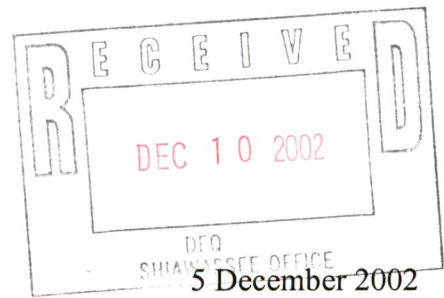




Weston Solutions, Inc.  
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Mr. James Innes  
Michigan Department of Environmental Quality-RRD  
P.O. Box 30242  
Lansing, MI 48909

Work Order No.: 01138.079.003

Re: Third Annual Groundwater Sampling and Methane Monitoring  
Linden Road Landfill Site  
Flint Township, Michigan

Dear Mr. Innes:

Weston Solutions, Inc. (WESTON®), on behalf of General Motors Corporation (GM), has completed the third annual groundwater sampling and methane monitoring activities at the Linden Road Landfill site located in Flint Township, Michigan. The groundwater sampling was performed to evaluate the groundwater quality after the placement of the soil cover system in Parcel # 1, as required by the Operation and Maintenance (O&M) Plan for the Linden Road Landfill site dated April 1999. The baseline groundwater sampling and the initial methane monitoring activities were completed in October 1999 and the findings were documented in a report dated 20 December 1999 submitted to the Michigan Department of Environmental Quality (MDEQ). The results of the first annual groundwater sampling event were documented in a letter report to MDEQ dated 9 January 2001. The results for the second annual groundwater sampling event were documented in a letter report to MDEQ dated 11 January 2002.

The following letter report presents the results of the third annual groundwater sampling and methane monitoring activities.

### **GROUNDWATER SAMPLING**

WESTON personnel conducted groundwater sampling on 22 October 2002. The groundwater samples were collected from each of the nine shallow groundwater-monitoring wells on site (MW-1S, MW-3S, MW-5S, MW-6S, MW-7S, MW-10S, MW-11S, MW-12S, and MW-13S). PZ-01 was dry; therefore no sample was collected from this location. During this sampling event Mr. James Innes of the MDEQ was present at the site and obtained a split sample from the monitoring well MW-3S for independent analysis.

The attached Figure 1 shows the locations of all the groundwater-monitoring wells. A single groundwater sample was collected from each of the nine shallow groundwater monitoring wells. A quality control (QC) field duplicate sample was also collected from Monitoring Well MW-1S for quality assurance/quality control (QA/QC) purposes. Sampling and shipping procedures were





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consistent with those established in the sampling plan for the site. Temperature, conductivity, and pH measurements were recorded during sampling. A minimum of three times the volumes of water present in each well were purged prior to sampling.

Merit Laboratories of East Lansing, Michigan, analyzed the samples for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), "Michigan Ten Metals," and polychlorinated biphenyls (PCBs). A WESTON chemist validated the analytical data in accordance with United States Environmental Protection Agency (U.S. EPA) data validation procedures.

Table 1 presents a summary of detected constituents and their respective concentrations for each sample collected during the third annual sampling event. Table 1 also compares the concentrations of the detected constituents in the groundwater samples to the MDEQ Generic Drinking Water Criteria for residential and industrial/commercial categories. A copy of the complete laboratory report, including laboratory QA/QC data and chain-of-custody documentation, is presented in Attachment A.

Additionally, in accordance with comments received from MDEQ in their letter dated 19 August 2002, Table 1 includes a summary of detected constituents by location and date sampled since implementation of the O&M Plan.

Among the VOCs detected during the third annual sampling event, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride were detected at levels exceeding their respective MDEQ Generic Drinking Water Criteria in two of the wells. Each of these constituents was detected above drinking water criteria in monitoring well MW-1S (and its QC duplicate). Trichloroethene and vinyl chloride exceeded drinking water criteria in MW-5S. It should be noted that both the monitoring wells MW-1S and MW-5S are located along the western property boundary and upgradient with respect to groundwater flow direction. Presence of VOCs in these wells has been documented in past sampling events and is believed to be migrating from the adjacent property to the west.

Vinyl chloride was found to exceed its drinking water criteria in MW-3S during the current sampling round, as well as previous rounds (see Table 1). MW-3S is located in the southeastern corner of the property in the vicinity of the former oil disposal area, which was excavated and removed during an Interim Remedial Measures Removal Action conducted in December 1992. Vinyl chloride was first detected in this well during the second annual sampling event (October 2001) at a level of 0.023 mg/L, which was above the drinking water criteria for this compound. Based on these results, two additional samples were collected (February and June 2002) to confirm the presence of vinyl chloride in this well. The results of these additional samples, as well as the third annual sampling results (October 2002) confirm the presence of vinyl chloride in MW-3S at levels above drinking water criteria. Vinyl chloride levels since October 2001



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appear relatively stable and range between 0.013 and 0.024 mg/L, with the latest result being in the approximate middle of the range (0.019 mg/L).

Mr. James Innes forwarded the analytical results of the split sample from well MW-03, collected by the MDEQ, to Weston on 8 November 2002. These results were consistent with those of the sample collected by Weston.

The source of vinyl chloride may be due to anaerobic biodegradation of trichloroethene, for which vinyl chloride is one of the end products. Trichloroethene contamination was documented during the Interim Remedial Measures Removal Action at the former oil disposal area in December 1992 and it is possible that some residual low level trichloroethene contamination is present in the vicinity of MW-3S within the shallow water-bearing zone that may be responsible for the presence of breakdown products. Trichloroethene was also detected at trace levels in MW-3S during the initial sampling round in October 1999, but has not been detected since. During the same timeframe, other common trichloroethene breakdown products have been detected in this well, including 1,1-dichloroethane, and cis- and trans-1,2-dichloroethene at steady or slightly increasing levels. The presence of each of these breakdown products combined with a slight increase in vinyl chloride indicates reductive dechlorination processes may be occurring in shallow groundwater in the vicinity of MW-3S. However, the absence of trichloroethene and breakdown products in other nearby downgradient wells (MW-12S and MW-13S) indicates this may be a potentially localized occurrence.

SVOCs and PCBs were not detected in any of the samples collected during the current sampling round.

As shown in Table 1, trace concentrations of arsenic, barium, copper, chromium, and zinc were detected in several samples. However, none of the detected metal concentrations exceeded MDEQ Generic Drinking Water Criteria.

### **METHANE MONITORING**

During this sampling event, WESTON screened the methane monitoring wells (M-1, M-2, M-3, M-4) shown in Figure 1 for methane gas. Methane screening was conducted using a combustible gas indicator (CGI), which measures the concentration of potential explosive gases based on the percentage of lower explosive limit (LEL). Screening results indicated that well M-1 registered an LEL reading of 5 %; M-2 registered a reading of 0%; M-3 registered a reading of 2%; and M-4 registered a reading of 4%.

After MDEQ has had time to review the information presented herein, Weston will contact MDEQ during the first week of January 2003 to set up a meeting between MDEQ, GM, and



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Weston to discuss appropriate actions that may be needed with regard to the occurrence of vinyl chloride in Well MW-3S.

If you have any questions or require additional information, please call me at (847) 918-4018.

