---	---	1.06
Total phosphorus	(mg/l)		---	---	---	---	---	0.0675
Sulfide, total	(mg/l)		---	---	---	---	---	1 U
Ethane	(ug/l)		---	---	---	---	---	41
Ethene	(ug/l)		---	---	---	---	---	49
Methane	(ug/l)		---	---	---	---	---	30
Propane	(ug/l)		---	---	---	---	---	7.4

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

Table 3-5

Natural Attenuation Parameters
May 1999 Groundwater Sampling Event
Pre-Remedy Groundwater Monitoring Plan
Taylor Instruments Facility
Rochester, NY

CONSTITUENT		SITE	OB-05	TW04	TW17	TW17	W-2
		SAMPLE ID	OB05059901	TW04059901	TW17059901	TW17059901D	W2059901
		DATE	05/06/99	05/04/99	05/06/99	05/06/99	05/04/99
		RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Biochemical Oxygen Demand (5-day)	(mg/L)		2 U	2 U	2 U	2 U	2 U
Chemical Oxygen Demand	(mg/L)		14.4	5 U	7.01	7.01	6.37
Chloride	(mg/l)		15.7	6.18	43.5	46.0	5.70
Alkalinity, total	(mg/L)		392	152	361	363	307
Total Organic Carbon	(mg/L)		3.13	1.77	1.95	1.86	1.36
Nitrate/Nitrite as N	(mg/l)		0.938	1.08	0.859	0.847	2.26
Sulfate	(mg/L)		97.7	258	118	140	43.2
Nitrogen, total (Kjeldahl)	(mg/l)		0.203	0.2 U	0.2 U	0.2 U	0.2 U
Total phosphorus	(mg/l)		0.05 U	0.0659	0.05 U	0.05 U	0.05 U
Sulfide, total	(mg/l)		1 U	1 U	1 U	---	1 U
Ethane	(ug/l)		1 U	1 U	1 U	---	1 U
Ethene	(ug/l)		1 U	1 U	1 U	---	1 U
Methane	(ug/l)		3.2	2 U	2 U	---	2 U
Propane	(ug/l)		1 U	1 U	1 U	---	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = Not Detected, quantitation limit noted, J = Estimated Value, UJ = Quantitation Limit estimated

APPENDIX D

CHAIN OF CUSTODY FORMS

Columbia Analytical Services, Inc.
An Employee Owned Company

Mustard St., Suite 250, Rochester, NY 14609-69245
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE _____ PAGE _____ OF 1

PROJECT NAME Pre-Remedy GWMP
PROJECT MANAGER/CONTACT Ronny Fields
COMPANY/ADDRESS HLA 1400 Centerpoint Blvd Ste 158 Knoxville TN 37932
TEL (423) 531-1933 FAX (423) 531-8226
SAMPLER'S SIGNATURE _____

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ 95-1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ 95-2 Hg-CVAA	GC VOA's ☐ 8021 ☐ 601/602 TAL Metals, Hardness	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3 TSS, TDS	STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP Fe (dissolved)	STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP TOC	TCLP ☐ METALS BOD 405.1 ☐ VOA's ☐ SVOA's ☐ LLHg	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW) 410.4 COD	METALS, DISSOLVED (LIST BELOW) 310.1 ALKALINITY 351 353 351.2 TKN, Nitrate/Nitrite	Chloride 300.0	Sulfate 300.0	phosphorus, total (field) Sulfide	Methane, ethane, ethene 8015		PRESERVATION pH < 2.0	pH > 12	Other
W1Ø599Ø1	5-4-99		290482	groundwater	4	3	1																
W2Ø599Ø1	5-4-99		290486		18	3	1	1	1	1	2	1		1	1	1	1	X	1	1	2	290528	
BRØ6Ø599Ø1	5-4-99		290488		13	3	1	1	1	1	2	1		1	1		1					290529	
TWØ1Ø599Ø1	5-4-99		290485		4	3	1																
BRØ3Ø599Ø1	5-4-99	7:00P	~~290487~~	5/6/99	13	3	1	1	1	1	2	1		1	1		1					290489/53	
TWØ4Ø599Ø1	5-4-99	1:00P	~~290489~~	↓	19	3	1	1	1	1	3	1		1	1	1	1	X	1	1	2	290487/53	
QATB01 (tripblank)	—	—	290490	tripblank	1	1																	

RELINQUISHED BY:
Signature: Jerry R. Fields Jr.
Printed Name: Jerry R. Fields Jr.
Firm: Harding Lawson Assoc.
Date/Time: 5/5/99 8:24

RECEIVED BY:
Signature: Tom Hastings
Printed Name: Tom Hastings
Firm: CAS
Date/Time: 5/6/99 08:21

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
__ Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
__ 3. EPA Level III Validatable Package
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC.

