

**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area												Pre-Pilot Concentration Range	
				MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S		
				Baseline I 27-Aug-01	12-Dec-01	18-Feb-02	4-Mar-02	11-Apr-02	06-Jun-02	11-Nov-02	12-Feb-03	12-Feb-03	MW-43S DUP-1	Week 23 25-Apr-03	Week 37 30-Jul-03		Week 46 30-Sep-03
<b>Organics</b>																	
<b>Volatile Organic Compounds (µg/L)</b>																	
Tetrachloroethene		5	5	<b>5.8</b>	-	-	-	-	-	2.4	2.5	-	-	0.55	0.75	1.2	ND - 7.4
Trichloroethene		5	5	<b>290</b>	-	-	-	-	-	2.7	<b>150</b>	-	-	<b>14</b>	<b>8.2</b>	<b>28</b>	170 - 600
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	-	2.6	-	-	-	-	-	ND - 9.6
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	0.84	0.87	1.5	-	-	-
Bromoform		5	5	-	-	-	-	-	-	17	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	-	-	1.1	1.2	2.1	-	-	-
Total VOCs:		NA	NA	296	-	-	-	-	-	22	155	1	1	16	9	29	170 - 617
<b>Inorganics</b>																	
<b>Dissolved Metals (mg/L)</b>																	
Chromium		0.1	0.1	0.01	NS	NS	NS	NS	NS	NS	0.08	NS	NS	0.03	NS	NS	NA
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-	-	-	NS	-	-	-	-	-	-
Manganese		NA	NA	-	-	-	-	-	-	-	-	-	4.3	-	-	-	-
Sodium		NA	NA	NS	-	-	-	-	-	-	330	-	-	90	-	-	-
<b>Other Ions</b>																	
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	NS	NS	340	NS	NS	39	NS	NS	NA
Fluoride (mg/L)		NA	NA	1.2	-	-	-	-	-	-	NS	-	-	NS	-	-	-

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area												Pre-Pilot Concentration Range	
				MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D	MW-43D		
				Baseline I 27-Aug-01	12-Dec-01	18-Feb-02	01-Mar-02	11-Apr-02	06-Jun-02	Baseline II 11-Nov-02	Week 13 12-Feb-03	MW-43D MS/MSD 12-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	MW-43D DUP 30-Jul-03		Week 46 30-Sep-03
<b>Organics</b>																	
<b>Volatile Organic Compounds (µg/L)</b>																	
Tetrachloroethene		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	ND - 0.78
Trichloroethene		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCs:		NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	ND - 0.78
<b>Inorganics</b>																	
<b>Dissolved Metals (mg/L)</b>																	
Chromium		0.1	0.1	NS	NS	NS	NS	NS	NS	-	NS	NS	-	-	-	-	NA
Hexavalent Chromium		0.05	0.05	-	-	-	-	-	-	NS	-	-	-	-	-	-	-
Manganese		NA	NA	-	-	-	-	-	-	-	-	0.04	-	-	-	-	-
Sodium		NA	NA	-	-	-	-	-	-	17	-	-	19	18	17	17	-
<b>Other Ions</b>																	
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	NS	61	NS	NS	50	58	57	54	NA
Fluoride (mg/L)		NA	NA	-	-	-	-	-	-	NS	-	-	NS	NS	NS	NS	-