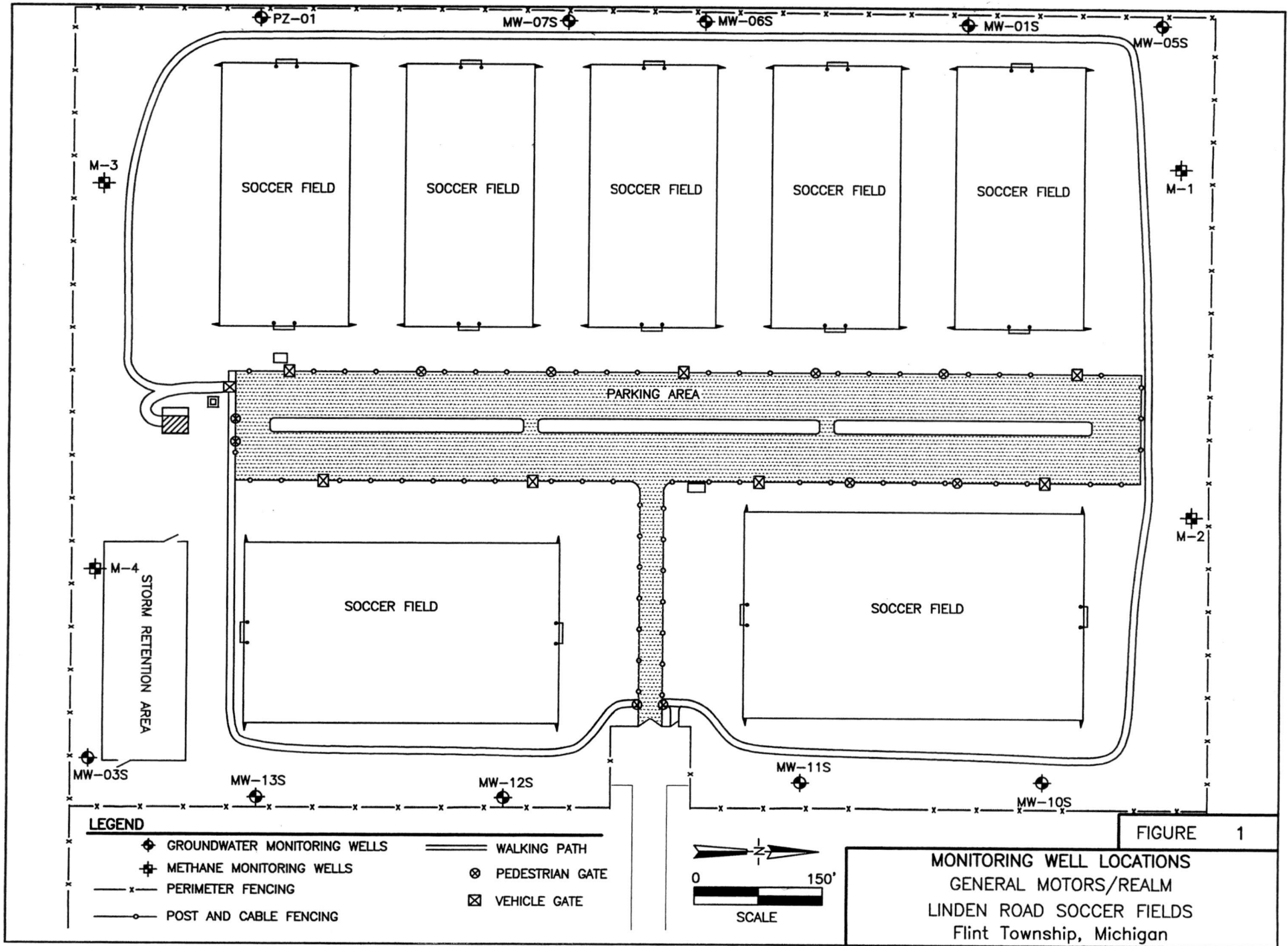
Very truly yours,

WESTON SOLUTIONS, INC.

A handwritten signature in black ink, appearing to read "S. Babusukumar", with a horizontal line underneath the name.

S. Babusukumar, P.G.  
Project Manager

cc: R. Metcalf, GM



**Table 1**  
**Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria**  
**Groundwater Sample Analytical Results 1999 to Date**  
**Linden Road Site**

Sample Location	MW-1S	MW-1S	MW-1S DP	MW-1S	MW-1S	MW-1S DP	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S DP	MW-3S	MW-3S DP	MW-3S	MDEQ Generic Drinking Water Criteria	
	Oct-99	Oct-00	Oct-00	Oct-01	Oct-02	Oct-02	Oct-99	Oct-00	Oct-01	Feb-02	Feb-02	Jun-02	Jun-02	Oct-02	Residential	Industrial/Commercial
<b>VOCs (mg/L)</b>																
Benzene	0.002	---	---	---	0.001	0.001	---	---	---	---	---	---	---	---	0.005	0.005
Trichloroethene	0.087	0.06	0.07	0.08	0.066	0.071	0.001	---	---	---	---	---	---	---	0.005	0.005
1,1-Dichloroethane	---	---	---	---	---	---	0.006	0.017	0.021	0.011	0.012	0.014	0.015	0.012	0.88	2.5
cis-1,2-Dichloroethene	0.14	0.25	0.28	0.17	0.127	0.121	0.015	0.035	0.035	0.016	0.016	0.021	0.024	0.021	0.07	0.07
1,2-Dichloropropane	---	---	---	---	---	---	---	0.001	0.002	0.002	---	---	0.001	0.001	0.005	0.005
trans-1,2-Dichloroethene	---	---	---	---	---	---	0.001	0.002	0.002	---	---	0.001	0.001	0.001	0.1	0.1
Toluene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.79	0.79
Vinyl chloride	0.054	---	---	0.02	0.116	0.107	---	---	0.023	0.013	0.014	0.023	0.024	0.019	0.002	0.002
1,3,5-Trimethylbenzene	---	0.02	---	---	---	---	---	---	---	---	---	---	---	---	1	2.9
<b>SVOCs (mg/L)</b>																
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	na	na	na	na	---	0.006	0.006
Bis(2-chloroisopropyl)ether	0.07	0.02	0.02	---	0.02	0.02	---	---	---	na	na	na	na	---	---	---
<b>Total Metals (mg/L)</b>																
Arsenic	---	---	---	0.001	0.002	0.002	0.009	0.007	0.006	na	na	na	na	0.009	0.05	0.05
Barium	0.14	0.08	0.08	0.08	0.1	0.1	0.18	0.15	0.14	na	na	na	na	0.16	2	2
Cadmium	---	---	---	---	---	---	---	---	---	na	na	na	na	---	0.005	0.005
Copper	0.01	---	---	---	---	---	---	---	---	na	na	na	na	---	1	1
Chromium	---	---	---	---	---	---	0.03	---	---	na	na	na	na	0.005	0.1	0.1
Lead	---	---	---	---	---	---	---	---	---	na	na	na	na	---	0.004	0.004
Zinc	0.01	---	---	---	---	---	0.01	---	0.01	na	na	na	na	0.006	2.4	2.4

Notes:

