



Eveready Battery Company, Inc.

May 13, 1994

May 16 11 04 AM '94

Mr. Bruce Linton  
Hazardous Materials Management Division  
Department of Environmental Conservation  
Agency of Natural Resources  
103 South Main Street / West Office Building  
Waterbury, VT 05671-0404

HAZARDOUS MATERIALS  
MANAGEMENT DIVISION

#12

**Subject: Results of Geraghty & Miller's March 1994 Semi-Annual  
Ground-Water Sampling at Eveready Battery Company, Plant 2,  
Bennington, Vermont**

Dear Mr. Linton:

Enclosed is a copy of the *March 1994 Summary of Results of Ground-Water Sampling at Eveready Battery Company, Plant 2, Bennington, Vermont*, dated May 11, 1994, as prepared by Geraghty & Miller, Inc. The report summarizes the March 1994 ground water sampling results. Geraghty & Miller has previously prepared reports documenting background information for the sampling program, including facility operational and regulatory information, and data regarding regional hydrogeology.

Since there was no significant change in VOC's and total lead in the March 1994 sampling event, Eveready Battery Company requests approval from the Hazardous Materials Management Division to sample annually with the next sampling event occurring in March 1995. Geraghty & Miller will sample only for tetrachloroethane (PCE) in well MW-2. With your division's approval in writing, Eveready will schedule with Geraghty & Miller accordingly.

As always, if you have any questions, please call me at (802)-442-1380.

Sincerely,

Arthur L. Mullen  
Plant Environmental Coordinator

GERAGHT2.DOC

May 11, 1994

Mr. Arthur Mullen  
Eveready Battery Company  
401 Gage Street  
Bennington, Vermont 05201

Re: Results of the March 1994 Semi-Annual Groundwater Sampling at Eveready Battery Company, Plant 2, Bennington, Vermont (Project No. AY0168.001)

Dear Mr. Mullen:

Geraghty & Miller, Inc. personnel measured water levels and collected groundwater samples from monitoring wells on March 25, 1994 at the Eveready Battery Company, Plant 2 Facility in Bennington, Vermont. The March sampling represents the first 1994 sampling event in a semi-annual groundwater monitoring program which has been conducted at the facility since December 1986 in order to provide groundwater quality data in the vicinity of the former lead plater. Semi-annual groundwater sampling was previously conducted in October 1993.

This letter report discusses the March 1994 groundwater sampling results. Geraghty & Miller has previously prepared reports documenting background information for the sampling program, including facility operational and regulatory information, and data regarding regional hydrogeology. The most recent report presenting this information details the March 1992 sampling, "Results of the March 1992 Sampling Program at Eveready Battery Company, Plant 2, Bennington, Vermont", dated June 1992.

#### METHODOLOGY

On March 25, 1994 five groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) were sampled for volatile organic compounds (VOCs). Four of these wells (MW-1, MW-2, MW-3 and MW-4) were also sampled for total lead. Prior to sampling, a water-level measurement was collected, and each well was purged of a minimum of three well volumes using a teflon bailer and 3/8-inch polypropylene rope. Each well was then sampled with a clean teflon bailer and new polypropylene rope. A field blank sample (FB-1) was collected after sampling Well MW-1, and a replicate sample (REP-1) was collected from Well MW-4. Field measurements of pH, specific conductance and temperature were taken as each well was sampled. A summary of the field parameters collected during sampling is presented in Table 1, and copies of the field water sampling logs are presented in Appendix A. Additional details regarding sampling methodology are available in Geraghty & Miller's March 1992 sampling report. The samples were shipped to Aquatec, Inc. of Colchester, Vermont, for VOC and total lead analysis by USEPA Methods 8010 and 7241, respectively.



## RESULTS

### **HYDROGEOLOGY**

The water table at the plant is approximately 7 to 8 feet below grade, and groundwater flow direction continues to be predominantly toward the west, parallel to flow in the Walloomsac River (Figure 1). Table 2 presents a summary of the water-level measurements collected in March 1994.

### **WATER QUALITY**

A summary of the VOC sampling results from March, October and November 1992, February and October 1993, and March 1994 is presented in Table 3. The concentration of tetrachloroethene in Well MW-2 has continued to decrease from a high of 240 ug/L reported in October 1992, to a low of 2.3 ug/L currently reported for March 1994, which remains above the Vermont Standard of 0.70 ug/L. A decrease in trichloroethene was reported for Well MW-5, down from 4.6 ug/L in October 1993 to 4.3 ug/L in March 1994, which continues to be below the Vermont Standard of 5 ug/L for trichloroethene. A low concentration of chloroform (0.8 ug/L) reported for Well MW-2 is slightly above the method detection limit of 0.5 ug/L, and is most likely related to laboratory practices.

The VOCs detected in groundwater at the facility are at low concentrations, and with the exception of the consistently decreasing concentration of tetrachloroethene in Well MW-2, are all below the assigned Vermont Enforcement Standards.

Table 4 summarizes total lead concentrations reported for groundwater samples collected in March and October 1992, October 1993 and March 1994. Lead was not analyzed in the February 1993 groundwater sampling program. Lead was previously detected in MW-2, MW-3, MW-4 and REP-1 (MW-4 replicate sample) in October 1993. These lead results were most likely caused by metals adhering to soil particles in the turbid groundwater samples. Lead samples in March 1994 were field filtered with a 0.45 micron filter to remove soil particles in the groundwater. Lead was not detected in any sample. Copies of the laboratory analytical reports are provided in Appendix B.

### **CONCLUSIONS AND RECOMMENDATIONS**

Groundwater sampling results indicate that lead is no longer a parameter of concern in groundwater at the facility. The low level of trichloroethene detected in well MW-5 is currently and historically below the Vermont Enforcement Standard of 5 ug/L. The concentration of tetrachloroethene (PCE) in Well MW-2 has shown a dramatic and consistent decrease since October 1992. As discussed in previous reports, the high concentration in 1992 was most likely related to construction activities near the former lead plater, which may have dewatered the area and caused residual VOCs previously adsorbed to the soil matter to be released into groundwater.