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area									
				MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104
				Baseline I 27-Aug-01	12-Dec-01	18-Feb-02	11-Apr-02	06-Jun-02	Baseline II 11-Nov-02	Week 13 12-Feb-03	Week 23 25-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>													
<b>Volatile Organic Compounds (µg/L)</b>													
Tetrachloroethene		5	5	-	-	-	-	1.3	3.1	-	0.58	1.5	1.6
Trichloroethene		5	5	<b>290</b>	-	-	-	<b>37</b>	<b>130</b>	3.2	<b>13</b>	<b>19</b>	<b>21</b>
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	1.6	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	0.89	1.5	0.55	0.63
Bromoform		5	5	-	<b>34</b>	-	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	1.1	2.0	0.86	0.94
Total VOCs:		NA	NA	290	34	-	-	38	135	4	15	21	23
<b>Inorganics</b>													
<b>Dissolved Metals (mg/L)</b>													
Chromium		0.1	0.1	-	NA	NA	NA	NA	0.56	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-	NS	-	-	-	-
Manganese		NA	NA	0.58	-	-	-	-	-	-	-	-	-
Sodium		NA	NA	NS	-	-	-	-	290	-	-	-	-
<b>Other Ions</b>													
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	200	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA	0.43	-	-	-	-	NS	-	-	-	-

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area												
				MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	
				Baseline I 27-Aug-01	DUP-1 27-Aug-01						Baseline II 11-Nov-02	Week 13 12-Feb-03	DUP-2 12-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>																
<b>Volatile Organic Compounds (µg/L)</b>																
Tetrachloroethene	5	5	5	1.8	1.8	-	2.5	2.8	-	3.9	-	-	0.71	0.68	1.2	1.2
Trichloroethene	5	5	5	<b>60</b>	<b>66</b>	<b>82</b>	<b>140</b>	<b>140</b>	<b>170</b>	<b>190</b>	<b>15</b>	<b>26</b>	<b>17</b>	<b>11</b>	<b>35</b>	<b>35</b>
cis-1,2 Dichloroethene	70	70	70	12	12	1.6	4.0	3.9	-	-	-	-	-	-	0.97	0.95
Vinyl Chloride	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	200	200	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	70	70	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	1	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	10,000	NA	NA	-	-	-	-	1.7	-	-	-	-	-	-	-	-
Dibromochloromethane	NA	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	5	5	5	-	-	-	-	-	-	-	-	0.62	-	-	-	-
Bromoform	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	5	5	5	-	-	-	-	-	-	-	-	0.81	-	-	-	-
Total VOCs:	NA	NA	NA	74	80	84	147	148	170	194	15	26	18	12	37	37
<b>Inorganics</b>																
<b>Dissolved Metals (mg/L)</b>																
Chromium	0.1	0.1	0.1	-	-	NS	NS	NS	NS	0.01	NS	NS	NS	NS	<b>0.37</b>	<b>0.36</b>
Hexavalent Chromium	0.05	0.05	0.05	NS	NS					NS					<b>0.40</b>	<b>0.39</b>
Manganese	NA	NA	NA	0.76	0.82					-					0.06	0.06
Sodium	NA	NA	NA	NS	NS					220					330	340
<b>Other Ions</b>																
Chloride (mg/L)	NA	NA	NA	NS	NS	NS	NS	NS	NS	88	NS	NS	NS	NS	220	220
Fluoride (mg/L)	NA	NA	NA	0.73	0.76					NS					NS	NS

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area				
				MW-105M	MW-105M	MW-105M	MW-105M	MW-105M
				Baseline 11-Nov-02	Week 13 12-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	1.0	-	-	-	-
Trichloroethene		5	5	<b>37</b>	-	1.0	-	1.1
cis-1,2 Dichloroethene		70	70	7.8	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	0.87	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	1.2	-	-
Total VOCs:		NA	NA	46	-	2	-	1
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.09	-	-	-	-
Sodium		NA	NA	46	-	-	-	-
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	84	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA	NS	-	-	-	-

