

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-1	MW-1	MW-1	MW-1S	MW-1M	MW-1D
	Date Sampled		24-Oct-95	27-May-98	18-Feb-02	10-Jul-02	10-Jul-02	10-Jul-02
	Comments		Peristaltic	Peristaltic	Peristaltic	Low-Flow	Low-Flow	Low-Flow
	Sampling Method							
<b>Organics</b>								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>								
Tetrachloroethene		5	-	-	-	-	-	-
Trichloroethene		5						
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						
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						
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:**

VOC analysis for chlorinated compounds only by EPA Method 8021B.

- = Analytical result below the method detection limit.

NS = No Standard

NA = Not Analyzed

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

Bold data indicates exceedence of RCGW-1

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Parameter	Sample I.D. Date Sampled Comments	Reportable Concentrations GW-1	MW-10 27-May-98	MW-10 18-Nov-98	MW-10 28-Jul-99	MW-10* 6-Apr-00	MW-10* 28-Aug-01	MW-10* 4-Mar-02
	Sampling Method		Bailer	Bailer	Bailer	Bailer	Bailer	Diffusion Bag
<b>Organics</b>								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>								
			-	-	-	-	-	-
		5						
		5						
		70						
		100						
		2						
		200						
		70						
		1						
		5						
		2						
		5				NA	NA	NA
		1,000				NA	NA	NA
		10,000						
		5				NA	NA	NA
		3,000				NA	NA	NA
		70				NA	NA	NA
		NS				NA	NA	NA
		600						
		600						
		5						
		100						
		10,000				NA	NA	NA
		NS				NA	NA	NA
		100				NA	NA	NA
		10,000				NA	NA	NA
		20				NA	NA	NA
		5				NA	NA	NA
		1,000				NA	NA	NA
		700				NA	NA	NA
		6,000				NA	NA	NA

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-TP-3 6-Aug-96	MW-TP-3 27-May-98	MW-TP-3 18-Nov-98	MW-TP-3* 29-Jul-99	MW-TP-3* 6-Apr-00	MW-TP-3* 29-Aug-01	MW-TP-3* 1-Mar-02
			Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Diffusion Bag
<b>Organics</b>									
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>									
Tetrachloroethene		5	-	-	-	2.0	-	1.3	2.2
Trichloroethene		5	<b>9.2</b>	-	1.4	<b>23</b>	4.2	<b>12</b>	<b>16</b>
cis-1,2-Dichloroethene		70	18	1.7	2.5	35	7.7	16	18
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	-	-	-	NA	NA	NA	NA
Chloroethane		1,000	-	-	-	NA	NA	NA	NA
Trichlorofluoromethane		10,000	-	-	-	-	-	-	-
Bromodichloromethane		5	-	-	-	NA	NA	NA	NA
Acetone		3,000	-	-	-	NA	NA	NA	NA
Methyl tert butyl ether		70	-	-	-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		NS	2.8	130	79	NA	NA	NA	NA
1,2-Dichlorobenzene		600	-	14	10	-	4.2	-	-
1,3-Dichlorobenzene		600	-	-	-	-	-	-	-
1,4-Dichlorobenzene		5	-	-	-	-	4.0	-	-
Chlorobenzene		100	-	-	-	-	2.1	-	-
Isopropylbenzene		10,000	-	-	-	NA	NA	NA	NA
sec-Butylbenzene		NS	-	-	-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		100	-	-	-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		10,000	-	-	-	NA	NA	NA	NA
Naphthalene		20	-	-	-	NA	NA	NA	NA
Benzene		5	-	-	-	NA	NA	NA	NA
Toluene		1,000	-	-	-	NA	NA	NA	NA
Ethylbenzene		700	-	-	-	NA	NA	NA	NA
Xylenes		6,000	-	-	-	NA	NA	NA	NA