Favorable groundwater sampling results have prompted a request for annual sampling to be conducted at the Eveready Facility as outlined in a letter to the Department of Environmental Conservation (DEC) from Eveready Battery Company dated March 8, 1994 (Appendix C). Well MW-2 will be sampled for tetrachloroethene commencing in March 1995, pending DEC approval of this request.

Please call if you have any questions or require further clarification.

Respectfully submitted,

**GERAGHTY & MILLER, INC.**

*Amy T. LaBarge*

Amy T. LaBarge  
Scientist/Hydrogeologist

*Gisella M. Spreizer* (AR)

Gisella M. Spreizer  
Associate/Principal Scientist



Table 1. Water-Level Elevation Data, March 1994, Eveready Battery Plant 2,  
Bennington, Vermont.

Well Designation	Measuring Point Elevation (feet above msl)	Depth to Water (feet below mp) March 1994	Water-Level Elevation (feet above msl) March 1994
MW-1	715.81	7.76	708.05
MW-2	702.57	8.51	694.06
MW-3	701.11	7.70	693.41
MW-4	704.46	7.91	696.55
MW-5	707.53*	7.56	699.97

msl Mean sea level.

mp Measuring point.

\* Well head was altered during site construction activities conducted in 1991.  
All elevation data for Well MW-5 are estimated.



Table 2. Ground-Water Sampling Field Parameters, March 1994, Eveready Battery Plant 2, Bennington, Vermont.

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Well Designation	pH (standard units)	Specific Conductance (umhos/cm)	Temperature (degrees C)
MW-1	7.74	150	10
MW-2	7.37	330	8
MW-3	6.28	180	10
MW-4	6.75	170	10
MW-5	7.55	190	9

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umhos/cm Micromhos per centimeter.



Table 3. Analytical Results for Volatile Organic Compounds Detected During March, October and November 1992, February and October 1993, and March 1994, Eveready Battery Company, Plant 2, Bennington, Vermont.

Date:	March 1992	October 1992	November 1992	November 1992	February 1993	October 1993	March 1994
Lab:	Aquatec	Aquatec	Aquatec	AMRO	Aquatec	Aquatec	Aquatec
Parameter							
<b>Well MW-1</b>							
Difluorodichloromethane	ND	ND	NS	NS	NS	ND	ND
Chloroform	ND	ND	NS	NS	NS	ND	ND
Tetrachloroethene	ND	ND	NS	NS	NS	ND	ND
Trichloroethene	ND	ND	NS	NS	NS	ND	ND
cis-1,2-dichloroethene	ND	ND	NS	NS	NS	ND	ND
<b>Well MW-2</b>							
Difluorodichloromethane	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	0.6	ND	0.8
Tetrachloroethene	1.4	240	120	150	34	7.8	2.3
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND
<b>Well MW-3</b>							
Difluorodichloromethane	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND

All results reported in micrograms per liter (ug/L)

ND Not detected.

NS Not sampled.

Analyses performed by Aquatec Environmental Services, Colchester, Vermont, and AMRO Environmental Laboratories Corp., Merrimack, New Hampshire.

Table 3. Analytical Results for Volatile Organic Compounds Detected During March, October and November 1992, February and October 1993, and March 1994, Eveready Battery Company, Plant 2, Bennington, Vermont.

Date:	March 1992	October 1992	November 1992	November 1992	February 1993	October 1993	March 1994	
Lab:	Aquatec	Aquatec	Aquatec	AMRO	Aquatec	Aquatec	Aquatec	
Parameter								
<b>Well MW-4</b>								
Difluorodichloromethane	ND	6.7	ND	ND	ND	ND	ND	
Chloroform	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	0.9	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND	
<b>Well MW-5</b>								
Difluorodichloromethane	ND	3.9	ND	NS	ND	ND	ND	
Chloroform	ND	0.6	0.6	NS	ND	0.6	ND	
Tetrachloroethene	ND	ND	ND	NS	ND	ND	ND	
Trichloroethene	1.4	3.4	2.5	NS	3.2	4.6	4.3	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	0.8	ND	
<b>DUPLICATE SAMPLE</b>	<b>Sample ID:</b>	MW-5R	REP-1	NS	NS	REP-1	REP-1	REP-1
	<b>Collected from:</b>	MW-5	MW-5	NS	NS	(MW-2)	(MW-4)	(MW-4)
Difluorodichloromethane		ND	4.0	NS	NS	ND	ND	ND
Chloroform		ND	0.6	NS	NS	0.6	ND	ND
Tetrachloroethene		ND	0.6	NS	NS	35.0	ND	ND
Trichloroethene		1.3	3.5	NS	NS	ND	ND	ND
cis-1,2-dichloroethene		ND	ND	NS	NS	ND	ND	ND

All results reported in micrograms per liter (ug/L)

ND Not detected.

NS Not sampled.

Analyses performed by Aquatec Environmental Services, Colchester, Vermont, and AMRO Environmental Laboratories Corp., Merrimack, New Hampshire.

Table 4. Analytical Results for Total Lead Concentrations Detected during March and October 1992, October 1993 and March 1994 Groundwater Sampling, Eveready Battery Plant 2, Bennington Vermont.

Well Designation	March 1992	October 1992	October 1993	March 1994
MW-1	<0.005	<0.005	<0.005	<0.005
MW-2	0.012	<0.005	0.035	<0.005
MW-3	<0.005	<0.005	0.0176	<0.005
MW-4	0.020	<0.005	0.0110 (R=0.128)	<0.005 (R= <0.005)
MW-5	NA*	NA*	NA*	<0.005