INVOICE INFORMATION:
Project #: 7198.41
P.O. #:
Bill To:

SAMPLE RECEIPT:
Shipping Via: CAS
Shipping #:
Temperature: 5.3
Submission No: 5-79

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List
TWØ4 - Hg / VOA - Field Dup's

Columbia Analytical Services, Inc.
An Employee Owned Company

Mustard St., Suite 250, Rochester, NY 14609-69245
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 5-5-96-99 PAGE 1 OF ___

PROJECT NAME Pre-Remedy GWMP
PROJECT MANAGER/CONTACT Ronny Fields
COMPANY/ADDRESS HLA / 1400 Centerpoint Blvd Ste #158, Knoxville, TN 37932
TEL (423) 531-1922 FAX (423) 531-8226
SAMPLER'S SIGNATURE ___

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☑ 8260 ☐ 624 ☐ 95-1	GC/MS SVOA's Hg- CVAA ☐ 8270 ☐ 625 ☐ 95-2	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3	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 BELOW)	METALS, DISSOLVED (LIST BELOW)	PRESERVATION pH < 2.0	pH > 12	Other
TW0905990 1	5-5-99	0915	290985	groundwa	4	3	1											
BR0205990 1	5-5-99	0925	290986		4	3	1											
TW0705990 1	5-5-99	1006	290987		4	3	1											
BR0705990 1	5-5-99	1108	290988		4	3	1											
W40599 0 1	5-5-99	1120	290990		4	3	1											
W60599 0 1	5-5-99	1318	290991		4	3	1											
W60599 0 1 MS	5-5-99	1318	QC		4	3	1								(matrix spike)			
W60599 0 1 MD	5-5-99	1318			4	3	1								(matrix spike duplicate)			
TW6905990 1	5-5-99	1352	290995		4	3	1											
W30599 0 1	5-5-99	1430	290997		4	3	1											

RELINQUISHED BY:
Signature Jerry R. Fields IV
Printed Name
Firm Harding Lawson Assoc.
Date/Time 5/6/99 10:21

RECEIVED BY:
Signature Tom Hastings
Printed Name Tom Hastings
Firm CAS
Date/Time 5/7/99 0820

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Dat

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
☒ Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
☒ 3. EPA Level III Validatable Package VOA, Hg (only) RE 5/6/99
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC

INVOICE INFORMATION:
P.O. #: 3533
Bill To: ___

SAMPLE RECEIPT:
Shipping Via: ___
Shipping #: ___
Temperature: ___
Submission No: 9905-079

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

Columbia Analytical Services, Inc.
An Employee Owned Company

Mustard St., Suite 250, Rochester, NY 14609-69245
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 5-6-99 PAGE ____ OF ____

PROJECT NAME Pre-Remedy GWMP
PROJECT MANAGER/CONTACT Ronny Fields
COMPANY/ADDRESS HLA/ 1400 Centerpoint Blvd Ste # 158 Knoxville, TN 37932
TEL (423) 531-1922 FAX (423) 531-8226
SAMPLER'S SIGNATURE ____

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ 95-1	~~GC/MS SVOA's by CVAA ☐ 8270 ☐ 625 ☐ 96-2~~	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3	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 BELOW)	METALS, DISSOLVED (LIST BELOW)	PRESERVATION pH < 2.0	pH > 12	Other
MW0Ø0599Ø1	5-5-99	1535	291000	groundH2O	4	3	1											
TW13059901	5-5-99	1557	291001		4	3	1											
TW74059901	5-5-99	1703	291002		4	3	1											
TW20059902	5-5-99	1730	291003		4	3	1											
W5059901	5-5-99	1829	291005		4	3	1											
TW09059901D	5-5-99	0915	291007		4	3	1								(Duplicate)			

JF Jury 5/6/99

RELINQUISHED BY:
Signature: Jerry R. Fields Jr.
Printed Name: Jerry R. Fields Jr.
Firm: H. Harding Lawson Assoc. CAS
Date/Time: 5/6/99 10:21

RECEIVED BY:
Signature: Tom Hastings
Printed Name: Tom Hastings
Firm: CAS
Date/Time: 5/7/99 08:20

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
X Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date ____

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
X 3. EPA Level III Validatable Package VOA, Hg (only) RF 5/6/99
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC.