- Compound not detected above laboratory detection limit, or no criteria available.
- na Compound not analyzed
- Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria
- DP Field quality control duplicate sample

**Table 1**  
**(continued)**  
**Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria**  
**Groundwater Sample Analytical Results 1999 to Date**  
**Linden Road Site**

Sample Location	MW-5S	MW-5S	MW-5S	MW-5S DP	MW-5S	MW-6S	MW-6S	MW-6S	MW-6S	MW-7S	MW-7S	MW-7S	MW-7S	MDEQ Generic Drinking Water Criteria	
	Oct-99	Oct-00	Oct-01	Oct-01	Oct-02	Oct-99	Oct-00	Oct-01	Oct-02	Oct-99	Oct-00	Oct-01	Oct-02	Residential	Industrial/ Commercial
<b>VOCs (mg/L)</b>															
Benzene	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
Trichloroethene	---	1.16	0.36	0.38	0.28	---	---	---	---	---	---	---	---	0.005	0.005
1,1-Dichloroethane	---	---	---	---	---	---	---	---	---	---	---	---	---	0.88	2.5
cis-1,2-Dichloroethene	---	0.09	0.09	0.09	0.06	---	---	---	---	---	---	---	---	0.07	0.07
1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.1
Toluene	---	---	---	---	---	---	---	---	---	---	---	---	---	0.79	0.79
Vinyl chloride	---	---	0.02	0.03	0.06	---	---	---	---	0.02	---	---	---	0.002	0.002
1,3,5-Trimethylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	1	2.9
<b>SVOCs (mg/L)</b>															
Bis(2-ethylhexyl)phthalate	0.03	---	---	---	---	---	---	---	---	0.02	---	---	---	0.006	0.006
Bis(2-chloroisopropyl)ether	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total Metals (mg/L)</b>															
Arsenic	---	---	---	---	---	---	0.002	0.002	0.003	0.001	0.002	0.004	0.01	0.05	0.05
Barium	0.011	0.14	0.16	0.16	0.16	0.002	0.02	0.03	0.04	0.06	0.02	0.02	0.02	2	2
Cadmium	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
Copper	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1
Chromium	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.1
Lead	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
Zinc	0.03	---	---	---	---	0.06	0.02	0.02	0.029	0.02	---	0.01	---	2.4	2.4

Notes:

- Compound not detected above laboratory detection limit, or no criteria available.
- na Compound not analyzed
- Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria
- DP Field quality control duplicate sample

**Table 1**  
**(continued)**  
**Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria**  
**Groundwater Sample Analytical Results 1999 to Date**  
**Linden Road Site**

Sample Location	MW-10S	MW-10S	MW-10S	MW-10S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-12S	MW-12S DP	MW-12S	MW-12S	MW-12S	MDEQ Generic Drinking Water Criteria	
	Oct-99	Oct-00	Oct-01	Oct-02	Oct-99	Feb-00	Jun-00	Oct-00	Oct-01	Oct-02	Oct-99	Oct-99	Oct-00	Oct-01	Oct-02	Residential	Industrial/Commercial
<b>VOCs (mg/L)</b>																	
Benzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
Trichloroethene	0.002	0.001	0.002	0.001	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
1,1-Dichloroethane	0.004	0.039	0.007	0.003	---	---	---	---	---	---	---	---	---	---	---	0.88	2.5
cis-1,2-Dichloroethene	0.004	0.002	0.004	0.002	0.001	0.002	---	---	---	---	---	---	---	---	0.001	0.07	0.07
1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.1
Toluene	---	---	---	---	0.002	---	---	---	---	---	---	---	---	---	---	0.79	0.79
Vinyl chloride	---	---	---	0.001	0.003	---	---	---	---	---	---	---	---	---	---	0.002	0.002
1,3,5-Trimethylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	2.9
<b>SVOCs (mg/L)</b>																	
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	na	na	---	---	---	---	---	---	---	---	0.006	0.006
Bis(2-chloroisopropyl)ether	---	---	---	---	---	na	na	---	---	---	---	---	---	---	---	---	---
<b>Total Metals (mg/L)</b>																	
Arsenic	---	0.007	0.022	0.02	---	na	na	0.017	0.019	0.027	---	---	---	0.007	0.01	0.05	0.05
Barium	0.06	0.02	0.03	0.06	0.16	na	na	0.39	0.34	0.41	0.13	0.08	0.15	0.13	0.16	2	2
Cadmium	---	---	0.0003	---	---	na	na	---	---	---	---	---	---	---	---	0.005	0.005
Copper	---	---	---	---	0.01	na	na	---	---	---	0.02	0.03	---	---	---	1	1
Chromium	0.01	---	---	---	0.02	na	na	---	---	0.005	---	---	---	---	---	0.1	0.1
Lead	---	---	---	---	---	na	na	---	---	---	---	---	---	---	---	0.004	0.004
Zinc	0.04	0.01	0.01	0.007	0.02	na	na	---	0.01	0.012	---	0.01	---	0.02	---	2.4	2.4

Notes:  
--- Compound not detected above laboratory detection limit; or no criteria available.  
na Compound not analyzed  
Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria  
DP Field quality control duplicate sample

**Table 1**  
**(continued)**  
**Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria**  
**Groundwater Sample Analytical Results 1999 to Date**  
**Linden Road Site**

Sample Location	MW-13S	MW-13S	MW-13S	MW-13S	MDEQ Generic Drinking Water Criteria	
	Oct-99	Oct-00	Oct-01	Oct-02	Residential	Industrial/ Commercial
Trichloroethene	0.001	0.001	---	---	0.005	0.005
1,1-Dichloroethane	---	---	---	---	0.88	2.5
cis-1,2-Dichloroethene	---	---	---	---	0.07	0.07
1,2-Dichloropropane	---	---	---	---	0.005	0.005
trans-1,2-Dichloroethene	---	---	---	---	0.1	0.1
Toluene	---	---	0.001	---	0.79	0.79
Vinyl chloride	---	---	---	---	0.002	0.002
1,3,5-Trimethylbenzene	---	---	---	---	1	2.9
<b>SVOCs (mg/L)</b>						
Bis(2-ethylhexyl)phthalate	---	---	---	---	0.006	0.006
Bis(2-chloroisopropyl)ether	---	---	---	---	---	---
<b>Total Metals (mg/L)</b>						
Arsenic	---	---	0.001	---	0.05	0.05
Barium	0.15	0.06	0.1	0.14	2	2
Cadmium	---	---	---	---	0.005	0.005
Copper	---	---	---	0.01	1	1
Chromium	0.01	---	---	---	0.1	0.1
Lead	0.004	---	---	---	0.004	0.004
Zinc	0.02	---	0.09	---	2.4	2.4

Notes:

- - na
  - DP
- Compound not detected above laboratory detection limit; or no criteria available.  
Compound not analyzed  
Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria  
Field quality control duplicate sample

**ATTACHMENT A**

**LABORATORY ANALYTICAL RESULTS**

**GM Linden Rd. Site**  
**Report ID: S10822.01 (01)**

All groundwater samples were analyzed for volatile organics, semi-volatile organics, PCBs, and metals. (Sample 10 was a trip blank that was analyzed for volatile analysis only).