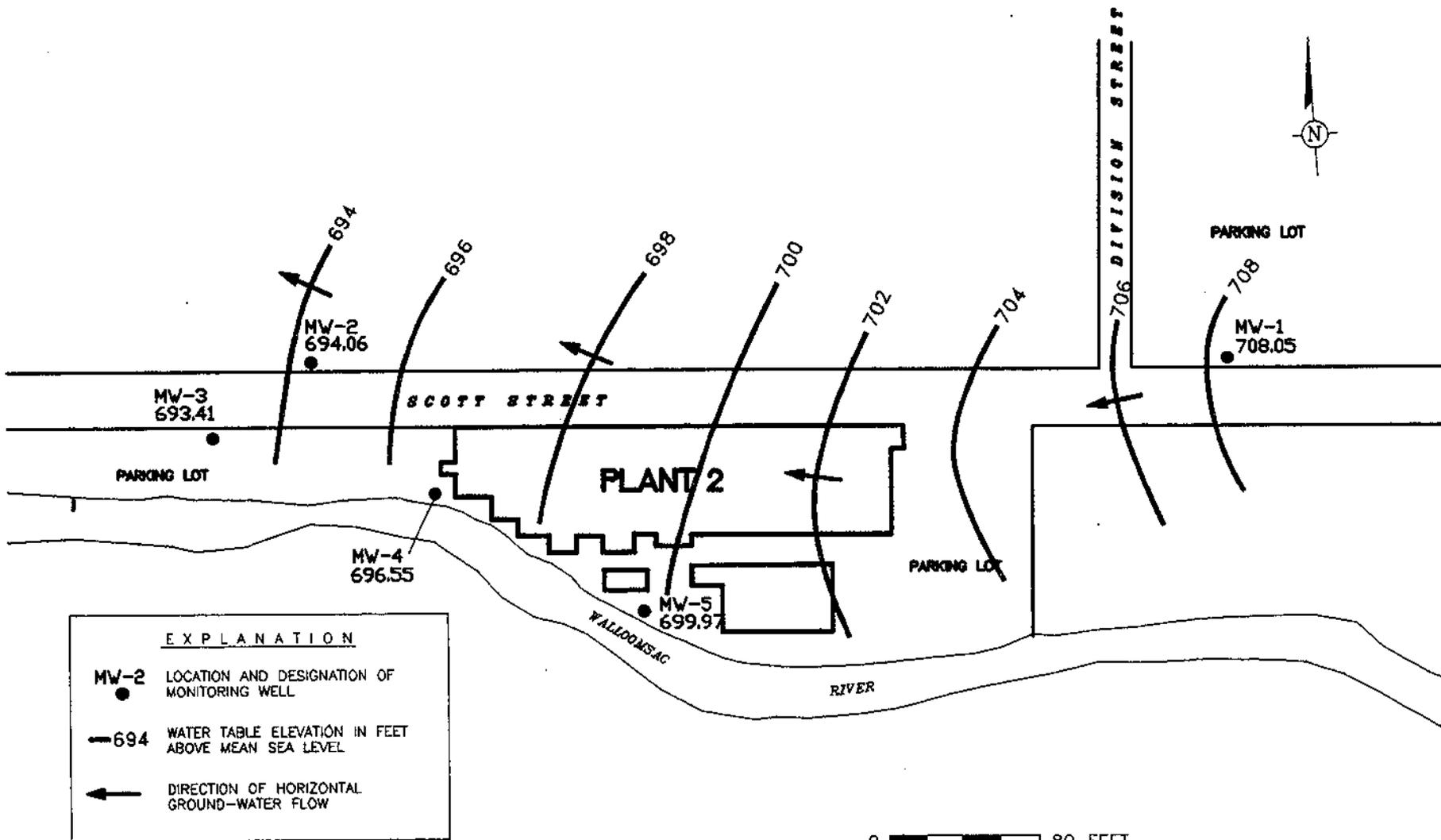
NA\*: No longer analyzed, as authorized by Vermont DEC letter to Eveready Battery.

R: Replicate Sample Collected from MW-4 during October 1993 and March 1994 sampling.

All results reported in milligrams per liter (mg/L).

Analyses performed by Aquatec Environmental Services, Colchester, Vermont.





NOTE: MW-5 WELLHEAD WAS ALTERED DURING SITE CONSTRUCTION ACTIVITIES CONDUCTED IN 1991. ALL ELEVATION DATA IS ESTIMATED.



# CONFIGURATION OF THE WATER TABLE MARCH 25, 1994

EVEREADY BATTERY COMPANY  
BENNINGTON, VERMONT

FIGURE

1

# WATER SAMPLING LOG

Project/No. MA0021.008 Page 1 of 1  
Site Location Eveready Battery, Bennington, VT Date 10/8/93  
Site/Well No. MW-1 Coded/  
Replicate No. --  
Weather Sunny, warm, 60 degrees Time Sampling Began 9:50 Time Sampling Completed 10:15

## EVACUATION DATA

Description of Measuring Point (MP) Top of PVC Casing  
Height of MP Above/Below Land Surface \_\_\_\_\_ MP Elevation 715.81  
Total Sounded Depth of Well Below MP 14.83 Water-Level Elevation 707.34  
Held 10.00 Depth to Water Below MP 8.47 Diameter of Casing 2" PVC  
Wet 1.53 Water Column in Well 6.36 Gallons Pumped/Bailed Prior to Sampling 4  
Gallons per Foot 0.16  
Gallons in Well 1.0 Sampling Pump Intake Setting (feet below land surface) \_\_\_\_\_  
Evacuation Method Teflon Bailer and polypropylene rope

## SAMPLING DATA/FIELD PARAMETERS

Color Yellow to clear Odor None Appearance Slightly turbid Temperature 16 F/C  
Other (specific ion; OVA; HNU; etc.) \_\_\_\_\_

Specific Conductance, umhos/cm 190 pH 7.90

Sampling Method and Material Teflon Bailer and polypropylene rope

Constituents Sampled	Container Description		Preservative
	From Lab	or G&M	
<u>VOCs (8010)</u>	<u>(2) 40 mL vials</u>		<u>HCl</u>
<u>Lead (7421)</u>	<u>(1) litre plastic</u>		<u>--</u>

Remarks \_\_\_\_\_

Sampling Personnel A. LaBarge

### WELL CASING VOLUMES

GAL./FT.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

# WATER SAMPLING LOG

Project/No. MA0021.008 Page 1 of 1  
Site Location Eveready Battery, Bennington, VT Date 10/8/93  
Site/Well No. MW-2 Coded/Replicate No. --  
Weather Sunny, 70 degrees Time Sampling Began 12:30 Time Sampling Completed 1:15

