

## **TABLES**

**Table 3.1  
Summary of 2006 Soil Samples  
Supplemental Site Investigation Report  
Former Gorham Manufacturing Facility  
333 Adelaide Avenue  
Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALS [a]	DIOXINS
BK-2	06-Jun-06	SS-SIBK2	0-0.5 ft		SW8270C			
SS-101	08-Jun-06	SS-SI101	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-202	07-Jun-06	SS-SI202	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-205	08-Jun-06	SS-SI205	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-206	06-Jun-06	SS-SI206	0-0.5 ft		SW8270C	SW8081A / SW8082		8290
SS-207	06-Jun-06	SS-SI207	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-208	06-Jun-06	SS-SI208	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-209	06-Jun-06	SS-SI209	0-0.5 ft		SW8270SIM	SW8081A / SW8082		8290
SS-210	06-Jun-06	SS-SI210	0-0.5 ft		SW8270C	SW8081A / SW8082		8290
SS-SI001	06-Jun-06	SS-SI001	0-0.5 ft		SW8270C	SW8081A / SW8082		8290
SS-SI002	07-Jun-06	SS-SI002	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI003	06-Jun-06	SS-SI003	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI004	05-Jun-06	SS-SI004	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI005	05-Jun-06	SS-SI005	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI006	05-Jun-06	SS-SI006	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290

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Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALS [a]	DIOXINS
SS-SI007	06-Jun-06	SS-SI007	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI008	06-Jun-06	SS-SI008	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI010	06-Jun-06	SS-SI010	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI011	06-Jun-06	SS-SI011	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI012	08-Jun-06	SS-SI012	0-0.5 ft		SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI013	08-Jun-06	SS-SI013	0-0.5 ft		SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI014	08-Jun-06	SS-SI014	0-0.5 ft		SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI015	08-Jun-06	SS-SI015	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI016	08-Jun-06	SS-SI016	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI017	08-Jun-06	SS-SI017	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290

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Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALS [a]	DIOXINS
SS-SI018	08-Jun-06	SS-SI018	0-0.5 ft		SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI019	08-Jun-06	SS-SI019	0-0.5 ft		SW8270SIM	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI020	08-Jun-06	SS-SI020	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI021	08-Jun-06	SS-SI021	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI022	08-Jun-06	SS-SI022	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI023	07-Jun-06	SS-SI023	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290
SS-SI024	07-Jun-06	SS-SI024	0-0.5 ft		SW8270C	SW8081A / SW8082	SW7060A SW6010B SW7471A SW7841	8290

[a] Metals analyzed for include: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, and Zinc

ft - feet

VOC - Volatile Organic Compounds

SVOC - Semivolatile Organic Compounds

Pest/PCBs - Pesticides and Polychlorinated Biphenyls

**Table 3.2  
Summary of Historical and 2006 Soil Samples  
Supplemental Site Investigation Report  
Former Gorham Manufacturing Facility  
333 Adelaide Avenue  
Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALs [a]	CYANIDE	TPH	DIOXINS
BK-2	12-Oct-94	GMSSBK200101XX	0-1 ft				X	9010	418.1	
BK-2	06-Jun-06	SS-SIBK2	0-0.5 ft		SW8270C					
BK-4	12-Oct-94	GMSSBK400101XX	0-1 ft				X	9010	418.1	
BK-4	12-Mar-01	BK-4D	1.5-2 ft				X			
BK-4	06-Aug-02	BK4XX020-1	0-1 ft		PAH					
BK-4	06-Aug-02	BK4XX021-1.5	1-1.5 ft		PAH		X			
BK-5	12-Oct-94	GMSSBK500101XX	0-1 ft				X	9010	418.1	
BK-5	01-Mar-01	BK5D	1.5-2 ft		SW8270C		X			
BK-5	01-Mar-01	BK5S	0-0.5 ft		SW8270C		X			
EX-003	19-Oct-94	GMEX00300501XX	5-7 ft	SW8260B	SW8270C	SW8080	X	9010	418.1	
EX-004	19-Oct-94	GMEX00400501XX	5-7 ft				X	9010	418.1	
SD-001	13-Oct-94	GMSD00100101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-002	13-Oct-94	GMSD00200101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-002	12-Mar-01	SD-002D	1.5-2 ft		PAH		X			
SD-003	13-Oct-94	GMSD00300101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-004	13-Oct-94	GMSD00400101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-005	13-Oct-94	GMSD00500101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-005	12-Mar-01	SD-005D	1.5-2 ft		PAH		X			
SD-006	13-Oct-94	GMSD00600101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-006	13-Sep-01	GMSD00600201	0-1 ft				X			
SD-006	13-Sep-01	GMSD00600202	1-2 ft				X			
SD-006-002E	13-Sep-01	GMSD00600201E	0-1 ft				X			
SD-006-002N	13-Sep-01	GMSD00600201N	0-1 ft				X			
SD-006-002S	13-Sep-01	GMSD00600201S	0-1 ft				X			
SD-006-002W	13-Sep-01	GMSD00600201W	0-1 ft				X			
SD-007	13-Oct-94	GMSD00700101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SD-008	13-Oct-94	GMSD00800101XX	0-1 ft		SW8270C	SW8080	X	9010	418.1	
SS-001-002E	13-Sep-01	GMSS00100201E	0-1 ft						8100M (MS)	
SS-001-002N	13-Sep-01	GMSS00100201N	0-1 ft						8100M (MS)	
SS-001-002S	13-Sep-01	GMSS00100201S	0-1 ft						8100M (MS)	
SS-001-002W	13-Sep-01	GMSS00100201W	0-1 ft						8100M (MS)	
SS-1	06-Apr-89	SS-1	0-1 ft	SW8260B		SW8080			418.1	
SS-1	12-Mar-01	SS-1S	0-0.5 ft				X			
SS-1	13-Sep-01	GMSS00100201	0-1 ft						8100M (MS)	
SS-1	13-Sep-01	GMSS00100202	1-2 ft						8100M (MS)	
SS-100	27-May-98	GMSS100X01LDXX	0-1 ft		SW8270C		X		8100M	
SS-100	12-Mar-01	SS-100D	1.5-2 ft				X			
SS-1002	28-Dec-05	SS-1002	0-1 ft		SW8270C	SW8081A	X	9012		8290
SS-1003	28-Dec-05	SS-1003	0-1 ft		SW8270C	SW8081A	X	9012		8290
SS-101	27-May-98	GMSS101X01LDXX	0-1 ft	SW8260B			X		8100M	

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SS-101	08-Jun-06	SS-SI101	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-102	27-May-98	GMSS102X01LDXX	0-1 ft		SW8270C		X		8100M	
SS-103	27-May-98	GMSS103X01LDXX	0-1 ft		SW8270C		X		8100M	
SS-103	15-Apr-99	GMSS103X01RAXX	0-1 ft		PAH					
SS-104	27-May-98	GMSS104X01LDXX	0-1 ft	SW8260B	SW8270C		X		8100M	
SS-105	27-May-98	GMSS105X01LDXX	0-1 ft		SW8270C		X		8100M	
SS-106	27-May-98	GMSS106X01LDXX	0-1 ft	SW8260B	SW8270C		X		8100M	
SS-109	27-May-98	GMSS109X01LDXX	0-1 ft	SW8260B	SW8270C		X		8100M	
SS-201	11-Dec-98	GMSS201X01RAXX	0-1 ft				X			
SS-202	11-Dec-98	GMSS202X01RAXX	0-1 ft				X			
SS-202	07-Jun-06	SS-SI202	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-203	11-Dec-98	GMSS203X01RAXX	0-1 ft				X			
SS-203	12-Mar-01	SS-203D	1.5-2 ft				X			
SS-203	06-Aug-02	SS203XX020-1	0-1 ft		PAH					
SS-204	11-Dec-98	GMSS204X01RAXX	0-1 ft				X			
SS-204	06-Aug-02	SS204XX020-1	0-1 ft		PAH					
SS-205	11-Dec-98	GMSS205X01RAXX	0-1 ft				X			
SS-205	08-Jun-06	SS-SI205	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-206	11-Dec-98	GMSS206X01RAXX	0-1 ft				X			
SS-206	06-Jun-06	SS-SI206	0-0.5 ft		SW8270C	SW8081A / SW8082				8290
SS-207	11-Dec-98	GMSS207X01RAXX	0-1 ft				X			
SS-207	06-Jun-06	SS-SI207	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-208	11-Dec-98	GMSS208X01RAXX	0-1 ft				X			
SS-208	06-Jun-06	SS-SI208	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-209	11-Dec-98	GMSS209X01RAXX	0-1 ft				X			
SS-209	06-Jun-06	SS-SI209	0-0.5 ft		SW8270SIM	SW8081A / SW8082				8290
SS-210	11-Dec-98	GMSS210X01RAXX	0-1 ft				X			
SS-210	06-Jun-06	SS-SI210	0-0.5 ft		SW8270C	SW8081A / SW8082				8290
SS-211	11-Dec-98	GMSS211X01RAXX	0-1 ft		SW8270C					
SS-212	11-Dec-98	GMSS212X01RAXX	0-1 ft		SW8270C					
SS-213	11-Dec-98	GMSS213X01RAXX	0-1 ft		SW8270C					
SS-214	11-Dec-98	GMSS214X01RAXX	0-1 ft		SW8270C					

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Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALS [a]	CYANIDE	TPH	DIOXINS
SS-215	11-Dec-98	GMSS215X01RAXX	0-1 ft		SW8270C					
SS-216	11-Dec-98	GMSS216X01RAXX	0-1 ft		SW8270C					
SS-300	12-Mar-01	SS-300D	1.5-2 ft				X			
SS-300	12-Mar-01	SS-300S	0-0.5 ft				X			
SS-300	06-Aug-02	SS300XX020-1	0-1 ft		PAH					
SS-301	12-Mar-01	SS-301D	1.5-2 ft		PAH		X			
SS-301	12-Mar-01	SS-301S	0-0.5 ft		PAH		X			
SS-302	12-Mar-01	SS-302D	1.5-2 ft		PAH		X			
SS-302	12-Mar-01	SS-302S	0-0.5 ft		PAH		X			
SS-303	12-Mar-01	SS-303D	1.5-2 ft		PAH		X			
SS-304	06-Aug-02	SS304XX010-1	0-1 ft		PAH		X			
SS-305	06-Aug-02	SS305XX010-1	0-1 ft		PAH		X			
SS-306	06-Aug-02	SS306XX010-1	0-1 ft		PAH		X			
SS-400	01-Mar-01	SS400S	0-0.5 ft		SW8270C		X			
SS-401	01-Mar-01	SS401D	1.5-2 ft		SW8270C		X			
SS-401	01-Mar-01	SS401S	0-0.5 ft		SW8270C		X			
SS-402	01-Mar-01	SS402S	0-0.5 ft		SW8270C		X			
SS-SI001	06-Jun-06	SS-SI001	0-0.5 ft		SW8270C	SW8081A / SW8082				8290
SS-SI002	07-Jun-06	SS-SI002	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI003	06-Jun-06	SS-SI003	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	X			8290
SS-SI004	05-Jun-06	SS-SI004	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	X			8290
SS-SI005	05-Jun-06	SS-SI005	0-0.5 ft	SW8260B	SW8270SIM	SW8081A / SW8082	X			8290
SS-SI006	05-Jun-06	SS-SI006	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI007	06-Jun-06	SS-SI007	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI008	06-Jun-06	SS-SI008	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI010	06-Jun-06	SS-SI010	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI011	06-Jun-06	SS-SI011	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI012	08-Jun-06	SS-SI012	0-0.5 ft		SW8270SIM	SW8081A / SW8082	X			8290

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Location	Date Sampled	Field Sample ID	Sample Depth	VOC	SVOC	PEST/PCB	METALS [a]	CYANIDE	TPH	DIOXINS
SS-SI013	08-Jun-06	SS-SI013	0-0.5 ft		SW8270SIM	SW8081A / SW8082	X			8290
SS-SI014	08-Jun-06	SS-SI014	0-0.5 ft		SW8270SIM	SW8081A / SW8082	X			8290
SS-SI015	08-Jun-06	SS-SI015	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI016	08-Jun-06	SS-SI016	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI017	08-Jun-06	SS-SI017	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI018	08-Jun-06	SS-SI018	0-0.5 ft		SW8270SIM	SW8081A / SW8082	X			8290
SS-SI019	08-Jun-06	SS-SI019	0-0.5 ft		SW8270SIM	SW8081A / SW8082	X			8290
SS-SI020	08-Jun-06	SS-SI020	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI021	08-Jun-06	SS-SI021	0-0.5 ft	SW8260B	SW8270C	SW8081A / SW8082	X			8290
SS-SI022	08-Jun-06	SS-SI022	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI023	07-Jun-06	SS-SI023	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
SS-SI024	07-Jun-06	SS-SI024	0-0.5 ft		SW8270C	SW8081A / SW8082	X			8290
TP-039 (94)	10-Oct-94	GMTP039XX101XX	1-3 ft	SW8260B						

[a] X indicates that sample was analyzed for Metals. See Table 3.3 for a list of metals for each sample.  
ft - feet

VOC - Volatile Organic Compounds

SVOC - Semivolatile Organic Compounds

Pest/PCBs - Pesticides and Polychlorinated Biphenyls

PAH - Polyaromatic Hydrocarbons



**Table 3.3**  
**Summary of Inorganics and Metals Analyses in Historical and 2006 Soil Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Total Cyanide
BK-2	12-Oct-94	GMSSBK200101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
BK-4	12-Oct-94	GMSSBK400101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
BK-4	12-Mar-01	BK-4D	1.5-2 ft		SW6010B						SW6010B							
BK-4	06-Aug-02	BK4XX021-1.5	1-1.5 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
BK-5	12-Oct-94	GMSSBK500101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
BK-5	01-Mar-01	BK5D	1.5-2 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
BK-5	01-Mar-01	BK5S	0-0.5 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
EX-003	19-Oct-94	GMEX00300501XX	5-7 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
EX-004	19-Oct-94	GMEX00400501XX	5-7 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-001	13-Oct-94	GMSD00100101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-002	13-Oct-94	GMSD00200101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-002	12-Mar-01	SD-002D	1.5-2 ft		SW6010B					SW6010B								
SD-003	13-Oct-94	GMSD00300101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-004	13-Oct-94	GMSD00400101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-005	13-Oct-94	GMSD00500101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-005	12-Mar-01	SD-005D	1.5-2 ft		SW6010B					SW6010B								
SD-006	13-Oct-94	GMSD00600101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-006	13-Sep-01	GMSD00600201	0-1 ft							SW6010B								
SD-006	13-Sep-01	GMSD00600202	1-2 ft							SW6010B								
SD-006-002E	13-Sep-01	GMSD00600201E	0-1 ft							SW6010B								
SD-006-002N	13-Sep-01	GMSD00600201N	0-1 ft							SW6010B								
SD-006-002S	13-Sep-01	GMSD00600201S	0-1 ft							SW6010B								
SD-006-002W	13-Sep-01	GMSD00600201W	0-1 ft							SW6010B								
SD-007	13-Oct-94	GMSD00700101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SD-008	13-Oct-94	GMSD00800101XX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9010
SS-1	12-Mar-01	SS-1S	0-0.5 ft		SW6010B					SW6010B								
SS-100	27-May-98	GMSS100X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-100	12-Mar-01	SS-100D	1.5-2 ft		SW6010B						SW6010B							
SS-1002	28-Dec-05	SS-1002	0-1 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7470A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9012
SS-1003	28-Dec-05	SS-1003	0-1 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7470A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	9012
SS-101	27-May-98	GMSS101X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-102	27-May-98	GMSS102X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-103	27-May-98	GMSS103X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-104	27-May-98	GMSS104X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-105	27-May-98	GMSS105X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-106	27-May-98	GMSS106X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-109	27-May-98	GMSS109X01LDXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-201	11-Dec-98	GMSS201X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-202	11-Dec-98	GMSS202X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-203	11-Dec-98	GMSS203X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-203	12-Mar-01	SS-203D	1.5-2 ft		SW6010B						SW6010B							
SS-204	11-Dec-98	GMSS204X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-205	11-Dec-98	GMSS205X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-206	11-Dec-98	GMSS206X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-207	11-Dec-98	GMSS207X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-208	11-Dec-98	GMSS208X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-209	11-Dec-98	GMSS209X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-210	11-Dec-98	GMSS210X01RAXX	0-1 ft	SW6010B	SW6010B		SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-300	12-Mar-01	SS-300D	1.5-2 ft		SW6010B						SW6010B							
SS-300	12-Mar-01	SS-300S	0-0.5 ft		SW6010B						SW6010B							
SS-301	12-Mar-01	SS-301D	1.5-2 ft		SW6010B					SW6010B	SW6010B							

**Table 3.3**  
**Summary of Inorganics and Metals Analyses in Historical and 2006 Soil Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Total Cyanide
SS-301	12-Mar-01	SS-301S	0-0.5 ft		SW6010B					SW6010B	SW6010B							
SS-302	12-Mar-01	SS-302D	1.5-2 ft		SW6010B					SW6010B	SW6010B							
SS-302	12-Mar-01	SS-302S	0-0.5 ft		SW6010B					SW6010B	SW6010B							
SS-303	12-Mar-01	SS-303D	1.5-2 ft		SW6010B					SW6010B	SW6010B							
SS-304	06-Aug-02	SS304XX010-1	0-1 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-305	06-Aug-02	SS305XX010-1	0-1 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-306	06-Aug-02	SS306XX010-1	0-1 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-400	01-Mar-01	SS400S	0-0.5 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-401	01-Mar-01	SS401D	1.5-2 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-401	01-Mar-01	SS401S	0-0.5 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-402	01-Mar-01	SS402S	0-0.5 ft	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	
SS-SI002	07-Jun-06	SS-SI002	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI003	06-Jun-06	SS-SI003	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI004	05-Jun-06	SS-SI004	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI005	05-Jun-06	SS-SI005	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI006	05-Jun-06	SS-SI006	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI007	06-Jun-06	SS-SI007	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI008	06-Jun-06	SS-SI008	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI010	06-Jun-06	SS-SI010	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI011	06-Jun-06	SS-SI011	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI012	08-Jun-06	SS-SI012	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI013	08-Jun-06	SS-SI013	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI014	08-Jun-06	SS-SI014	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI015	08-Jun-06	SS-SI015	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI016	08-Jun-06	SS-SI016	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI017	08-Jun-06	SS-SI017	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI018	08-Jun-06	SS-SI018	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI019	08-Jun-06	SS-SI019	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI020	08-Jun-06	SS-SI020	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI021	08-Jun-06	SS-SI021	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI022	08-Jun-06	SS-SI022	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI023	07-Jun-06	SS-SI023	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	
SS-SI024	07-Jun-06	SS-SI024	0-0.5 ft	SW6010B	SW7060A	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW6010B	SW7471A	SW6010B	SW6010B	SW6010B	SW7841	SW6010B	

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc

**Table 3.4**  
**Summary of 2006 Surface Water Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	VOCs	SVOCs	PEST/PCB	METALS		DIOXINS
SW10	21-Jun-06	SW10	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW11	21-Jun-06	SW11	SW8260B	SW8270SIM	SW8081A	SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	8290
SW12	21-Jun-06	SW12	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW16	21-Jun-06	SW16	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW17	21-Jun-06	SW17	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW18	21-Jun-06	SW18	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW19	21-Jun-06	SW19	SW8260B	SW8270SIM	SW8081A	SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	8290
SW20	21-Jun-06	SW20	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW21	21-Jun-06	SW21	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW22	21-Jun-06	SW22	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW23	21-Jun-06	SW23	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW24	21-Jun-06	SW24	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW25	22-Jun-06	SW25	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	