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area										
				MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106
				Baseline I 27-Aug-01	12-Dec-01	18-Feb-02	11-Apr-02	06-Jun-02	MW-106 DUP-1 06-Jun-02	Baseline II 11-Nov-02	Week 13 12-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>														
<b>Volatile Organic Compounds (µg/L)</b>														
Tetrachloroethene		5	5	3.3	-	-	-	-	1.9	3.1	-	1.8	0.98	0.98
Trichloroethene		5	5	<b>160</b>	<b>120</b>	<b>100</b>	<b>96</b>	<b>69</b>	<b>79</b>	<b>120</b>	<b>5.7</b>	<b>48</b>	<b>16</b>	<b>10</b>
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	4.1	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	-	-	-	0.61	-
Total VOCs:		NA	NA	163	120	100	96	69	81	127	6	50	17	11
<b>Inorganics</b>														
<b>Dissolved Metals (mg/L)</b>														
Chromium		0.1	0.1	-	NS	NS	NS	NS	NS	-	NS	-	NS	NS
Hexavalent Chromium		0.05	0.05	NS						NS				
Manganese		NA	NA	0.52						0.01				
Sodium		NA	NA	NS						260		130		
<b>Other Ions</b>														
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	NS	180	NS	37	NS	NS
Fluoride (mg/L)		NA	NA	0.3						NS		NS		

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				MW-106M	MW-106M	MW-106M	MW-106M	MW-106M
				Baseline 11-Nov-02	Week 13 12-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	3.1	-	1.1	0.55	-
Trichloroethene		5	5	<b>130</b>	<b>17</b>	<b>25</b>	0.98	-
cis-1,2 Dichloroethene		70	70	3.8	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	0.54	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	<b>0.66</b>	-	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	<b>0.80</b>	0.53	-	-
Total VOCs:		NA	NA	137	18	26	2	-
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05	NS				
Manganese		NA	NA	0.19				
Sodium		NA	NA	250				
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	130	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA	NS				

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Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area				
				MW-210	MW-210	MW-210	MW-210	MW-210
				Baseline 11-Nov-02	Week 13 12-Feb-03	Week 23 25-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	3.3	-	-	-	0.5
Trichloroethene		5	5	<b>160</b>	-	<b>6.1</b>	2.2	<b>6.6</b>
cis-1,2 Dichloroethene		70	70	6.1	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	0.87	0.64	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	1.0	0.90	-
Total VOCs:		NA	NA	169	-	7	3	7
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05	NS				
Manganese		NA	NA	0.09				
Sodium		NA	NA	290				
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	180	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA	NS				

**Notes:**

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NS = Not Sampled

Bold values exceed of RCGW-1 or Method 1 GW-1 Standards



**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area					
				MW-212	MW-212	MW-212	MW-212	MW-212	MW-212
				Baseline 11-Nov-02	Week 13 12-Feb-03	Week 23 24-Apr-03	Week 37 29-Jul-03	Week 46 30-Sep-03	Week 46 DUP 30-Sep-03
<b>Organics</b>									
<b>Volatile Organic Compounds (µg/L)</b>									
Tetrachloroethene		5	5	0.95	-	-	-	-	-
Trichloroethene		5	5	<b>37</b>	-	0.57	-	0.77	0.55
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	3.8	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	1.2	-	-	-
Bromoform		5	5	-	-	-	-	-	-
Chloroform		5	5	-	-	1.6	-	-	-
Total VOCs:		NA	NA	42	-	2	-	1	1
<b>Inorganics</b>									
<b>Dissolved Metals (mg/L)</b>									
Chromium		0.1	0.1	NS	NS	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05						
Manganese		NA	NA						
Sodium		NA	NA						
<b>Other Ions</b>									
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA						

**Notes:**

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Bold values exceed of RCGW-1 or Method 1 GW-1 Standards

**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells in MW-43 Pilot Area				
				MW-212M	MW-212M	MW-212M	MW-212M	MW-212M
				Baseline 11-Nov-02	Week 13 12-Feb-03	Week 23 24-Apr-03	Week 37 29-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	1.8	-	-	-	-
Trichloroethene		5	5	<b>17</b>	-	-	-	-
cis-1,2 Dichloroethene		70	70	<b>25</b>	-	-	-	-
Vinyl Chloride		2	2	<b>2.6</b>	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	0.85	0.82	1.3	0.74
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	0.94	1.2	2.0	1.2
Total VOCs:		NA	NA	46	1	1	1	1
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	NS	NS	NS
Hexavalent Chromium		0.05	0.05	NS				
Manganese		NA	NA	3.5				
Sodium		NA	NA	64				
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	88	NS	NS	NS	NS
Fluoride (mg/L)		NA	NA	NS				