INVOICE INFORMATION:
P.O. #: 3533
Bill To: ____

SAMPLE RECEIPT:
Shipping Via: ____
Shipping #: ____
Temperature: ____
Submission No: 9905-079

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

Columbia Analytical Services, Inc.
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Mustard St., Suite 250, Rochester, NY 14609-69245
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 5/6/99 PAGE 1 OF 2

PROJECT NAME Pre-Remedy GWMP
PROJECT MANAGER/CONTACT Ronny Fields
COMPANY/ADDRESS HLA, 1400 Centerpoint Blvd. Ste 158, Knoxville, TN 37932-
TEL (423) 531-1922 FAX (423) 531-8226
SAMPLER'S SIGNATURE

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ 95-1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ 95-2 Hg-CVAA	GC VOA's ☐ 8021 ☐ 601/602 TAL Metals, Hardness	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3 TSS, TDS	STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP Fe (dissolved)	STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP TOC	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P BOD 405.1	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW) 410.4 COD	METALS, DISSOLVED (LIST BELOW) 310.1 ALKALINITY	353.1, 353.2 Nitrate/Nitrite TKN (351.2)	Chloride 300	** 5-6-99 Chloride Sulfate 300	Phosphorus, total (365.1)	Sulfide	Methane, ethane, ethene (RSK)	PRESERVATION pH < 2.0	pH > 12	Other
QABR01	5-6-99 0945	0945		rinsate	18	3	1	1	1	1	2	1		1	1	1	1	X	1	1	2	291040		
QATB02	5-6-99 ** 5-6-99	—		trip blank	1	1																		
QAFB01	5-6-99	1015		field blank	4	3	1												291041			291042		
* TWO TW1705990	5-6-99	1144			18	3	1	1	1	1	2	1		1	1	1	1	X	1	1	2	(+ Duplica		
OB05059901	5-6-99	1250			18	3	1	1	1	1	2	1		1	1	1	1	X	1	1	2	291045		
BR01059901	5-6-99	1256			13	3	1	1	1	1	2	1		1	1		1					291046		
OB04059901	5-6-99	1415			18	3	1	1	1	1	2	1		1	1	1	1	X	1	1	2	291047		
BR04059901	5-6-99	1417			13	3	1	1	1	1	2	1		1	1		1				291048			
BR04059901MS	5-6-99	1417		matrix spike	4	3	1																	
BR04059901MD	5-6-99	1417		MSD	4	3	1																	

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature: Tom Hastings
Printed Name: Tom Hastings
Firm
Date/Time: 5/7/99 08:20

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
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Date/Time

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
☒ Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
☒ 3. EPA Level III Validatable Package (VOA, Hg)
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC

INVOICE INFORMATION:
P.O. #:
Bill To:

SAMPLE RECEIPT:
Shipping Via:
Shipping #:
Temperature:
Submission No: 9905-079

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List
* ON Sample TW1705990 1 please run duplicate analyses for engineering parameters (NOT VOA or Hg)
Data for Engineering parameters only turn around RF

Columbia Analytical Services, Inc.
An Employee Owned Company

Mustard St., Suite 250, Rochester, NY 14609-69245
(716) 288-5380 • FAX (716) 288-8475

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 5/6/99 PAGE 2 OF 2

PROJECT NAME Pre-Remedy GWMP
PROJECT MANAGER/CONTACT Ronny Fields
COMPANY/ADDRESS HLA, 1400 Centerpoint Blvd. Ste 158, Knoxville, TN 37932
TEL (423) 531-1922 FAX (423) 531-8226
SAMPLER'S SIGNATURE

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	FOR OFFICE USE ONLY LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ 95-1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ 96-2	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/PCB's ☐ 8081 ☐ 608 ☐ 95-3	STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)							PRESERVATION pH < 2.0	pH > 12	Other
BRF0599D	5-6-99	1417		Duplicate	4	3	1	1	1	1	2	1		1	1	1	RF	5-6-99						
BR@5@599@1	5-6-99	1530		grab groundwater	3	3	1	1	1	1	2	1		1	1	1		2910 99						
QABR02	5-6-99	1530		Rinsate	4	3	1																	
QAFB02	5-6-99	1530		Field blank	4	3	1																	

5/6/99

RELINQUISHED BY:
Signature
Printed Name Jerry R. Fields
Firm HLA
Date/Time 1545 / 5-6-99