**Table 3.4**  
**Summary of 2006 Surface Water Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	VOCs	SVOCs	PEST/PCB	METALS		DIOXINS
SW26	21-Jun-06	SW26	SW8260B	SW8270SIM		SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	
SW27	22-Jun-06	SW27	SW8260B	SW8270SIM	SW8081A	SW7041 SW6010B SW7060A	SW7421 SW7470A SW7841	8290

VOC - Volatile Organic Compounds

SVOC - Semivolatile Organics

Pest/PCBs - Pesticides and Polychlorinated Biphenyls

**Table 3.5**  
**Summary of 2006/2006 Sediment Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SD-1001	28-Dec-05	SD-1001	0-2 ft	SW8260B	SW8270C	SW8081A / SW8082	SW6010B / SW7470A	9012A		8100M	8290
SD-1002	28-Dec-05	SD-1002	0-2 ft	SW8260B	SW8270C	SW8081A / SW8082	SW6010B / SW7470A	9012A		8100M	8290
SD-1003	28-Dec-05	SD-1003	0-2 ft	SW8260B	SW8270C	SW8081A / SW8082	SW6010B / SW7470A	9012A		8100M	8290
SD-1004	28-Dec-05	SD-1004	0-2 ft	SW8260B	SW8270C	SW8081A / SW8082	SW6010B / SW7470A	9012A		8100M	8290
SD-1005	28-Dec-05	SD-1005	0-2 ft	SW8260B	SW8270C	SW8081A / SW8082	SW6010B / SW7470A	9012A		8100M	8290
SED10	22-Jun-06	SED1001	0.5-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A / SW6010B / SW7471A / SW7841	SW9060		8100M	8290
SED10	22-Jun-06	SED1003	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A / SW6010B / SW7471A / SW7841				
SED11	22-Jun-06	SED1101	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A / SW6010B / SW7471A / SW7841	SW9060		8100M	8290
SED11	22-Jun-06	SED1103	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A / SW6010B / SW7471A / SW7841				
SED12	22-Jun-06	SED1201	0.5-1 ft	SW8260B-LL	SW8270C / SW8270SIM	SW8081A	SW7060A / SW6010B / SW7471A / SW7841	SW9060		8100M	8290
SED12	22-Jun-06	SED1203	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A / SW6010B / SW7471A / SW7841				
SED13	22-Jun-06	SED1301	0-0.5 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A / SW6010B / SW7471A / SW7841	SW9060		8100M	8290

**Table 3.5**  
**Summary of 2006/2006 Sediment Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SED13	22-Jun-06	SED1303	2-2.5 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED14	22-Jun-06	SED1401	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED14	22-Jun-06	SED1403	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED15	22-Jun-06	SED1501	0-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED15	22-Jun-06	SED1503	2-3 ft	SW8260B SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED15	29-Jun-06	SED15	- ft						821R91100Draft		
SED16	22-Jun-06	SED1601	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED16	22-Jun-06	SED1603	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED17	22-Jun-06	SED1701	0.5-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED17	22-Jun-06	SED1704	3-3.8 ft	SW8260B SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				

**Table 3.5**  
**Summary of 2006/2006 Sediment Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SED18	22-Jun-06	SED1801	0-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED18	22-Jun-06	SED1804	3.5-4 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED19	22-Jun-06	SED1901	0-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED19	22-Jun-06	SED1903	2-3 ft	SW8260B SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED20	22-Jun-06	SED2001	0.5-1 ft	SW8260B-LL	SW8270C SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED20	22-Jun-06	SED2003	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED20	29-Jun-06	SED20	- ft						821R91100Draft		
SED21	22-Jun-06	SED2101	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED21	22-Jun-06	SED2103	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED22	22-Jun-06	SED2201	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290

Table 3.5  
 Summary of 2006/2006 Sediment Samples in Mashapaug Cove  
 Supplemental Site Investigation Report  
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 333 Adelaide Avenue  
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Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SED22	22-Jun-06	SED2203	2-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED22	29-Jun-06	SED22	- ft						821R91100Draft		
SED23	22-Jun-06	SED2301	0-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED23	22-Jun-06	SED2303	2-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED24	22-Jun-06	SED2401	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED24	22-Jun-06	SED2403	2-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED24	29-Jun-06	SED24	- ft						821R91100Draft		
SED25	22-Jun-06	SED2501	0-1 ft	SW8260B SW8260B-LL	SW8270C SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED25	22-Jun-06	SED2503	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED25	23-Jun-06	SED2507	6-7 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED26	22-Jun-06	SED2601	0-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290



**Table 3.5**  
**Summary of 2006/2006 Sediment Samples in Mashapaug Cove**  
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**Former Gorham Manufacturing Facility**  
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Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SED26	22-Jun-06	SED2602	1.5-2 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED26	22-Jun-06	SED2605	4-5 ft		SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED26	29-Jun-06	SED26	- ft						821R91100Draft		
SED27	22-Jun-06	SED2701	0-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED27	22-Jun-06	SED2703	2.5-3 ft	SW8260B SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED28	21-Jun-06	SED2801	0.5-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED28	21-Jun-06	SED2803	2.5-3 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED29	21-Jun-06	SED2901	0.5-1 ft	SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED29	21-Jun-06	SED2904	3-4 ft	SW8260B	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED30	21-Jun-06	SED3001	0.5-1 ft	SW8260B-LL	SW8270C SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290

**Table 3.5**  
**Summary of 2006/2006 Sediment Samples in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Facility**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Location	Date Sampled	Field Sample ID	Sample Depth	VOCs	SVOCs	PEST/PCB	METALS	INORGANICS	AVS/SEM	TPH	DIOXINS
SED30	21-Jun-06	SED3004	3.6-4 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED31	21-Jun-06	SED3101	0.5-1 ft	SW8260B SW8260B-LL	SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED31	21-Jun-06	SED3104	3-3.6 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				
SED32	21-Jun-06	SED3201	0.5-1 ft	SW8260B-LL	SW8270C SW8270SIM	SW8081A	SW7060A SW6010B SW7471A SW7841	SW9060		8100M	8290
SED32	21-Jun-06	SED3204	3.5-4 ft	SW8260B-LL	SW8270SIM		SW7060A SW6010B SW7471A SW7841				

Table 4.1  
Compounds Detected in Soil  
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Former Gorham Manufacturing Site  
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Providence, Rhode Island

Parameter	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	BK-2	BK-2	BK-4	BK-4	BK-4	BK-4	BK-5
					GMSSBK2 00101XX 10/12/1994	SS-SIBK2 6/6/2006	BK-4 BK-4D 3/12/2001	BK4XX02 0-1 8/6/2002	BK4XX02 1-1_5 8/6/2002	GMSSBK4 00101XX 10/12/1994	BK-5 BK5D 3/1/2001
<b>Volatile Organics (mg/kg)</b>											
1,1,1-Trichloroethane	1 / 17	0.0046 - 1	0.145 - 0.145	0.056							
1,1-Dichloroethane	1 / 17	0.0046 - 1	0.0068 - 0.0068	0.048							
2-Butanone	1 / 16	0.0462 - 0.25	5.8 - 5.8	0.41							
Acetone	2 / 16	0.0462 - 5	0.209 - 0.313	0.23							
Methylene Chloride	1 / 17	0.007 - 1	0.5 - 0.5	0.070							
Naphthalene	1 / 14	0.0046 - 0.0106	0.0075 - 0.0075	0.0038							
Tetrachloroethene	2 / 17	0.0046 - 1	0.0105 - 1.1	0.098							
Trichloroethene	3 / 17	0.0046 - 1	0.0628 - 6.1	0.40							
Xylenes, Total	10 / 17	0.007 - 1	0.0138 - 0.0319	0.073							
<b>Semivolatile Organics (mg/kg)</b>											
1-Methylnaphthalene	1 / 32	0.0261 - 1.13	4.03 - 4.03	0.31		<0.579					
2-Methylnaphthalene	3 / 77	0.0261 - 3.57	0.345 - 5.9	0.42		<0.579		<0.337	<0.337		<0.366
Acenaphthene	5 / 77	0.0261 - 3.57	0.819 - 9.94	0.55		<0.579		<0.337	<0.337		<0.366
Acenaphthylene	4 / 77	0.0261 - 3.57	0.13 - 2.97	0.37		<0.579		<0.337	<0.337		<0.366
Anthracene	23 / 77	0.0261 - 3.57	0.0572 - 10.8	0.83		<0.579		<0.337	<0.337		<0.366
Benzo(a)anthracene	45 / 77	0.0261 - 3.57	0.0332 - 46.3	2.1		<0.579		<0.337	<0.337		<0.366
Benzo(a)pyrene	46 / 77	0.0261 - 3.57	0.0273 - 41.6	1.9		<0.579		<0.337	<0.337		<0.366
Benzo(b)fluoranthene	46 / 77	0.0261 - 3.57	0.0867 - 39.4	2.1		0.754		<0.337	<0.337		<0.366
Benzo(g,h,i)perylene	37 / 77	0.0261 - 3.57	0.0283 - 28.3	1.15		<0.579		<0.337	<0.337		<0.366
Benzo(k)fluoranthene	40 / 77	0.0261 - 3.57	0.0638 - 39.5	1.5		<0.579		<0.337	<0.337		<0.366
bis(2-Ethylhexyl)phthalate	2 / 18	0.33 - 3.3	0.379 - 0.81	0.74							
Chrysene	48 / 77	0.0261 - 3.3	0.0284 - 54.2	2.2		0.606		<0.337	<0.337		<0.366
Dibenzo(a,h)anthracene	8 / 77	0.0261 - 3.57	0.0277 - 2.06	0.35		<0.579		<0.337	<0.337		<0.366
Dibenzofuran	1 / 18	0.33 - 3.9	0.824 - 0.824	0.83							
Fluoranthene	49 / 77	0.0261 - 3.57	0.0626 - 116	4.2		1.15		<0.337	<0.337		0.368
Fluorene	7 / 77	0.0261 - 3.57	0.0438 - 9.52	0.54		<0.579		<0.337	<0.337		<0.366
Indeno(1,2,3-cd)pyrene	38 / 77	0.0261 - 3.57	0.0293 - 27.9	1.1		<0.579		<0.337	<0.337		<0.366
Naphthalene	6 / 77	0.0261 - 3.57	0.398 - 17.5	0.67		<0.579		<0.337	<0.337		<0.366
Phenanthrene	47 / 77	0.0261 - 3.57	0.0364 - 122	4.2		0.595		<0.337	<0.337		<0.366
Pyrene	54 / 77	0.0261 - 1.65	0.0375 - 142	5.3		0.777		<0.337	<0.337		<0.366
<b>Pesticides/PCBs (mg/kg)</b>											
4,4'-DDD	8 / 31	0.00507 - 0.00862	0.0073 - 0.048	0.0082							
4,4'-DDE	16 / 31	0.00507 - 0.00762	0.0072 - 0.116	0.019							
4,4'-DDT	22 / 31	0.00507 - 0.0061	0.0085 - 0.95	0.084							
alpha-BHC	1 / 31	0.00507 - 0.0119	0.0093 - 0.0093	0.0033							
alpha-Chlordane	9 / 31	0.00507 - 0.0119	0.0106 - 0.258	0.020							
beta-BHC	2 / 31	0.00507 - 0.0119	0.0584 - 0.097	0.0079							
Chlordane	8 / 31	0.0507 - 0.119	0.185 - 2.09	0.15							
delta-BHC	2 / 31	0.00507 - 0.0119	0.008 - 0.0148	0.0037							
Dieldrin	1 / 31	0.00507 - 0.0119	0.0321 - 0.0321	0.0041							

Table 4.1  
 Compounds Detected in Soil  
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 333 Adelaide Avenue  
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Parameter	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	BK-2	BK-2	BK-4	BK-4	BK-4	BK-4	BK-5
					GMSSBK2 00101XX 10/12/1994	SS-SIBK2 6/6/2006	BK-4D 3/12/2001	BK4XX02 0-1 8/6/2002	BK4XX02 1-1_5 8/6/2002	GMSSBK4 00101XX 10/12/1994	BK5D 3/1/2001
Endosulfan II	1 / 31	0.00507 - 0.0119	0.0135 - 0.0135	0.0035							
Endosulfan sulfate	1 / 31	0.00507 - 0.0119	0.0116 - 0.0116	0.0034							
Endrin ketone	1 / 31	0.00507 - 0.0119	0.0131 - 0.0131	0.0034							
gamma-Chlordane	13 / 31	0.00507 - 0.0119	0.0073 - 0.18	0.024							
Heptachlor	1 / 31	0.00507 - 0.0119	0.0089 - 0.0089	0.0033							
Heptachlor epoxide	3 / 31	0.00507 - 0.0119	0.0087 - 0.297	0.017							
Hexachlorobenzene	2 / 31	0.00507 - 0.0119	0.0118 - 0.0339	0.0044							
Methoxychlor	1 / 31	0.00507 - 0.0119	0.0505 - 0.0505	0.0046							
Aroclor-1242	2 / 41	0.0506 - 1	0.483 - 6.87	0.31							
Aroclor-1254	7 / 41	0.0506 - 1	0.0875 - 6.02	0.32							
Aroclor-1260	3 / 41	0.0506 - 1	0.331 - 4.04	0.27							
<b>Inorganics (mg/kg)</b>											
Antimony	4 / 65	6 - 12.3	2.4 - 32.1	4.5	<10				<6.4	<10	<7.3
Arsenic	63 / 78	1 - 5	1.5 - 67.8	8.4	3		<1.4		4.1	11	20.6
Barium	32 / 34	13.6 - 13.7	11.5 - 510	80					14.5		20.9
Beryllium	38 / 65	0.06 - 1	0.13 - 3	0.31	<1				0.302	<1	0.271
Cadmium	17 / 65	0.6 - 1.23	1 - 21.7	1.2	<1				<0.642	<1	<0.73
Chromium	63 / 65	3 - 4	3.5 - 1330	69	5				4.45	10	4.41
Copper	79 / 79		3 - 15800	1168	162				21.9	66	14.7
Lead	73 / 78	6 - 7	6.8 - 4670	364	109		<7		28	279	30.7
Mercury	38 / 65	0.032 - 0.5	0.055 - 4.67	0.44	<0.5				<0.0648	<0.5	0.108
Nickel	65 / 65		3 - 390	25	5				5.85	17	4.54
Selenium	1 / 65	0.52 - 12.3	5 - 5	3.1	<1				<6.4	<1	<7.3
Silver	54 / 65	0.6 - 1	0.81 - 385	40	4				14.2	52	4.81
Zinc	65 / 65		8 - 4760	355	65				24.5	74	19.3
Total Cyanide	1 / 15	0.3 - 0.99	0.5 - 0.5	0.27	<0.5					<0.5	
<b>TPH (mg/kg)</b>											
Total Petroleum Hydrocarbons (TPH)	24 / 28	21 - 27	42 - 73800	3730	87					<21	
<b>Dioxins/Furans (mg/kg)</b>											
1,2,3,4,6,7,8-HpCDD	32 / 33	3.1E-05 - 3.1E-05	8E-07 - 0.0016	0.00012							
1,2,3,4,6,7,8-HpCDF	26 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.002	0.00015							
1,2,3,4,7,8,9-HpCDF	15 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0003	0.000019							
1,2,3,4,7,8-HxCDD	8 / 33	7.6E-07 - 3.1E-05	2E-06 - 9E-05	0.000008							
1,2,3,4,7,8-HxCDF	21 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0006	0.00005							
1,2,3,6,7,8-HxCDD	17 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0002	0.000015							
1,2,3,6,7,8-HxCDF	16 / 33	7.6E-07 - 3.1E-05	2E-06 - 0.0006	0.00004							
1,2,3,7,8,9-HxCDD	15 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0001	0.000011							
1,2,3,7,8,9-HxCDF	13 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0002	0.000013							
1,2,3,7,8-PeCDD	10 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0001	0.000008							
1,2,3,7,8-PeCDF	12 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0002	0.00001							
2,3,4,6,7,8-HxCDF	21 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0006	0.00004							

Table 4.1  
 Compounds Detected in Soil  
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Parameter	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	BK-2	BK-2	BK-4	BK-4	BK-4	BK-4	BK-5
					GMSSBK2 00101XX 10/12/1994	SS-SIBK2 6/6/2006	BK-4D 3/12/2001	BK4XX02 0-1 8/6/2002	BK4XX02 1-1_5 8/6/2002	GMSSBK4 00101XX 10/12/1994	BK5D 3/1/2001
2,3,4,7,8-PeCDF	25 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.001	0.00007							
2,3,7,8-TCDD	16 / 33	1.5E-07 - 6.3E-06	2E-07 - 3E-05	0.000002							
2,3,7,8-TCDF	26 / 33	1.5E-07 - 6.3E-06	2E-07 - 0.0004	0.00003							
OCDD	33 / 33		5E-06 - 0.0095	0.0006							
OCDF	24 / 33	1.5E-06 - 6.3E-05	3E-06 - 0.001	0.00009							
TOTAL HpCDD	32 / 33	3.1E-05 - 3.1E-05	8E-07 - 0.0028	0.00022							
TOTAL HpCDF	28 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0031	0.0003							
TOTAL HxCDD	23 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0022	0.00017							
TOTAL HxCDF	27 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0068	0.0005							
TOTAL PeCDD	19 / 33	7.6E-07 - 3.1E-05	1E-06 - 0.0014	0.00010							
TOTAL PeCDF	31 / 33	8.1E-07 - 8.2E-07	1E-06 - 0.0071	0.0006							
TOTAL TCDD	25 / 33	1.5E-07 - 6.3E-06	2E-07 - 0.0008	0.00006							
TOTAL TCDF	31 / 33	1.6E-07 - 1.6E-07	2E-07 - 0.0054	0.0003							
TEQ-Mammal	33 / 33		1E-06 - 0.0009	0.0001							

< - Compound not detected, value is detection limit.  
 A - Detection limit based on signal-to-noise measurement.  
 B - Less than 10 time higher than method blank level.  
 E - PCDE Interference.  
 J - Value is estimated.  
 mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.