## EVACUATION DATA

Description of Measuring Point (MP) Top of PVC Casing  
Height of MP Above/Below Land Surface \_\_\_\_\_ MP Elevation 702.57  
Total Sounded Depth of Well Below MP 19.25 Water-Level Elevation 693.60  
Held 10.40 Depth to Water Below MP 8.97 Diameter of Casing 2" PVC  
Wet 1.43 Water Column in Well 10.28 Gallons Pumped/Bailed Prior to Sampling 5  
Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) \_\_\_\_\_  
Gallons in Well 1.6  
Evacuation Method Teflon Bailor and polypropylene rope

## SAMPLING DATA/FIELD PARAMETERS

Color Beige Odor None Appearance Slightly turbid Temperature 15 F/C  
Other (specific ion; OVA; HNU; etc.) \_\_\_\_\_

Specific Conductance, umhos/cm 180 pH 8.0

Sampling Method and Material Teflon Bailor and polypropylene rope

Constituents Sampled	Container Description		Preservative
	From Lab	or G&M	
<u>VOCs (8010)</u>	<u>(2) 40 mL vials</u>		<u>HCl</u>
<u>Lead (7421)</u>	<u>(1) litre plastic</u>		<u>--</u>

Remarks \_\_\_\_\_

Sampling Personnel A. LaBarge

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

# WATER SAMPLING LOG

Project/No. MA0021.008 Page 1 of 1  
 Site Location Eveready Battery, Bennington, VT Date 10/8/93  
 Site/Well No. MW-3 Coded/ Replicate No. --  
 Weather Sunny, 70 degrees Time Sampling Began 11:45 Time Sampling Completed 12:20

## EVACUATION DATA

Description of Measuring Point (MP) Top of PVC Casing  
 Height of MP Above/Below Land Surface \_\_\_\_\_ MP Elevation 701.11  
 Total Sounded Depth of Well Below MP 16.93 Water-Level Elevation 692.96  
 Held 9.50 Depth to Water Below MP 8.15 Diameter of Casing 2" PVC  
 Wet 1.35 Water Column in Well 8.78 Gallons Pumped/Bailed Prior to Sampling 4+  
 Gallons per Foot 0.16  
 Gallons in Well 1.4 Sampling Pump Intake Setting (feet below land surface) \_\_\_\_\_  
 Evacuation Method Teflon Bailor and polypropylene rope

## SAMPLING DATA/FIELD PARAMETERS

Color Beige Odor None Appearance Slightly turbid Temperature 16 F/C  
 Other (specific ion; OVA; HNU; etc.) \_\_\_\_\_

Specific Conductance, umhos/cm 200 pH 8.0

Sampling Method and Material Teflon Bailor and polypropylene rope

Constituents Sampled	Container Description	Preservative
	From Lab <u>X</u> or G&M _____	
<u>VOCs (8010)</u>	<u>(2) 40 mL vials</u>	<u>HCl</u>
<u>Lead (7421)</u>	<u>(1) litre plastic</u>	<u>--</u>

Remarks \_\_\_\_\_

Sampling Personnel A. LaBarge

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.08	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

# WATER SAMPLING LOG

Project/No. MA0021.008 Page 1 of 1  
 Site Location Eveready Battery, Bennington, VT Date 10/8/93  
 Site/Well No. MW-4 Coded/ Replicate No. REP-1  
 Weather Sunny, 70 degrees Time Sampling Began 11:00 Time Sampling Completed 11:40

## EVACUATION DATA

Description of Measuring Point (MP) Top of PVC Casing  
 Height of MP Above/Below Land Surface \_\_\_\_\_ MP Elevation 704.46  
 Total Sounded Depth of Well Below MP 20.86 Water-Level Elevation 695.86  
 Held 10.20 Depth to Water Below MP 8.60 Diameter of Casing 2" PVC  
 Wet 1.60 Water Column in Well 12.26 Gallons Pumped/Bailed Prior to Sampling 6+  
 Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) \_\_\_\_\_  
 Gallons in Well 1.96  
 Evacuation Method Teflon Bailor and polypropylene rope

## SAMPLING DATA/FIELD PARAMETERS

Color Brown Odor None Appearance Very Turbid Temperature 16 F/C  
 Other (specific ion; OVA; HNU; etc.) \_\_\_\_\_

Specific Conductance, umhos/cm 180 pH 7.85

Sampling Method and Material Teflon Bailor and polypropylene rope

Constituents Sampled	Container Description	Preservative
	From Lab <u>X</u> or G&M _____	
<u>VOCs (8010)</u>	<u>(2) 40 mL vials</u>	<u>HCl</u>
<u>Lead (7421)</u>	<u>(1) litre plastic</u>	<u>--</u>

Remarks Collected REP-1 from MW-4

Sampling Personnel A. LaBarge

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.60	6" = 1.47

# WATER SAMPLING LOG

Project/No. MA0021.008 Page 1 of 1  
Site Location Eveready Battery, Bennington, VT Date 10/8/83  
Site/Well No. MW-5 Coded/  
Replicate No. FB-1  
Weather Sunny, warm, 65 degrees Time Sampling Began 10:20 Time Sampling Completed 10:50

## EVACUATION DATA

Description of Measuring Point (MP) Top of PVC Casing  
Height of MP Above/Below Land Surface \_\_\_\_\_ MP Elevation 707.53  
Total Sounded Depth of Well Below MP 18.74 Water-Level Elevation 699.14  
Held 9.50 Depth to Water Below MP 8.39 Diameter of Casing 2" PVC  
Wet 1.11 Water Column in Well 10.35 Gallons Pumped/Bailed Prior to Sampling 5  
Gallons per Foot 0.16 Sampling Pump Intake Setting (feet below land surface) \_\_\_\_\_  
Gallons in Well 1.66  
Evacuation Method Teflon Bailer and polypropylene rope

## SAMPLING DATA/FIELD PARAMETERS

Color Orange Odor None Appearance Very Turbid Temperature 15 F/C  
Other (specific ion; OVA; HNU; etc.) \_\_\_\_\_

Specific Conductance, umhos/cm 190 pH 7.95  
Sampling Method and Material Teflon Bailer and polypropylene rope