RECEIVED BY:
Signature
Printed Name Tom Hastings
Firm
Date/Time 5/7/99 0820

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

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Signature
Printed Name
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Date/Time

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Printed Name
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Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS
__ 24 hr. __ 48 hr. __ 5 day
X Standard (10-15 working days)
__ Provide Verbal Preliminary Results
__ Provide FAX Preliminary Results
Requested Report Date

REPORT REQUIREMENTS
__ 1. Routine Report
__ 2. Routine Rep. w/CASE Narrative
X 3. EPA Level III Validatable Package (VOA, Hg)
__ 4. N.J. Reduced Deliverables Level IV
__ 5. NY ASP/CLP Deliverables
__ 6. Site specific QC.

INVOICE INFORMATION:
P.O.#: engineering
Bill To:

SAMPLE RECEIPT:
Shipping Via:
Shipping #:
Temperature:
Submission No: 9905-079

SPECIAL INSTRUCTIONS/COMMENTS:
METALS
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

APPENDIX E

LABORATORY REPORTS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR01059901

Date Sampled : 05/06/99 **Order #:** 290960 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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	390 E	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
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	1400 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR01059901

Date Sampled : 05/06/99 **Order #:** 290960 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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	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
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	1800	UG/L
VINYL CHLORIDE	5.0	50 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 %)	90	%
TOLUENE-D8	(88 - 110 %)	109	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR01059901

Date Sampled : 05/06/99 **Order #:** 290960 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	1.18	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0540	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	174	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	57.3	MG/L	05/25/99	1.0
LEAD	0.00500	0.0116	MG/L	05/25/99	1.0
MAGNESIUM	0.500	56.9	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.249	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.94	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00634	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	49.7	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0271	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CHEMICAL OXYGEN DEMAND	5.00	16.2	MG/L	05/28/99	1.0
CHLORIDE	0.100	74.4	MG/L	05/20/99	10.0
TOTAL ALKALINITY	2.00	363	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	663	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.85	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	779	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR01059901 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291046 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.281	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR02059901

Date Sampled : 05/05/99 **Order #:** 290986 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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	6.0	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1000 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	24	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
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	1500 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR02059901

Date Sampled : 05/05/99 **Order #:** 290986 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/21/99
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	1200	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
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	3300	UG/L
VINYL CHLORIDE	5.0	100 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 %)	95	%
TOLUENE-D8	(88 - 110 %)	104	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR02059901

Date Sampled : 05/05/99 **Order #:** 290986 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR03059901

Date Sampled : 05/04/99 **Order #:** 290489 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/17/99			
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	5.5	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
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	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR03059901

Date Sampled : 05/04/99 **Order #:** 290489 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/21/99
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
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	420	UG/L
VINYL CHLORIDE	5.0	25 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 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR03059901

Date Sampled : 05/04/99 **Order #:** 290489 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0200 U	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	104	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	14.8	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	58.9	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.120	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	33.7	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	90.2	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0182	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/06/99	1.0
CHEMICAL OXYGEN DEMAND	5.00	7.64	MG/L	05/28/99	1.0
CHLORIDE	0.100	22.0	MG/L	05/20/99	10.0
TOTAL ALKALINITY	2.00	260	MG/L	05/17/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	1380	MG/L	05/11/99	1.0
TOTAL ORGANIC CARBON	1.00	1.90	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	28.8	MG/L	05/11/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR03059901 SOLUBLE

Date Sampled : 05/04/99 **Order #:** 290530 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	1.48	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR04059901

Date Sampled : 05/06/99 **Order #:** 290961 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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	160	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
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 RF 7/29/99	UG/L
TRICHLOROETHENE	5.0	2100 E	UG/L
VINYL CHLORIDE	5.0	50 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	108	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR04059901

Date Sampled : 05/06/99 **Order #:** 290961 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.208	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	162	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	3.06	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	43.3	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.222	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	6.32	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	225	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0112	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CHEMICAL OXYGEN DEMAND	5.00	22.6	MG/L	05/28/99	1.0
CHLORIDE	0.100	434	MG/L	05/20/99	100.0
TOTAL ALKALINITY	2.00	335	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	1330	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	6.17	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	2.60	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR04059901 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291048 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.664	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR04059901D

Date Sampled : 05/06/99 **Order #:** 290984 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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	210	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
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	2100 E	UG/L
VINYL CHLORIDE	5.0	50 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 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR04059901D