Table 4.1  
 Compounds Detected in Soil  
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 Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
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Parameter	BK-5 BK5S 3/1/2001	BK-5 GMSSBK50 0101XX 10/12/1994	EX-003 GMEX0030 0501XX 10/19/1994	EX-004 GMEX0040 0501XX 10/19/1994	SD-001 GMSD0010 0101XX 10/13/1994	SD-002 GMSD0020 0101XX 10/13/1994	SD-002 SD-002D 3/12/2001	SD-003 GMSD0030 0101XX 10/13/1994	SD-004 GMSD0040 0101XX 10/13/1994	SD-005 GMSD0050 0101XX 10/13/1994	SD-005 SD-005D 3/12/2001	SD-006 GMSD0060 0101XX 10/13/1994	SD-006 GMSD006 00201 9/13/2001
<b>Volatile Organics (mg/kg)</b>													
1,1,1-Trichloroethane			<0.5										
1,1-Dichloroethane			<0.5										
2-Butanone			5.8										
Acetone			<5										
Methylene Chloride			0.5										
Naphthalene													
Tetrachloroethene			1.1										
Trichloroethene			6.1										
Xylenes, Total			<1										
<b>Semivolatile Organics (mg/kg)</b>													
1-Methylnaphthalene													
2-Methylnaphthalene	<0.45		<0.33		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	<0.365	<3.3	
Acenaphthene	<0.45		<0.33		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	<0.365	<3.3	
Acenaphthylene	<0.45		<0.33		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	<0.365	<3.3	
Anthracene	<0.45		<0.33		<3.3	<3.3	<0.468	0.408	<3.3	<1.65	<0.365	4.79	
Benzo(a)anthracene	0.808		0.377		6.81	<3.3	<0.468	1.11	<3.3	<1.65	<0.365	7.35	
Benzo(a)pyrene	1.11		0.398		6.4	<3.3	<0.468	1.02	<3.3	<1.65	<0.365	5.1	
Benzo(b)fluoranthene	1.24		0.486		6.25	<3.3	<0.468	0.904	<3.3	<1.65	<0.365	5.15	
Benzo(g,h,i)perylene	0.508		0.432		3.99	<3.3	<0.468	0.952	<3.3	<1.65	<0.365	3.73	
Benzo(k)fluoranthene	1.1		<0.33		<3.3	<3.3	<0.468	0.342	<3.3	<1.65	<0.365	<3.3	
bis(2-Ethylhexyl)phthalate			<0.33		<3.3	<3.3		<0.33	<3.3	<1.65		<3.3	
Chrysene	0.904		0.379		7.13	<3.3	<0.468	1.27	<3.3	<1.65	<0.365	7.42	
Dibenzo(a,h)anthracene	<0.45		<0.33		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	<0.365	<3.3	
Dibenzofuran			<0.33		<3.3	<3.3		<0.33	<3.3	<1.65		<3.3	
Fluoranthene	2.3		0.577		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	0.701	10.6	
Fluorene	<0.45		<0.33		<3.3	<3.3	<0.468	<0.33	<3.3	<1.65	<0.365	<3.3	
Indeno(1,2,3-cd)pyrene	0.514		0.36		4.22	<3.3	<0.468	0.787	<3.3	<1.65	<0.365	3.95	
Naphthalene	<0.45		<0.33		<3.3	<3.3	<0.468	1.59	<3.3	<1.65	<0.365	<3.3	
Phenanthrene	0.928		<0.33		10.6	<3.3	<0.468	2.08	4.07	<1.65	0.46	20.3	
Pyrene	1.74		0.769		21.1	6.92	<0.468	2.95	5.69	<1.65	0.863	22.8	
<b>Pesticides/PCBs (mg/kg)</b>													
4,4'-DDD													
4,4'-DDE													
4,4'-DDT													
alpha-BHC													
alpha-Chlordane													
beta-BHC													
Chlordane													
delta-BHC													
Dieldrin													

Table 4.1  
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Parameter	BK-5 BK5S 3/1/2001	BK-5 GMSSBK50 0101XX 10/12/1994	EX-003 GMEX0030 0501XX 10/19/1994	EX-004 GMEX0040 0501XX 10/19/1994	SD-001 GMSD0010 0101XX 10/13/1994	SD-002 GMSD0020 0101XX 10/13/1994	SD-002 SD-002D 3/12/2001	SD-003 GMSD0030 0101XX 10/13/1994	SD-004 GMSD0040 0101XX 10/13/1994	SD-005 GMSD0050 0101XX 10/13/1994	SD-005 SD-005D 3/12/2001	SD-006 GMSD0060 0101XX 10/13/1994	SD-006 GMSD006 00201 9/13/2001
Endosulfan II													
Endosulfan sulfate													
Endrin ketone													
gamma-Chlordane													
Heptachlor													
Heptachlor epoxide													
Hexachlorobenzene													
Methoxychlor													
Aroclor-1242			<1		<1	<1		<1	<1	<1		<1	
Aroclor-1254			<1		<1	<1		<1	<1	<1		<1	
Aroclor-1260			<1		<1	<1		<1	<1	<1		<1	
<b>Inorganics (mg/kg)</b>													
Antimony	<8.7	<10	20	<10	<10	<10		<10	<10	<10		<10	
Arsenic	67.8	60	2	3	<5	3	2.75	2	<5	2	2.42	<5	
Barium	37												
Beryllium	0.323	<1	<1	<1	<1	<1		<1	<1	<1		<1	
Cadmium	<0.87	<1	1	1	1	1		<1	<1	1		3	
Chromium	35.8	70	1330	271	137	75		69	34	247		55	
Copper	40.8	49	1730	8760	4260	1260	25	836	300	1040	305	15800	4880
Lead	280	591	235	519	1490	153	40.3	96	29	186	56	842	
Mercury	0.375	0.5	<0.5	<0.5	0.6	<0.5		<0.5	<0.5	<0.5		<0.5	
Nickel	8.67	11	72	68	37	23		11	13	26		107	
Selenium	<8.7	5	<1	<1	<5	<1		<1	<5	<5		<1	
Silver	21.2	<1	15	63	36	58		3	<1	19		61	
Zinc	51.4	77	995	4760	1040	1020		195	291	605		1700	
Total Cyanide		0.5	<0.3	<0.3	<0.5	<0.5		<0.5	<0.5	<0.5		<0.5	
<b>TPH (mg/kg)</b>													
Total Petroleum Hydrocarbons (TPH)		3600	1500	910	700	59		5600	2800	1700		670	
<b>Dioxins/Furans (mg/kg)</b>													
1,2,3,4,6,7,8-HpCDD													
1,2,3,4,6,7,8-HpCDF													
1,2,3,4,7,8,9-HpCDF													
1,2,3,4,7,8-HxCDD													
1,2,3,4,7,8-HxCDF													
1,2,3,6,7,8-HxCDD													
1,2,3,6,7,8-HxCDF													
1,2,3,7,8,9-HxCDD													
1,2,3,7,8,9-HxCDF													
1,2,3,7,8-PeCDD													
1,2,3,7,8-PeCDF													
2,3,4,6,7,8-HxCDF													

Table 4.1  
 Compounds Detected in Soil  
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Parameter	BK-5	BK-5	EX-003	EX-004	SD-001	SD-002		SD-003	SD-004	SD-005		SD-006	SD-006
	BK5S	GMSSBK50	GMEX0030	GMEX0040	GMSD0010	GMSD0020	SD-002	GMSD0030	GMSD0040	GMSD0050	SD-005	GMSD0060	GMSD0060
	3/1/2001	10/12/1994	10/19/1994	10/19/1994	10/13/1994	10/13/1994	3/12/2001	10/13/1994	10/13/1994	10/13/1994	3/12/2001	10/13/1994	9/13/2001
2,3,4,7,8-PeCDF													
2,3,7,8-TCDD													
2,3,7,8-TCDF													
OCDD													
OCDF													
TOTAL HpCDD													
TOTAL HpCDF													
TOTAL HxCDD													
TOTAL HxCDF													
TOTAL PeCDD													
TOTAL PeCDF													
TOTAL TCDD													
TOTAL TCDF													
TEQ-Mammal													

< - Compound not detected, value is detection limit.  
 A - Detection limit based on signal-to-noise measurement.  
 B - Less than 10 time higher than method blank level.  
 E - PCDE Interference.  
 J - Value is estimated.  
 mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.



Table 4.1  
 Compounds Detected in Soil  
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Parameter	SD-006 GMSD006 00202 9/13/2001	SD-006-002E GMSD006002 01E 9/13/2001	SD-006-002N GMSD006002 01N 9/13/2001	SD-006-002S GMSD006002 01S 9/13/2001	SD-006-002W GMSD006002 01W 9/13/2001	SD-007 GMSD007 00101XX 10/13/1994	SD-008 GMSD008 00101XX 10/13/1994	SS-001-002E GMSS0010020 1E 9/13/2001	SS-001-002N GMSS0010020 1N 9/13/2001	SS-001-002S GMSS0010020 1S 9/13/2001
<b>Volatile Organics (mg/kg)</b>										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
2-Butanone										
Acetone										
Methylene Chloride										
Naphthalene										
Tetrachloroethene										
Trichloroethene										
Xylenes, Total										
<b>Semivolatile Organics (mg/kg)</b>										
1-Methylnaphthalene										
2-Methylnaphthalene						<0.33	0.345			
Acenaphthene						<0.33	0.819			
Acenaphthylene						<0.33	<0.33			
Anthracene						0.57	1.53			
Benzo(a)anthracene						1.82	2.53			
Benzo(a)pyrene						2	1.64			
Benzo(b)fluoranthene						2.77	2.74			
Benzo(g,h,i)perylene						1.77	1.46			
Benzo(k)fluoranthene						0.96	1.21			
bis(2-Ethylhexyl)phthalate						0.379	0.81			
Chrysene						2.31	3.39			
Dibenzo(a,h)anthracene						<0.33	0.359			
Dibenzofuran						<0.33	0.824			
Fluoranthene						<0.33	7.21			
Fluorene						<0.33	0.678			
Indeno(1,2,3-cd)pyrene						1.49	1.31			
Naphthalene						<0.33	0.398			
Phenanthrene						2.24	11.2			
Pyrene						3.97	7.9			
<b>Pesticides/PCBs (mg/kg)</b>										
4,4'-DDD										
4,4'-DDE										
4,4'-DDT										
alpha-BHC										
alpha-Chlordane										
beta-BHC										
Chlordane										
delta-BHC										
Dieldrin										

Table 4.1  
 Compounds Detected in Soil  
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Parameter	SD-006 GMSD006 00202 9/13/2001	SD-006-002E GMSD006002 01E 9/13/2001	SD-006-002N GMSD006002 01N 9/13/2001	SD-006-002S GMSD006002 01S 9/13/2001	SD-006-002W GMSD006002 01W 9/13/2001	SD-007 GMSD007 00101XX 10/13/1994	SD-008 GMSD008 00101XX 10/13/1994	SS-001-002E GMSS0010020 1E 9/13/2001	SS-001-002N GMSS0010020 1N 9/13/2001	SS-001-002S GMSS0010020 1S 9/13/2001
Endosulfan II										
Endosulfan sulfate										
Endrin ketone										
gamma-Chlordane										
Heptachlor										
Heptachlor epoxide										
Hexachlorobenzene										
Methoxychlor										
Aroclor-1242						<1	<1			
Aroclor-1254						<1	1			
Aroclor-1260						<1	<1			
<b>Inorganics (mg/kg)</b>										
Antimony						<10	<10			
Arsenic						3	4			
Barium										
Beryllium						3	<1			
Cadmium						<1	1			
Chromium						177	69			
Copper	1190	72.8	2420	16.2	2030	3080	2330			
Lead						4670	1720			
Mercury						0.8	<0.5			
Nickel						36	32			
Selenium						<5	<5			
Silver						186	116			
Zinc						460	393			
Total Cyanide						<0.5	<0.5			
<b>TPH (mg/kg)</b>										
Total Petroleum Hydrocarbons (TPH)						1200	7500	500	629	258
<b>Dioxins/Furans (mg/kg)</b>										
1,2,3,4,6,7,8-HpCDD										
1,2,3,4,6,7,8-HpCDF										
1,2,3,4,7,8,9-HpCDF										
1,2,3,4,7,8-HxCDD										
1,2,3,4,7,8-HxCDF										
1,2,3,6,7,8-HxCDD										
1,2,3,6,7,8-HxCDF										
1,2,3,7,8,9-HxCDD										
1,2,3,7,8,9-HxCDF										
1,2,3,7,8-PeCDD										
1,2,3,7,8-PeCDF										
2,3,4,6,7,8-HxCDF										

Table 4.1  
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Parameter	SD-006 GMSD006 00202 9/13/2001	SD-006-002E GMSD006002 01E 9/13/2001	SD-006-002N GMSD006002 01N 9/13/2001	SD-006-002S GMSD006002 01S 9/13/2001	SD-006-002W GMSD006002 01W 9/13/2001	SD-007 GMSD007 00101XX 10/13/1994	SD-008 GMSD008 00101XX 10/13/1994	SS-001-002E GMSS0010020 1E 9/13/2001	SS-001-002N GMSS0010020 1N 9/13/2001	SS-001-002S GMSS0010020 1S 9/13/2001
2,3,4,7,8-PeCDF										
2,3,7,8-TCDD										
2,3,7,8-TCDF										
OCDD										
OCDF										
TOTAL HpCDD										
TOTAL HpCDF										
TOTAL HxCDD										
TOTAL HxCDF										
TOTAL PeCDD										
TOTAL PeCDF										
TOTAL TCDD										
TOTAL TCDF										
TEQ-Mammal										

< - Compound not detected, value is detection limit.  
 A - Detection limit based on signal-to-noise measurement.  
 B - Less than 10 time higher than method blank level.  
 E - PCDE Interference.  
 J - Value is estimated.  
 mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.

Table 4.1  
 Compounds Detected in Soil  
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Parameter	SS-001-002W GMSS0010020 1W 9/13/2001	SS-1 GMSS001 00201 9/13/2001	SS-1 GMSS001 00202 9/13/2001	SS-1 SS-1 SS-1 4/6/1989	SS-1 SS-1S SS-1 3/12/2001	SS-100 GMSS100 X01LDXX 5/27/1998	SS-100 SS-100D SS-100D 3/12/2001	SS-1002 SS-1002 SS-1002 12/28/2005	SS-1003 SS-1003 SS-1003 12/28/2005	SS-101 GMSS101 X01LDXX 5/27/1998	SS-101 SS- SI101 6/8/2006	SS-102 GMSS102 X01LDXX 5/27/1998	SS-103 GMSS103 X01LDXX 5/27/1998
<b>Volatile Organics (mg/kg)</b>													
1,1,1-Trichloroethane				<1						<0.008			
1,1-Dichloroethane				<1						<0.008			
2-Butanone										<0.168			
Acetone										<0.168			
Methylene Chloride				<1						<0.008			
Naphthalene										<0.008			
Tetrachloroethene				<1						<0.008			
Trichloroethene				<1						<0.008			
Xylenes, Total				<1						<0.008			
<b>Semivolatile Organics (mg/kg)</b>													
1-Methylnaphthalene											<0.028		
2-Methylnaphthalene						<0.348		2.2	<1.6		<0.028	<1.71	
Acenaphthene						<0.348		6.6	0.88		<0.028	<1.71	
Acenaphthylene						<0.348		0.13	<0.066		<0.028	<1.71	
Anthracene						<0.348		9.5	2		<0.028	<1.71	
Benzo(a)anthracene						<0.348		15	2.9		0.108	2.14	
Benzo(a)pyrene						<0.348		13	2.2		0.137	1.93	
Benzo(b)fluoranthene						<0.348		20	3		0.174	2.4	
Benzo(g,h,i)perylene						<0.348		6.1	1.4		0.0342	<1.71	
Benzo(k)fluoranthene						<0.348		4.8	1.3		0.128	<1.71	
bis(2-Ethylhexyl)phthalate						<0.348		<2	<1.6			<1.71	<1.83
Chrysene						<0.348		14	3		0.141	1.89	
Dibenzo(a,h)anthracene						<0.348		1.3	0.28		<0.028	<1.71	
Dibenzofuran						<0.348		<3.9	<3.3			<1.71	<1.83
Fluoranthene						<0.348		34	7.1		0.429	3.75	
Fluorene						<0.348		5.5	1		<0.028	<1.71	
Indeno(1,2,3-cd)pyrene						<0.348		5.4	1		0.0392	<1.71	
Naphthalene						<0.348		7.9	1.1		<0.028	<1.71	
Phenanthrene						<0.348		36	9		0.123	3.03	
Pyrene						<0.348		35	8.1		0.267	4.07	
<b>Pesticides/PCBs (mg/kg)</b>													
4,4'-DDD											<0.0061		
4,4'-DDE											<0.0061		
4,4'-DDT											<0.0061		
alpha-BHC											<0.0061		
alpha-Chlordane											<0.0061		
beta-BHC											<0.0061		
Chlordane											<0.061		
delta-BHC											<0.0061		
Dieldrin											<0.0061		

Table 4.1  
 Compounds Detected in Soil  
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Parameter	SS-001-002W GMSS0010020 1W 9/13/2001	SS-1 GMSS001 00201 9/13/2001	SS-1 GMSS001 00202 9/13/2001	SS-1 SS-1 SS-1 4/6/1989	SS-1 SS-1S 3/12/2001	SS-100 GMSS100 X01LDXX 5/27/1998	SS-100 SS-100D 3/12/2001	SS-1002 SS-1002 12/28/2005	SS-1003 SS-1003 12/28/2005	SS-101 GMSS101 X01LDXX 5/27/1998	SS-101 SI101 6/8/2006	SS-102 GMSS102 X01LDXX 5/27/1998	SS-103 GMSS103 X01LDXX 5/27/1998
Endosulfan II											<0.0061		
Endosulfan sulfate											<0.0061		
Endrin ketone											<0.0061		
gamma-Chlordane											<0.0061		
Heptachlor											<0.0061		
Heptachlor epoxide											<0.0061		
Hexachlorobenzene											<0.0061		
Methoxychlor											<0.0061		
Aroclor-1242				<0.1							<0.0609		
Aroclor-1254				<0.1							<0.0609		
Aroclor-1260				4.04							<0.0609		
<b>Inorganics (mg/kg)</b>													
Antimony						<7		3.3	2.4	<7		<7	<7
Arsenic					34.2	11	6.21	6.6	2.1	4		3	5
Barium								180	510				
Beryllium						<0.2		1	0.56	<0.2		<0.2	<0.2
Cadmium						<1		1.4	7.8	<1		1	<1
Chromium						6		32	64	7		19	7
Copper					815	19		410	1200	12		123	13
Lead					677	61	23.2	390	2900	23		160	29
Mercury						0.1		1.6	3.9	<0.1		0.1	0.1
Nickel						6		390	91	5		12	4
Selenium						<7		<0.52	<0.89	<7		<7	<7
Silver						3		110	250	2		12	1
Zinc						15		230	1400	11		90	10
Total Cyanide								<0.58	<0.99				
<b>TPH (mg/kg)</b>													
Total Petroleum Hydrocarbons (TPH)	1430	563	537	73800		56				42		<27	142
<b>Dioxins/Furans (mg/kg)</b>													
1,2,3,4,6,7,8-HpCDD								0.00015	0.00068		0.0000036 J		
1,2,3,4,6,7,8-HpCDF								0.00015	0.0014		0.0000036 J		
1,2,3,4,7,8,9-HpCDF								0.000016	0.00016		< 0.00000089		
1,2,3,4,7,8-HxCDD								0.0000044	0.000056		< 0.00000089		
1,2,3,4,7,8-HxCDF								0.000029	0.00045		< 0.00000089		
1,2,3,6,7,8-HxCDD								0.0000097	0.0001		< 0.00000089		
1,2,3,6,7,8-HxCDF								0.000024	0.0004		< 0.00000089 E		
1,2,3,7,8,9-HxCDD								0.0000081	0.00007		< 0.00000089		
1,2,3,7,8,9-HxCDF								< 0.0000025	0.000025		< 0.00000089		
1,2,3,7,8-PeCDD								0.0000048	0.000071		< 0.00000089		
1,2,3,7,8-PeCDF								0.00001	0.00023		< 0.00000089		
2,3,4,6,7,8-HxCDF								0.000025	0.00046		0.000001 J		

Table 4.1  
 Compounds Detected in Soil  
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 Providence, Rhode Island

Parameter	SS-001-002W GMSS0010020 1W 9/13/2001	SS-1 GMSS001 00201 9/13/2001	SS-1 GMSS001 00202 9/13/2001	SS-1 SS-1 SS-1 4/6/1989	SS-1 SS-1S 3/12/2001	SS-100 GMSS100 X01LDXX 5/27/1998	SS-100 SS-100D 3/12/2001	SS-1002 SS-1002 12/28/2005	SS-1003 SS-1003 12/28/2005	SS-101 GMSS101 X01LDXX 5/27/1998	SS-101 SI101 6/8/2006	SS-102 GMSS102 X01LDXX 5/27/1998	SS-103 GMSS103 X01LDXX 5/27/1998
2,3,4,7,8-PeCDF								0.00002	0.00041		0.0000017 J		
2,3,7,8-TCDD								0.0000015	0.000021		< 0.00000018		
2,3,7,8-TCDF								0.000011	0.00031		0.0000011		
OCDD								0.0012	0.0017		0.000025		
OCDF								0.00018	0.00059		0.0000031 J		
TOTAL HpCDD								0.00028	0.0013		0.0000077		
TOTAL HpCDF								0.00025	0.0021		0.0000051		
TOTAL HxCDD								0.000095	0.0012		0.0000014 J		
TOTAL HxCDF								0.00034	0.005		0.0000082		
TOTAL PeCDD								0.000028	0.00085		< 0.00000089		
TOTAL PeCDF								0.00024	0.0052		0.000017		
TOTAL TCDD								0.000017	0.00042		0.000002		
TOTAL TCDF								0.00011	0.0026		0.000019		
TEQ-Mammal								0.000031	0.00052		0.0000020		

< - Compound not detected, value is detection limit.  
 A - Detection limit based on signal-to-noise measurement.  
 B - Less than 10 time higher than method blank level.  
 E - PCDE Interference.  
 J - Value is estimated.  
 mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.

