

**Table 4**  
**Summary of Groundwater VOC Analytical Results**  
**Former Raytheon Facility**  
**Wayland, Massachusetts**

Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-202S 18-Sep-02 Low-Flow	MW-202M 18-Sep-02 Low-Flow	MW-202D 18-Sep-02 Low-Flow	MW-203S* 12-Aug-02 Low-Flow	MW-203M* 12-Aug-02 Low-Flow	MW-203D* 12-Aug-02 Low-Flow	MW-205S* 12-Aug-02 Low-Flow	MW-205M* 12-Aug-02 Low-Flow	MW-205D* 12-Aug-02 Low-Flow	MW-209 10-Jul-02 Low-Flow
<b>Organics</b>												
<i>Volatile Organic Compounds (VOCs) (µg/L)</i>			-			-			-		-	
Tetrachloroethene		5		-	-		-	-		-		-
Trichloroethene		5		49	2.1		20	49		42		6.6
cis-1,2-Dichloroethene		70		-	-		-	7		-		-
trans-1,2-Dichloroethene		100		-	-		-	-		-		-
Vinyl Chloride		2		-	-		-	-		-		-
1,1,1-Trichloroethane		200		14	-		-	-		5		-
1,1-Dichloroethane		70		2.5	-		-	-		-		-
1,1-Dichloroethene		1		1.4	-		-	-		-		-
Chloroform		5		-	-		-	-		-		-
1,1,2,2-Tetrachloroethane		2		-	-		-	-		-		-
1,2-Dichloroethane		5		-	-		-	-		-		-
Chloroethane		1,000		-	-		-	-		-		-
Trichlorofluoromethane		10,000		-	-		-	-		-		-
Bromodichloromethane		5		-	-		-	-		-		-
Acetone		3,000		-	-		-	-		-		-
Methyl tert butyl ether		70		120	3.4		-	-		-		-
1,2,3-Trichlorobenzene		NS		-	-		-	-		-		-
1,2-Dichlorobenzene		600		-	-		-	-		-		-
1,3-Dichlorobenzene		600		-	-		-	-		-		-
1,4-Dichlorobenzene		5		-	-		-	-		-		-
Chlorobenzene		100		-	-		-	-		-		-
Isopropylbenzene		10,000		-	-		-	-		-		-
sec-Butylbenzene		NS		-	-		-	-		-		-
1,3,5-Trimethylbenzene		100		-	-		-	-		-		-
1,2,4-Trimethylbenzene		10,000		-	-		-	-		-		-
Naphthalene		20		-	-		-	-		-		-
Benzene		5		-	-		-	-		-		-
Toluene		1,000		-	-		-	-		-		-
Ethylbenzene		700		-	-		-	-		-		-
Xylenes		6,000		-	-		-	-		-		-

**Notes:**

- = Analytical result below the method detection limit.

NS = No Standard

µg/L = micrograms per liter (parts per billion (ppb))

Shading indicates exceedence of RCGW-1

\* Analysis by Stone Environmental Inc. field lab for screening purposes.

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-210 23-Jul-02 Low-Flow	MW-211 23-Jul-02 Low-Flow	MW-212 10-Jul-02 Low-Flow	MW-213 23-Jul-02 Low-Flow	MW-214 23-Jul-02 Low-Flow
<b>Organics</b>							
<i>Volatile Organic Compounds (VOCs) (µg/L)</i>							
Tetrachloroethene		5	5.6	-	-	1.1	1.7
Trichloroethene		5	88	2.2	18	10	32
cis-1,2-Dichloroethene		70	57	0.53	-	-	1.3
trans-1,2-Dichloroethene		100	-	-	-	-	-
Vinyl Chloride		2	5.3	-	-	-	-
1,1,1-Trichloroethane		200	-	-	-	-	-
1,1-Dichloroethane		70	-	-	-	-	-
1,1-Dichloroethene		1	-	-	-	-	-
Chloroform		5	-	-	-	-	-
1,1,2,2-Tetrachloroethane		2	-	-	-	-	-
1,2-Dichloroethane		5	-	-	-	-	-
Chloroethane		1,000	-	-	-	-	-
Trichlorofluoromethane		10,000	-	-	4.8	-	-
Bromodichloromethane		5	-	-	-	-	-
Acetone		3,000	-	-	-	-	-
Methyl tert butyl ether		70	-	-	-	-	-
1,2,3-Trichlorobenzene		NS	-	-	-	-	-
1,2-Dichlorobenzene		600	-	-	-	-	-
1,3-Dichlorobenzene		600	-	-	-	-	-
1,4-Dichlorobenzene		5	-	-	-	-	-
Chlorobenzene		100	-	-	-	-	-
Isopropylbenzene		10,000	-	-	-	-	-
sec-Butylbenzene		NS	-	-	-	-	-
1,3,5-Trimethylbenzene		100	-	-	-	-	-
1,2,4-Trimethylbenzene		10,000	-	-	-	-	-
Naphthalene		20	-	-	-	-	-
Benzene		5	1.0	-	-	-	-
Toluene		1,000	-	-	-	-	-
Ethylbenzene		700	-	-	-	-	-
Xylenes		6,000	-	-	-	-	-

