

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-101	MW-101	MW-101	MW-102	MW-102	MW-102	MW-102	MW-103	MW-103	MW-103	MW-103
			28-Aug-01	11-Apr-02	6-Jun-02	27-Aug-01	14-Mar-02	11-Apr-02	06-Jun-02	27-Aug-01	11-Apr-02	11-Apr-02 DUP-1	6-Jun-02
			Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow
Organics													
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>													
Tetrachloroethene		5	-	1.0	0.81	-	-	-	-	0.65	0.59	0.73	-
Trichloroethene		5	2.3	20	2.3	500	630	570	670	5.9	6.2	7.3	4.4
cis-1,2-Dichloroethene		70	-	-	-	-	-	-	11	-	-	-	-
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	NA	NA	NA	NA	NA	NA	NA
Chloroethane		1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane		10,000	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether		70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene		NS	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
sec-Butylbenzene		NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene		100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene		10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene		1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene		700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes		6,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Table 4
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Former Raytheon Facility
Wayland, Massachusetts

Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-104 27-Aug-01 Low-Flow	MW-104 12-Dec-01 Peristaltic	MW-104 18-Feb-02 Peristaltic	MW-104 11-Apr-02 Peristaltic	MW-104 6-Jun-02 Peristaltic
Organics							
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>							
Tetrachloroethene		5	-	-	-	-	1.3
Trichloroethene		5	290				37
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	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

Notes:

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Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-105 27-Aug-01 Low-Flow	MW-105 27-Aug-01 DUP-1 Low-Flow	MW-105 12-Dec-01 Peristaltic	MW-105 18-Feb-02 Peristaltic	MW-105 11-Apr-02 Peristaltic	MW-105 6-Jun-02 Low-Flow
Organics								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>								
Tetrachloroethene		5	1.8	1.8	-	2.5	2.8	-
Trichloroethene		5	60	66	82	140	140	170
cis-1,2-Dichloroethene		70	12	12	1.6	4.0	3.9	-
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	NA	NA
Chloroethane		1,000	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane		10,000	-	-	-	-	1.7	-
Bromodichloromethane		5	NA	NA	NA	NA	NA	NA
Acetone		3,000	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether		70	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene		NS	NA	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	NA
sec-Butylbenzene		NS	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene		100	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene		10,000	NA	NA	NA	NA	NA	NA
Naphthalene		20	NA	NA	NA	NA	NA	NA
Benzene		5	NA	NA	NA	NA	NA	NA
Toluene		1,000	NA	NA	NA	NA	NA	NA
Ethylbenzene		700	NA	NA	NA	NA	NA	NA
Xylenes		6,000	NA	NA	NA	NA	NA	NA

Notes:

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

- = Analytical result below the method detection limit.

NA = Not Analyzed

NS = No Standard

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

Shading indicates exceedence of RCGW-1

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-106	MW-106	MW-106	MW-106	MW-106
	Date Sampled		27-Aug-01	12-Dec-01	18-Feb-02	11-Apr-02	06-Jun-02
	Comments		Low-Flow	Peristaltic	Peristaltic	Peristaltic	Peristaltic
	Sampling Method						
Organics							
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>							
Tetrachloroethene		5	3.3	-	-	-	-
Trichloroethene		5	160	120	100	96	69
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	NA
Chloroethane		1,000	NA	NA	NA	NA	NA
Trichlorofluoromethane		10,000	-	-	-	1.7	-
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

Notes:

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

- = Analytical result below the method detection limit.

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NA = Not Analyzed

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

Bold data indicates exceedence of RCGW-1

Table 4
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Former Raytheon Facility
Wayland, Massachusetts

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-107	MW-107	MW-107	MW-107
	Date Sampled		28-Aug-01	5-Nov-01	11-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	-
Trichloroethene		5	34	65	68	65
cis-1,2-Dichloroethene		70	2.0	3.4	2.6	2.2
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

Notes:

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-108	MW-108	MW-108	MW-108
	Date Sampled		28-Aug-01	13-Nov-01	11-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	1.4
Trichloroethene		5	1.4	3.7	4.6	8.2
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	-	-	-	-
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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Table 4
Summary of Groundwater VOC Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-109	MW-109	MW-109	MW-109
	Date Sampled		28-Aug-01	12-Nov-01	11-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	-
Trichloroethene		5	18	26	35	36
cis-1,2-Dichloroethene		70	1.6	2	2.3	2.8
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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Former Raytheon Facility
Wayland, Massachusetts

Parameter	Sample I.D. Date Sampled Comments Sampling Method	Reportable Concentrations GW-1	MW-110 28-Aug-01 Low-Flow	MW-110 13-Nov-01 Low-Flow	MW-110 11-Dec-01 Low-Flow	MW-110 15-Jan-02 Low-Flow
Organics						
<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