Table 4.1  
Compounds Detected in Soil  
Supplemental Site Investigation Report  
Former Gorham Manufacturing Site  
333 Adelaide Avenue  
Providence, Rhode Island

Parameter	SS-103 GMSS103 X01RAXX 4/15/1999	SS-104 GMSS104 X01LDXX 5/27/1998	SS-105 GMSS105 X01LDXX 5/27/1998	SS-106 GMSS106 X01LDXX 5/27/1998	SS-109 GMSS109 X01LDXX 5/27/1998	SS-201 GMSS201 X01RAXX 12/11/1998	SS-202 GMSS202X 01RAXX 12/11/1998	SS-202 SI202 6/7/2006	SS-203 GMSS203X 01RAXX 12/11/1998	SS-203 SS-203D 3/12/2001	SS-203 SS203XX 020-1 8/6/2002	SS-204 GMSS204 X01RAXX 12/11/1998	SS-204 SS204XX 020-1 8/6/2002
<b>Volatile Organics (mg/kg)</b>													
1,1,1-Trichloroethane		<0.007		<0.008	<0.008								
1,1-Dichloroethane		<0.007		<0.008	<0.008								
2-Butanone		<0.143		<0.163	<0.161								
Acetone		0.209		0.313	<0.161								
Methylene Chloride		<0.007		<0.008	<0.008								
Naphthalene		<0.007		<0.008	<0.008								
Tetrachloroethene		<0.007		<0.008	<0.008								
Trichloroethene		<0.007		<0.008	<0.008								
Xylenes, Total		<0.007		<0.008	<0.008								
<b>Semivolatile Organics (mg/kg)</b>													
1-Methylnaphthalene								<0.0295					
2-Methylnaphthalene	<0.388	<0.359	<0.355	<0.344	<0.34			<0.0295			<0.34		<0.365
Acenaphthene	<0.388	<0.359	<0.355	<0.344	<0.34			<0.0295			<0.34		<0.365
Acenaphthylene	<0.388	<0.359	<0.355	<0.344	<0.34			<0.0295			<0.34		<0.365
Anthracene	<0.388	<0.359	<0.355	<0.344	<0.34			0.0572			<0.34		0.629
Benzo(a)anthracene	<0.388	<0.359	<0.355	<0.344	<0.34			0.203			<0.34		1.85
Benzo(a)pyrene	<0.388	<0.359	<0.355	<0.344	<0.34			0.203			<0.34		1.71
Benzo(b)fluoranthene	<0.388	<0.359	<0.355	<0.344	<0.34			0.24			<0.34		1.6
Benzo(g,h,i)perylene	<0.388	<0.359	<0.355	<0.344	<0.34			0.0578			<0.34		0.716
Benzo(k)fluoranthene	<0.388	<0.359	<0.355	<0.344	<0.34			0.183			<0.34		1.43
bis(2-Ethylhexyl)phthalate		<0.359	<0.355	<0.344	<0.34								
Chrysene	<0.388	<0.359	<0.355	<0.344	<0.34			0.229			<0.34		1.88
Dibenzo(a,h)anthracene	<0.388	<0.359	<0.355	<0.344	<0.34			0.033			<0.34		<0.365
Dibenzofuran		<0.359	<0.355	<0.344	<0.34								
Fluoranthene	<0.388	<0.359	<0.355	<0.344	<0.34			0.646			0.568		4.28
Fluorene	<0.388	<0.359	<0.355	<0.344	<0.34			<0.0295			<0.34		<0.365
Indeno(1,2,3-cd)pyrene	<0.388	<0.359	<0.355	<0.344	<0.34			0.0636			<0.34		0.638
Naphthalene	<0.388	<0.359	<0.355	<0.344	<0.34			<0.0295			<0.34		<0.365
Phenanthrene	<0.388	<0.359	<0.355	<0.344	<0.34			0.3			<0.34		2.71
Pyrene	<0.388	<0.359	<0.355	<0.344	<0.34			0.45			0.461		3.95
<b>Pesticides/PCBs (mg/kg)</b>													
4,4'-DDD								<0.00578					
4,4'-DDE								<0.00578					
4,4'-DDT								0.0085					
alpha-BHC								<0.00578					
alpha-Chlordane								<0.00578					
beta-BHC								<0.00578					
Chlordane								<0.0578					
delta-BHC								<0.00578					
Dieldrin								<0.00578					

Table 4.1  
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Parameter	SS-103 GMSS103 X01RAXX 4/15/1999	SS-104 GMSS104 X01LDXX 5/27/1998	SS-105 GMSS105 X01LDXX 5/27/1998	SS-106 GMSS106 X01LDXX 5/27/1998	SS-109 GMSS109 X01LDXX 5/27/1998	SS-201 GMSS201 X01RAXX 12/11/1998	SS-202 GMSS202X 01RAXX 12/11/1998	SS-202 SS- SI202 6/7/2006	SS-203 GMSS203X 01RAXX 12/11/1998	SS-203 SS-203D 3/12/2001	SS-203 SS203XX 020-1 8/6/2002	SS-204 GMSS204 X01RAXX 12/11/1998	SS-204 SS204XX 020-1 8/6/2002
Endosulfan II								<0.00578					
Endosulfan sulfate								<0.00578					
Endrin ketone								<0.00578					
gamma-Chlordane								<0.00578					
Heptachlor								<0.00578					
Heptachlor epoxide								<0.00578					
Hexachlorobenzene								<0.00578					
Methoxychlor								<0.00578					
Aroclor-1242								<0.0577					
Aroclor-1254								<0.0577					
Aroclor-1260								<0.0577					
<b>Inorganics (mg/kg)</b>													
Antimony		<7	<7	<6	<6	<7	<6				<7		<8
Arsenic		3	4	3	<1	15	2.9			2.35			19
Barium													
Beryllium		<0.2	<0.2	<0.2	<0.2	0.3	0.2			0.2			0.3
Cadmium		<1	1	<1	<1	<1	<1			<1			<1
Chromium		5	17	6	<3	9	5			6			7
Copper		6	107	42	3	52	31			43			91
Lead		9	42	23	<6	160	61			119	<6.8		274
Mercury		<0.1	<0.1	0.1	<0.1	0.53	<0.07			0.45			0.34
Nickel		5	6	6	3	7	8			6			9
Selenium		<7	<7	<6	<6	<7	<6			<7			<8
Silver		<1	7	14	<1	10	5			16			18
Zinc		11	26	17	11	27	143			13			35
Total Cyanide													
<b>TPH (mg/kg)</b>													
Total Petroleum Hydrocarbons (TPH)		<27	48	51	<26								
<b>Dioxins/Furans (mg/kg)</b>													
1,2,3,4,6,7,8-HpCDD								0.000007					
1,2,3,4,6,7,8-HpCDF								0.0000048					
1,2,3,4,7,8,9-HpCDF								< 0.00000089					
1,2,3,4,7,8-HxCDD								< 0.00000089					
1,2,3,4,7,8-HxCDF								0.0000012 J					
1,2,3,6,7,8-HxCDD								< 0.00000089					
1,2,3,6,7,8-HxCDF								< 0.00000089					
1,2,3,7,8,9-HxCDD								< 0.00000089					
1,2,3,7,8,9-HxCDF								< 0.00000089					
1,2,3,7,8-PeCDD								< 0.00000089					
1,2,3,7,8-PeCDF								< 0.00000089					
2,3,4,6,7,8-HxCDF								0.0000015 J					



Table 4.1  
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Parameter	SS-103	SS-104	SS-105	SS-106	SS-109	SS-201	SS-202	SS-202		SS-203		SS-203	SS-204	SS-204
	GMSS103 X01RAXX 4/15/1999	GMSS104 X01LDXX 5/27/1998	GMSS105 X01LDXX 5/27/1998	GMSS106 X01LDXX 5/27/1998	GMSS109 X01LDXX 5/27/1998	GMSS201 X01RAXX 12/11/1998	GMSS202X 01RAXX 12/11/1998	SS-202 SI202 6/7/2006	SS- SI202	GMSS203X 01RAXX 12/11/1998	SS-203 SS-203D 3/12/2001	SS203XX 020-1 8/6/2002	GMSS204 X01RAXX 12/11/1998	SS204XX 020-1 8/6/2002
2,3,4,7,8-PeCDF														0.000022 J
2,3,7,8-TCDD														< 0.0000018
2,3,7,8-TCDF														0.000013
OCDD														0.00004
OCDF														0.000039 J
TOTAL HpCDD														0.000015
TOTAL HpCDF														0.000007
TOTAL HxCDD														0.000048
TOTAL HxCDF														0.000014
TOTAL PeCDD														0.000014 J
TOTAL PeCDF														0.000023
TOTAL TCDD														0.000027
TOTAL TCDF														0.000017
TEQ-Mammal														0.000024

< - Compound not detected, value is detection limit.  
A - Detection limit based on signal-to-noise measurement.  
B - Less than 10 times higher than method blank level.  
E - PCDE Interference.  
J - Value is estimated.  
mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
Upper Confidence Limit and GB Leachability presented in Table 4.2.

Table 4.1  
Compounds Detected in Soil  
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Providence, Rhode Island

Parameter	SS-205	SS-205	SS-206	SS-206	SS-207	SS-207	SS-208	SS-208	SS-209	SS-209	SS-210
	GMSS205 X01RAXX 12/11/1998	SS-205 SI205 6/8/2006	GMSS206X 01RAXX 12/11/1998	SS-206 SI206 6/6/2006	GMSS207X 01RAXX 12/11/1998	SS-207 SI207 6/6/2006	GMSS208X 01RAXX 12/11/1998	SS-208 SI208 6/6/2006	GMSS209 X01RAXX 12/11/1998	SS-209 SI209 6/6/2006	GMSS210 X01RAXX 12/11/1998
<b>Volatiles Organics (mg/kg)</b>											
1,1,1-Trichloroethane											
1,1-Dichloroethane											
2-Butanone											
Acetone											
Methylene Chloride											
Naphthalene											
Tetrachloroethene											
Trichloroethene											
Xylenes, Total											
<b>Semivolatile Organics (mg/kg)</b>											
1-Methylnaphthalene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
2-Methylnaphthalene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Acenaphthene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Acenaphthylene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Anthracene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Benzo(a)anthracene		<0.0268		<0.611		<0.0277		0.0615		0.0736	
Benzo(a)pyrene		0.0273		<0.611		<0.0277		0.0712		0.0923	
Benzo(b)fluoranthene		<0.0268		<0.611		<0.0277		0.0867		0.131	
Benzo(g,h,i)perylene		<0.0268		<0.611		<0.0277		<0.0268		0.0283	
Benzo(k)fluoranthene		<0.0268		<0.611		<0.0277		0.0728		0.0861	
bis(2-Ethylhexyl)phthalate											
Chrysene		0.0284		<0.611		<0.0277		0.0877		0.102	
Dibenzo(a,h)anthracene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Dibenzofuran											
Fluoranthene		0.0626		0.63		<0.0277		0.196		0.289	
Fluorene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Indeno(1,2,3-cd)pyrene		<0.0268		<0.611		<0.0277		<0.0268		0.03	
Naphthalene		<0.0268		<0.611		<0.0277		<0.0268		<0.0283	
Phenanthrene		<0.0268		<0.611		<0.0277		0.108		0.077	
Pyrene		0.0375		<0.611		<0.0277		0.133		0.175	
<b>Pesticides/PCBs (mg/kg)</b>											
4,4'-DDD		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
4,4'-DDE		<0.00579		0.0136		<0.00579		<0.00559		<0.00528	
4,4'-DDT		<0.00579		0.0253		<0.00579		<0.00559		<0.00528	
alpha-BHC		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
alpha-Chlordane		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
beta-BHC		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Chlordane		<0.0579		<0.0617		<0.0579		<0.0559		<0.0528	
delta-BHC		<0.00579		<0.00617		0.00804		<0.00559		<0.00528	
Dieldrin		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	

Table 4.1  
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Parameter	SS-205	SS-205	SS-206	SS-206	SS-207	SS-207	SS-208	SS-208	SS-209	SS-209	SS-210
	GMSS205 X01RAXX 12/11/1998	SS-205 SS- SI205 6/8/2006	GMSS206X 01RAXX 12/11/1998	SS-206 SS- SI206 6/6/2006	GMSS207X 01RAXX 12/11/1998	SS-207 SS- SI207 6/6/2006	GMSS208X 01RAXX 12/11/1998	SS-208 SS- SI208 6/6/2006	GMSS209 X01RAXX 12/11/1998	SS-209 SS- SI209 6/6/2006	GMSS210 X01RAXX 12/11/1998
Endosulfan II		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Endosulfan sulfate		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Endrin ketone		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
gamma-Chlordane		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Heptachlor		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Heptachlor epoxide		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Hexachlorobenzene		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Methoxychlor		<0.00579		<0.00617		<0.00579		<0.00559		<0.00528	
Aroclor-1242		<0.0579		<0.0617		<0.0578		<0.0558		<0.0527	
Aroclor-1254		<0.0579		<0.0617		<0.0578		<0.0558		<0.0527	
Aroclor-1260		<0.0579		<0.0617		<0.0578		<0.0558		<0.0527	
<b>Inorganics (mg/kg)</b>											
Antimony	<8		<8		<7		<7		<9	<7	
Arsenic	2.2		2.4		3.1		3.4		4.1	2.9	
Barium											
Beryllium	0.2		0.2		0.2		0.2		0.3	0.2	
Cadmium	<1		<1		<1		<1		<1	<1	
Chromium	<4		4		4		4		5	10	
Copper	15		10		27		3		24	132	
Lead	22		25		98		<7		26	146	
Mercury	<0.07		<0.07		0.07		<0.06		<0.06	0.12	
Nickel	3		3		3		3		4	8	
Selenium	<8		<8		<7		<7		<9	<7	
Silver	<1		1		2		<1		3	29	
Zinc	10		8		10		9		16	34	
Total Cyanide											
<b>TPH (mg/kg)</b>											
Total Petroleum Hydrocarbons (TPH)											
<b>Dioxins/Furans (mg/kg)</b>											
1,2,3,4,6,7,8-HpCDD		0.0000019 J		0.000011		0.00000083 J		0.0000029 J		0.000014	
1,2,3,4,6,7,8-HpCDF		0.0000014 J		0.000013		< 0.00000076		0.0000019 J		0.0000098	
1,2,3,4,7,8,9-HpCDF		< 0.00000086		0.0000015 J		< 0.00000076		< 0.000001		0.0000012 J	
1,2,3,4,7,8-HxCDD		< 0.00000086		< 0.000001		< 0.00000076		< 0.000001		< 0.0000009	
1,2,3,4,7,8-HxCDF		< 0.00000086		0.0000034 J		< 0.00000076		< 0.000001		0.0000021 J	
1,2,3,6,7,8-HxCDD		< 0.00000086		0.0000018 J		< 0.00000076		< 0.000001		0.0000011 J	
1,2,3,6,7,8-HxCDF		< 0.00000086		0.0000041 J		< 0.00000076		< 0.000001		0.000002 J	
1,2,3,7,8,9-HxCDD		< 0.00000086		0.0000013 J		< 0.00000076		< 0.000001		< 0.0000009	
1,2,3,7,8,9-HxCDF		< 0.00000086		0.000001 J		< 0.00000076		< 0.000001		< 0.0000009	
1,2,3,7,8-PeCDD		< 0.00000086		0.0000014 J		< 0.00000076		< 0.000001		< 0.0000009	
1,2,3,7,8-PeCDF		< 0.00000086		0.0000041 J		< 0.00000076		< 0.000001		0.0000017 J	
2,3,4,6,7,8-HxCDF		< 0.00000086		0.000004 J		< 0.00000076		< 0.000001		0.0000029 J	

Table 4.1  
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Parameter	SS-205	SS-205	SS-206	SS-206	SS-207	SS-207	SS-208	SS-208	SS-209	SS-209	SS-210
	GMSS205 X01RAXX 12/11/1998	SS-205 SI205 6/8/2006	GMSS206X 01RAXX 12/11/1998	SS-206 SI206 6/6/2006	GMSS207X 01RAXX 12/11/1998	SS-207 SI207 6/6/2006	GMSS208X 01RAXX 12/11/1998	SS-208 SI208 6/6/2006	GMSS209 X01RAXX 12/11/1998	SS-209 SI209 6/6/2006	GMSS210 X01RAXX 12/11/1998
2,3,4,7,8-PeCDF		< 0.0000086		0.000012		< 0.0000076		< 0.000001		0.0000043 J	
2,3,7,8-TCDD		< 0.0000017		0.0000061 J		< 0.0000015		< 0.0000021		0.0000037 J	
2,3,7,8-TCDF		0.0000035 J		0.0000092		< 0.0000015		0.0000032 J		0.0000025	
OCDD		0.000015		0.000058		0.000049 BJ		0.000021		0.00017	
OCDF		0.000028 J		0.000012		< 0.0000015		0.000029 J		0.000011	
TOTAL HpCDD		0.000036 J		0.000023		0.0000083 J		0.000058		0.000032	
TOTAL HpCDF		0.000026 J		0.000021		< 0.0000076		0.000003 J		0.000018	
TOTAL HxCDD		< 0.0000086		0.00002		< 0.0000076		< 0.000001		0.000011	
TOTAL HxCDF		0.000001 J		0.000049		< 0.0000076		0.000001 J		0.000022	
TOTAL PeCDD		< 0.0000086		0.000015		< 0.0000076		< 0.000001		0.0000045 J	
TOTAL PeCDF		0.000028 J		0.00016		0.000012 J		0.000014 J		0.000051	
TOTAL TCDD		0.000003 J		0.000018		< 0.0000015		0.0000024 J		0.000007	
TOTAL TCDF		0.000041		0.00012		0.0000015 J		0.000029		0.000036	
TEQ-Mammal		0.000011		0.000011		0.000010		0.000013		0.000045	

< - Compound not detected, value is detection limit.  
A - Detection limit based on signal-to-noise measurement.  
B - Less than 10 time higher than method blank level.  
E - PCDE Interference.  
J - Value is estimated.  
mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
Upper Confidence Limit and GB Leachability presented in Table 4.2.