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**Wayland, Massachusetts**

Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	HA-101 18-Nov-98 Bailer	HA-101 28-Jul-99 Bailer	HA-101* 6-Apr-00 Bailer	HA-101* 28-Aug-01 Bailer	HA-101* 4-Mar-02 Diffusion Bag
<b>Organics</b>							
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>							
Tetrachloroethene		5	-	-	-	-	-
Trichloroethene		5				0.71	
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				-	
1,1,2,2-Tetrachloroethane		2				-	
1,2-Dichloroethane		5			NA	NA	NA
Chloroethane		1,000			NA	NA	NA
Trichlorofluoromethane		10,000				-	
Bromodichloromethane		5			NA	NA	NA
Acetone		3,000			NA	NA	NA
Methyl tert butyl ether		70			NA	NA	NA
1,2,3-Trichlorobenzene		NS			NA	NA	NA
1,2-Dichlorobenzene		600				-	
1,3-Dichlorobenzene		600				-	
1,4-Dichlorobenzene		5				-	
Chlorobenzene		100				-	
Isopropylbenzene		10,000			NA	NA	NA
sec-Butylbenzene		NS			NA	NA	NA
1,3,5-Trimethylbenzene		100			NA	NA	NA
1,2,4-Trimethylbenzene		10,000			NA	NA	NA
Naphthalene		20			NA	NA	NA
Benzene		5			NA	NA	NA
Toluene		1,000			NA	NA	NA
Ethylbenzene		700			NA	NA	NA
Xylenes		6,000			NA	NA	NA

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	HA-102 18-Nov-98	HA-102* 28-Jul-99	HA-102* 6-Apr-00	HA-102* 10-Jul-00	HA-102 12-Oct-00	HA-102* 28-Aug-01	HA -102* 4-Mar-02
			Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Diffusion Bag
<b>Organics</b>									
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>									
Tetrachloroethene		5	3.0	4.4	<b>5.4</b>	2.9	3	2.6	-
Trichloroethene		5	<b>6.3</b>	<b>13</b>	<b>17</b>	<b>11</b>	<b>11</b>	<b>8.4</b>	1.6
cis-1,2-Dichloroethene		70	-	-	-	-	-	-	-
trans-1,2-Dichloroethene		100	-	-	-	-	-	-	-
Vinyl Chloride		2	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	-	-	-	-	0.5	-	-
1,1-Dichloroethane		70	-	-	-	-	-	-	-
1,1-Dichloroethene		1	-	-	-	-	-	-	-
Chloroform		5	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane		2	-	-	-	-	-	-	-
1,2-Dichloroethane		5	-	NA	NA	NA	-	NA	NA
Chloroethane		1,000	-	NA	NA	NA	-	NA	NA
Trichlorofluoromethane		10,000	-	-	-	-	-	-	-
Bromodichloromethane		5	-	NA	NA	NA	-	NA	NA
Acetone		3,000	-	NA	NA	NA	-	NA	NA
Methyl tert butyl ether		70	-	NA	NA	NA	-	NA	NA
1,2,3-Trichlorobenzene		NS	-	NA	NA	NA	-	NA	NA
1,2-Dichlorobenzene		600	-	-	-	-	-	-	-
1,3-Dichlorobenzene		600	-	-	-	-	-	-	-
1,4-Dichlorobenzene		5	-	-	-	-	-	-	-
Chlorobenzene		100	-	-	-	-	-	-	-
Isopropylbenzene		10,000	-	NA	NA	NA	-	NA	NA
sec-Butylbenzene		NS	-	NA	NA	NA	-	NA	NA
1,3,5-Trimethylbenzene		100	-	NA	NA	NA	-	NA	NA
1,2,4-Trimethylbenzene		10,000	-	NA	NA	NA	-	NA	NA
Naphthalene		20	-	NA	NA	NA	-	NA	NA
Benzene		5	-	NA	NA	NA	-	NA	NA
Toluene		1,000	-	NA	NA	NA	-	NA	NA
Ethylbenzene		700	-	NA	NA	NA	-	NA	NA
Xylenes		6,000	-	NA	NA	NA	-	NA	NA