FEC Lab No.	Sample Name	Date Collected
10822.01	MW-03S	10/22/02
10822.02	MW-11S	10/22/02
10822.03	MW-10S	10/22/02
10822.04	MW-01S	10/22/02
10822.05	MW-05S	10/22/02
10822.06	MW-06S	10/22/02
10822.07	MW-07S	10/22/02
10822.08	MW-13S	10/22/02
10822.09	MW-12S	10/22/02
10822.10	Trip Blank	10/22/02
10822.11	MW-01S DUP	10/22/02

**Volatile Organics:**

Samples were analyzed on 10/28/02, and 10/29/02 within the required holding time. Samples 10822.03, and 10822.04 were re-analyzed on 10/29/02.

**1. Method Blank:**

Acetone was detected in the blank at (4.34 ug/l) and 2-butanone (5.16 ug/l). However, the presence of these compounds had no affect on the samples (10822. 01, 02, 05 thru 11). Therefore, no qualification was applied.

The method blank was associated with re-analyzed samples contained acetone (6.46 ug/l) and 2-butanone (5.66 ug/l). However, the presence of these compounds had no affect on the reanalyzed samples. Therefore, no qualification was applied.

**2. Surrogate Recovery**

All the samples and the reanalyzed (10822.03, and 10822.04) had surrogate recoveries within required quality control limits.

**3. Matrix Spike/Matrix Spike Duplicate**

The matrix spike performed on sample 10822.01. The MS recoveries were within required quality control limits.

**4. Duplicate Sample**

The RPD% values between the sample 10822.01 and the sample duplicate 10822.01d were within the required control limit (20%).

**5. Laboratory Control Sample (LCS):**

The associated laboratory control sample recoveries were within required quality control limits.

**GM Linden Rd. Site**  
**Report ID: S10822.01 (01)**  
**Cont.**

**6. Instrument Performance Check**

All instrument performance check results are acceptable.

**7. Internal Standards**

All internal standard recoveries were within the control limits (50 to 200).

**8. Initial Calibration**

The initial calibration results were within (RSD 30%, RRF > or equal 0.05) for all the compounds, except in acetone (RSD 36.22%). Therefore, qualify all the positive results for acetone in all the samples as estimated (J). However, no qualification was applied because all the results were non-detected.

**9. Calibration Check Compounds**

The calibration check compounds indicated acceptable results.

**Semi-Volatiles:**

Samples were extracted on 10/25/02, and analyzed on 10/28/02 within the required holding time.

**1. Method Blank**

The method blank compound was free of contamination.

**2. Surrogate Recovery**

Samples 10822-05 had two or more surrogates low outside control limits. Therefore, qualify the results in 10822-05 as estimated (J) for positive results and (UJ) for non-detects. All other surrogate recoveries were within required control limits.

**3. Laboratory Control Sample**

The laboratory control sample recoveries were within required control limits.

**4. Blank Spikes and Blank Spike Duplicate**

The blank spike/blank spike duplicate recoveries were within required control limits. Also, the RPD% values were acceptable within (20%).

**5. Instrument Performance Check**

All performance check results are acceptable. The performance compound check was acceptable.

**GM Linden Rd. Site**  
**Report ID: S10822.01 (01)**  
**Cont.**

**6. Internal Standards**

All internal standard recoveries were within the control limits (50 to 200).

**7. Calibration Check Compounds**

The calibration check compounds indicated acceptable results.

**8. Initial Calibration**

The initial calibration results were within (RSD 30%, RRF > or equal 0.05) for all the compounds.

**PCBs**

Samples were extracted on 10/24/02, and analyzed on 10/25/02 within the required holding time. Samples 10822-07, and 10 were not analyzed for PCB.

**1. Method Blank**

The associated method blank results were free of contamination.

**2. Surrogate Recovery**

All surrogate recoveries were acceptable.

**3. Laboratory Control Sample (LCS):**

The two associated laboratories control samples average recoveries were within required quality control limits.

**4. Initial Calibration**

Calibration and verification data were acceptable.

**Metals**

Samples were digested on 10/25/02, and analyzed on 10/25/02 within the required holding time.

**1. Matrix Spike/Matrix Spike Duplicate**

The matrix spike was performed on 10822.06. The MS/MSD recoveries were within the required control limits. Also, the %RPD values were acceptable.

**2. Laboratory Control Sample (LCS):**

The two associated laboratories control samples recoveries were within required quality control limits.

**3. Calibration**

All the initial and continuing calibration verification recoveries were within the required quality control limit (90-110%).

All the initial blank and continuing calibration blanks indicates acceptable results.

**GM Linden Rd. Site  
Report ID: S10822.01 (01)  
Cont.**

**4. Laboratory Control Sample**

All laboratory control sample results were within required ranges.

**5. Performance Sample Evaluation:**

The samples performance results were within required ranges.

**Mercury**

Samples were digested on 10/25/02, and analyzed on 10/26/02 within the required holding time.

**1. Matrix Spike/Matrix Spike Duplicate**

The matrix spike was performed on 10822.11. The MS recovery was within the control limit.

**2. Laboratory Control Sample**

All laboratories control sample results were within control limits.

**3. Calibration**

All the initial and continuing calibration verification recoveries were within the required quality control limit (75-125%).

All the initial blank and continuing calibration blanks indicates acceptable results and no contamination.

**4. Laboratory Regent Blank Verification**

All laboratories regent blank results indicate acceptable results and no contamination.

**5. Performance Evaluation:**

The performance recovery was within the control limit.

Data Reviewed by: Tania Balikji-Shammo

Date: 11/26/02

# Analytical Laboratory Report

Merit  
Laboratories, Inc.

Report ID: S10822.01(01)

Generated on 11/04/2002

Report to

Attention: Mr. Babusukumar  
Roy F. Weston, Inc.  
3 Hawthorn Parkway, Suite 400  
Vernon Hills, IL 60061

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Report produced by

Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

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Report Summary

Lab Sample ID(s): S10822.01-S10822.11

Project: GM Linden Rd. Site

Submitted Date/Time: 10/23/2002 10:35

Sampled by: CK/KL

P.O. #:

Report Notes

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

Results relate only to items tested.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

*Violetta F. Murshak*

Violetta F. Murshak  
Laboratory Director

Report to Roy F. Weston, Inc.  
Subject: GM Linden Rd. Site

Lab Sample ID: S10822.01  
 Sample Tag: MW-03S  
 Collected Date/Time: 10/22/2002 11:50  
 Matrix: Groundwater  
 COC Reference: 013149

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

3NA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	0.009	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.16	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	0.005	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	0.006	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

### Organics

PCB	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

### Volatile Organics

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	

# Analytical Laboratory Report

IVICOR  
Laboratories, Inc.