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Parameter	SS-210	SS-211	SS-212	SS-213	SS-214	SS-215	SS-216	SS-300 SS-300D	SS-300	SS-300	SS-301	SS-301	SS-302
	SI210 6/6/2006	GMSS211X 01RAXX 12/11/1998	GMSS212X 01RAXX 12/11/1998	GMSS213X 01RAXX 12/11/1998	GMSS214X 01RAXX 12/11/1998	GMSS215X 01RAXX 12/11/1998	GMSS216X 01RAXX 12/11/1998		SS-300S 3/12/2001	SS300XX 020-1 8/6/2002	SS-301D 3/12/2001	SS-301S 3/12/2001	SS-302D 3/12/2001
<b>Volatile Organics (mg/kg)</b>													
1,1,1-Trichloroethane													
1,1-Dichloroethane													
2-Butanone													
Acetone													
Methylene Chloride													
Naphthalene													
Tetrachloroethene													
Trichloroethene													
Xylenes, Total													
<b>Semivolatile Organics (mg/kg)</b>													
1-Methylnaphthalene	<0.543												
2-Methylnaphthalene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		<0.417	<3.57	<1.06	<0.412	
Acenaphthene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		<0.417	<3.57	<1.06	<0.412	
Acenaphthylene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		<0.417	<3.57	<1.06	<0.412	
Anthracene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		1.13	<3.57	2.25	<0.412	
Benzo(a)anthracene	0.845	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		3.04	<3.57	5.18	0.616	
Benzo(a)pyrene	0.915	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		3.44	<3.57	3.4	0.581	
Benzo(b)fluoranthene	1.05	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		3.15	<3.57	2.76	0.621	
Benzo(g,h,i)perylene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		1.8	<3.57	2.01	<0.412	
Benzo(k)fluoranthene	0.71	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		2.72	<3.57	2.87	0.607	
bis(2-Ethylhexyl)phthalate													
Chrysene	0.922	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		3.1	4.28	5.11	0.612	
Dibenzo(a,h)anthracene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		0.687	<3.57	<1.06	<0.412	
Dibenzofuran													
Fluoranthene	1.8	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		8.11	<3.57	9.65	1.46	
Fluorene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		<0.417	<3.57	<1.06	<0.412	
Indeno(1,2,3-cd)pyrene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		1.59	<3.57	1.82	<0.412	
Naphthalene	<0.543	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		<0.417	<3.57	<1.06	<0.412	
Phenanthrene	1.02	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		5.54	<3.57	8.77	0.858	
Pyrene	1.28	<0.375	<0.37	<0.375	<0.379	<0.379	<0.383		6.61	8.36	17.7	1.77	
<b>Pesticides/PCBs (mg/kg)</b>													
4,4'-DDD	<0.00538												
4,4'-DDE	0.00723												
4,4'-DDT	0.0242												
alpha-BHC	<0.00538												
alpha-Chlordane	<0.00538												
beta-BHC	<0.00538												
Chlordane	<0.0538												
delta-BHC	<0.00538												
Dieldrin	<0.00538												

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Parameter	SS-210	SS-211	SS-212	SS-213	SS-214	SS-215	SS-216	SS-300	SS-300	SS-300	SS-301	SS-301	SS-302
	SI210 6/6/2006	GMSS211X 01RAXX 12/11/1998	GMSS212X 01RAXX 12/11/1998	GMSS213X 01RAXX 12/11/1998	GMSS214X 01RAXX 12/11/1998	GMSS215X 01RAXX 12/11/1998	GMSS216X 01RAXX 12/11/1998	SS-300D 3/12/2001	SS-300S 3/12/2001	SS300XX 020-1 8/6/2002	SS-301D 3/12/2001	SS-301S 3/12/2001	SS-302D 3/12/2001
Endosulfan II	<0.00538												
Endosulfan sulfate	<0.00538												
Endrin ketone	<0.00538												
gamma-Chlordane	<0.00538												
Heptachlor	<0.00538												
Heptachlor epoxide	<0.00538												
Hexachlorobenzene	<0.00538												
Methoxychlor	<0.00538												
Aroclor-1242	<0.0537												
Aroclor-1254	<0.0537												
Aroclor-1260	<0.0537												
<b>Inorganics (mg/kg)</b>													
Antimony													
Arsenic								2.23	6.02		33.2	2.69	6.82
Barium													
Beryllium													
Cadmium													
Chromium													
Copper													
Lead								95.2	332		680	466	1160
Mercury											265	805	181
Nickel													
Selenium													
Silver													
Zinc													
Total Cyanide													
<b>TPH (mg/kg)</b>													
Total Petroleum Hydrocarbons (TPH)													
<b>Dioxins/Furans (mg/kg)</b>													
1,2,3,4,6,7,8-HpCDD	0.000015												
1,2,3,4,6,7,8-HpCDF	0.000011												
1,2,3,4,7,8,9-HpCDF	0.0000011 J												
1,2,3,4,7,8-HxCDD	< 0.000001												
1,2,3,4,7,8-HxCDF	0.0000025 J												
1,2,3,6,7,8-HxCDD	0.0000018 J												
1,2,3,6,7,8-HxCDF	0.0000032 J												
1,2,3,7,8,9-HxCDD	0.0000012 J												
1,2,3,7,8,9-HxCDF	0.0000011 J												
1,2,3,7,8-PeCDD	< 0.000001												
1,2,3,7,8-PeCDF	0.0000014 J												
2,3,4,6,7,8-HxCDF	0.0000036 J												

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Parameter	SS-210	SS-211	SS-212	SS-213	SS-214	SS-215	SS-216	SS-300	SS-300	SS-300	SS-301	SS-301	SS-302
	SI210 6/6/2006	GMSS211X 01RAXX 12/11/1998	GMSS212X 01RAXX 12/11/1998	GMSS213X 01RAXX 12/11/1998	GMSS214X 01RAXX 12/11/1998	GMSS215X 01RAXX 12/11/1998	GMSS216X 01RAXX 12/11/1998	SS-300D 3/12/2001	SS-300S 3/12/2001	SS300XX 020-1 8/6/2002	SS-301D 3/12/2001	SS-301S 3/12/2001	SS-302D 3/12/2001
2,3,4,7,8-PeCDF	0.000012												
2,3,7,8-TCDD	< 0.00000021												
2,3,7,8-TCDF	0.0000023												
OCDD	0.000087												
OCDF	0.000011												
TOTAL HpCDD	0.000029												
TOTAL HpCDF	0.00002												
TOTAL HxCDD	0.000018												
TOTAL HxCDF	0.00005												
TOTAL PeCDD	0.0000059												
TOTAL PeCDF	0.00014												
TOTAL TCDD	0.0000053												
TOTAL TCDF	0.000053												
TEQ-Mammal	0.000009												

< - Compound not detected, value is detection limit.  
A - Detection limit based on signal-to-noise measurement.  
B - Less than 10 time higher than method blank level.  
E - PCDE Interference.  
J - Value is estimated.  
mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
Upper Confidence Limit and GB Leachability presented in Table 4.2.

Table 4.1  
 Compounds Detected in Soil  
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Parameter	SS-302 SS-302S 3/12/2001	SS-303 SS-303D 3/12/2001	SS-304 SS304XX 010-1 8/6/2002	SS-305 SS305XX 010-1 8/6/2002	SS-306 SS306XX 010-1 8/6/2002	SS-400 SS400S 3/1/2001	SS-401 SS401D 3/1/2001	SS-401 SS401S 3/1/2001	SS-402 SS402S 3/1/2001	SS-SI001 SS-SI001 6/6/2006	SS-SI002 SI002 6/7/2006	SS-SI003 SS-SI003 6/6/2006	SS-SI004 SS-SI004 6/5/2006
<b>Volatile Organics (mg/kg)</b>													
1,1,1-Trichloroethane											<0.0106	<0.0053	<0.0046
1,1-Dichloroethane											<0.0106	<0.0053	<0.0046
2-Butanone											<0.106	<0.0526	<0.0462
Acetone											<0.106	<0.0526	<0.0462
Methylene Chloride											<0.0531	<0.0263	<0.0231
Naphthalene											<0.0106	<0.0053	<0.0046
Tetrachloroethene											<0.0106	<0.0053	<0.0046
Trichloroethene											<0.0106	<0.0053	<0.0046
Xylenes, Total											0.0319	0.0158	0.0138
<b>Semivolatile Organics (mg/kg)</b>													
1-Methylnaphthalene										<0.581	<1.13	<0.0297	<0.0299
2-Methylnaphthalene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	<0.0297	<0.0299
Acenaphthene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	<0.0297	<0.0299
Acenaphthylene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	<0.0297	<0.0299
Anthracene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	0.504	0.657	0.511	<0.581	2.18	<0.0297	<0.0299
Benzo(a)anthracene	1.16	<0.415	0.5	<0.345	<0.337	1.51	1.53	4.45	1.62	0.623	2.4	0.15	0.109
Benzo(a)pyrene	1.3	<0.415	0.635	<0.345	<0.337	1.81	1.81	4.08	2.22	0.694	1.71	0.184	0.132
Benzo(b)fluoranthene	1.18	<0.415	0.675	<0.345	<0.337	2.05	2.02	3.74	2.23	1.07	1.45	0.273	0.191
Benzo(g,h,i)perylene	0.552	<0.415	0.425	<0.345	<0.337	0.782	0.816	2.04	1.26	<0.581	<1.13	0.0857	0.0401
Benzo(k)fluoranthene	1.11	<0.415	0.526	<0.345	<0.337	1.83	1.65	3.8	1.73	<0.581	1.81	0.191	0.139
bis(2-Ethylhexyl)phthalate													
Chrysene	1.07	<0.415	0.701	<0.345	<0.337	1.64	1.61	4.08	1.74	0.749	2.61	0.217	0.132
Dibenzo(a,h)anthracene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	0.0321	<0.0299
Dibenzofuran													
Fluoranthene	2.37	<0.415	1.23	<0.345	<0.337	4.2	3.99	8.34	3.76	1.74	6.59	0.734	0.493
Fluorene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	<0.0297	<0.0299
Indeno(1,2,3-cd)pyrene	0.502	<0.415	0.369	<0.345	<0.337	0.809	0.806	2.08	1.16	<0.581	<1.13	0.0809	0.0418
Naphthalene	<0.41	<0.415	<0.344	<0.345	<0.337	<0.404	<0.368	<0.431	<0.443	<0.581	<1.13	<0.0297	<0.0299
Phenanthrene	1.09	<0.415	0.555	<0.345	<0.337	2.09	2.68	3.02	1.72	0.906	10.7	0.183	0.12
Pyrene	3.04	<0.415	0.994	<0.345	<0.337	3.07	3.28	7.78	3.23	1.08	7.52	0.498	0.207
<b>Pesticides/PCBs (mg/kg)</b>													
4,4'-DDD										<0.0061	0.048	<0.00565	<0.00607
4,4'-DDE										0.0165	0.116	0.0159	0.0104
4,4'-DDT										0.0161	0.496	0.0287	0.0237
alpha-BHC										<0.0061	<0.0119	<0.00565	<0.00607
alpha-Chlordane										<0.0061	<0.0119	<0.00565	<0.00607
beta-BHC										<0.0061	<0.0119	<0.00565	<0.00607
Chlordane										<0.061	<0.119	<0.0565	<0.0607
delta-BHC										<0.0061	<0.0119	<0.00565	<0.00607
Dieldrin										<0.0061	<0.0119	<0.00565	<0.00607



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Parameter	SS-302 SS-302S 3/12/2001	SS-303 SS-303D 3/12/2001	SS-304 SS304XX 010-1 8/6/2002	SS-305 SS305XX 010-1 8/6/2002	SS-306 SS306XX 010-1 8/6/2002	SS-400 SS400S 3/1/2001	SS-401 SS401D 3/1/2001	SS-401 SS401S 3/1/2001	SS-402 SS402S 3/1/2001	SS-SI001 SS-SI001 6/6/2006	SS-SI002 SI002 6/7/2006	SS-SI003 SS-SI003 6/6/2006	SS-SI004 SS-SI004 6/5/2006
Endosulfan II										0.0135	<0.0119	<0.00565	<0.00607
Endosulfan sulfate										<0.0061	<0.0119	<0.00565	<0.00607
Endrin ketone										<0.0061	<0.0119	<0.00565	0.0131
gamma-Chlordane										0.00736	<0.0119	<0.00565	<0.00607
Heptachlor										<0.0061	<0.0119	<0.00565	<0.00607
Heptachlor epoxide										<0.0061	<0.0119	<0.00565	<0.00607
Hexachlorobenzene										<0.0061	<0.0119	<0.00565	<0.00607
Methoxychlor										<0.0061	<0.0119	<0.00565	<0.00607
Aroclor-1242										<0.0609	<0.119	<0.0565	<0.0606
Aroclor-1254										<0.0609	<0.119	<0.0565	<0.0606
Aroclor-1260										<0.0609	<0.119	<0.0565	<0.0606
<b>Inorganics (mg/kg)</b>													
Antimony			<6.9	<6.8	<6.9	<7.9	<7.4	<8.5	<8.7		<12.3	<6.3	<6.7
Arsenic	6.98	1.64	11	<3.4	<3.4	29.2	20	19.8	44.6		<3.1	3.2	5.1
Barium			27.7	<13.6	<13.7	42.2	356	45.6	58.5		38.8	11.5	12.6
Beryllium			0.347	0.211	0.131	0.346	0.281	0.265	0.372		<0.12	0.16	0.19
Cadmium			<0.694	<0.681	<0.687	<0.79	<0.74	<0.85	<0.87		<1.23	<0.63	<0.67
Chromium			8	3.5	7.84	34.4	12.5	21.7	70		10.6	6.3	6.1
Copper	2380	3250	118	66.5	87.6	86.8	66.1	81.9	76.4		127	73.5	130
Lead	241	286	157	44.9	35.5	213	402	350	453		138	85.9	74.7
Mercury			0.373	<0.0672	<0.0606	0.357	0.253	0.283	1.21		0.143	0.108	0.145
Nickel			13.7	3.96	3.67	9.02	9.53	9.86	12.6		13.9	6	4.6
Selenium			<6.9	<6.8	<6.9	<7.9	<7.4	<8.5	<8.7		<12.3	<6.3	<6.7
Silver			30	3.24	4.81	19	35.6	63.9	53.5		10.7	9.28	11.2
Zinc			49.6	26.7	29.5	64.4	88	139	83.4		120	18.1	19.9
Total Cyanide													
<b>TPH (mg/kg)</b>													
Total Petroleum Hydrocarbons (TPH)													
<b>Dioxins/Furans (mg/kg)</b>													
1,2,3,4,6,7,8-HpCDD										0.000039	0.000012	0.0000098	0.0000064
1,2,3,4,6,7,8-HpCDF										0.00001	0.0000091	0.000013	0.0000072
1,2,3,4,7,8,9-HpCDF										< 0.0000011	0.0000021 J	0.0000012 J	< 0.0000011
1,2,3,4,7,8-HxCDD										< 0.0000011	0.0000015 J	< 0.00000098	< 0.0000011
1,2,3,4,7,8-HxCDF										0.0000021 J	0.0000077	0.0000034 J	0.0000017 J
1,2,3,6,7,8-HxCDD										0.0000027 J	0.0000027 J	0.0000013 J	< 0.0000011
1,2,3,6,7,8-HxCDF										0.0000021 J	< 0.0000011 E	0.0000037 J	0.0000016 J
1,2,3,7,8,9-HxCDD										0.0000024 J	0.0000019 J	0.000001 J	< 0.0000011
1,2,3,7,8,9-HxCDF										< 0.0000011	0.0000049 J	0.000002 J	< 0.0000011
1,2,3,7,8-PeCDD										< 0.0000011	0.0000034 J	< 0.00000098	< 0.0000011
1,2,3,7,8-PeCDF										< 0.0000011	0.0000032 J	0.0000024 J	0.0000015 J
2,3,4,6,7,8-HxCDF										0.0000022 J	0.0000057	0.000011	0.0000027 J

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2,3,4,7,8-PeCDF										0.0000057	0.000023	0.000035	0.0000043 J
2,3,7,8-TCDD										0.0000024 J	0.000001 J	0.0000027 J	0.0000023 J
2,3,7,8-TCDF										0.0000018	0.0000019	0.0000038	0.0000025 A
OCDD										0.00027	0.00005	0.000063	0.000046
OCDF										0.000014	0.0000047 J	0.000008 J	0.0000073 J
TOTAL HpCDD										0.000076	0.000025	0.00002	0.000013
TOTAL HpCDF										0.000022	0.000022	0.000025	0.00001
TOTAL HxCDD										0.000027	0.000039	0.000015	0.0000062
TOTAL HxCDF										0.000025	0.00016	0.00016	0.000019
TOTAL PeCDD										0.0000087	0.000037	0.000007	0.0000021 J
TOTAL PeCDF										0.000061	0.00025	0.00059	0.000059
TOTAL TCDD										0.0000092	0.00002	0.0000067	0.0000058
TOTAL TCDF										0.000026	0.000081	0.00016	0.000045
TEQ-Mammal										0.0000056	0.000019	0.000021	0.000004

< - Compound not detected, value is detection limit.  
 A - Detection limit based on signal-to-noise measurement.  
 B - Less than 10 time higher than method blank level.  
 E - PCDE Interference.  
 J - Value is estimated.  
 mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.