Constituents Sampled	Container Description		Preservative
	From Lab	or G&M	
<u>VOCs (8010)</u>	<u>(2) 40 mL vials</u>		<u>HCl</u>
_____	_____		_____
_____	_____		_____

Remarks Appears to be orange bacteria in well water; collected FB-1 after sampling MW-5.  
Sampling Personnel A. LaBarge

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.08	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47



# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

APR 22 1994

## Analytical Report

Geraghty & Miller, Inc.  
24 Madison Avenue Extension  
Albany, NY 12203

Date : 04/19/94  
ETR Number : 43098  
Project No.: 94000  
No. Samples: 14  
Arrived : 03/26/94

Attention : Ms. Amy LaBarge

Page 1

### Eveready Battery

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
215301 7421	FB-1:03/25/94 (Filtrate) Lead, Total	<0.005
215303 7421	MW-1:03/25/94 (Filtrate) Lead, Total	<0.005
215305 7421	MW-2:03/25/94 (Filtrate) Lead, Total	<0.005
215307 7421	MW-3:03/25/94 (Filtrate) Lead, Total	<0.005
215309 7421	MW-4:03/25/94 (Filtrate) Lead, Total	<0.005
215312 7421	Rep-1:03/25/94 (Filtrate) Lead, Total	<0.005

### Comments/Notes

Lead preparation blank <0.005 mg/L.  
Lead laboratory control sample recovery = 91.1%.

< Last Page >

Submitted By :

*R. J. Mason*

Aquatec Inc.





# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

## Analytical Report

Date: 19 April 1994

ETR No.: 43098; Project No.: 94000

Blank Identification: Method blank VBLKQ7 analyzed with Aquatec Lab No's.  
215300, 215302 and 215313.

### Volatile Organic Compounds in ug/l EPA Method 8010

<u>bromodichloromethane</u>	0.5 U	<u>cis-1,2-dichloroethene</u>	0.5 U
<u>bromoform</u>	0.5 U	<u>trans-1,2-dichloroethene</u>	0.5 U
<u>bromomethane</u>	0.5 U	<u>1,2-dichloropropane</u>	0.5 U
<u>carbon tetrachloride</u>	0.5 U	<u>cis-1,3-dichloropropene</u>	0.5 U
<u>chlorobenzene</u>	0.5 U	<u>trans-1,3-dichloropropene</u>	0.5 U
<u>chloroethane</u>	0.5 U	<u>Freon-TF</u>	0.5 U
<u>chloroform</u>	0.5 U	<u>methylene chloride</u>	0.5 U
<u>chloromethane</u>	0.5 U	<u>styrene</u>	0.5 U
<u>dibromochloromethane</u>	0.5 U	<u>1,1,2,2-tetrachloroethane</u>	0.5 U
<u>1,2-dichlorobenzene</u>	0.5 U	<u>tetrachloroethene</u>	0.5 U
<u>1,3-dichlorobenzene</u>	0.5 U	<u>1,1,1-trichloroethane</u>	0.5 U
<u>1,4-dichlorobenzene</u>	0.5 U	<u>1,1,2-trichloroethane</u>	0.5 U
<u>dichlorodifluoromethane</u>	0.5 U	<u>trichloroethene</u>	0.5 U
<u>1,1-dichloroethane</u>	0.5 U	<u>trichlorofluoromethane</u>	0.5 U
<u>1,2-dichloroethane</u>	0.5 U	<u>vinyl chloride</u>	0.5 U
<u>1,1-dichloroethene</u>	0.5 U		

### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	77%
1,4-dichlorobutane	94%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

## Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215300  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 31 March 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
FB-1, 03/25/94.

### Volatile Organic Compounds in ug/l EPA Method 8010

<u>bromodichloromethane</u>	0.5 U	<u>cis-1,2-dichloroethene</u>	0.5 U
<u>bromoform</u>	0.5 U	<u>trans-1,2-dichloroethene</u>	0.5 U
<u>bromomethane</u>	0.5 U	<u>1,2-dichloropropane</u>	0.5 U
<u>carbon tetrachloride</u>	0.5 U	<u>cis-1,3-dichloropropene</u>	0.5 U
<u>chlorobenzene</u>	0.5 U	<u>trans-1,3-dichloropropene</u>	0.5 U
<u>chloroethane</u>	0.5 U	<u>Freon-TF</u>	0.5 U
<u>chloroform</u>	0.5 U	<u>methylene chloride</u>	0.5 U
<u>chloromethane</u>	0.5 U	<u>styrene</u>	0.5 U
<u>dibromochloromethane</u>	0.5 U	<u>1,1,2,2-tetrachloroethane</u>	0.5 U
<u>1,2-dichlorobenzene</u>	0.5 U	<u>tetrachloroethene</u>	0.5 U
<u>1,3-dichlorobenzene</u>	0.5 U	<u>1,1,1-trichloroethane</u>	0.5 U
<u>1,4-dichlorobenzene</u>	0.5 U	<u>1,1,2-trichloroethane</u>	0.5 U
<u>dichlorodifluoromethane</u>	0.5 U	<u>trichloroethene</u>	0.5 U
<u>1,1-dichloroethane</u>	0.5 U	<u>trichlorofluoromethane</u>	0.5 U
<u>1,2-dichloroethane</u>	0.5 U	<u>vinyl chloride</u>	0.5 U
<u>1,1-dichloroethene</u>	0.5 U		

### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	95%
1,4-dichlorobutane	114%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

## Analytical Report

Date: 19 April 1994

ETR No.: 43098; Project No.: 94000

Blank Identification: Method blank VBLKR3 analyzed with Aquatec Lab No's.  
215304, 215306, 215308, 215310 and 215311.