Lab Sample ID: S10822.01 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	12	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	21	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	1	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
1,1-Dichloroethane	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
Vinyl chloride	19	ug/L	1	8260B	10/28/02	JGH	108-67-8	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	106-42-3	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
<b>MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
4-Terphenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	

Lab Sample ID: S10822.01 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
1-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
1-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
p-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
1-Benz(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
Di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
1,3'-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
1,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
1,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
1,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
Di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
1-Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
1-Toluenobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Styrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.01 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	



# Analytical Laboratory Report

Lab Sample ID: S10822.02

Sample Tag: MW-11S

Collected Date/Time: 10/22/2002 13:20

Matrix: Groundwater

COC Reference: 013149

**Sample Containers**

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2 40 ml Glass	HCL	Yes	4	4025
2 1 L Amber	None	Yes	4	4025
1 125ml Plastic	HNO3	Yes	4	4025

**Analysis**

Extraction / Prep.	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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INA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metals Digestion	Completed			3015A	10/25/02	PER		

**Metals**

Arsenic	0.027	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.41	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	0.005	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	0.012	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

**Organics**

**PCB**

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

**Volatile Organics**

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	

Lab Sample ID: S10822.02 (continued)

Sample Tag: MW-11S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
1,1,1-Trichloroethane	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
1,2,3-Trichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
m-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
1,1,2-Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>C/MS Semi-Volatile Organics</b>								
Benaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	

Lab Sample ID: S10822.02 (continued)

Sample Tag: MW-11S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
o,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
p-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
Di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
2,3-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
1,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
2,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
Di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Leophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
1-Trobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.02 (continued)

Sample Tag: MW-11S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	

Lab Sample ID: S10822.03  
 Sample Tag: MW-10S  
 Collected Date/Time: 10/22/2002 13:50  
 Matrix: Groundwater  
 COC Reference: 013149

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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**Extraction / Prep.**

NA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

**Metals**

Arsenic	0.020	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.06	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	0.007	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

**Organics**

<b>PCB</b>								
PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
CB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
CB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
CB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
CB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

**Volatile Organics**

Benzene	Not detected	ug/L	1	8260B	10/29/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/29/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/29/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/29/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/29/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	74-87-3	
1,1-dibromochloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	124-48-1	

Lab Sample ID: S10822.03 (continued)

Sample Tag: MW-10S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	106-46-7	
1,1-Dichloroethane	3	ug/L	1	8260B	10/29/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/29/02	JGH	75-35-4	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	10/29/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/29/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/29/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/29/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/29/02	JGH	10061-02-6	
1-Ethylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/29/02	JGH	99-87-6	
1,1-Dichloroethylene chloride	Not detected	ug/L	5	8260B	10/29/02	JGH	75-09-2	
1,2,3-Trichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/29/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	79-34-5	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/29/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	79-00-5	
1,1,2-Trichloroethene	1	ug/L	1	8260B	10/29/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	108-67-8	
Vinyl chloride	1	ug/L	1	8260B	10/29/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-47-6	
m-Xylene	Not detected	ug/L	1	8260B	10/29/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/29/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/29/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/29/02	JGH	75-15-0	
Hexanone	Not detected	ug/L	50	8260B	10/29/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/29/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
Bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
Bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
Bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
Bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	

Lab Sample ID: S10822.03 (continued)

Sample Tag: MW-10S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
1-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
o,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
p-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
Di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
Di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isothorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
2-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
Nitrobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
1-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
1-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
1-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.03 (continued)

Sample Tag: MW-10S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	

Lab Sample ID: S10822.04  
 Sample Tag: MW-01S  
 Collected Date/Time: 10/22/2002 14:30  
 Matrix: Groundwater  
 COC Reference: 013149

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Extraction / Prep.</b>								
3NA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		
<b>Metals</b>								
Arsenic	0.002	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.10	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

<b>Organics</b>								
<b>CB</b>								
PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
CB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
CB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
CB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
CB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

<b>Volatile Organics</b>								
Benzene	1	ug/L	1	8260B	10/29/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	75-27-4	
Chloroform	Not detected	ug/L	1	8260B	10/29/02	JGH	75-25-2	
Dichloromethane	Not detected	ug/L	5	8260B	10/29/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	135-98-8	
t-Butylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/29/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	108-90-7	
Dibromoethane	Not detected	ug/L	1	8260B	10/29/02	JGH	75-00-3	
Dibromoform	Not detected	ug/L	1	8260B	10/29/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	74-87-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/29/02	JGH	124-48-1	

Lab Sample ID: S10822.04 (continued)

Sample Tag: MW-01S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/29/02	JGH	75-35-4	
cis-1,2-Dichloroethene	127	ug/L	1	8260B	10/29/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/29/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/29/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/29/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/29/02	JGH	10061-02-6	
1-Tolylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/29/02	JGH	99-87-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	8260B	10/29/02	JGH	75-09-2	
1,2,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	91-20-3	
1,2,3,4-Tetrachlorobenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	103-65-1	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	79-34-5	
Toluene	Not detected	ug/L	1	8260B	10/29/02	JGH	127-18-4	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/29/02	JGH	79-00-5	
Trichloroethene	66	ug/L	1	8260B	10/29/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/29/02	JGH	108-67-8	
Vinyl chloride	116	ug/L	1	8260B	10/29/02	JGH	75-01-4	
Xylene	Not detected	ug/L	1	8260B	10/29/02	JGH	95-47-6	
m-Xylene	Not detected	ug/L	1	8260B	10/29/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/29/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/29/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/29/02	JGH	75-15-0	
Hexanone	Not detected	ug/L	50	8260B	10/29/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/29/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
Bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
Bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
Bis(2-Chloroisopropyl)ether	20	ug/L	10	8270C	10/28/02	SMP	108-60-1	
Bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	

Lab Sample ID: S10822.04 (continued)

Sample Tag: MW-01S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>C/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
1-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
1-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
2-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
o,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
1,2,3,4-tetrahydrobenzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
3,4-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
1,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
o-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
N,N-Dinitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
N,N-Dinitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Phenylene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	

Lab Sample ID: S10822.04 (continued)  
 Sample Tag: MW-01S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	

Lab Sample ID: S10822.05  
 Sample Tag: MW-05S  
 Collected Date/Time: 10/22/2002 14:45  
 Matrix: Groundwater  
 DOC Reference: 013149

### Sample Containers

Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
40 ml Glass	HCL	Yes	4	4025
2 1 L Amber	None	Yes	4	4025
125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

NA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metals Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	Not detected	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.16	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

### Organics

#### PCB

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

#### Volatile Organics

Benzene	Not detected	ug/L	10	8260B	10/28/02	JGH	71-43-2	C
Bromodichloromethane	Not detected	ug/L	10	8260B	10/28/02	JGH	75-27-4	C
Bromoform	Not detected	ug/L	10	8260B	10/28/02	JGH	75-25-2	C
Bromomethane	Not detected	ug/L	50	8260B	10/28/02	JGH	74-83-9	C
n-Butylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	104-51-8	C
sec-Butylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	135-98-8	C
tert-Butylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	98-06-6	C
Carbon tetrachloride	Not detected	ug/L	10	8260B	10/28/02	JGH	56-23-5	C
Chlorobenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	108-90-7	C
Chloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	75-00-3	C
Chloroform	Not detected	ug/L	10	8260B	10/28/02	JGH	67-66-3	C
Dichloromethane	Not detected	ug/L	10	8260B	10/28/02	JGH	74-87-3	C

Higher detection limit due to high target concentration.