**Notes:**

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Upgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Upgradient of MW-43 Pilot Area					
				MW-44S	MW-44S	MW-44S DUP-1	MW-44S	MW-44S	MW-44S
				Baseline 12-Nov-02	Week 13 11-Feb-03	11-Feb-03	Week 23 28-Apr-03	Week 37 29-Jul-03	Week 46 01-Oct-03
<b>Organics</b>									
<b>Volatile Organic Compounds (µg/L)</b>									
Tetrachloroethene		5	5	-	-	-	-	-	-
Trichloroethene		5	5	0.92	0.53	0.60	0.83	0.78	0.53
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	1.2	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	0.54	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-
Total VOCs:		NA	NA	1	1	1	3	1	1
<b>Inorganics</b>									
<b>Dissolved Metals (mg/L)</b>									
Chromium		0.1	0.1	-	NS	NS	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-	-
Manganese		NA	NA	-	-	-	0.26	0.02	-
Sodium		NA	NA	85	-	-	100	62	54
<b>Other Ions</b>									
Chloride (mg/L)		NA	NA	120	NS	NS	110	71	69
Fluoride (mg/L)		NA	NA	NS	-	-	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Upgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Upgradient of MW-43 Pilot Area				
				MW-44M	MW-44M	MW-44M	MW-44M	MW-44M
				Baseline 12-Nov-02	Week 13 11-Feb-03	Week 23 28-Apr-03	Week 37 29-Jul-03	Week 46 01-Oct-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	-	-	-	-	-
Trichloroethene		5	5	-	-	-	-	-
cis-1,2 Dichloroethene		70	70	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	0.84	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-
Total VOCs:		NA	NA	-	-	-	1	-
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.79	-	0.67	1.5	1.4
Sodium		NA	NA	19	-	4.6	37	39
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	52	NS	12	68	69
Fluoride (mg/L)		NA	NA	NS	-	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Upgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Upgradient of MW-43 Pilot Area			
				MW-44D	MW-44D	MW-44D	MW-44D
				Baseline 12-Nov-02	Week 23 28-Apr-03	Week 37 29-Jul-03	Week 46 01-Oct-03
<b>Organics</b>							
<b>Volatile Organic Compounds (µg/L)</b>							
Tetrachloroethene		5	5	-	-	-	-
Trichloroethene		5	5				
cis-1,2 Dichloroethene		70	70				
Vinyl Chloride		2	2				
1,1,1-Trichloroethane		200	200				
1,1-Dichloroethane		70	70				
1,1-Dichloroethene		1	7				
1,2 -Dichlorobenzene		600	600				
1,4 -Dichlorobenzene		5	5				
Trichlorofluoromethane		10,000	NA				
Dibromochloromethane		NA	5				
Bromodichloromethane		5	5				
Bromoform		5	5				
Chloroform		5	5				
Total VOCs:		NA	NA	-	-	-	-
<b>Inorganics</b>							
<b>Dissolved Metals (mg/L)</b>							
Chromium		0.1	0.1	-	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-
Manganese		NA	NA	-	0.01	0.02	0.01
Sodium		NA	NA	18	2.2	18	18
<b>Other Ions</b>							
Chloride (mg/L)		NA	NA	60	4.4	57	58
Fluoride (mg/L)		NA	NA	NS	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Crossgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Crossgradient of MW-43 Pilot Area				
				MW-209	MW-209	MW-209	MW-209	MW-209
				Baseline 11-Nov-02	Week 13 11-Feb-03	Week 23 22-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	0.88	-	-	0.60	0.51
Trichloroethene		5	5	<b>11</b>	<b>8.4</b>	<b>8.0</b>	<b>6.4</b>	<b>5.2</b>
cis-1,2 Dichloroethene		70	70	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-
Total VOCs:		NA	NA	12	8	8	7	6
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.01	-	-	-	-
Sodium		NA	NA	190	-	150	140	150
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	150	NS	330	330	260
Fluoride (mg/L)		NA	NA	NS	-	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Crossgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Crossgradient of MW-43 Pilot Area				
				MW-211	MW-211	MW-211	MW-211	MW-211
				Baseline 11-Nov-02	Week 13 11-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 30-Sep-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	1.1	2.0	-	-	-
Trichloroethene		5	5	<b>9.1</b>	<b>23</b>	1.7	0.68	0.97