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Parameter	SS-SI005 SS-SI005 6/5/2006	SS-SI006 SS-SI006 6/5/2006	SS-SI007 SS-SI007 6/6/2006	SS-SI008 SS-SI008 6/6/2006	SS-SI010 SS-SI010 6/6/2006	SS-SI011 SS-SI011 6/6/2006	SS-SI012 SS-SI012 6/8/2006	SS-SI013 SS-SI013 6/8/2006	SS-SI014 SS-SI014 6/8/2006	SS-SI015 SS-SI015 6/8/2006
<b>Volatile Organics (mg/kg)</b>										
1,1,1-Trichloroethane	<0.0077	<0.0046	<0.0092	0.145	<0.0054	<0.0055				
1,1-Dichloroethane	<0.0077	<0.0046	<0.0092	0.0068	<0.0054	<0.0055				
2-Butanone	<0.0773	<0.0465	<0.0917	<0.0652	<0.0536	<0.0548				
Acetone	<0.0773	<0.0465	<0.0917	<0.0652	<0.0536	<0.0548				
Methylene Chloride	<0.0387	<0.0232	<0.0459	<0.0326	<0.0268	<0.0274				
Naphthalene	<0.0077	<0.0046	<0.0092	<0.0065	0.0075	<0.0055				
Tetrachloroethene	<0.0077	<0.0046	<0.0092	<0.0065	0.0105	<0.0055				
Trichloroethene	<0.0077	<0.0046	<0.0092	0.0628	<0.0054	<0.0055				
Xylenes, Total	0.0232	0.0139	0.0275	0.0195	0.0161	0.0165				
<b>Semivolatile Organics (mg/kg)</b>										
1-Methylnaphthalene	<0.0467	<0.644	<0.898	<0.777	4.03	<0.661	<0.0277	<0.027	<0.0261	<0.559
2-Methylnaphthalene	<0.0467	<0.644	<0.898	<0.777	5.9	<0.661	<0.0277	<0.027	<0.0261	<0.559
Acenaphthene	<0.0467	1.36	<0.898	<0.777	9.94	<0.661	<0.0277	<0.027	<0.0261	<0.559
Acenaphthylene	<0.0467	<0.644	<0.898	<0.777	2.51	<0.661	<0.0277	<0.027	<0.0261	<0.559
Anthracene	0.0635	3.33	<0.898	<0.777	10.8	1.06	<0.0277	0.0811	<0.0261	0.784
Benzo(a)anthracene	0.234	6.09	2.12	1.48	46.3	3.33	0.177	0.193	<0.0261	2.78
Benzo(a)pyrene	0.235	4.93	2.1	1.69	41.6	3.25	0.211	0.165	<0.0261	2.69
Benzo(b)fluoranthene	0.289	5.06	2.76	2.26	39.4	3.65	0.244	0.222	<0.0261	2.68
Benzo(g,h,i)perylene	0.0701	1.7	1.48	0.953	28.3	1.4	0.061	0.0513	<0.0261	1.55
Benzo(k)fluoranthene	0.233	3.46	1.57	1.61	39.5	2.24	0.192	0.157	<0.0261	1.95
bis(2-Ethylhexyl)phthalate										
Chrysene	0.254	5.72	2.31	1.77	54.2	3.23	0.184	0.195	<0.0261	2.7
Dibenzo(a,h)anthracene	<0.0467	<0.644	<0.898	<0.777	2.06	<0.661	0.0277	<0.027	<0.0261	<0.559
Dibenzofuran										
Fluoranthene	1.02	12.1	4.09	2.24	116	8.2	0.495	0.504	<0.0261	5.52
Fluorene	<0.0467	1.37	<0.898	<0.777	9.52	<0.661	<0.0277	0.0438	<0.0261	<0.559
Indeno(1,2,3-cd)pyrene	0.071	1.85	1.42	0.898	27.9	1.43	0.0682	0.0573	<0.0261	1.53
Naphthalene	<0.0467	<0.644	<0.898	<0.777	17.5	<0.661	<0.0277	<0.027	<0.0261	<0.559
Phenanthrene	0.342	12.4	4.21	2.42	122	4.85	0.0621	0.413	<0.0261	3.71
Pyrene	0.441	9.12	6.34	4.36	142	6.26	0.294	0.438	<0.0261	3.97
<b>Pesticides/PCBs (mg/kg)</b>										
4,4'-DDD	0.0406	<0.00641	<0.00862	<0.00762	<0.00544	0.0207	<0.00528	<0.00514	<0.00507	0.00729
4,4'-DDE	0.0383	0.0391	0.0118	<0.00762	<0.00544	0.0625	<0.00528	<0.00514	<0.00507	0.0191
4,4'-DDT	0.0573	0.0634	0.126	0.95	0.0404	0.169	0.00976	<0.00514	<0.00507	0.109
alpha-BHC	<0.00943	0.00933	<0.00862	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
alpha-Chlordane	0.017	0.0172	0.0106	<0.00762	<0.00544	0.0374	<0.00528	<0.00514	<0.00507	0.0354
beta-BHC	<0.00943	<0.00641	0.0584	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Chlordane	0.227	0.185	0.198	<0.0762	<0.0544	0.377	<0.0528	<0.0514	<0.0507	0.226
delta-BHC	<0.00943	<0.00641	<0.00862	<0.00762	0.0148	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Dieldrin	<0.00943	0.0321	<0.00862	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562

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Parameter	SS-SI005 SS-SI005 6/5/2006	SS-SI006 SS-SI006 6/5/2006	SS-SI007 SS-SI007 6/6/2006	SS-SI008 SS-SI008 6/6/2006	SS-SI010 SS-SI010 6/6/2006	SS-SI011 SS-SI011 6/6/2006	SS-SI012 SS-SI012 6/8/2006	SS-SI013 SS-SI013 6/8/2006	SS-SI014 SS-SI014 6/8/2006	SS-SI015 SS-SI015 6/8/2006
Endosulfan II	<0.00943	<0.00641	<0.00862	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Endosulfan sulfate	<0.00943	<0.00641	<0.00862	<0.00762	0.0116	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Endrin ketone	<0.00943	<0.00641	<0.00862	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
gamma-Chlordane	0.027	0.0276	0.0191	<0.00762	0.0926	0.0457	<0.00528	<0.00514	<0.00507	0.0248
Heptachlor	<0.00943	0.00894	<0.00862	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Heptachlor epoxide	<0.00943	<0.00641	<0.00862	0.297	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Hexachlorobenzene	<0.00943	<0.00641	0.0118	<0.00762	<0.00544	<0.00651	<0.00528	<0.00514	<0.00507	<0.00562
Methoxychlor	<0.00943	<0.00641	<0.00862	<0.00762	<0.00544	0.0505	<0.00528	<0.00514	<0.00507	<0.00562
Aroclor-1242	<0.0942	0.483	<0.0861	<0.0761	<0.0543	<0.0651	<0.0527	<0.0514	<0.0506	<0.0561
Aroclor-1254	0.245	0.369	0.423	6.02	0.0875	<0.0651	<0.0527	<0.0514	<0.0506	0.126
Aroclor-1260	<0.0942	<0.064	0.331	1.34	<0.0543	<0.0651	<0.0527	<0.0514	<0.0506	<0.0561
<b>Inorganics (mg/kg)</b>										
Antimony	<10	<7.2	<9.7	32.1	<6.4	<7.5	<6.1	<6.1	<6	<6.1
Arsenic	3.3	3.3	<2.4	17.6	4.5	5.4	1.9	<1.5	1.5	3
Barium	99.1	218	386	93.3	33	53.4	12.7	54.9	36.1	41.4
Beryllium	0.25	0.24	0.32	0.77	0.24	0.25	<0.06	<0.31	<0.06	0.17
Cadmium	2.42	2.21	6.84	21.7	<0.64	1.84	<0.61	<0.61	<0.6	<0.61
Chromium	147	140	61.4	746	126	110	7.4	10.8	9.8	11.3
Copper	2030	4180	1090	14100	2320	5290	8.4	26.3	22.8	37.9
Lead	470	561	1710	3350	273	562	15.4	8.5	9.3	54.4
Mercury	0.279	0.795	4.67	2.89	0.358	1.02	0.055	<0.034	<0.032	0.571
Nickel	82.5	38.2	84.4	76.6	35	51.5	3.3	11.1	9.3	10
Selenium	<10	<7.2	<9.7	<8.6	<6.4	<7.5	<6.1	<6.1	<6	<6.1
Silver	42.1	137	385	379	128	67.5	0.81	<0.61	<0.6	12
Zinc	784	2650	1390	1470	415	1200	16.2	29.4	27.3	67.3
Total Cyanide										
<b>TPH (mg/kg)</b>										
Total Petroleum Hydrocarbons (TPH)										
<b>Dioxins/Furans (mg/kg)</b>										
1,2,3,4,6,7,8-HpCDD	0.000086	0.00013	0.00083	0.0016 A	0.000055	0.000039	0.000012 J	0.000011 J	0.0000085 J	0.000015
1,2,3,4,6,7,8-HpCDF	0.000038	0.00011	0.002	0.00099 A	< 0.000011 I	0.000026	0.000012 J	< 0.0000082	< 0.0000081	0.0000092
1,2,3,4,7,8,9-HpCDF	0.000048 J	0.000011	0.00025	0.00013 A	< 0.000011	0.000003 J	< 0.0000081	< 0.0000082	< 0.0000081	0.0000018 J
1,2,3,4,7,8-HxCDD	0.0000027 J	0.0000055	0.00009	0.000062 A	< 0.000011	0.0000017 J	< 0.0000081	< 0.0000082	< 0.0000081	< 0.0000084
1,2,3,4,7,8-HxCDF	0.000012	0.000025	0.00062 A	0.00029	< 0.000011	0.0000075	< 0.0000081	< 0.0000082	< 0.0000081	0.000004 J
1,2,3,6,7,8-HxCDD	0.0000085	0.000014	0.00017 A	0.00015 A	< 0.000011	0.000004 J	< 0.0000081	< 0.0000082	< 0.0000081	0.0000018 J
1,2,3,6,7,8-HxCDF	0.000017	0.000069	0.00058	0.00023	< 0.000011	< 0.000001 E	< 0.0000081 E	< 0.0000082	< 0.0000081	0.0000029 J
1,2,3,7,8,9-HxCDD	0.0000055 J	0.0000057	0.00013	0.00011 A	< 0.000011	0.0000024 J	< 0.0000081	< 0.0000082	< 0.0000081	0.0000011 J
1,2,3,7,8,9-HxCDF	0.0000064	0.00001	0.00023	0.0001 A	< 0.000011	0.0000028 J	< 0.0000081	< 0.0000082	< 0.0000081	0.0000019 J
1,2,3,7,8-PeCDD	0.0000043 J	0.0000084	0.00011	0.000042	< 0.000011	0.0000025 J	< 0.0000081	< 0.0000082	< 0.0000081	< 0.0000084
1,2,3,7,8-PeCDF	0.0000054 J	0.0000099	< 0.000013 EA	< 0.000001 E	< 0.000011	< 0.000001 E	< 0.0000081	< 0.0000082	< 0.0000081	< 0.0000084
2,3,4,6,7,8-HxCDF	0.000017	0.000027	0.00059 A	0.00026	< 0.000011	0.0000062	< 0.0000081	< 0.0000082	< 0.0000081	0.0000024 J

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	SS-SI005 6/5/2006	SS-SI006 6/5/2006	SS-SI007 6/6/2006	SS-SI008 6/6/2006	SS-SI010 6/6/2006	SS-SI011 6/6/2006	SS-SI012 6/8/2006	SS-SI013 6/8/2006	SS-SI014 6/8/2006	SS-SI015 6/8/2006
2,3,4,7,8-PeCDF	0.000077	0.000019	0.001	0.00049	0.000017	0.000018	0.000011 J	< 0.0000082	< 0.0000081	0.000032 J
2,3,7,8-TCDD	0.000009 J	0.000011 A	0.000029 A	0.000062 A	< 0.000023	< 0.0000021 IA	< 0.0000016	< 0.0000016	< 0.0000016	< 0.0000017 A
2,3,7,8-TCDF	0.000011	0.000012 A	0.00037 A	0.00014 A	< 0.000023	0.000025 A	< 0.0000016	< 0.0000016	< 0.0000016	0.0000085 A
OCDD	0.0006	0.001	0.002	0.0095 A	0.00038	0.00026	0.000011	0.000084	0.000007 J	0.00027
OCDF	0.000035	0.00017	0.00086	0.00097	0.000046	0.000023	< 0.0000016	< 0.0000016	< 0.0000016	0.000014
TOTAL HpCDD	0.00018	0.00027	0.0017	0.0028	0.00013	0.000069	0.000024 J	0.0000021 J	0.0000085 J	0.00003
TOTAL HpCDF	0.000043	0.00022	0.0031	0.0022	0.000025	0.000047	0.000012 J	< 0.0000082	< 0.0000081	0.000023
TOTAL HxCDD	0.000092	0.00024	0.0022	0.0015	< 0.000011	0.000043	< 0.0000081	< 0.0000082	< 0.0000081	0.00002
TOTAL HxCDF	0.00046	0.00036	0.0068	0.0035	0.000059	0.00011	0.000063	< 0.0000082	< 0.0000081	0.000072
TOTAL PeCDD	0.000047	0.000093	0.0014	0.00066	< 0.000011	0.000016	< 0.0000081	< 0.0000082	< 0.0000081	0.0000056
TOTAL PeCDF	0.00083	0.00032	0.0071	0.0038	0.000068	0.00011	0.000013	< 0.0000082	0.000015 J	0.000064
TOTAL TCDD	0.000028	0.000055	0.0008	0.0004	< 0.000023	0.000015	< 0.0000016	< 0.0000016	< 0.0000016	0.0000024
TOTAL TCDF	0.00026	0.00024	0.0054	0.0019	0.000025	0.000067	0.000041	< 0.0000016	0.0000035 BJ	0.000029
TEQ-Mammal	0.000053	0.000033	0.00095	0.00046	0.000020	0.000015	0.000014	0.000010	0.000010	0.000004

< - Compound not detected, value is detection limit.

A - Detection limit based on signal-to-noise measurement.

B - Less than 10 time higher than method blank level.

E - PCDE Interference.

J - Value is estimated.

mg/kg - milligrams per kilogram

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.

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Parameter	SS-SI016 SS-SI016 6/8/2006	SS-SI017 SS SI017 6/8/2006	SS-SI018 SS SI018 6/8/2006	SS-SI019 SS-SI019 6/8/2006	SS-SI020 SS-SI020 6/8/2006	SS-SI021 SS-SI021 6/8/2006	SS-SI022 SS-SI022 6/8/2006	SS-SI023 SS-SI023 6/7/2006	SS-SI024 SS-SI024 6/7/2006	TP-039 (94) GMTP039XX 101XX 10/10/1994
<b>Volatile Organics (mg/kg)</b>										
1,1,1-Trichloroethane							<0.0063			<0.025
1,1-Dichloroethane							<0.0063			<0.025
2-Butanone							<0.0633			<0.25
Acetone							<0.0633			<0.25
Methylene Chloride							<0.0316			<0.025
Naphthalene							<0.0063			
Tetrachloroethene							<0.0063			<0.025
Trichloroethene							<0.0063			0.14
Xylenes, Total							0.019			<0.05
<b>Semivolatile Organics (mg/kg)</b>										
1-Methylnaphthalene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	<0.68	
2-Methylnaphthalene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	<0.68	
Acenaphthene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	<0.68	
Acenaphthylene	<0.543	0.574	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	2.97	
Anthracene	<0.543	1.05	<0.0272	<0.0264	0.558	<0.643	<0.544	<0.644	2.34	
Benzo(a)anthracene	1.36	3.12	0.0717	0.0332	2.24	<0.643	1.33	<0.644	9.67	
Benzo(a)pyrene	1.65	3.11	0.0869	0.0585	2.35	<0.643	2.01	<0.644	9.54	
Benzo(b)fluoranthene	1.95	3.33	0.125	0.0886	2.47	<0.643	2.22	<0.644	10.9	
Benzo(g,h,i)perylene	0.944	1.35	<0.0272	<0.0264	1.21	<0.643	1.33	<0.644	4.11	
Benzo(k)fluoranthene	1.36	2.25	0.0934	0.0638	1.76	<0.643	1.36	<0.644	9.81	
bis(2-Ethylhexyl)phthalate										
Chrysene	1.47	2.96	0.0766	0.0427	2.16	<0.643	1.39	<0.644	11.6	
Dibenzo(a,h)anthracene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	<0.68	
Dibenzofuran										
Fluoranthene	2.84	6.95	0.273	0.116	4.8	<0.643	2.01	1.3	17.7	
Fluorene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	1.07	
Indeno(1,2,3-cd)pyrene	0.952	1.38	0.0293	<0.0264	1.16	<0.643	1.29	<0.644	4.54	
Naphthalene	<0.543	<0.529	<0.0272	<0.0264	<0.552	<0.643	<0.544	<0.644	1.08	
Phenanthrene	0.664	5.09	0.0565	0.0364	2.56	<0.643	<0.544	0.868	11.1	
Pyrene	1.91	5.42	0.171	0.0828	4.04	1.45	1.54	1.25	21.2	
<b>Pesticides/PCBs (mg/kg)</b>										
4,4'-DDD	<0.00572	0.0228	<0.00549	<0.00554	0.00837	<0.0063	<0.00523	0.0235	0.0164	
4,4'-DDE	<0.00572	0.0486	<0.00549	<0.00554	0.0397	0.019	<0.00523	0.0458	0.0297	
4,4'-DDT	0.00858	0.0332	<0.00549	<0.00554	0.107	0.143	0.0105	0.0609	0.0617	
alpha-BHC	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
alpha-Chlordane	<0.00572	0.0763	<0.00549	<0.00554	0.0661	<0.0063	<0.00523	0.258	0.0411	
beta-BHC	<0.00572	<0.00558	<0.00549	<0.00554	0.097	<0.0063	<0.00523	<0.00611	<0.00669	
Chlordane	<0.0572	0.372	<0.0549	<0.0554	<0.0598	<0.063	<0.0523	2.09	0.323	
delta-BHC	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
Dieldrin	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	

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Parameter	SS-SI016	SS-SI017	SS-SI018	SS-SI019	SS-SI020	SS-SI021	SS-SI022	SS-SI023	SS-SI024	TP-039 (94) GMTP039XX 101XX 10/10/1994
	SS-SI016 6/8/2006	SS-SI017 SI017 6/8/2006	SS-SI018 SI018 6/8/2006	SS-SI019 SS-SI019 6/8/2006	SS-SI020 SS-SI020 6/8/2006	SS-SI021 SS-SI021 6/8/2006	SS-SI022 SS-SI022 6/8/2006	SS-SI023 SS-SI023 6/7/2006	SS-SI024 SS-SI024 6/7/2006	
Endosulfan II	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
Endosulfan sulfate	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
Endrin ketone	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
gamma-Chlordane	0.00729	0.0483	<0.00549	<0.00554	0.158	<0.0063	0.00737	0.18	0.0363	
Heptachlor	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
Heptachlor epoxide	<0.00572	0.00869	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	0.124	<0.00669	
Hexachlorobenzene	<0.00572	<0.00558	<0.00549	<0.00554	0.0339	<0.0063	<0.00523	<0.00611	<0.00669	
Methoxychlor	<0.00572	<0.00558	<0.00549	<0.00554	<0.00598	<0.0063	<0.00523	<0.00611	<0.00669	
Aroclor-1242	<0.0572	<0.0558	<0.0548	<0.0554	6.87	<0.0629	<0.0523	<0.061	<0.0669	
Aroclor-1254	<0.0572	<0.0558	<0.0548	<0.0554	<0.0597	<0.0629	<0.0523	<0.061	<0.0669	
Aroclor-1260	<0.0572	<0.0558	<0.0548	<0.0554	<0.0597	<0.0629	<0.0523	<0.061	<0.0669	
<b>Inorganics (mg/kg)</b>										
Antimony	<6.1	<6	<6	<6.1	<6.3	<7.1	<6.2	<7.3	<7.4	
Arsenic	<1.5	3.5	<1.5	<1.5	3	<1.8	<1.6	37.3	4.5	
Barium	27.3	44.1	29.4	22.8	47.4	15.6	28.4	31.3	75.8	
Beryllium	<0.06	0.13	<0.06	<0.06	0.15	0.14	<0.06	0.13	0.21	
Cadmium	<0.61	<0.6	<0.6	<0.61	<0.63	<0.71	<0.62	1.15	<0.74	
Chromium	9.3	12.1	11.8	11.4	13.9	5	13.5	21	11.4	
Copper	26.3	60.4	28.1	23.7	50.3	15.7	27.5	36	153	
Lead	10.2	99.4	6.8	<6.1	67.7	43	14.5	113	231	
Mercury	<0.035	0.789	<0.034	<0.032	0.539	0.07	0.098	0.284	0.228	
Nickel	9.1	11	10.4	9.3	11.5	5	10.4	6.7	13.8	
Selenium	<6.1	<6	<6	<6.1	<6.3	<7.1	<6.2	<7.3	<7.4	
Silver	<0.61	13.4	<0.6	<0.61	10.8	2.81	1.98	7.94	28.7	
Zinc	24.2	97.1	26.2	23.6	82.3	49.1	31.8	32.6	125	
Total Cyanide										
<b>TPH (mg/kg)</b>										
Total Petroleum Hydrocarbons (TPH)										
<b>Dioxins/Furans (mg/kg)</b>										
1,2,3,4,6,7,8-HpCDD	0.0000049	0.000015	0.000001 J	0.0000093 J	0.000026	0.000014	0.0000028 J	0.0000055	< 0.000031	
1,2,3,4,6,7,8-HpCDF	0.0000045	0.000011	< 0.0000081	< 0.0000081	0.000013	0.0000077	0.0000018 J	0.0000094	< 0.000031	
1,2,3,4,7,8,9-HpCDF	< 0.0000081	0.000002 J	< 0.0000081	< 0.0000081	0.0000027 J	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,4,7,8-HxCDD	< 0.0000081	< 0.0000083	< 0.0000081	< 0.0000081	< 0.0000084	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,4,7,8-HxCDF	0.0000012 J	0.0000046	< 0.0000081	< 0.0000081	0.0000062	0.0000018 J	< 0.0000083	0.0000011 J	< 0.000031	
1,2,3,6,7,8-HxCDD	0.0000097 J	0.0000021 J	< 0.0000081	< 0.0000081	0.0000033 J	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,6,7,8-HxCDF	< 0.0000081 E	0.0000034 J	< 0.0000081	< 0.0000081	0.000004 J	0.0000023 J	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,7,8,9-HxCDD	< 0.0000081	0.0000095 J	< 0.0000081	< 0.0000081	0.0000018 J	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,7,8,9-HxCDF	< 0.0000081 E	0.0000021 J	< 0.0000081	< 0.0000081	0.0000039 J	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,7,8-PeCDD	< 0.0000081	< 0.0000083	< 0.0000081	< 0.0000081	0.0000014 J	< 0.0000099	< 0.0000083	< 0.0000097	< 0.000031	
1,2,3,7,8-PeCDF	< 0.0000081 E	0.0000012 J	< 0.0000081	< 0.0000081	< 0.0000084 E	0.0000017 J	< 0.0000083	< 0.0000097	< 0.000031	
2,3,4,6,7,8-HxCDF	< 0.0000081 I	0.0000022 J	< 0.0000081	< 0.0000081	0.0000031 J	0.000003 J	< 0.0000083	0.0000011 J	< 0.000031	