Date Sampled : 05/06/99 **Order #:** 290984 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/21/99			
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	190	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
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	2100	UG/L
VINYL CHLORIDE	5.0	100 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 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	94	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR04059901D

Date Sampled : 05/06/99 **Order #:** 290984 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR05059901

Date Sampled : 05/06/99 **Order #:** 290964 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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	5.2	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	23	UG/L
CIS-1,2-DICHLOROETHENE	5.0	680 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	84	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
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	3300 E	UG/L
VINYL CHLORIDE	5.0	95	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 %)	83 *	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR05059901

Date Sampled : 05/06/99 **Order #:** 290964 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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	440	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
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	6700	UG/L
VINYL CHLORIDE	5.0	250 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	105	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR05059901

Date Sampled : 05/06/99 **Order #:** 290964 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.279	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	163	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	8.08	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	44.6	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.242	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	4.10	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	170	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0122	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CHEMICAL OXYGEN DEMAND	5.00	18.0	MG/L	05/28/99	1.0
CHLORIDE	0.100	209	MG/L	05/20/99	40.0
TOTAL ALKALINITY	2.00	338	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	1150	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	4.32	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	12.6	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR05059901 SOLUBLE

Date Sampled : 05/06/99 Order #: 291049 Sample Matrix: WATER
Date Received: 05/07/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.601	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR06059901

Date Sampled : 05/04/99 **Order #:** 290488 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/17/99			
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
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	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :BR06059901

Date Sampled : 05/04/99 Order #: 290488 Sample Matrix: WATER
Date Received: 05/06/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.106	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	99.1	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	9.77	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	71.5	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0541	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	5.16	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	52.2	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/06/99	1.0
CHEMICAL OXYGEN DEMAND	5.00	8.27	MG/L	05/28/99	1.0
CHLORIDE	0.100	231	MG/L	05/20/99	40.0
TOTAL ALKALINITY	2.00	270	MG/L	05/17/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	690	MG/L	05/11/99	1.0
TOTAL ORGANIC CARBON	1.00	1.89	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	21.5	MG/L	05/11/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR06059901 SOLUBLE

Date Sampled : 05/04/99 **Order #:** 290529 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	1.75	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR07059901

Date Sampled : 05/05/99 **Order #:** 290988 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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	53	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.9	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
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	5.4	UG/L
VINYL CHLORIDE	5.0	410 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR07059901

Date Sampled : 05/05/99 **Order #:** 290988 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/21/99
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	64	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
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	5.0	360	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 %)	91	%
TOLUENE-D8	(88 - 110 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : BR07059901

Date Sampled : 05/05/99 **Order #:** 290988 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : MW00059901

Date Sampled : 05/05/99 **Order #:** 291000 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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	6.1	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	5.0	12	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 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : MW00059901

Date Sampled : 05/05/99 **Order #:** 291000 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB04059901

Date Sampled : 05/06/99 **Order #:** 290959 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.7	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	19	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1800 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25	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
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	23	UG/L
TOLUENE	5.0	5.7	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	11000 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	92	%
TOLUENE-D8	(88 - 110 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB04059901

Date Sampled : 05/06/99 **Order #:** 290959 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/21/99
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
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	68000	UG/L
VINYL CHLORIDE	5.0	2500 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 %)	94	%
TOLUENE-D8	(88 - 110 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB04059901

Date Sampled : 05/06/99 **Order #:** 290959 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.195	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.149	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	162	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.474	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	22.3	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.135	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	8.61	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	110	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0485	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CALCIUM HARDNESS	1.25	404	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	43.4	MG/L	05/28/99	1.0
CHLORIDE	0.100	89.8	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	92	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	8.46	MG/L	05/28/99	10.0
SULFATE	0.200	367	MG/L	05/20/99	100.0
TOTAL ALKALINITY	2.00	231	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	957	MG/L	05/13/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	1.05	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	13.8	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0675	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	26.2	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB04059901

Date Sampled : 05/06/99 **Order #:** 290959 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	41	UG/L
ETHYLENE	1.0	49	UG/L
METHANE	2.0	30	UG/L
PROPANE	1.0	7.4	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB04059901 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291047 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB05059901

Date Sampled : 05/06/99 **Order #:** 290958 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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	23	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1800 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	29	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
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	20	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	5700 E	UG/L
VINYL CHLORIDE	5.0	140	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 %)	90	%
TOLUENE-D8	(88 - 110 %)	107	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB05059901