cis-1,2 Dichloroethene		70	70	22	42	-	-	-
Vinyl Chloride		2	2	<b>4.1</b>	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	3.2	-	-	-
1,4 -Dichlorobenzene		5	5	-	1.8	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-
Total VOCs:		NA	NA	36	72	2	1	1
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.32	-	0.03	0.01	0.01
Sodium		NA	NA	450	-	130	140	110
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	340	NS	260	220	89
Fluoride (mg/L)		NA	NA	NS	-	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area							
				MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	
				Baseline I 28-Aug-01	11-Apr-02	06-Jun-02	Baseline II 12-Nov-02	Week 23 22-Apr-03	Week 37 29-Jul-03	MW-101 DUP Week 37 29-Jul-03	MW-101 Week 46 2-Oct-03
<b>Organics</b>											
<b>Volatile Organic Compounds (µg/L)</b>											
Tetrachloroethene		5	5	-	1.0	0.81	-	-	-	-	-
Trichloroethene		5	5	2.3	<b>20</b>	2.3	0.83	<b>7.3</b>	2.0	2.1	2.0
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	4.8	4.8	-	1.6	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	-	-
Total VOCs:		NA	NA	2	26	8	1	9	2	2	2
<b>Inorganics</b>											
<b>Dissolved Metals (mg/L)</b>											
Chromium		0.1	0.1	0.02	NS	NS	-	<b>0.36</b>	<b>0.22</b>	<b>0.22</b>	0.10
Hexavalent Chromium		0.05	0.05	NS			NS	<b>0.33</b>	<b>0.23</b>	<b>0.22</b>	<b>0.11</b>
Manganese		NA	NA	0.16			0.20	0.64	0.02	0.02	0.04
Sodium		NA	NA	NS			29	57	49	48	50
<b>Other Ions</b>											
Chloride (mg/L)		NA	NA	NS	NS		37	55	49	49	66
Fluoride (mg/L)		NA	NA	0.2			NS	NS	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area								
				MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	
				Baseline I 27-Aug-01	11-Apr-02	06-Jun-02	Baseline II 11-Nov-02	Week 13 11-Feb-02	Week 23 22-Apr-03	MW-102 DUP 22-Apr-03	Week 37 29-Jul-03	Week 46 30-Sep-03
<b>Organics</b>												
<b>Volatile Organic Compounds (µg/L)</b>												
Tetrachloroethene		5	5	-	-	-	-	-	-	-	-	1.0
Trichloroethene		5	5	<b>500</b>	<b>570</b>	<b>670</b>	<b>640</b>	<b>790</b>	<b>760</b>	<b>710</b>	<b>31</b>	<b>490</b>
cis-1,2 Dichloroethene		70	70	-	-	11	15	-	-	-	-	14
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	1.7
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	<b>6.5</b>
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-	-	-	-	1.4
Total VOCs:		NA	NA	500	570	681	655	790	760	710	31	513
<b>Inorganics</b>												
<b>Dissolved Metals (mg/L)</b>												
Chromium		0.1	0.1	-	NS	NS	-	NS	-	-	-	-
Hexavalent Chromium		0.05	0.05	NS			NS		-	-	-	-
Manganese		NA	NA	0.69			0.07		0.06	0.06	0.07	0.07
Sodium		NA	NA	NS			54		65	65	68	67
<b>Other Ions</b>												
Chloride (mg/L)		NA	NA	NS	NS	NS	350	NS	320	320	320	320
Fluoride (mg/L)		NA	NA	-			NS		NS	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area									
				MW-103	MW-103	MW-103 DUP-1	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103
				Baseline I 27-Aug-01	11-Apr-02	11-Apr-02	6-Jun-02	Baseline II 11-Nov-02	Week 13 11-Feb-03	Week 23 22-Apr-03	Week 37 29-Jul-03	Week 46 30-Sep-03	
<b>Organics</b>													
<b>Volatile Organic Compounds (µg/L)</b>													
Tetrachloroethene		5	5	0.65	0.59	0.73	-	0.63	-	1.0	0.89	0.72	
Trichloroethene		5	5	<b>5.9</b>	<b>6.2</b>	<b>7.3</b>	4.4	<b>5.4</b>	<b>7.9</b>	<b>6.2</b>	4.9	4.6	
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	-	-	-	
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	0.71	1.1	-	-	
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-	
Bromoform		5	5	-	-	-	-	-	-	-	-	-	
Chloroform		5	5	-	-	-	-	-	-	-	-	-	
Total VOCs:		NA	NA	7	7	8	4	6	9	8	6	5	
<b>Inorganics</b>													
<b>Dissolved Metals (mg/L)</b>													
Chromium		0.1	0.1	-	NS	NS	NS	-	NS	-	-	-	
Hexavalent Chromium		0.05	0.05	NS	-	-	-	NS	-	-	-	-	
Manganese		NA	NA	0.60	-	-	-	-	-	-	-	-	
Sodium		NA	NA	NS	-	-	-	300	-	260	230	220	
<b>Other Ions</b>													
Chloride (mg/L)		NA	NA	NS	NS	NS	-	NS	-	260	210	180	
Fluoride (mg/L)		NA	NA	-	-	-	-	NS	NS	NS	NS	NS	