Table 4.1  
 Compounds Detected in Soil  
 Supplemental Site Investigation Report  
 Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, Rhode Island

Parameter	SS-SI016	SS-SI017	SS-SI018	SS-SI019	SS-SI020	SS-SI021	SS-SI022	SS-SI023	SS-SI024	TP-039 (94) GMTP039XX 101XX 10/10/1994
	SS-SI016 6/8/2006	SI017 6/8/2006	SI018 6/8/2006	SS-SI019 6/8/2006	SS-SI020 6/8/2006	SS-SI021 6/8/2006	SS-SI022 6/8/2006	SS-SI023 6/7/2006	SS-SI024 6/7/2006	
2,3,4,7,8-PeCDF	0.0000066	0.0000066	< 0.0000081	< 0.0000081	0.0000048	0.000005	0.0000026 J	0.0000014 J	< 0.000031	
2,3,7,8-TCDD	0.0000022 JA	0.0000022 J	< 0.0000016	< 0.0000016	0.0000019 J	0.0000021 J	< 0.0000017	< 0.0000019	< 0.0000063	
2,3,7,8-TCDF	0.000009 A	0.0000073 JA	0.0000018 J	< 0.0000016	0.0000075 JA	0.0000016	0.0000026 J	0.0000081 J	< 0.0000063	
OCDD	0.000057	0.00031	0.0000072 J	0.0000059 J	0.00042	0.0001	0.000037	0.000058	0.00021	
OCDF	< 0.0000016 I	0.0000096	< 0.0000016	< 0.0000016	0.000018	0.0000077 J	< 0.0000017 I	0.0000069 J	< 0.000063	
TOTAL HpCDD	0.00001	0.000031	0.000002 J	0.0000093 J	0.000055	0.000028	0.0000063	0.000011	< 0.000031	
TOTAL HpCDF	0.0000097	0.000022	< 0.0000081	0.000001 J	0.000031	0.000014	0.0000043	0.000014	< 0.000031	
TOTAL HxCDD	0.000061	0.000023	< 0.0000081	< 0.0000081	0.000041	0.000011	0.0000029 J	0.0000027 J	< 0.000031	
TOTAL HxCDF	0.000051	0.000047	< 0.0000081	< 0.0000081	0.0001	0.000034	0.0000072	0.00001	< 0.000031	
TOTAL PeCDD	< 0.0000081	0.000012	< 0.0000081	< 0.0000081	0.000019	0.0000038 J	< 0.0000083	< 0.0000097	< 0.000031	
TOTAL PeCDF	0.00011	0.000039	0.0000011 J	< 0.0000081	0.000065	0.000053	0.000026	0.000011	0.000036	
TOTAL TCDD	0.000011	0.000046	< 0.0000016	< 0.0000016	0.000049	0.000079	0.0000031 J	0.000022	< 0.000063	
TOTAL TCDF	0.000027	0.000022	0.0000018 BJ	< 0.0000016	0.000021	0.000039	0.0000083	0.000012	0.000014	
TEQ-Mammal	0.000005	0.0000060	0.0000010	0.0000010	0.0000068	0.0000046	0.0000022	0.0000020	0.000039	

< - Compound not detected, value is detection limit.

A - Detection limit based on signal-to-noise measurement.

B - Less than 10 time higher than method blank level.

E - PCDE Interference.

J - Value is estimated.

mg/kg - milligrams per kilogram

Prepared by: BJR

Checked by: KJC

Note: Comparison to Industrial/Commercial Direct Exposure Criteria,  
 Upper Confidence Limit and GB Leachability presented in Table 4.2.



**Table 4.2**  
**Comparison of Soil Data to Method 1 Criteria**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Parameter	Frequency of Detection	Range of Detected Concentrations	Average of Samples <sup>1</sup>	Residential <sup>2</sup>	Industrial / Commercial <sup>2</sup>	GB Leachability <sup>2</sup>	Number of Results Which Exceed the Ind/Com Standard	Maximum > Five Times Ind/Com Standard?	More than 10% of Samples Exceed Ind/Com Standard?	Maximum > UCL <sup>3</sup>	Maximum >GB Leachability
<b>Volatile Organics (mg/kg)</b>											
1,1,1-Trichloroethane	1 / 17	0.145 - 0.145	0.056	540	10000	160		No	No	No	No
1,1-Dichloroethane	1 / 17	0.0068 - 0.0068	0.048	920	10000			No	No	No	NS
2-Butanone	1 / 16	5.8 - 5.8	0.41	10000	10000			No	No	No	NS
Acetone	2 / 16	0.209 - 0.313	0.23	7800	10000			No	No	No	NS
Methylene Chloride	1 / 17	0.5 - 0.5	0.070	45	760			No	No	No	NS
Naphthalene	1 / 14	0.0075 - 0.0075	0.0038	54	10000			No	No	No	NS
Tetrachloroethene	2 / 17	0.0105 - 1.1	0.098	12	110	4.2		No	No	No	No
Trichloroethene	3 / 17	0.0628 - 6.1	0.40	13	520	20		No	No	No	No
Xylenes, Total	10 / 17	0.0138 - 0.0319	0.073	110	10000			No	No	No	NS
<b>Semivolatile Organics (mg/kg)</b>											
1-Methylnaphthalene <sup>4</sup>	1 / 32	4.03 - 4.03	0.31	123	10000			No	No	No	NS
2-Methylnaphthalene	3 / 77	0.345 - 5.9	0.42	123	10000			No	No	No	NS
Acenaphthene	5 / 77	0.819 - 9.94	0.55	43	10000			No	No	No	NS
Acenaphthylene	4 / 77	0.13 - 2.97	0.37	23	10000			No	No	No	NS
Anthracene	23 / 77	0.0572 - 10.8	0.83	35	10000			No	No	No	NS
Benzo(a)anthracene	45 / 77	0.0332 - 46.3	2.1	0.9	7.8		3	Yes	No	No	NS
Benzo(a)pyrene	46 / 77	0.0273 - 41.6	1.9	0.4	0.8		30	Yes	Yes	No	NS
Benzo(b)fluoranthene	46 / 77	0.0867 - 39.4	2.1	0.9	7.8		3	Yes	No	No	NS
Benzo(g,h,i)perylene	37 / 77	0.0283 - 28.3	1.15	0.8	10000			No	No	No	NS
Benzo(k)fluoranthene	40 / 77	0.0638 - 39.5	1.5	0.9	78			No	No	No	NS
bis(2-Ethylhexyl)phthalate	2 / 18	0.379 - 0.81	0.74	46	410			No	No	No	NS
Chrysene	48 / 77	0.0284 - 54.2	2.2	0.4	780			No	No	No	NS
Dibenzo(a,h)anthracene	8 / 77	0.0277 - 2.06	0.35	0.4	0.8		2	No	No	No	NS
Dibenzofuran <sup>5</sup>	1 / 18	0.824 - 0.824	0.83	156	4088			No	No	No	NS
Fluoranthene	49 / 77	0.0626 - 116	4.2	20	10000			No	No	No	NS
Fluorene	7 / 77	0.0438 - 9.52	0.54	28	10000			No	No	No	NS
Indeno(1,2,3-cd)pyrene	38 / 77	0.0293 - 27.9	1.1	0.9	7.8		1	No	No	No	NS
Naphthalene	6 / 77	0.398 - 17.5	0.67	54	10000			No	No	No	NS
Phenanthrene	47 / 77	0.0364 - 122	4.2	40	10000			No	No	No	NS
Pyrene	54 / 77	0.0375 - 142	5.3	13	10000			No	No	No	NS
<b>Pesticides/PCBs (mg/kg)</b>											
4,4'-DDD <sup>5</sup>	8 / 31	0.00729 - 0.048	0.0082	2.7	24			No	No	No	NS
4,4'-DDE <sup>5</sup>	16 / 31	0.00723 - 0.116	0.019	1.9	17			No	No	No	NS
4,4'-DDT <sup>5</sup>	22 / 31	0.0085 - 0.95	0.084	1.9	17			No	No	No	NS
alpha-BHC <sup>5</sup>	1 / 31	0.00933 - 0.00933	0.0033	0.10	0.91			No	No	No	NS
alpha-Chlordane <sup>5</sup>	9 / 31	0.0106 - 0.258	0.020	1.8	16.352			No	No	No	NS
beta-BHC <sup>5</sup>	2 / 31	0.0584 - 0.097	0.0079	0.35	3.2			No	No	No	NS
Chlordane	8 / 31	0.185 - 2.09	0.15	0.50	4.4			No	No	No	NS
delta-BHC <sup>5</sup>	2 / 31	0.00804 - 0.0148	0.0037	0.49	4.4			No	No	No	NS
Dieldrin	1 / 31	0.0321 - 0.0321	0.0041	0.040	0.40			No	No	No	NS
Endosulfan II <sup>5</sup>	1 / 31	0.0135 - 0.0135	0.0035	469	12264			No	No	No	NS
Endosulfan sulfate <sup>5</sup>	1 / 31	0.0116 - 0.0116	0.0034	469	12264			No	No	No	NS
Endrin ketone <sup>5</sup>	1 / 31	0.0131 - 0.0131	0.0034	23	613			No	No	No	NS
gamma-Chlordane <sup>5</sup>	13 / 31	0.00729 - 0.18	0.024	1.8	16			No	No	No	NS
Heptachlor <sup>5</sup>	1 / 31	0.00894 - 0.00894	0.0033	0.14	1.3			No	No	No	NS
Heptachlor epoxide <sup>5</sup>	3 / 31	0.00869 - 0.297	0.017	0.070	0.63			No	No	No	NS

**Table 4.2**  
**Comparison of Soil Data to Method 1 Criteria**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Parameter	Frequency of Detection	Range of Detected Concentrations	Average of Samples <sup>1</sup>	Residential <sup>2</sup>	Industrial / Commercial <sup>2</sup>	GB Leachability <sup>2</sup>	Number of Results Which Exceed the Ind/Com Standard	Maximum > Five Times Ind/Com Standard?	More than 10% of Samples Exceed Ind/Com Standard?	Maximum > UCL <sup>3</sup>	Maximum >GB Leachability
Hexachlorobenzene	2 / 31	0.0118 - 0.0339	0.0044	0.40	3.6			No	No	No	NS
Methoxychlor <sup>5</sup>	1 / 31	0.0505 - 0.0505	0.0046	391	10220			No	No	No	NS
Aroclor-1242	2 / 41	0.483 - 6.87	0.31	10	10	10		No	No	No	No
Aroclor-1254	7 / 41	0.0875 - 6.02	0.32	10	10	10		No	No	No	No
Aroclor-1260	3 / 41	0.331 - 4.04	0.27	10	10	10		No	No	No	No
Total PCBs <sup>6</sup>	9 / 41	0.3047 - 7.9688	1.5	10	10	10		No	No	No	No
<b>Inorganics (mg/kg)</b>											
Antimony	4 / 65	2.4 - 32.1	4.5	10	820			No	No	No	NS
Arsenic	63 / 78	1.5 - 67.8	8.4	7	7		17	Yes	Yes	No	NS
Barium	32 / 34	11.5 - 510	80	5500	10000			No	No	No	NS
Beryllium	38 / 65	0.13 - 3	0.31	0.4	1.3		1	No	No	No	NS
Cadmium	17 / 65	1 - 21.7	1.2	39	1000			No	No	No	NS
Chromium <sup>7</sup>	63 / 65	3.5 - 1330	69	390	10000			No	No	No	NS
Copper	79 / 79	3 - 15800	1168	3100	10000		2	No	No	Yes	NS
Lead	73 / 78	6.8 - 4670	364	150	500		13	Yes	Yes	No	NS
Mercury	38 / 65	0.055 - 4.67	0.44	23	610			No	No	No	NS
Nickel	65 / 65	3 - 390	25	1000	10000			No	No	No	NS
Selenium	1 / 65	5 - 5	3.1	390	10000			No	No	No	NS
Silver	54 / 65	0.81 - 385	40	200	10000			No	No	No	NS
Zinc	65 / 65	8 - 4760	355	6000	10000			No	No	No	NS
Total Cyanide	1 / 15	0.5 - 0.5	0.27	200	10000			No	No	No	NS
<b>TPH (mg/kg)</b>											
Total Petroleum Hydrocarbons (TPH)	24 / 28	42 - 73800	3730	500	2500		5	Yes	Yes	Yes	NS
<b>Dioxins/Furans (mg/kg)</b>											
TEQ-Mammal <sup>5,8</sup>	33 / 33	0.00000095 - 0.00095	0.0001		0.000038		5	Yes	Yes	No	NS

<sup>1</sup> Average of samples calculated using half of the detection limit for nondetects.

<sup>2</sup> Standards are presented in Table 1 of RIDEM Remediation Regulations.

<sup>3</sup> UCL for hazardous substance in soil is 10,000 ppm except for TPH which is 30,000 ppm per Rule 8.07 of RIDEM Remediation Regulations.

<sup>4</sup> Method 1 Direct Exposure Criteria not available. 2-methylnaphthalene used as a surrogate.

<sup>5</sup> Method 1 Direct Exposure Criteria not available. A Method 2 standard was calculated and is presented in Appendix METHOD 2 DERIVATION.

<sup>6</sup> Total PCBs is the sum of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, and Aroclor-1268 using half the detection limit for non detect.

<sup>7</sup> Method 1 Direct Exposure Criteria for hexavalent chromium used.

<sup>8</sup> Toxicity Equivalents (TEQ) are calculated in Table 4.4.

NS - No standard available.  
mg/kg - milligrams per kilogram

**Table 4.3**  
**Toxicity Equivalency Factors (TEFs<sup>1</sup>) for Dioxin and Furan Congeners**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Congener	Toxicity Equivalency Factor		
	Human/Mammal	Fish	Bird
<i>Dibenzo-p-dioxins</i>			
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PnCDD	1	1	1
1,2,3,4,7,8-HxCDD	0.1	0.5	0.05
1,2,3,6,7,8-HxCDD	0.1	0.01	0.01
1,2,3,7,8,9-HxCDD	0.1	0.01	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.001	0.001
OCDD	0.0001	0.0001	0.0001
<i>Dibenzofurans</i>			
2,3,7,8-TCDF	0.1	0.05	1
1,2,3,7,8-PnCDF	0.05	0.05	0.1
2,3,4,7,8-PnCDF	0.5	0.5	1
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.01
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01
OCDF	0.0001	0.0001	0.0001

**Notes:**

<sup>1</sup> TEFs are based on the conclusions of the World Health Organization meeting in Stockholm, Sweden, June 15-18 1997 (Van den Berg et al., 1998).

Van den Berg, M., Birnbaum, L., Bosveld, B.T.C., Brunström, B., Cook, P., Feeley, M., Giesy, J.P., Hanberg, A., Hasegawa, R., Kennedy, S.W., Kubiak, T., Larsen, J.C., van Leeuwen, F.X.R., Liem, A.K.D., Nolt, C., Peterson, R.E., Poellinger, L., Safe, S., Schrenk, D., Tillitt, D., Tysklind, M., Younes, M., Waern, F., Zacharewski, 1998.

T. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. Environmental Health Perspective, 106 (12), 775-792.