Lab Sample ID: S10822.05 (continued)

Sample Tag: MW-05S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
Dibromochloromethane	Not detected	ug/L	10	8260B	10/28/02	JGH	124-48-1	C
1,2-Dichlorobenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	95-50-1	C
1,3-Dichlorobenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	541-73-1	C
1,4-Dichlorobenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	106-46-7	C
1,1-Dichloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	75-34-3	C
1,2-Dichloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	107-06-2	C
1,1-Dichloroethene	Not detected	ug/L	10	8260B	10/28/02	JGH	75-35-4	C
trans-1,2-Dichloroethene	60	ug/L	10	8260B	10/28/02	JGH	156-59-2	C
cis-1,2-Dichloroethene	Not detected	ug/L	10	8260B	10/28/02	JGH	156-60-5	C
1,2-Dichloropropane	Not detected	ug/L	10	8260B	10/28/02	JGH	78-87-5	C
cis-1,3-Dichloropropene	Not detected	ug/L	10	8260B	10/28/02	JGH	10061-01-5	C
trans-1,3-Dichloropropene	Not detected	ug/L	10	8260B	10/28/02	JGH	10061-02-6	C
Ethylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	100-41-4	C
Isopropylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	98-82-8	C
Isopropyltoluene	Not detected	ug/L	10	8260B	10/28/02	JGH	99-87-6	C
Dichloroethylene chloride	Not detected	ug/L	50	8260B	10/28/02	JGH	75-09-2	C
Naphthalene	Not detected	ug/L	10	8260B	10/28/02	JGH	91-20-3	C
Propylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	103-65-1	C
Styrene	Not detected	ug/L	10	8260B	10/28/02	JGH	100-42-5	C
1,1,2,2-Tetrachloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	79-34-5	C
Tetrachloroethene	Not detected	ug/L	10	8260B	10/28/02	JGH	127-18-4	C
Toluene	Not detected	ug/L	10	8260B	10/28/02	JGH	108-88-3	C
1,1,1-Trichloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	71-55-6	C
1,1,2-Trichloroethane	Not detected	ug/L	10	8260B	10/28/02	JGH	79-00-5	C
Trichloroethene	280	ug/L	10	8260B	10/28/02	JGH	79-01-6	C
1,2,4-Trimethylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	95-63-6	C
1,3,5-Trimethylbenzene	Not detected	ug/L	10	8260B	10/28/02	JGH	108-67-8	C
Vinyl chloride	60	ug/L	10	8260B	10/28/02	JGH	75-01-4	C
Xylene	Not detected	ug/L	10	8260B	10/28/02	JGH	95-47-6	C
p,m-Xylene	Not detected	ug/L	10	8260B	10/28/02	JGH	106-42-3	C
Acetone	Not detected	ug/L	500	8260B	10/28/02	JGH	67-64-1	C
Butanone (MEK)	Not detected	ug/L	500	8260B	10/28/02	JGH	78-93-3	C
Carbon disulfide	Not detected	ug/L	500	8260B	10/28/02	JGH	75-15-0	C
2-Hexanone	Not detected	ug/L	500	8260B	10/28/02	JGH	591-78-6	C
Methyl-2-pentanone (MIBK)	Not detected	ug/L	500	8260B	10/28/02	JGH	108-10-1	C
<b>GC/MS Semi-Volatile Organics</b>								
Benzenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	S
Benzenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	S
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	S
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	S
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	S
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	S
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	S
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	S
(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	S
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	S

Higher detection limit due to high target concentration.

Estimated result due to low surrogate recovery.

TBS 11/25/02

Lab Sample ID: S10822.05 (continued)  
Sample Tag: MW-05S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>C/MS Semi-Volatile Organics (continued)</b>								
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	S
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	S
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	S
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	S
1-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	S
1-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	S
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	S
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	S
1-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	S
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	S
p,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	S
o-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	S
1-benzo(h)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	S
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	S
n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	S
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	S
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	S
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	S
2,3-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	S
4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	S
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	S
4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	S
1-methyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	S
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	S
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	S
1-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	S
2-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	S
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	S
10-antanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	S
10-borene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	S
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	S
1,2-dichlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	S
1,2-dichlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	S
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	S
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	S
1-phorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	S
1-methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	S
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	S
1-nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	S
2-nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	S
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	S
1-trobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	S
1-trophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	S
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	S
N-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	S
1-nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	S
1-tachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	S
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	S

Estimated result due to low surrogate recovery.

TBS  
11-25-02

Lab Sample ID: S10822.05 (continued)  
Sample Tag: MW-05S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	S
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	S
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	S
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	S
1,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	S

S-Estimated result due to low surrogate recovery.

TBS  
11-25-02

Lab Sample ID: S10822.06  
 Sample Tag: MW-06S  
 Collected Date/Time: 10/22/2002 15:45  
 Matrix: Groundwater  
 DOC Reference: 013149

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

ONA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	0.003	mg/L	0.002	200.8	10/25/02	PER	7440-38-2
Barium	0.04	mg/L	0.01	200.8	10/25/02	PER	7440-39-3
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4
Zinc	0.029	mg/L	0.005	200.8	10/25/02	PER	7440-66-6

### Organics

#### PCB

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9

#### Volatile Organics

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2
1,1-Dichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4
1,1-Difluoroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8
o-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8
t-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3
Dibromomethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1

Lab Sample ID: S10822.06 (continued)

Sample Tag: MW-06S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
1-Tolylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
o-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
1,1-Dichloroethylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
1-Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
1,1,2,2-Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
1,1,2-Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
p-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
Diis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
Diis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	



# Analytical Laboratory Report

Lab Sample ID: S10822.06 (continued)

Sample Tag: MWV-06S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
1-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
Di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
1,3-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
1,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
1,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
1,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
Di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
1-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
1,2-Dinitrobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
1-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
1-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.06 (continued)

Sample Tag: MW-06S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS#	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	

# Analytical Laboratory Report

**VIICLL**  
Laboratories, Inc.

Lab Sample ID: S10822.07  
 Sample Tag: MW-07S  
 Collected Date/Time: 10/22/2002 16:30  
 Matrix: Groundwater  
 COC Reference: 013149

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
1	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

## Analysis

	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

BNA Extraction	Completed			3510C	10/25/02	KMM		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	0.010	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.02	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