Date Sampled : 05/06/99 **Order #:** 290958 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/21/99
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	2700	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
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	23000	UG/L
VINYL CHLORIDE	5.0	1000 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 %)	94	%
TOLUENE-D8	(88 - 110 %)	104	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB05059901

Date Sampled : 05/06/99 **Order #:** 290958 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0821	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	136	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.100 U	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	26.9	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.303	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.31	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	21.3	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CALCIUM HARDNESS	1.25	340	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	14.4	MG/L	05/28/99	1.0
CHLORIDE	0.100	15.7	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	110	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	0.938	MG/L	05/28/99	1.0
SULFATE	0.200	97.7	MG/L	05/20/99	10.0
TOTAL ALKALINITY	2.00	392	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	568	MG/L	05/13/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.203	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	3.13	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0500 U	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	1.00 U	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB05059901

Date Sampled : 05/06/99 **Order #:** 290958 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	3.2	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : OB05059901 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291045 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.111	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW01059901

Date Sampled : 05/04/99 **Order #:** 290485 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW01059901

Date Sampled : 05/04/99 **Order #:** 290485 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW04059901

Date Sampled : 05/04/99 **Order #:** 290487 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	91	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	90	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW04059901

Date Sampled : 05/04/99 **Order #:** 290487 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0247	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	101	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.438	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	33.0	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0607	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	6.22	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	33.4	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0113	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/06/99	1.0
CALCIUM HARDNESS	1.25	252	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	5.00 U	MG/L	05/28/99	1.0
CHLORIDE	0.100	6.18	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	140	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	1.08	MG/L	05/28/99	1.0
SULFATE	0.200	258	MG/L	05/20/99	100.0
TOTAL ALKALINITY	2.00	152	MG/L	05/17/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	549	MG/L	05/11/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.200 U	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.77	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0659	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	2.70	MG/L	05/11/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW04059901

Date Sampled : 05/04/99 **Order #:** 290487 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
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: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW04059901 SOLUBLE

Date Sampled : 05/04/99 **Order #:** 290531 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW07059901

Date Sampled : 05/05/99 **Order #:** 290987 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/17/99			
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
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	5.0	5.0 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW07059901

Date Sampled : 05/05/99 **Order #:** 290987 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000742	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW09059901

Date Sampled : 05/06/99 (05 RF 7/24/99) **Order #:** 290985 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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
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	5.0	10 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 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW09059901

Date Sampled : 05/~~06~~05/99 RE 7/28/99 **Order #:** 290985 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/21/99			
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	30	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
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	880	UG/L
VINYL CHLORIDE	5.0	25 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 %)	95	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW09059901

Date Sampled : 05/05/99 AF 7/28/99 Order #: 290985 Sample Matrix: WATER
Date Received: 05/07/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW09059901D

Date Sampled : 05/05/99 **Order #:** 291007 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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	28	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
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	920 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	82 *	%
TOLUENE-D8	(88 - 110 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW09059901D

Date Sampled : 05/05/99 **Order #:** 291007 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/21/99			
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	50 U	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
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	990	UG/L
VINYL CHLORIDE	5.0	50 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 %)	101	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW09059901D

Date Sampled : 05/05/99 Order #: 291007 Sample Matrix: WATER
Date Received: 05/07/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW13059901

Date Sampled : 05/05/99 **Order #:** 291001 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW13059901

Date Sampled : 05/05/99 **Order #:** 291001 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW17059901

Date Sampled : 05/06/99 **Order #:** 290957 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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	11	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
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	1300 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	84 *	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW17059901

Date Sampled : 05/06/99 **Order #:** 290957 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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	50 U	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
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	1500	UG/L
VINYL CHLORIDE	5.0	50 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	104	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW17059901

Date Sampled : 05/06/99 **Order #:** 290957 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0569	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	134	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.217	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	28.2	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0100 U	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.36	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	51.6	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CALCIUM HARDNESS	1.25	334	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	7.01	MG/L	05/28/99	1.0
CHLORIDE	0.100	43.5	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	120	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	0.859	MG/L	05/28/99	1.0
SULFATE	0.200	118	MG/L	05/20/99	40.0
TOTAL ALKALINITY	2.00	361	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	617	MG/L	05/13/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.200 U	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.95	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0500 U	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	4.73	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW17059901

Date Sampled : 05/06/99 **Order #:** 290957 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
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: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW17059901 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291041 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW17059901 DUP