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area									
				MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107
				Baseline I 28-Aug-01	13-Nov-01	11-Dec-01	15-Jan-02	Baseline II 12-Nov-02	Week 13 11-Feb-03	Week 23 22-Apr-03	Week 37 28-Jul-03	Week 46 2-Oct-03	
<b>Organics</b>													
<b>Volatile Organic Compounds (µg/L)</b>													
Tetrachloroethene		5	5	-	-	-	-	-	-	-	-	-	
Trichloroethene		5	5	<b>34</b>	<b>65</b>	<b>68</b>	<b>65</b>	<b>72</b>	<b>98</b>	<b>88</b>	<b>78</b>	<b>74</b>	
cis-1,2 Dichloroethene		70	70	2.0	3.4	2.6	2.2	2.8	2.9	2.7	3.2	3.5	
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-	
Bromoform		5	5	-	-	-	-	-	-	-	-	-	
Chloroform		5	5	-	-	-	-	-	-	-	-	-	
Total VOCs:		NA	NA	36	68	71	67	75	101	91	81	78	
<b>Inorganics</b>													
<b>Dissolved Metals (mg/L)</b>													
Chromium		0.1	0.1	NS	NS	NS	NS		NS				
Hexavalent Chromium		0.05	0.05					NS					
Manganese		NA	NA					4.6		4.6	4.7	4.5	
Sodium		NA	NA					37		42	44	42	
<b>Other Ions</b>													
Chloride (mg/L)		NA	NA	NS	NS	NS	NS		NS				
Fluoride (mg/L)		NA	NA					250		240	240	250	
								NS		NS	NS	NS	