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**Wayland, Massachusetts**

Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-215S 20-Sep-02 Low-Flow	MW-215M 20-Sep-02 Low-Flow	MW-215D 20-Sep-02 Low-Flow	MW-216S 18-Sep-02 Low-Flow	MW-216M 18-Sep-02 Low-Flow	MW-216D 18-Sep-02 Low-Flow
<b>Organics</b>								
<i>Volatile Organic Compounds (VOCs) (µg/L)</i>								
Tetrachloroethene		5	-	0.54	-	-	-	-
Trichloroethene		5		3.6	-		1.2	-
cis-1,2-Dichloroethene		70		-	-		-	-
trans-1,2-Dichloroethene		100		-	-		-	-
Vinyl Chloride		2		-	-		-	-
1,1,1-Trichloroethane		200		-	-		-	-
1,1-Dichloroethane		70		-	-		-	-
1,1-Dichloroethene		1		-	-		-	-
Chloroform		5		-	-		0.98	1.5
1,1,2,2-Tetrachloroethane		2		-	-		-	-
1,2-Dichloroethane		5		-	-		-	-
Chloroethane		1,000		-	-		-	-
Trichlorofluoromethane		10,000		-	-		-	-
Bromodichloromethane		5		-	-		-	0.73
Acetone		3,000		-	5.4		-	-
Methyl tert butyl ether		70		-	-		-	-
1,2,3-Trichlorobenzene		NS		-	-		-	-
1,2-Dichlorobenzene		600		-	-		-	-
1,3-Dichlorobenzene		600		-	-		-	-
1,4-Dichlorobenzene		5		-	-		-	-
Chlorobenzene		100		-	-		-	-
Isopropylbenzene		10,000		-	-		-	-
sec-Butylbenzene		NS		-	-		-	-
1,3,5-Trimethylbenzene		100		-	-		-	-
1,2,4-Trimethylbenzene		10,000		-	-		-	-
Naphthalene		20		-	-		-	-
Benzene		5		-	-		-	-
Toluene		1,000		-	-		-	-
Ethylbenzene		700		-	-		-	-
Xylenes		6,000		-	-		-	-

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-217S 23-Jul-02 Low-Flow	MW-217M 23-Jul-02 Low-Flow	MW-217D 23-Jul-02 Low-Flow	MW-218S 22-Jul-02 Low-Flow	MW-218M 22-Jul-02 Low-Flow	MW-218D 22-Jul-02 Low-Flow	MW-219S 05-Sep-02 Low-Flow	MW-219M 05-Sep-02 Low-Flow	MW-219D 04-Sep-02 Low-Flow
<b>Organics</b>											
<i>Volatile Organic Compounds (VOCs) (µg/L)</i>											
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	-	8.2	1.1	-	2.2	1.1	-	-	-	-
cis-1,2-Dichloroethene	70	-	0.94	-	-	2.7	-	-	-	-	-
trans-1,2-Dichloroethene	100	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	2	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	4.3	-	-	18	-	-	-	-	-
1,1-Dichloroethene	1	-	0.89	-	-	0.81	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	2	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	-	-	-	-	2.1	-	-	-	-	-
Chloroethane	1,000	-	-	-	-	1.2	-	-	-	-	-
Trichlorofluoromethane	10,000	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	5	-	-	-	-	-	-	-	-	-	-
Acetone	3,000	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	70	-	8.7	-	-	14	-	-	-	-	-
1,2,3-Trichlorobenzene	NS	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	600	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	5	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	3.2	-	-	-	-	-	-	-	-
Isopropylbenzene	10,000	-	-	-	-	1.5	-	-	-	-	-
sec-Butylbenzene	NS	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	100	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	10,000	-	-	-	-	-	-	-	-	-	-
Naphthalene	20	-	-	-	-	-	-	-	-	-	-
Benzene	5	-	-	-	-	2.3	-	-	-	-	-
Toluene	1,000	-	-	-	1.4	-	2.6	-	-	-	-
Ethylbenzene	700	-	-	-	-	-	-	-	-	-	-
Xylenes, p/m-	6,000	-	-	-	-	0.55	-	-	-	-	-

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-220S 04-Sep-02 Low-Flow	MW-220M 04-Sep-02 Low-Flow	MW-220D 05-Sep-02 Waterra	MW-221M 20-Sep-02 Low-Flow	MW-221D 20-Sep-02 Low-Flow
<b>Organics</b>							
<i>Volatile Organic Compounds (VOCs) (µg/L)</i>							
Tetrachloroethene		5	-	-	-	-	-
Trichloroethene		5	-	-	-	-	5.9
cis-1,2-Dichloroethene		70	-	-	-	-	1.3
trans-1,2-Dichloroethene		100	-	-	-	-	-
Vinyl Chloride		2	-	-	-	-	-
1,1,1-Trichloroethane		200	-	-	-	-	-
1,1-Dichloroethane		70	-	-	-	-	-
1,1-Dichloroethene		1	-	-	-	-	-
Chloroform		5	-	-	-	-	-
1,1,2,2-Tetrachloroethane		2	-	-	-	-	-
1,2-Dichloroethane		5	-	-	-	-	-
Chloroethane		1,000	-	-	-	-	-
Trichlorofluoromethane		10,000	-	-	-	-	-
Bromodichloromethane		5	-	-	-	-	-
Acetone		3,000	-	-	-	-	-
Methyl tert butyl ether		70	-	-	-	6.1	6.1
1,2,3-Trichlorobenzene		NS	-	-	-	-	-
1,2-Dichlorobenzene		600	-	-	-	-	-
1,3-Dichlorobenzene		600	-	-	-	-	-
1,4-Dichlorobenzene		5	-	-	-	-	-
Chlorobenzene		100	-	-	-	-	-
Isopropylbenzene		10,000	-	-	-	-	-
sec-Butylbenzene		NS	-	-	-	-	-
1,3,5-Trimethylbenzene		100	-	-	-	-	-
1,2,4-Trimethylbenzene		10,000	-	-	-	-	-
Naphthalene		20	-	-	-	-	-
Benzene		5	-	-	-	-	-
Toluene		1,000	-	-	-	-	-
Ethylbenzene		700	-	-	-	-	-
Xylenes, p/m-		6,000	-	-	-	-	-

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