Date Sampled : 05/06/99 Order #: 290969 Sample Matrix: WATER
Date Received: 05/07/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0555	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	131	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.106	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	27.6	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0100 U	MG/L	05/25/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.11	MG/L	05/27/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	51.6	MG/L	05/27/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CALCIUM HARDNESS	1.25	327	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	7.01	MG/L	05/28/99	1.0
CHLORIDE	0.100	46.0	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	110	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	0.847	MG/L	05/28/99	1.0
SULFATE	0.200	140	MG/L	05/20/99	40.0
TOTAL ALKALINITY	2.00	363	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	644	MG/L	05/13/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.200 U	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.86	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0500 U	MG/L	05/14/99	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :TW17059901 DUP SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291042 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW20059901

Date Sampled : 05/05/99 **Order #:** 291003 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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
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	11	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	81 *	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW20059901

Date Sampled : 05/05/99 **Order #:** 291003 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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
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	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	109	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW20059901

Date Sampled : 05/05/99 **Order #:** 291003 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW69059901

Date Sampled : 05/05/99 **Order #:** 290995 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/17/99			
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
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	5.0	5.0 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW69059901

Date Sampled : 05/05/99 **Order #:** 290995 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000593	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW74059901

Date Sampled : 05/05/99 **Order #:** 291002 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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
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	18	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	83 *	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW74059901

Date Sampled : 05/05/99 **Order #:** 291002 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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
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	19	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	107	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : TW74059901

Date Sampled : 05/05/99 **Order #:** 291002 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.00225	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W1059901

Date Sampled : 05/04/99 **Order #:** 290482 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	89	%
TOLUENE-D8	(88 - 110 %)	96	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :W1059901

Date Sampled : 05/04/99 **Order #:** 290482 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W2059901

Date Sampled : 05/04/99 **Order #:** 290486 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	90	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W2059901

Date Sampled : 05/04/99 **Order #:** 290486 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0525	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	33.6	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.100 U	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	10.2	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0527	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.00 U	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	109	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/06/99	1.0
CALCIUM HARDNESS	1.25	83.9	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	6.37	MG/L	05/28/99	1.0
CHLORIDE	0.100	5.70	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	42	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	2.26	MG/L	05/28/99	2.0
SULFATE	0.200	43.2	MG/L	05/20/99	10.0
TOTAL ALKALINITY	2.00	307	MG/L	05/17/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	399	MG/L	05/11/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.200 U	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.36	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0500 U	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	1.00 U	MG/L	05/11/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W2059901

Date Sampled : 05/04/99 **Order #:** 290486 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
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: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W2059901 SOLUBLE

Date Sampled : 05/04/99 **Order #:** 290528 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W3059901

Date Sampled : 05/05/99 **Order #:** 290997 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	86	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :W3059901

Date Sampled : 05/05/99 **Order #:** 290997 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W4059901

Date Sampled : 05/05/99 **Order #:** 290990 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	87	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :W4059901

Date Sampled : 05/05/99 **Order #:** 290990 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W5059901

Date Sampled : 05/05/99 **Order #:** 291005 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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	6.2	UG/L
CIS-1,2-DICHLOROETHENE	5.0	810 E	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	41	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
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	1700 E	UG/L
VINYL CHLORIDE	5.0	5.0 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 %)	84 *	%
TOLUENE-D8	(88 - 110 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W5059901

Date Sampled : 05/05/99 **Order #:** 291005 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/21/99
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	840	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
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	3000	UG/L
VINYL CHLORIDE	5.0	130 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 %)	94	%
TOLUENE-D8	(88 - 110 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W5059901

Date Sampled : 05/05/99 **Order #:** 291005 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W6059901

Date Sampled : 05/05/99 **Order #:** 290991 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	86	%
TOLUENE-D8	(88 - 110 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	102	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : W6059901

Date Sampled : 05/05/99 **Order #:** 290991 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QABR01

Date Sampled : 05/06/99 **Order #:** 290956 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/19/99
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	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
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	5.0	5.0 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 %)	86	%
TOLUENE-D8	(88 - 110 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/04/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :QABR01