### Volatile Organic Compounds in ug/l EPA Method 8010

<u>bromodichloromethane</u>	<u>0.5 U</u>	<u>cis-1,2-dichloroethene</u>	<u>0.5 U</u>
<u>bromoform</u>	<u>0.5 U</u>	<u>trans-1,2-dichloroethene</u>	<u>0.5 U</u>
<u>bromomethane</u>	<u>0.5 U</u>	<u>1,2-dichloropropane</u>	<u>0.5 U</u>
<u>carbon tetrachloride</u>	<u>0.5 U</u>	<u>cis-1,3-dichloropropene</u>	<u>0.5 U</u>
<u>chlorobenzene</u>	<u>0.5 U</u>	<u>trans-1,3-dichloropropene</u>	<u>0.5 U</u>
<u>chloroethane</u>	<u>0.5 U</u>	<u>Freon-TF</u>	<u>0.5 U</u>
<u>chloroform</u>	<u>0.5 U</u>	<u>methylene chloride</u>	<u>0.5 U</u>
<u>chloromethane</u>	<u>0.5 U</u>	<u>styrene</u>	<u>0.5 U</u>
<u>dibromochloromethane</u>	<u>0.5 U</u>	<u>1,1,2,2-tetrachloroethane</u>	<u>0.5 U</u>
<u>1,2-dichlorobenzene</u>	<u>0.5 U</u>	<u>tetrachloroethene</u>	<u>0.5 U</u>
<u>1,3-dichlorobenzene</u>	<u>0.5 U</u>	<u>1,1,1-trichloroethane</u>	<u>0.5 U</u>
<u>1,4-dichlorobenzene</u>	<u>0.5 U</u>	<u>1,1,2-trichloroethane</u>	<u>0.5 U</u>
<u>dichlorodifluoromethane</u>	<u>0.5 U</u>	<u>trichloroethene</u>	<u>0.5 U</u>
<u>1,1-dichloroethane</u>	<u>0.5 U</u>	<u>trichlorofluoromethane</u>	<u>0.5 U</u>
<u>1,2-dichloroethane</u>	<u>0.5 U</u>	<u>vinyl chloride</u>	<u>0.5 U</u>
<u>1,1-dichloroethene</u>	<u>0.5 U</u>		

### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	77%
1,4-dichlorobutane	94%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

## Analytical Report

Date: 19 April 1994  
 Aquatec Lab No.: 215302  
 ETR No.: 43098; Project No.: 94000  
 Sample Received On: 26 March 1994; Analyzed On: 31 March 1994  
 Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
 MW-1, 03/25/94.

### Volatile Organic Compounds in ug/l EPA Method 8010

bromodichloromethane	0.5 U	cis-1,2-dichloroethene	0.5 U
bromoform	0.5 U	trans-1,2-dichloroethene	0.5 U
bromomethane	0.5 U	1,2-dichloropropane	0.5 U
carbon tetrachloride	0.5 U	cis-1,3-dichloropropene	0.5 U
chlorobenzene	0.5 U	trans-1,3-dichloropropene	0.5 U
chloroethane	0.5 U	Freon-TF	0.5 U
chloroform	0.5 U	methylene chloride	0.5 U
chloromethane	0.5 U	styrene	0.5 U
dibromochloromethane	0.5 U	1,1,2,2-tetrachloroethane	0.5 U
1,2-dichlorobenzene	0.5 U	tetrachloroethene	0.5 U
1,3-dichlorobenzene	0.5 U	1,1,1-trichloroethane	0.5 U
1,4-dichlorobenzene	0.5 U	1,1,2-trichloroethane	0.5 U
dichlorodifluoromethane	0.5 U	trichloroethene	0.5 U
1,1-dichloroethane	0.5 U	trichlorofluoromethane	0.5 U
1,2-dichloroethane	0.5 U	vinyl chloride	0.5 U
1,1-dichloroethene	0.5 U		

### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	96%
1,4-dichlorobutane	116%

Key to the letter used to qualify the results of the analysis:

- U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

Laboratory Locations  
55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

### Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215304  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 01 April 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled MW-2, 03/25/94.

#### Volatile Organic Compounds in ug/l EPA Method 8010

bromodichloromethane	0.5 U	cis-1,2-dichloroethene	0.5 U
bromoform	0.5 U	trans-1,2-dichloroethene	0.5 U
bromomethane	0.5 U	1,2-dichloropropane	0.5 U
carbon tetrachloride	0.5 U	cis-1,3-dichloropropene	0.5 U
chlorobenzene	0.5 U	trans-1,3-dichloropropene	0.5 U
chloroethane	0.5 U	Freon-TF	0.5 U
chloroform	0.8	methylene chloride	0.5 U
chloromethane	0.5 U	styrene	0.5 U
dibromochloromethane	0.5 U	1,1,2,2-tetrachloroethane	0.5 U
1,2-dichlorobenzene	0.5 U	tetrachloroethene	2.3
1,3-dichlorobenzene	0.5 U	1,1,1-trichloroethane	0.5 U
1,4-dichlorobenzene	0.5 U	1,1,2-trichloroethane	0.5 U
dichlorodifluoromethane	0.5 U	trichloroethene	0.5 U
1,1-dichloroethane	0.5 U	trichlorofluoromethane	0.5 U
1,2-dichloroethane	0.5 U	vinyl chloride	0.5 U
1,1-dichloroethene	0.5 U		

#### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	80%
1,4-dichlorobutane	96%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

### Laboratory Locations

55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

## Analytical Report

Date: 19 April 1994  
 Aquatec Lab No.: 215306  
 ETR No.: 43098; Project No.: 94000  
 Sample Received On: 26 March 1994; Analyzed On: 01 April 1994  
 Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
 MW-3, 03/25/94.

### Volatile Organic Compounds in ug/l EPA Method 8010

bromodichloromethane	0.5 U	cis-1,2-dichloroethene	0.5 U
bromoform	0.5 U	trans-1,2-dichloroethene	0.5 U
bromomethane	0.5 U	1,2-dichloropropane	0.5 U
carbon tetrachloride	0.5 U	cis-1,3-dichloropropene	0.5 U
chlorobenzene	0.5 U	trans-1,3-dichloropropene	0.5 U
chloroethane	0.5 U	Freon-TF	0.5 U
chloroform	0.5 U	methylene chloride	0.5 U
chloromethane	0.5 U	styrene	0.5 U
dibromochloromethane	0.5 U	1,1,2,2-tetrachloroethane	0.5 U
1,2-dichlorobenzene	0.5 U	tetrachloroethene	0.5 U
1,3-dichlorobenzene	0.5 U	1,1,1-trichloroethane	0.5 U
1,4-dichlorobenzene	0.5 U	1,1,2-trichloroethane	0.5 U
dichlorodifluoromethane	0.5 U	trichloroethene	0.5 U
1,1-dichloroethane	0.5 U	trichlorofluoromethane	0.5 U
1,2-dichloroethane	0.5 U	vinyl chloride	0.5 U
1,1-dichloroethene	0.5 U		

### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	73%
1,4-dichlorobutane	89%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

Laboratory Locations  
55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

### Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215308  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 01 April 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
MW-4, 03/25/94.