### Organics

#### Volatile Organics

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	

Lab Sample ID: S10822.07 (continued)  
Sample Tag: MW-07S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
n-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>C/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	20	8270C	10/31/02	SMP	83-32-9	L
Acenaphthylene	Not detected	ug/L	20	8270C	10/31/02	SMP	208-96-8	L
Anthracene	Not detected	ug/L	20	8270C	10/31/02	SMP	120-12-7	L
Benzo(a)anthracene	Not detected	ug/L	20	8270C	10/31/02	SMP	56-55-3	L
Benzo(b)fluoranthene	Not detected	ug/L	20	8270C	10/31/02	SMP	205-99-2	L
Benzo(k)fluoranthene	Not detected	ug/L	20	8270C	10/31/02	SMP	207-08-9	L
Benzo(ghi)perylene	Not detected	ug/L	20	8270C	10/31/02	SMP	191-24-2	L
Benzo(a)pyrene	Not detected	ug/L	20	8270C	10/31/02	SMP	50-32-8	L
bis(2-Chloroethoxy)methane	Not detected	ug/L	20	8270C	10/31/02	SMP	111-91-1	L
bis(2-Chloroethyl)ether	Not detected	ug/L	20	8270C	10/31/02	SMP	111-44-4	L
bis(2-Chloroisopropyl)ether	Not detected	ug/L	20	8270C	10/31/02	SMP	108-60-1	L
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	117-81-7	L
Bromophenyl phenyl ether	Not detected	ug/L	20	8270C	10/31/02	SMP	101-55-3	L
Butyl benzyl phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	85-68-7	L
4-Chloroaniline	Not detected	ug/L	20	8270C	10/31/02	SMP	106-47-8	L
Chloronaphthalene	Not detected	ug/L	20	8270C	10/31/02	SMP	91-58-7	L
Chloro-3-methylphenol	Not detected	ug/L	20	8270C	10/31/02	SMP	59-50-7	L
2-Chlorophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	95-57-8	L
4-Chlorophenyl phenyl ether	Not detected	ug/L	20	8270C	10/31/02	SMP	7005-72-3	L
Crysene	Not detected	ug/L	20	8270C	10/31/02	SMP	218-01-9	L
m-Cresol	Not detected	ug/L	20	8270C	10/31/02	SMP	106-44-5	L
o-Cresol	Not detected	ug/L	20	8270C	10/31/02	SMP	95-48-7	L

Higher detection limit due to low sample volume.



# Analytical Laboratory Report

Lab Sample ID: S10822.07 (continued)

Sample Tag: MW-07S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Dibenzo(ah)anthracene	Not detected	ug/L	20	8270C	10/31/02	SMP	53-70-3	L
Dibenzofuran	Not detected	ug/L	20	8270C	10/31/02	SMP	132-64-9	L
di-n-Butyl phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	84-74-2	L
1,2-Dichlorobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	95-50-1	L
1,3-Dichlorobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	541-73-1	L
1,4-Dichlorobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	106-46-7	L
3,3'-Dichlorobenzidine	Not detected	ug/L	20	8270C	10/31/02	SMP	91-94-1	L
2,4-Dichlorophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	120-83-2	L
Diethyl phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	84-66-2	L
2,4-Dimethylphenol	Not detected	ug/L	20	8270C	10/31/02	SMP	105-67-9	L
Dimethyl phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	131-11-3	L
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/31/02	SMP	534-52-1	L
2,4-Dinitrophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	51-28-5	L
2,4-Dinitrotoluene	Not detected	ug/L	20	8270C	10/31/02	SMP	121-14-2	L
2,6-Dinitrotoluene	Not detected	ug/L	20	8270C	10/31/02	SMP	606-20-2	L
di-n-Octyl phthalate	Not detected	ug/L	20	8270C	10/31/02	SMP	117-84-0	L
Fluoranthene	Not detected	ug/L	20	8270C	10/31/02	SMP	206-44-0	L
Fluorene	Not detected	ug/L	20	8270C	10/31/02	SMP	86-73-7	L
Hexachlorobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	118-74-1	L
Hexachlorobutadiene	Not detected	ug/L	20	8270C	10/31/02	SMP	87-68-3	L
Hexachlorocyclopentadiene	Not detected	ug/L	20	8270C	10/31/02	SMP	77-47-4	L
Hexachloroethane	Not detected	ug/L	20	8270C	10/31/02	SMP	67-72-1	L
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	20	8270C	10/31/02	SMP	193-39-5	L
Isophorone	Not detected	ug/L	20	8270C	10/31/02	SMP	78-59-1	L
2-Methylnaphthalene	Not detected	ug/L	20	8270C	10/31/02	SMP	91-57-6	L
Naphthalene	Not detected	ug/L	20	8270C	10/31/02	SMP	91-20-3	L
2-Nitroaniline	Not detected	ug/L	20	8270C	10/31/02	SMP	88-74-4	L
3-Nitroaniline	Not detected	ug/L	20	8270C	10/31/02	SMP	99-09-2	L
4-Nitroaniline	Not detected	ug/L	20	8270C	10/31/02	SMP	100-01-6	L
Nitrobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	98-95-3	L
2-Nitrophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	88-75-5	L
4-Nitrophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	100-02-7	L
N-Nitrosodiphenylamine	Not detected	ug/L	20	8270C	10/31/02	SMP	156-10-5	L
N-Nitrosodi-n-propylamine	Not detected	ug/L	20	8270C	10/31/02	SMP	621-64-7	L
Pentachlorophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	87-86-5	L
Phenanthrene	Not detected	ug/L	20	8270C	10/31/02	SMP	85-01-8	L
Phenol	Not detected	ug/L	20	8270C	10/31/02	SMP	108-95-2	L
Pyrene	Not detected	ug/L	20	8270C	10/31/02	SMP	129-00-0	L
1,2,4-Trichlorobenzene	Not detected	ug/L	20	8270C	10/31/02	SMP	120-82-1	L
2,4,5-Trichlorophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	95-95-4	L
2,4,6-Trichlorophenol	Not detected	ug/L	20	8270C	10/31/02	SMP	88-06-2	L

-Higher detection limit due to low sample volume.



# Analytical Laboratory Report

Lab Sample ID: S10822.08  
 Sample Tag: MW-13S  
 Collected Date/Time: 10/22/2002 17:10  
 Matrix: Groundwater  
 COC Reference: 013149

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

BNA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	Not detected	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.14	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	0.010	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

### Organics

#### PCB

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

### Volatile Organics

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	



# Analytical Laboratory Report

Lab Sample ID: S10822.08 (continued)

Sample Tag: MW-13S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	



# Analytical Laboratory Report

Lab Sample ID: S10822.08 (continued)

Sample Tag: MW-13S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
p,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
o-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
2-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
Nitrobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.08 (continued)

Sample Tag: MW-13S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	

Lab Sample ID: S10822.09  
 Sample Tag: MW-12S  
 Collected Date/Time: 10/22/2002 17:30  
 Matrix: Groundwater  
 COC Reference: 013149

**Sample Containers**

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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**Extraction / Prep.**

BNA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

**Metals**

Arsenic	0.010	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.16	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

**Organics**

**PCB**

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

**Volatile Organics**

Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	



# Analytical Laboratory Report

Lab Sample ID: S10822.09 (continued)

Sample Tag: MW-12S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/28/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/28/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/28/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/28/02	SMP	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	8270C	10/28/02	SMP	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	101-55-3	



# Analytical Laboratory Report

Lab Sample ID: S10822.09 (continued)

Sample Tag: MW-12S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/28/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/28/02	SMP	218-01-9	
p,m-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	106-44-5	
o-Cresol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/28/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/28/02	SMP	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/28/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/28/02	SMP	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/28/02	SMP	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/28/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/28/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/28/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/28/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/28/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/28/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/28/02	SMP	91-20-3	
2-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/28/02	SMP	100-01-6	
Nitrobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	156-10-5	
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/28/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/28/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/28/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/28/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/28/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.09 (continued)

Sample Tag: MW-12S

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/28/02	SMP	88-06-2	



# Analytical Laboratory Report

Lab Sample ID: S10822.10  
 Sample Tag: Trip Blank  
 Collected Date/Time: 10/22/2002 17:30  
 Matrix: Groundwater  
 COC Reference: 013149

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40 ml Glass	HCL	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics</b>								
<b>Volatile Organics</b>								
Benzene	Not detected	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	Not detected	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	



# Analytical Laboratory Report

Lab Sample ID: S10822.10 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	



# Analytical Laboratory Report

Lab Sample ID: S10822.11  
 Sample Tag: MW-01S Dup  
 Collected Date/Time: 10/22/2002 14:35  
 Matrix: Groundwater  
 COC Reference: 013149

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4025
2	1 L Amber	None	Yes	4	4025
1	125ml Plastic	HNO3	Yes	4	4025

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
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### Extraction / Prep.