Date Sampled : 05/06/99 Order #: 290956 Sample Matrix: WATER
Date Received: 05/07/99 Submission #:9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ALUMINUM	0.100	0.100 U	MG/L	05/25/99	1.0
ANTIMONY	0.0600	0.0600 U	MG/L	05/25/99	1.0
ARSENIC	0.0100	0.0100 U	MG/L	05/25/99	1.0
BARIUM	0.0200	0.0200 U	MG/L	05/25/99	1.0
BERYLLIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CADMIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
CALCIUM	0.500	0.500 U	MG/L	05/25/99	1.0
CHROMIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
COBALT	0.0500	0.0500 U	MG/L	05/25/99	1.0
COPPER	0.0200	0.0200 U	MG/L	05/25/99	1.0
IRON	0.100	0.100 U	MG/L	05/25/99	1.0
LEAD	0.00500	0.00500 U	MG/L	05/25/99	1.0
MAGNESIUM	0.500	0.500 U	MG/L	05/25/99	1.0
MANGANESE	0.0100	0.0100 U	MG/L	05/25/99	1.0
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0
NICKEL	0.0400	0.0400 U	MG/L	05/25/99	1.0
POTASSIUM	2.00	2.00 U	MG/L	05/26/99	1.0
SELENIUM	0.00500	0.00500 U	MG/L	05/25/99	1.0
SILVER	0.0100	0.0100 U	MG/L	05/25/99	1.0
SODIUM	0.500	0.500 U	MG/L	05/26/99	1.0
THALLIUM	0.0100	0.0100 U	MG/L	05/25/99	1.0
VANADIUM	0.0500	0.0500 U	MG/L	05/25/99	1.0
ZINC	0.0100	0.0100 U	MG/L	05/25/99	1.0
WET CHEMISTRY					
BOD-5	2.00	2.00 U	MG/L	05/07/99	1.0
CALCIUM HARDNESS	1.25	1.13	MG/L		0.0
CHEMICAL OXYGEN DEMAND	5.00	5.00 U	MG/L	05/28/99	1.0
CHLORIDE	0.100	1.00 U	MG/L	05/20/99	10.0
MAGNESIUM HARDNESS	1.2	1.20 U	MG/L		1.0
NITRATE/NITRITE NITROGEN	0.0500	0.176	MG/L	05/28/99	1.0
SULFATE	0.200	3.78	MG/L	05/20/99	10.0
TOTAL ALKALINITY	2.00	2.00 U	MG/L	05/20/99	1.0
TOTAL DISSOLVED SOLIDS	10.0	10.0 U	MG/L	05/13/99	1.0
TOTAL KJELDAHL NITROGEN	0.200	0.200 U	MG/L	05/13/99	1.0
TOTAL ORGANIC CARBON	1.00	1.0 U	MG/L	05/11/99	1.0
TOTAL PHOSPHORUS	0.0500	0.0500 U	MG/L	05/14/99	1.0
TOTAL SULFIDE	1.00	1.00 U	MG/L	05/11/99	1.0
TOTAL SUSPENDED SOLIDS	1.00	1.00 U	MG/L	05/13/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8015B GASES
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QABR01

Date Sampled : 05/06/99 **Order #:** 290956 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38061

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/11/99			
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: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QABR01 SOLUBLE

Date Sampled : 05/06/99 **Order #:** 291040 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
IRON	0.100	0.100 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QABR02

Date Sampled : 05/06/99 **Order #:** 290974 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 05/20/99			
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
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	5.0	5.0 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 %)	97	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QABR02

Date Sampled : 05/06/99 **Order #:** 290974 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QAFB01

Date Sampled : 05/06/99 **Order #:** 290972 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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
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	5.0	5.0 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 %)	89	%
TOLUENE-D8	(88 - 110 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	107	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference:PRE-REMEDY GWMP
Client Sample ID :QAFB01

Date Sampled : 05/06/99 **Order #:** 290972 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:**9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QAFB02

Date Sampled : 05/06/99 **Order #:** 290973 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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
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	5.0	5.0 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 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QAFB02

Date Sampled : 05/06/99 **Order #:** 290973 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
MERCURY	0.000300	0.000300 U	MG/L	05/28/99	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QATB01

Date Sampled : 05/04/99 **Order #:** 290490 **Sample Matrix:** WATER
Date Received: 05/06/99 **Submission #:** 9905000079 **Analytical Run** 38683

DATE ANALYZED : 05/17/99
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
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	5.0	5.0 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 %)	88	%
TOLUENE-D8	(88 - 110 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 118 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 06/03/99

Harding Lawson Associates
Project Reference: PRE-REMEDY GWMP
Client Sample ID : QATB02

Date Sampled : 05/06/99 **Order #:** 290970 **Sample Matrix:** WATER
Date Received: 05/07/99 **Submission #:** 9905000079 **Analytical Run** 38690

DATE ANALYZED : 05/20/99
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
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	5.0	5.0 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 %)	98	%