#### Volatile Organic Compounds in ug/l EPA Method 8010

bromodichloromethane	0.5 U	cis-1,2-dichloroethene	0.5 U
bromoform	0.5 U	trans-1,2-dichloroethene	0.5 U
bromomethane	0.5 U	1,2-dichloropropane	0.5 U
carbon tetrachloride	0.5 U	cis-1,3-dichloropropene	0.5 U
chlorobenzene	0.5 U	trans-1,3-dichloropropene	0.5 U
chloroethane	0.5 U	Freon-TF	0.5 U
chloroform	0.5 U	methylene chloride	0.5 U
chloromethane	0.5 U	styrene	0.5 U
dibromochloromethane	0.5 U	1,1,2,2-tetrachloroethane	0.5 U
1,2-dichlorobenzene	0.5 U	tetrachloroethene	0.5 U
1,3-dichlorobenzene	0.5 U	1,1,1-trichloroethane	0.5 U
1,4-dichlorobenzene	0.5 U	1,1,2-trichloroethane	0.5 U
dichlorodifluoromethane	0.5 U	trichloroethene	0.5 U
1,1-dichloroethane	0.5 U	trichlorofluoromethane	0.5 U
1,2-dichloroethane	0.5 U	vinyl chloride	0.5 U
1,1-dichloroethene	0.5 U		

#### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	76%
1,4-dichlorobutane	96%

Key to the letter used to qualify the results of the analysis:

- U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

Laboratory Locations  
55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

### Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215310  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 01 April 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled MW-5, 03/25/94.

#### Volatile Organic Compounds in ug/l EPA Method 8010

bromodichloromethane	0.5 U	cis-1,2-dichloroethene	0.5 U
bromoform	0.5 U	trans-1,2-dichloroethene	0.5 U
bromomethane	0.5 U	1,2-dichloropropane	0.5 U
carbon tetrachloride	0.5 U	cis-1,3-dichloropropene	0.5 U
chlorobenzene	0.5 U	trans-1,3-dichloropropene	0.5 U
chloroethane	0.5 U	Freon-TF	0.5 U
chloroform	0.5 U	methylene chloride	0.5 U
chloromethane	0.5 U	styrene	0.5 U
dibromochloromethane	0.5 U	1,1,2,2-tetrachloroethane	0.5 U
1,2-dichlorobenzene	0.5 U	tetrachloroethene	0.5 U
1,3-dichlorobenzene	0.5 U	1,1,1-trichloroethane	0.5 U
1,4-dichlorobenzene	0.5 U	1,1,2-trichloroethane	0.5 U
dichlorodifluoromethane	0.5 U	trichloroethene	4.3
1,1-dichloroethane	0.5 U	trichlorofluoromethane	0.5 U
1,2-dichloroethane	0.5 U	vinyl chloride	0.5 U
1,1-dichloroethene	0.5 U		

#### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	74%
1,4-dichlorobutane	98%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

Laboratory Locations  
55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

### Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215311  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 01 April 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
REP-1, 03/25/94.

#### Volatile Organic Compounds in ug/l EPA Method 8010

<u>bromodichloromethane</u>	0.5 U	<u>cis-1,2-dichloroethene</u>	0.5 U
<u>bromoform</u>	0.5 U	<u>trans-1,2-dichloroethene</u>	0.5 U
<u>bromomethane</u>	0.5 U	<u>1,2-dichloropropane</u>	0.5 U
<u>carbon tetrachloride</u>	0.5 U	<u>cis-1,3-dichloropropene</u>	0.5 U
<u>chlorobenzene</u>	0.5 U	<u>trans-1,3-dichloropropene</u>	0.5 U
<u>chloroethane</u>	0.5 U	<u>Freon-TF</u>	0.5 U
<u>chloroform</u>	0.5 U	<u>methylene chloride</u>	0.5 U
<u>chloromethane</u>	0.5 U	<u>styrene</u>	0.5 U
<u>dibromochloromethane</u>	0.5 U	<u>1,1,2,2-tetrachloroethane</u>	0.5 U
<u>1,2-dichlorobenzene</u>	0.5 U	<u>tetrachloroethene</u>	0.5 U
<u>1,3-dichlorobenzene</u>	0.5 U	<u>1,1,1-trichloroethane</u>	0.5 U
<u>1,4-dichlorobenzene</u>	0.5 U	<u>1,1,2-trichloroethane</u>	0.5 U
<u>dichlorodifluoromethane</u>	0.5 U	<u>trichloroethene</u>	0.5 U
<u>1,1-dichloroethane</u>	0.5 U	<u>trichlorofluoromethane</u>	0.5 U
<u>1,2-dichloroethane</u>	0.5 U	<u>vinyl chloride</u>	0.5 U
<u>1,1-dichloroethene</u>	0.5 U		

#### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	86%
1,4-dichlorobutane	104%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.





# Inchcape Testing Services

## Aquatec Laboratories

Laboratory Locations  
55 South Park Drive  
Colchester, VT 05446

75 Green Mountain Drive  
South Burlington, VT 05403

150 Herman Melville Boulevard  
New Bedford, MA 02740

### Analytical Report

Date: 19 April 1994  
Aquatec Lab No.: 215313  
ETR No.: 43098; Project No.: 94000  
Sample Received On: 26 March 1994; Analyzed On: 31 March 1994  
Sample Identification: Geraghty & Miller, Inc., liquid sample labeled  
TB-1, 03/25/94.