Notes:

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-111	MW-111	MW-111	MW-111
	Date Sampled		28-Aug-01	13-Nov-01	11-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	-
Trichloroethene		5	70	9.3	6.6	4.6
cis-1,2-Dichloroethene		70	-	-	-	-
trans-1,2-Dichloroethene		100	-	-	-	-
Vinyl Chloride		2	-	-	-	-
1,1,1-Trichloroethane		200	24	2	-	-
1,1-Dichloroethane		70	-	-	-	-
1,1-Dichloroethene		1	0.72	-	-	-
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

Notes:

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NS = No Standard

NA = Not Analyzed

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

Bold data indicates exceedence of RCGW-1

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-112	MW-112	MW-112	MW-112
	Date Sampled		28-Aug-01	13-Nov-01	11-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	4.4
Trichloroethene		5	82	47	37	36
cis-1,2-Dichloroethene		70	-	-	-	-
trans-1,2-Dichloroethene		100	-	-	-	-
Vinyl Chloride		2	-	-	-	-
1,1,1-Trichloroethane		200	29	15	12	10
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

Notes:

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

- = Analytical result below the method detection limit.

NA = Not Analyzed

NS = No Standard

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

Bold data indicates exceedence of RCGW-1

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-113 29-Aug-01 Low-Flow	MW-113 13-Nov-01 Low-Flow	MW-113 11-Dec-01 Low-Flow	MW-113 11-Dec-01 Low-Flow	MW-113 15-Jan-02 Low-Flow
Organics							
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>							
Tetrachloroethene		5	-	-	-	-	-
Trichloroethene		5	24	14	14	12	12
cis-1,2-Dichloroethene		70	-	0.9	0.71	-	0.82
trans-1,2-Dichloroethene		100	-	-	-	-	-
Vinyl Chloride		2	-	-	-	-	-
1,1,1-Trichloroethane		200	6.5	0.55	6.5	-	-
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

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

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-114 28-Sep-01 Low-Flow	MW-114 12-Nov-01 Low-Flow	MW-114 10-Dec-01 Low-Flow	MW-114 15-Jan-02 Low-Flow
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene	5	-	-	-	-	-
Trichloroethene	5	23	24	14	16	
cis-1,2-Dichloroethene	70	-	-	-	-	-
trans-1,2-Dichloroethene	100	-	-	-	-	-
Vinyl Chloride	2	-	-	-	-	-
1,1,1-Trichloroethane	200	5.5	8.4	4.2	4.6	
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

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

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

Parameter	Sample I.D.	Reportable Concentrations GW-1	MW-115	MW-115	MW-115	MW-115
	Date Sampled		29-Aug-01	12-Nov-01	10-Dec-01	15-Jan-02
	Comments		Low-Flow	Low-Flow	Low-Flow	Low-Flow
	Sampling Method					
Organics						
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>						
Tetrachloroethene		5	-	-	-	-
Trichloroethene		5	81	60	41	22
cis-1,2-Dichloroethene		70	-	-	-	-
trans-1,2-Dichloroethene		100	-	-	-	-
Vinyl Chloride		2	-	-	-	-
1,1,1-Trichloroethane		200	24	17	10	3.8
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

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

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-116 28-Aug-01 Low-Flow	MW-116 12-Nov-01 Low-Flow	MW-116 12-Nov-01 DUP-1 Low-Flow	MW-116 10-Dec-01 Low-Flow	MW-116 15-Jan-02 Low-Flow	MW-116 15-Jan-02 DUP-1 Low-Flow
Organics								
<i>Volatile Organic Compounds (VOCs) (µg/l)</i>								
Tetrachloroethene		5						
Trichloroethene		5	180	130	120	81	59	74
cis-1,2-Dichloroethene		70						
trans-1,2-Dichloroethene		100						
Vinyl Chloride		2						
1,1,1-Trichloroethane		200	64	44	39	26	19	23
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	NA
Chloroethane	1,000		NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	10,000		-	-	-	-	-	-
Bromodichloromethane	5		NA	NA	NA	NA	NA	NA
Acetone	3,000		NA	NA	NA	NA	NA	NA
Methyl tert butyl ether	70		NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NS		NA	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	NA
sec-Butylbenzene	NS		NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	100		NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	10,000		NA	NA	NA	NA	NA	NA
Naphthalene	20		NA	NA	NA	NA	NA	NA
Benzene	5		NA	NA	NA	NA	NA	NA
Toluene	1,000		NA	NA	NA	NA	NA	NA
Ethylbenzene	700		NA	NA	NA	NA	NA	NA
Xylenes	6,000		NA	NA	NA	NA	NA	NA

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