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area									
				MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108
				Baseline I 28-Aug-01	13-Nov-01	11-Dec-01	15-Jan-02	Baseline II 12-Nov-02	Week 13 11-Feb-03	Week 23 22-Apr-03	Week 37 28-Jul-03	Week 46 2-Oct-03	
<b>Organics</b>													
<b>Volatile Organic Compounds (µg/L)</b>													
Tetrachloroethene		5	5	-	-	-	1.4	1.2	-	-	-	-	
Trichloroethene		5	5	1.4	3.7	4.6	<b>8.2</b>	<b>6.4</b>	-	-	-	-	
cis-1,2 Dichloroethene		70	70	-	-	-	-	-	-	-	-	-	
Vinyl Chloride		2	2	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane		200	200	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane		70	70	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene		1	7	-	-	-	-	-	-	-	-	-	
1,2 -Dichlorobenzene		600	600	-	-	-	-	-	-	-	-	-	
1,4 -Dichlorobenzene		5	5	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane		10,000	NA	-	-	-	-	-	-	-	-	-	
Dibromochloromethane		NA	5	-	-	-	-	-	-	-	-	-	
Bromodichloromethane		5	5	-	-	-	-	-	-	-	-	-	
Bromoform		5	5	-	-	-	-	-	-	-	-	-	
Chloroform		5	5	-	-	-	-	-	-	-	-	-	
Total VOCs:		NA	NA	1	4	5	10	8	-	-	-	-	
<b>Inorganics</b>													
<b>Dissolved Metals (mg/L)</b>													
Chromium		0.1	0.1	NS	NS	NS	NS	-	NS	0.01	-	-	
Hexavalent Chromium		0.05	0.05	-	-	-	-	NS	-	-	-	-	
Manganese		NA	NA	-	-	-	-	0.64	0.09	0.11	0.12	-	
Sodium		NA	NA	-	-	-	-	65	66	23	28	-	
<b>Other Ions</b>													
Chloride (mg/L)		NA	NA	NS	NS	NS	NS	NS	NS	27	21	44	
Fluoride (mg/L)		NA	NA	-	-	-	-	NS	NS	NS	NS	NS	

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area				
				MW-117	MW-117	MW-117	MW-117	MW-117
				Baseline 3-Dec-02	Week 13 17-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 03-Oct-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	2.1	-	-	-	-
Trichloroethene		5	5	<b>30</b>	-	3.7	2.4	2.0
cis-1,2 Dichloroethene		70	70	4.2	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	1.3	-	-	0.65
Bromodichloromethane		5	5	-	2.4	3.2	3.6	1.8
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	2.4	<b>5.1</b>	<b>5.7</b>	4.8
Total VOCs:		NA	NA	36	4	7	6	4
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	0.01	NS			-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.07	-	-	-	-
Sodium		NA	NA	190	-	64	64	70
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	250	NS			55
Fluoride (mg/L)		NA	NA	NS	-	NS	NS	56