BNA Extraction	Completed			3510C	10/25/02	KMM		
Extraction, PCB	Completed			3510C	10/24/02	JKB		
Mercury Digestion	Completed			7470A	10/25/02	BRP		
Metal Digestion	Completed			3015A	10/25/02	PER		

### Metals

Arsenic	0.002	mg/L	0.002	200.8	10/25/02	PER	7440-38-2	
Barium	0.10	mg/L	0.01	200.8	10/25/02	PER	7440-39-3	
Cadmium	Not detected	mg/L	0.0002	200.8	10/25/02	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-47-3	
Copper	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/25/02	PER	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1M	10/26/02	BRP	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	10/25/02	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/25/02	PER	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	10/25/02	PER	7440-66-6	

### Organics

#### PCB

PCB-1016	Not detected	ug/L	0.1	608	10/25/02	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/25/02	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/25/02	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	10/25/02	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/25/02	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/25/02	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	10/25/02	JANB	53469-21-9	

#### Volatile Organics

Benzene	1	ug/L	1	8260B	10/28/02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	10/28/02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	5	8260B	10/28/02	JGH	74-83-9	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	104-51-8	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	135-98-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-06-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/28/02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	10/28/02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	8260B	10/28/02	JGH	124-48-1	



# Analytical Laboratory Report

Lab Sample ID: S10822.11 (continued)

Sample Tag: MW-01S Dup

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>Volatile Organics (continued)</b>								
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-46-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	75-35-4	
cis-1,2-Dichloroethene	121	ug/L	1	8260B	10/28/02	JGH	156-59-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/28/02	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/28/02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-41-4	
Isopropylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	98-82-8	
p-Isopropyltoluene	Not detected	ug/L	1	8260B	10/28/02	JGH	99-87-6	
Methylene chloride	Not detected	ug/L	5	8260B	10/28/02	JGH	75-09-2	
Naphthalene	Not detected	ug/L	1	8260B	10/28/02	JGH	91-20-3	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	103-65-1	
Styrene	Not detected	ug/L	1	8260B	10/28/02	JGH	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/28/02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/28/02	JGH	79-00-5	
Trichloroethene	71	ug/L	1	8260B	10/28/02	JGH	79-01-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/28/02	JGH	108-67-8	
Vinyl chloride	107	ug/L	1	8260B	10/28/02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	10/28/02	JGH	106-42-3	
Acetone	Not detected	ug/L	50	8260B	10/28/02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	50	8260B	10/28/02	JGH	78-93-3	
Carbon disulfide	Not detected	ug/L	50	8260B	10/28/02	JGH	75-15-0	
2-Hexanone	Not detected	ug/L	50	8260B	10/28/02	JGH	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/28/02	JGH	108-10-1	
<b>GC/MS Semi-Volatile Organics</b>								
Acenaphthene	Not detected	ug/L	10	8270C	10/31/02	SMP	83-32-9	
Acenaphthylene	Not detected	ug/L	10	8270C	10/31/02	SMP	208-96-8	
Anthracene	Not detected	ug/L	10	8270C	10/31/02	SMP	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	10	8270C	10/31/02	SMP	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	8270C	10/31/02	SMP	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	8270C	10/31/02	SMP	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	8270C	10/31/02	SMP	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	8270C	10/31/02	SMP	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	8270C	10/31/02	SMP	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	8270C	10/31/02	SMP	111-44-4	
bis(2-Chloroisopropyl)ether	20	ug/L	10	8270C	10/31/02	SMP	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	8270C	10/31/02	SMP	101-55-3	



# Analytical Laboratory Report

Lab Sample ID: S10822.11 (continued)

Sample Tag: MW-01S Dup

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
Butyl benzyl phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/31/02	SMP	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	10	8270C	10/31/02	SMP	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	8270C	10/31/02	SMP	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	8270C	10/31/02	SMP	7005-72-3	
Chrysene	Not detected	ug/L	10	8270C	10/31/02	SMP	218-01-9	
p,m-Cresol	Not detected	ug/L	10	8270C	10/31/02	SMP	106-44-5	
o-Cresol	Not detected	ug/L	10	8270C	10/31/02	SMP	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	10	8270C	10/31/02	SMP	53-70-3	
Dibenzofuran	Not detected	ug/L	10	8270C	10/31/02	SMP	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	8270C	10/31/02	SMP	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	10	8270C	10/31/02	SMP	105-67-9	
Dimethyl phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	10	8270C	10/31/02	SMP	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	8270C	10/31/02	SMP	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	8270C	10/31/02	SMP	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	8270C	10/31/02	SMP	117-84-0	
Fluoranthene	Not detected	ug/L	10	8270C	10/31/02	SMP	206-44-0	
Fluorene	Not detected	ug/L	10	8270C	10/31/02	SMP	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/31/02	SMP	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	8270C	10/31/02	SMP	77-47-4	
Hexachloroethane	Not detected	ug/L	10	8270C	10/31/02	SMP	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	8270C	10/31/02	SMP	193-39-5	
Isophorone	Not detected	ug/L	10	8270C	10/31/02	SMP	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	10	8270C	10/31/02	SMP	91-57-6	
Naphthalene	Not detected	ug/L	10	8270C	10/31/02	SMP	91-20-3	
2-Nitroaniline	Not detected	ug/L	10	8270C	10/31/02	SMP	88-74-4	
3-Nitroaniline	Not detected	ug/L	10	8270C	10/31/02	SMP	99-09-2	
4-Nitroaniline	Not detected	ug/L	10	8270C	10/31/02	SMP	100-01-6	
Nitrobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	10	8270C	10/31/02	SMP	156-10-5	
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	8270C	10/31/02	SMP	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	87-86-5	
Phenanthrene	Not detected	ug/L	10	8270C	10/31/02	SMP	85-01-8	
Phenol	Not detected	ug/L	10	8270C	10/31/02	SMP	108-95-2	
Pyrene	Not detected	ug/L	10	8270C	10/31/02	SMP	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	8270C	10/31/02	SMP	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	95-95-4	



# Analytical Laboratory Report

Lab Sample ID: S10822.11 (continued)

Sample Tag: MW-01S Dup

Analysis	Results	Units	RDL	Method	Date Run	Analyst	CAS #	Flags
<b>Organics (continued)</b>								
<b>GC/MS Semi-Volatile Organics (continued)</b>								
2,4,6-Trichlorophenol	Not detected	ug/L	10	8270C	10/31/02	SMP	88-06-2	