#### Volatile Organic Compounds in ug/l EPA Method 8010

<u>bromodichloromethane</u>	0.5 U	<u>cis-1,2-dichloroethene</u>	0.5 U
<u>bromoform</u>	0.5 U	<u>trans-1,2-dichloroethene</u>	0.5 U
<u>bromomethane</u>	0.5 U	<u>1,2-dichloropropane</u>	0.5 U
<u>carbon tetrachloride</u>	0.5 U	<u>cis-1,3-dichloropropene</u>	0.5 U
<u>chlorobenzene</u>	0.5 U	<u>trans-1,3-dichloropropene</u>	0.5 U
<u>chloroethane</u>	0.5 U	<u>Freon-TF</u>	0.5 U
<u>chloroform</u>	0.5 U	<u>methylene chloride</u>	0.5 U
<u>chloromethane</u>	0.5 U	<u>styrene</u>	0.5 U
<u>dibromochloromethane</u>	0.5 U	<u>1,1,2,2-tetrachloroethane</u>	0.5 U
<u>1,2-dichlorobenzene</u>	0.5 U	<u>tetrachloroethene</u>	0.5 U
<u>1,3-dichlorobenzene</u>	0.5 U	<u>1,1,1-trichloroethane</u>	0.5 U
<u>1,4-dichlorobenzene</u>	0.5 U	<u>1,1,2-trichloroethane</u>	0.5 U
<u>dichlorodifluoromethane</u>	0.5 U	<u>trichloroethene</u>	0.5 U
<u>1,1-dichloroethane</u>	0.5 U	<u>trichlorofluoromethane</u>	0.5 U
<u>1,2-dichloroethane</u>	0.5 U	<u>vinyl chloride</u>	0.5 U
<u>1,1-dichloroethene</u>	0.5 U		

#### Summary of Surrogate Recoveries

1-bromo-3-chloropropane	91%
1,4-dichlorobutane	115%

Key to the letter used to qualify the results of the analysis:

U - The compound was analyzed for but not detected. The number is the method specified reporting limit for the compound.



**8010/8020 FORM 3B QUALITY CONTROL STANDARD**

Lab Name: Aquatec Inc.

Contract No.: 94000

Client ID: QCS-20

Case No.: 43098

QCS ID: QCS-20

SDG No.: 43098

Date Analyzed: 03/31/94

QCS Lab File ID: 23 30MAR941745.7.1

GC Column 1: VOCOL

Column ID: 0.53 (mm)

GC Column 2: RTX-1

Column ID: 0.53 (mm)

Compound Name	Spike Amount	QCS Amount	%R	Limits
DICHLORODIFLUOROMETHANE	20	23.14	116	60-120
CHLOROMETHANE	20	20.32	102	60-140
VINYL CHLORIDE H	20	21.42	107	68-132
BROMOMETHANE	20	20.87	104	58-142
CHLOROETHANE	20	20.10	101	77-123
TRICHLOROFLUOROMETHANE	20	17.96	90	66-134
FREON-113	0	0.00	N/A	
1,1-DICHLOROETHENE H	20	18.95	95	63-137
METHYLENE CHLORIDE	20	20.12	101	78-122
TRANS-1,2-DICHLOROETHENE H	20	20.13	101	64-136
1,1-DICHLOROETHANE	20	19.41	97	84-116
CIS-1,2-DICHLOROETHENE H	0	0.00	N/A	60-120
CHLOROFORM	20	19.55	98	75-125
1,1,1-TRICHLOROETHANE	20	19.99	100	71-129
CARBON TETRACHLORIDE	20	20.16	101	68-132
1,2-DICHLOROETHANE	20	19.76	99	72-128
TRICHLOROETHENE H	20	20.28	101	77-123
1,2-DICHLOROPROPANE	20	20.53	103	74-126
BROMODICHLOROMETHANE	20	20.17	101	76-124
CIS-1,3-DICHLOROPROPENE H	20	20.22	101	64-136
TRANS-1,3-DICHLOROPROPENE H	20	20.56	103	64-136
1,1,2-TRICHLOROETHANE	20	19.62	98	78-122
TETRACHLOROETHENE H	20	20.26	101	70-130
DIBROMOCHLOROMETHANE	20	20.26	101	66-134
CHLOROBENZENE H	20	20.13	101	72-128
BROMOFORM	20	20.98	105	74-126
1,1,2,2-TETRACHLOROETHANE	20	18.57	93	49-151
1,3-DICHLOROBENZENE H	20	19.75	99	50-150
1,4-DICHLOROBENZENE H	20	19.08	95	70-130
1,2-DICHLOROBENZENE H	20	20.04	100	70-130







Eveready Battery Company, Inc.

March 8, 1994

Mr. William E. Ahearn, Director  
Hazardous Materials Management Division  
Department of Environmental Conservation  
Agency of Natural Resources  
103 South Main Street / West Office Building  
Waterbury, VT 05671-0404

***Subject: Results of Geraghty & Miller's October 1993 Semi-Annual  
Ground-Water Sampling at Eveready Battery Company, Plant 2,  
Bennington, Vermont***

Dear Mr. Ahearn:

Enclosed is a copy of the October 1993 *Summary of Results of Ground-Water Sampling at Eveready Battery Company, Plant 2, Bennington, Vermont*, dated March 2, 1994, as prepared by Geraghty & Miller, Inc. The report summarizes the February 1993 ground water sampling results. Geraghty & Miller has previously prepared reports documenting background information for the sampling program, including facility operational and regulatory information, and data regarding regional hydrogeology.

Since there was no significant change in VOC's and total lead in the October, 1993 sampling event, Eveready Battery Company requests approval from the Hazardous Materials Management Division to sample annually after the March, 1994 sampling event. Geraghty & Miller will sample only for tetrachloroethane (PCE) in well MW-2. With your division's approval in writing, Eveready will schedule annual sampling with the next sampling event occurring in March, 1995.

As always, if you have any questions, please call me at (802)-442-1380.

Sincerely,

Arthur L. Mullen  
Plant Environmental Coordinator

Copy: W.G. Wright / W.S. Crittendon / P.C. Little  
S.M. Frankart  
A.M. Nash - Westlake

AM / am  
GERAGHT1.DOC