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area				
				MW-118	MW-118	MW-118	MW-118	MW-118
				Baseline 3-Dec-02	Week 13 17-Feb-03	Week 23 24-Apr-03	Week 37 30-Jul-03	Week 46 03-Oct-03
<b>Organics</b>								
<b>Volatile Organic Compounds (µg/L)</b>								
Tetrachloroethene		5	5	-	1.1	-	-	-
Trichloroethene		5	5	<b>72</b>	<b>130</b>	<b>150</b>	<b>120</b>	<b>110</b>
cis-1,2 Dichloroethene		70	70	1.0	2.2	1.3	-	1.4
Vinyl Chloride		2	2	-	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-	-
1,1-Dichloroethene		1	7	0.53	0.71	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-	-
Bromoform		5	5	-	-	-	-	-
Chloroform		5	5	-	-	-	-	-
Total VOCs:		NA	NA	74	134	151	120	111
<b>Inorganics</b>								
<b>Dissolved Metals (mg/L)</b>								
Chromium		0.1	0.1	-	NS	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-	-
Manganese		NA	NA	0.11	-	0.03	0.01	0.03
Sodium		NA	NA	160	-	100	120	120
<b>Other Ions</b>								
Chloride (mg/L)		NA	NA	88	NS	110	140	170
Fluoride (mg/L)		NA	NA	NS	-	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area			
				MW-213	MW-213	MW-213	MW-213
				Baseline 11-Nov-02	Week 23 22-Apr-03	Week 37 29-Jul-03	Week 46 30-Sep-03
<b>Organics</b>							
<b>Volatile Organic Compounds (µg/L)</b>							
Tetrachloroethene		5	5	1.6	0.89	1.0	1.1
Trichloroethene		5	5	<b>14</b>	<b>12</b>	<b>8.2</b>	<b>9.4</b>
cis-1,2 Dichloroethene		70	70	-	-	-	-
Vinyl Chloride		2	2	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-
1,1-Dichloroethene		1	7	-	-	-	-
1,2 -Dichlorobenzene		600	600	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-
Bromoform		5	5	-	-	-	-
Chloroform		5	5	-	-	-	-
Total VOCs:		NA	NA	16	13	9	11
<b>Inorganics</b>							
<b>Dissolved Metals (mg/L)</b>							
Chromium		0.1	0.1	-	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-
Manganese		NA	NA	0.01	-	-	-
Sodium		NA	NA	230	300	240	220
<b>Other Ions</b>							
Chloride (mg/L)		NA	NA	490	450	350	340
Fluoride (mg/L)		NA	NA	NS	NS	NS	NS

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**Table 6**  
**Groundwater Quality Data**  
**MW-43 Pilot Study Area - Downgradient Wells**  
**Former Raytheon Facility**  
**Wayland, MA**

Parameter	Sample ID Comment Sample Round Sample Date	MCP Reportable Concentrations GW-1	MCP Method 1 GW-1	Wells Downgradient of MW-43 Pilot Area			
				MW-214	MW-214	MW-214	MW-214
				Baseline 11-Nov-02	Week 23 22-Apr-03	Week 37 29-Jul-03	Week 46 2-Oct-03
<b>Organics</b>							
<b>Volatile Organic Compounds (µg/L)</b>							
Tetrachloroethene		5	5	1.4	1.8	0.68	-
Trichloroethene		5	5	<b>83</b>	<b>31</b>	<b>30</b>	<b>77</b>
cis-1,2 Dichloroethene		70	70	3.6	0.63	1.2	4.6
Vinyl Chloride		2	2	-	-	-	-
1,1,1-Trichloroethane		200	200	-	-	-	-
1,1-Dichloroethane		70	70	-	-	-	-
1,1-Dichloroethene		1	7	<b>3.0</b>	-	<b>1.1</b>	<b>3.8</b>
1,2 -Dichlorobenzene		600	600	-	-	-	-
1,4 -Dichlorobenzene		5	5	-	-	-	-
Trichlorofluoromethane		10,000	NA	-	-	-	-
Dibromochloromethane		NA	5	-	-	-	-
Bromodichloromethane		5	5	-	-	-	-
Bromoform		5	5	-	-	-	-
Chloroform		5	5	-	-	-	-
Total VOCs:		NA	NA	91	33	33	85
<b>Inorganics</b>							
<b>Dissolved Metals (mg/L)</b>							
Chromium		0.1	0.1	-	-	-	-
Hexavalent Chromium		0.05	0.05	NS	-	-	-
Manganese		NA	NA	1.0	0.66	0.46	0.99
Sodium		NA	NA	48	83	60	31
<b>Other Ions</b>							
Chloride (mg/L)		NA	NA	150	140	91	120
Fluoride (mg/L)		NA	NA	NS	NS	NS	NS

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