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	HA-103 18-Nov-98 Bailer	HA-103 29-Jul-99 Bailer	HA-103* 6-Apr-00 Bailer	HA-103* 10-Jul-00 Bailer	HA-103* 28-Aug-01 Bailer	HA-103* 4-Mar-02 Diffusion Bag
<b>Organics</b>								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>			-	-	-	-	-	-
Tetrachloroethene		5						
Trichloroethene		5						
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						
1,1,2,2-Tetrachloroethane		2						
1,2-Dichloroethane		5			NA	NA	NA	NA
Chloroethane		1,000			NA	NA	NA	NA
Trichlorofluoromethane		10,000						
Bromodichloromethane		5			NA	NA	NA	NA
Acetone		3,000			NA	NA	NA	NA
Methyl tert butyl ether		70			NA	NA	NA	NA
1,2,3-Trichlorobenzene		NS			NA	NA	NA	NA
1,2-Dichlorobenzene		600						
1,3-Dichlorobenzene		600						
1,4-Dichlorobenzene		5						
Chlorobenzene		100						
Isopropylbenzene		10,000			NA	NA	NA	NA
sec-Butylbenzene		NS			NA	NA	NA	NA
1,3,5-Trimethylbenzene		100			NA	NA	NA	NA
1,2,4-Trimethylbenzene		10,000			NA	NA	NA	NA
Naphthalene		20			NA	NA	NA	NA
Benzene		5			NA	NA	NA	NA
Toluene		1,000			NA	NA	NA	NA
Ethylbenzene		700			NA	NA	NA	NA
Xylenes		6,000			NA	NA	NA	NA

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	HA-104 27-May-98 Bailer	HA-104 18-Nov-98 Bailer	HA-104* 6-Apr-00 Bailer	HA-104* 11-Jul-00 Bailer	HA-104* 28-Aug-01 Bailer	HA-104* 4-Mar-02 Diffusion Bag
<b>Organics</b>								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>								
Tetrachloroethene		5	<b>39</b>	<b>11</b>	<b>36</b>	<b>24</b>	4.0	<b>9.6</b>
Trichloroethene		5	<b>36</b>	<b>47</b>	<b>69</b>	<b>18</b>	<b>5.2</b>	<b>14</b>
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	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane		2	-	-	-	-	-	-
1,2-Dichloroethane		5	-	-	NA	NA	NA	NA
Chloroethane		1,000	-	-	NA	NA	NA	NA
Trichlorofluoromethane		10,000	-	-	-	-	-	-
Bromodichloromethane		5	-	-	NA	NA	NA	NA
Acetone		3,000	-	-	NA	NA	NA	NA
Methyl tert butyl ether		70	-	-	NA	NA	NA	NA
1,2,3-Trichlorobenzene		NS	-	-	NA	NA	NA	NA
1,2-Dichlorobenzene		600	-	-	-	-	-	-
1,3-Dichlorobenzene		600	-	-	-	-	-	-
1,4-Dichlorobenzene		5	-	-	-	-	-	-
Chlorobenzene		100	-	-	-	-	-	-
Isopropylbenzene		10,000	-	-	NA	NA	NA	NA
sec-Butylbenzene		NS	-	-	NA	NA	NA	NA
1,3,5-Trimethylbenzene		100	-	-	NA	NA	NA	NA
1,2,4-Trimethylbenzene		10,000	-	-	NA	NA	NA	NA
Naphthalene		20	-	-	NA	NA	NA	NA
Benzene		5	-	-	NA	NA	NA	NA
Toluene		1,000	-	-	NA	NA	NA	NA
Ethylbenzene		700	-	-	NA	NA	NA	NA
Xylenes		6,000	-	-	NA	NA	NA	NA

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