**Table 4.4**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**Providence, Rhode Island**

Parameter	TEF Humans- Mammals	SS-1002 SS-1002 12/28/2005	Sample*TEF	SS-1003 SS-1003 12/28/2005	Sample*TE F	SS-206 SS-SI206 6/6/2006	Sample*TEF	SS-207 SS- SI207 6/6/2006	Sample*TEF	SS-208 SS- SI208 6/6/2006	Sample*TEF	SS-209 SS-SI209 6/6/2006
1,2,3,4,6,7,8-HpCDD	0.01	0.00015	0.0000015	0.00068	0.0000068	0.000011	0.0000011	0.0000083	8.3E-09	0.0000029	0.00000029	0.000014
1,2,3,4,6,7,8-HpCDF	0.01	0.00015	0.0000015	0.0014	0.000014	0.000013	0.0000013	0.0000038	3.8E-09	0.0000019	0.00000019	0.0000098
1,2,3,4,7,8,9-HpCDF	0.01	0.000016	0.00000016	0.00016	0.0000016	0.0000015	1.5E-08	0.0000038	3.8E-09	0.0000005	0.00000005	0.0000012
1,2,3,4,7,8-HxCDD	0.1	0.0000044	0.00000044	0.000056	0.0000056	0.0000005	0.0000005	0.0000038	0.00000038	0.0000005	0.00000005	0.0000045
1,2,3,4,7,8-HxCDF	0.1	0.000029	0.0000029	0.00045	0.000045	0.0000034	0.0000034	0.0000038	0.00000038	0.0000005	0.00000005	0.0000021
1,2,3,6,7,8-HxCDD	0.1	0.0000097	0.00000097	0.0001	0.00001	0.0000018	0.0000018	0.0000038	0.00000038	0.0000005	0.00000005	0.0000011
1,2,3,6,7,8-HxCDF	0.1	0.000024	0.0000024	0.0004	0.00004	0.0000041	0.0000041	0.0000038	0.00000038	0.0000005	0.00000005	0.000002
1,2,3,7,8,9-HxCDD	0.1	0.0000081	0.00000081	0.00007	0.000007	0.0000013	0.0000013	0.0000038	0.00000038	0.0000005	0.00000005	0.0000045
1,2,3,7,8,9-HxCDF	0.1	0.0000125	0.00000125	0.00025	0.000025	0.000001	0.000001	0.0000038	0.00000038	0.0000005	0.00000005	0.0000045
1,2,3,7,8-PeCDD	1	0.0000048	0.0000048	0.000071	0.000071	0.0000014	0.0000014	0.0000038	0.00000038	0.0000005	0.00000005	0.0000045
1,2,3,7,8-PeCDF	0.05	0.00001	0.0000005	0.00023	0.0000115	0.0000041	2.05E-07	0.0000038	0.00000019	0.0000005	0.000000025	0.0000017
2,3,4,6,7,8-HxCDF	0.1	0.000025	0.0000025	0.00046	0.000046	0.000004	0.0000004	0.0000038	0.00000038	0.0000005	0.00000005	0.0000029
2,3,4,7,8-PeCDF	0.5	0.00002	0.00001	0.00041	0.000205	0.000012	0.000006	0.0000038	0.00000019	0.0000005	0.00000025	0.0000043
2,3,7,8-TCDD	1	0.0000015	0.0000015	0.000021	0.000021	0.00000061	0.00000061	0.00000075	0.000000075	0.000000105	0.000000105	0.0000037
2,3,7,8-TCDF	0.1	0.000011	0.0000011	0.00031	0.000031	0.0000092	0.00000092	0.00000075	7.5E-09	0.0000032	0.00000032	0.0000025
OCDD	0.0001	0.0012	0.00000012	0.0017	0.00000017	0.000058	5.8E-09	0.0000049	4.9E-10	0.000021	0.00000002	0.00017
OCDF	0.0001	0.00018	0.000000018	0.00059	5.9E-08	0.000012	1.2E-09	0.00000075	7.5E-12	0.0000029	0.000000003	0.000011
TEQ-Mammal (1)			3.13E-05		<b>5.18E-04</b>		1.10E-05		9.54E-07		1.32E-06	

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.  
**Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.**

**Table 4.4**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**Providence, Rhode Island**

Parameter	Sample*TEF	SS-210 SI210 6/6/2006	Sample*TEF	SS-SI001 SS-SI001 6/6/2006	Sample*TEF	SS-SI003 SS-SI003 6/6/2006	Sample*TEF	SS-SI004 SS-SI004 6/5/2006	Sample*TEF	SS-SI005 SS-SI005 6/5/2006	Sample*TEF	SS-SI006 SS-SI006 6/5/2006
1,2,3,4,6,7,8-HpCDD	0.00000014	0.000015	0.00000015	0.000039	0.00000039	0.0000098	0.00000098	0.0000064	0.00000064	0.000086	0.00000086	0.00013
1,2,3,4,6,7,8-HpCDF	0.000000098	0.000011	0.00000011	0.00001	0.0000001	0.000013	0.00000013	0.0000072	0.00000072	0.000038	0.00000038	0.00011
1,2,3,4,7,8,9-HpCDF	0.000000012	0.0000011	0.000000011	0.00000055	5.5E-09	0.0000012	0.000000012	0.00000055	5.5E-09	0.0000048	0.000000048	0.000011
1,2,3,4,7,8-HxCDD	0.000000045	0.0000005	0.00000005	0.00000055	0.000000055	0.00000049	0.000000049	0.00000055	0.00000055	0.0000027	0.00000027	0.0000055
1,2,3,4,7,8-HxCDF	0.000000021	0.0000025	0.00000025	0.0000021	0.00000021	0.0000034	0.00000034	0.0000017	0.00000017	0.000012	0.00000012	0.000025
1,2,3,6,7,8-HxCDD	0.00000011	0.0000018	0.00000018	0.0000027	0.00000027	0.0000013	0.00000013	0.00000055	0.00000055	0.0000085	0.00000085	0.000014
1,2,3,6,7,8-HxCDF	0.00000002	0.0000032	0.00000032	0.0000021	0.00000021	0.0000037	0.00000037	0.0000016	0.00000016	0.000017	0.00000017	0.0000069
1,2,3,7,8,9-HxCDD	0.000000045	0.0000012	0.00000012	0.0000024	0.00000024	0.000001	0.0000001	0.00000055	0.00000055	0.0000055	0.00000055	0.0000057
1,2,3,7,8,9-HxCDF	0.000000045	0.0000011	0.00000011	0.00000055	0.000000055	0.000002	0.0000002	0.00000055	0.00000055	0.0000064	0.00000064	0.00001
1,2,3,7,8-PeCDD	0.000000045	0.0000005	0.00000005	0.00000055	0.000000055	0.00000049	0.000000049	0.00000055	0.00000055	0.0000043	0.00000043	0.0000084
1,2,3,7,8-PeCDF	0.000000085	0.0000014	0.00000007	0.00000055	2.75E-08	0.0000024	0.00000012	0.0000015	0.000000075	0.0000054	0.00000027	0.0000099
2,3,4,6,7,8-HxCDF	0.000000029	0.0000036	0.00000036	0.0000022	0.00000022	0.000011	0.00000011	0.0000027	0.00000027	0.000017	0.00000017	0.000027
2,3,4,7,8-PeCDF	0.00000215	0.000012	0.0000006	0.0000057	0.00000285	0.000035	0.0000175	0.0000043	0.00000215	0.000077	0.0000385	0.000019
2,3,7,8-TCDD	0.000000037	0.000000105	0.000000105	0.00000024	0.00000024	0.00000027	0.00000027	0.00000023	0.00000023	0.0000009	0.00000009	0.0000011
2,3,7,8-TCDF	0.000000025	0.0000023	0.00000023	0.0000018	0.00000018	0.0000038	0.00000038	0.0000025	0.00000025	0.000011	0.00000011	0.000012
OCDD	0.000000017	0.000087	0.000000087	0.00027	0.000000027	0.000063	0.000000063	0.000046	0.000000046	0.0006	0.00000006	0.001
OCDF	0.000000011	0.000011	0.000000011	0.000014	0.000000014	0.000008	0.0000000080	0.0000073	0.0000000073	0.000035	3.5E-09	0.00017
<b>TEQ-Mammal (1)</b>	<b>4.52E-06</b>		<b>8.58E-06</b>		<b>5.63E-06</b>		<b>2.13E-05</b>		<b>4.22E-06</b>		<b>5.33E-05</b>	

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results. Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.

**Table 4.4**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**Providence, Rhode Island**

Parameter	Sample*TEF	SS-SI007 SS-SI007 6/6/2006	Sample*TEF	SS-SI008 SS-SI008 6/6/2006	Sample*TEF	SS-SI010 SS-SI010 6/6/2006	Sample*TEF	SS-SI011 SS-SI011 6/6/2006	Sample*TEF	SS-SI101 SS-SI101 6/8/2006	Sample*TEF	SS-202 SI202 6/7/2006
1,2,3,4,6,7,8-HpCDD	0.0000013	0.00083	0.0000083	0.0016	0.000016	0.000055	0.00000055	0.000039	0.00000039	0.000036	0.000000036	0.000007
1,2,3,4,6,7,8-HpCDF	0.0000011	0.002	0.00002	0.00099	0.0000099	0.000055	0.00000055	0.000026	0.00000026	0.000036	0.000000036	0.0000048
1,2,3,4,7,8,9-HpCDF	0.00000011	0.00025	0.0000025	0.00013	0.0000013	0.000055	0.00000055	0.000003	0.00000003	0.000000445	4.45E-09	0.000000445
1,2,3,4,7,8-HxCDD	0.00000055	0.00009	0.000009	0.000062	0.0000062	0.000055	0.00000055	0.0000017	0.00000017	0.000000445	4.45E-08	0.000000445
1,2,3,4,7,8-HxCDF	0.0000025	0.00062	0.000062	0.00029	0.000029	0.000055	0.00000055	0.0000075	0.00000075	0.000000445	4.45E-08	0.0000012
1,2,3,6,7,8-HxCDD	0.0000014	0.00017	0.000017	0.00015	0.000015	0.000055	0.00000055	0.000004	0.0000004	0.000000445	4.45E-08	0.000000445
1,2,3,6,7,8-HxCDF	0.0000069	0.00058	0.000058	0.00023	0.000023	0.000055	0.00000055	0.0000005	0.00000005	0.000000445	4.45E-08	0.000000445
1,2,3,7,8,9-HxCDD	0.00000057	0.00013	0.000013	0.00011	0.000011	0.000055	0.00000055	0.0000024	0.00000024	0.000000445	4.45E-08	0.000000445
1,2,3,7,8,9-HxCDF	0.000001	0.00023	0.000023	0.0001	0.00001	0.000055	0.00000055	0.0000028	0.00000028	0.000000445	4.45E-08	0.000000445
1,2,3,7,8-PeCDD	0.0000084	0.00011	0.00011	0.000042	0.000042	0.000055	0.00000055	0.0000025	0.00000025	0.000000445	0.000000445	0.000000445
1,2,3,7,8-PeCDF	0.000000495	0.0000065	3.25E-08	0.0000005	0.000000025	0.000055	0.000000275	0.0000005	0.000000025	0.000000445	2.225E-08	0.000000445
2,3,4,6,7,8-HxCDF	0.0000027	0.00059	0.000059	0.00026	0.000026	0.000055	0.00000055	0.0000062	0.00000062	0.000001	0.0000001	0.0000015
2,3,4,7,8-PeCDF	0.0000095	0.001	0.0005	0.00049	0.000245	0.000017	0.0000085	0.000018	0.000009	0.0000017	0.00000085	0.0000022
2,3,7,8-TCDD	0.0000011	0.000029	0.000029	0.000062	0.0000062	0.0000115	0.00000115	0.00000105	0.000000105	0.00000009	0.00000009	0.00000009
2,3,7,8-TCDF	0.0000012	0.00037	0.000037	0.00014	0.000014	0.0000115	0.00000115	0.0000025	0.00000025	0.0000011	0.00000011	0.0000013
OCDD	0.0000001	0.002	0.000002	0.0095	0.00000095	0.00038	0.000000038	0.00026	0.000000026	0.000025	2.5E-09	0.00004
OCDF	0.000000017	0.00086	0.00000086	0.00097	0.000000097	0.00046	0.000000046	0.000023	2.3E-09	0.0000031	3.1E-10	0.0000039
TEQ-Mammal (1)	3.27E-05		<b>9.48E-04</b>		<b>4.56E-04</b>			2.01E-05		1.51E-05		1.96E-06

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.  
 Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.

**Table 4.4**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples**  
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**Former Gorham Manufacturing Site**  
**Providence, Rhode Island**

Parameter	Sample*TEF	SS-205 SS-SI205 6/8/2006	Sample*TEF	SS-SI002 SS-SI002 6/7/2006	Sample*TE F	SS-SI012 SS-SI012 6/8/2006	Sample*TEF	SS-SI013 SS-SI013 6/8/2006	Sample*TEF	SS-SI014 SS-SI014 6/8/2006	Sample*TEF	SS-SI015 SS-SI015 6/8/2006
1,2,3,4,6,7,8-HpCDD	0.00000007	0.0000019	0.00000019	0.000012	0.00000012	0.0000012	0.00000012	0.0000011	0.00000011	0.00000085	8.5E-09	0.000015
1,2,3,4,6,7,8-HpCDF	0.000000048	0.0000014	0.00000014	0.0000091	9.1E-08	0.0000012	0.00000012	0.0000041	4.1E-09	0.00000405	4.05E-09	0.0000092
1,2,3,4,7,8,9-HpCDF	4.45E-09	0.0000043	4.3E-09	0.0000021	2.1E-08	0.00000405	4.05E-09	0.0000041	4.1E-09	0.00000405	4.05E-09	0.0000018
1,2,3,4,7,8-HxCDD	4.45E-08	0.0000043	0.00000043	0.0000015	0.00000015	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000042
1,2,3,4,7,8-HxCDF	0.00000012	0.0000043	0.00000043	0.0000077	0.00000077	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.000004
1,2,3,6,7,8-HxCDD	4.45E-08	0.0000043	0.00000043	0.0000027	0.00000027	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000018
1,2,3,6,7,8-HxCDF	4.45E-08	0.0000043	0.00000043	0.0000055	5.5E-08	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000029
1,2,3,7,8,9-HxCDD	4.45E-08	0.0000043	0.00000043	0.0000019	0.00000019	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000011
1,2,3,7,8,9-HxCDF	4.45E-08	0.0000043	0.00000043	0.0000049	0.00000049	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000019
1,2,3,7,8-PeCDD	0.000000445	0.0000043	0.00000043	0.0000034	0.00000034	0.00000405	0.000000405	0.0000041	0.00000041	0.00000405	0.000000405	0.0000042
1,2,3,7,8-PeCDF	2.225E-08	0.0000043	2.15E-08	0.0000032	0.00000016	0.00000405	2.025E-08	0.0000041	2.05E-08	0.00000405	2.025E-08	0.0000042
2,3,4,6,7,8-HxCDF	0.00000015	0.0000043	0.00000043	0.0000057	0.00000057	0.00000405	4.05E-08	0.0000041	0.00000041	0.00000405	4.05E-08	0.0000024
2,3,4,7,8-PeCDF	0.0000011	0.0000043	0.000000215	0.000023	0.0000115	0.0000011	0.00000055	0.0000041	0.000000205	0.00000405	2.025E-07	0.0000032
2,3,7,8-TCDD	0.00000009	0.00000085	0.00000085	0.000001	0.0000001	0.0000008	0.0000008	0.0000008	0.0000008	0.0000008	0.0000008	0.00000085
2,3,7,8-TCDF	0.00000013	0.00000035	0.00000035	0.0000019	0.00000019	0.0000008	0.00000008	0.0000008	0.00000008	0.0000008	0.00000008	0.00000085
OCDD	0.00000004	0.000015	1.5E-09	0.00005	5E-09	0.000011	1.1E-09	0.0000084	8.4E-10	0.000007	7E-10	0.00027
OCDF	3.9E-10	0.0000028	2.8E-10	0.000047	4.7E-10	0.0000008	8E-12	0.0000008	8E-12	0.0000008	8E-12	0.000014
TEQ-Mammal (1)	2.41E-06		1.13E-06		1.90E-05		1.38E-06		1.03E-06		1.02E-06	

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results. Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.

Table 4.4  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples  
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Parameter	SS-SI016 SS-SI016 6/8/2006		SS-SI017 SS-SI017 6/8/2006		SS-SI018 SS-SI018 6/8/2006		SS-SI019 SS-SI019 6/8/2006		SS-SI020 SS-SI020 6/8/2006		SS-SI021 SS-SI021 6/8/2006	
	Sample*TEF		Sample*TEF		Sample*TEF		Sample*TEF		Sample*TEF		Sample*TEF	
1,2,3,4,6,7,8-HpCDD	0.00000015	0.0000049	0.00000049	0.000015	0.00000015	0.000001	0.00000001	0.00000093	9.3E-09	0.000026	0.00000026	0.000014
1,2,3,4,6,7,8-HpCDF	0.000000092	0.0000045	0.00000045	0.000011	0.00000011	0.000000405	4.05E-09	0.000000405	4.05E-09	0.000013	0.00000013	0.0000077
1,2,3,4,7,8,9-HpCDF	0.000000018	0.000000405	4.05E-09	0.000002	0.00000002	0.000000405	4.05E-09	0.000000405	4.05E-09	0.0000027	0.000000027	0.000000495
1,2,3,4,7,8-HxCDD	0.000000042	0.000000405	4.05E-08	0.000000415	4.15E-08	0.000000405	4.05E-08	0.000000405	4.05E-08	0.00000042	0.000000042	0.000000495
1,2,3,4,7,8-HxCDF	0.00000004	0.0000012	0.00000012	0.0000046	0.00000046	0.000000405	4.05E-08	0.000000405	4.05E-08	0.0000062	0.00000062	0.0000018
1,2,3,6,7,8-HxCDD	0.00000018	0.00000097	0.00000097	0.0000021	0.00000021	0.000000405	4.05E-08	0.000000405	4.05E-08	0.0000033	0.00000033	0.000000495
1,2,3,6,7,8-HxCDF	0.00000029	0.000000405	4.05E-08	0.0000034	0.00000034	0.000000405	4.05E-08	0.000000405	4.05E-08	0.000004	0.0000004	0.0000023
1,2,3,7,8,9-HxCDD	0.00000011	0.000000405	4.05E-08	0.00000095	0.00000095	0.000000405	4.05E-08	0.000000405	4.05E-08	0.0000018	0.00000018	0.000000495
1,2,3,7,8,9-HxCDF	0.00000019	0.000000405	4.05E-08	0.0000021	0.00000021	0.000000405	4.05E-08	0.000000405	4.05E-08	0.0000039	0.00000039	0.000000495
1,2,3,7,8-PeCDD	0.00000042	0.000000405	0.000000405	0.000000415	0.000000415	0.000000405	0.000000405	0.000000405	0.000000405	0.0000014	0.0000014	0.000000495
1,2,3,7,8-PeCDF	0.000000021	0.000000405	2.025E-08	0.0000012	0.00000006	0.000000405	2.025E-08	0.000000405	2.025E-08	0.00000042	0.000000021	0.0000017
2,3,4,6,7,8-HxCDF	0.00000024	0.000000405	4.05E-08	0.0000022	0.00000022	0.000000405	4.05E-08	0.000000405	4.05E-08	0.0000031	0.00000031	0.000003
2,3,4,7,8-PeCDF	0.0000016	0.0000066	0.0000033	0.0000066	0.0000033	0.000000405	2.025E-07	0.000000405	2.025E-07	0.0000048	0.0000024	0.000005
2,3,7,8-TCDD	0.000000085	0.00000022	0.00000022	0.00000022	0.00000022	0.00000008	0.00000008	0.00000008	0.00000008	0.00000019	0.00000019	0.00000021
2,3,7,8-TCDF	0.000000085	0.0000009	0.00000009	0.00000073	0.000000073	0.00000018	0.00000018	0.00000008	0.00000008	0.00000075	0.000000075	0.0000016
OCDD	0.000000027	0.000057	5.7E-09	0.00031	0.000000031	0.0000072	7.2E-10	0.0000059	5.9E-10	0.00042	0.000000042	0.0001
OCDF	1.4E-09	0.0000008	8E-11	0.0000096	9.6E-10	0.0000008	8E-11	0.00000008	8E-12	0.000018	1.8E-09	0.0000077
TEQ-Mammal (1)	3.95E-06		4.56E-06		5.96E-06		1.03E-06		1.02E-06		6.82E-06	

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results. Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.



Table 4.4  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Soil Samples  
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 Former Gorham Manufacturing Site  
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Parameter	Sample*TEF	SS-SI022	Sample*TEF	SS-SI023	Sample*TEF	SS-SI024	Sample*TEF
		SS-SI022 6/8/2006		SS-SI023 6/7/2006		SS-SI024 6/7/2006	
1,2,3,4,6,7,8-HpCDD	0.00000014	0.0000028	0.000000028	0.0000055	0.000000055	0.0000155	0.000000155
1,2,3,4,6,7,8-HpCDF	0.000000077	0.0000018	0.000000018	0.0000094	0.000000094	0.0000155	0.000000155
1,2,3,4,7,8,9-HpCDF	4.95E-09	0.000000415	4.15E-09	0.000000485	4.85E-09	0.0000155	0.000000155
1,2,3,4,7,8-HxCDD	4.95E-08	0.000000415	4.15E-08	0.000000485	4.85E-08	0.0000155	0.000000155
1,2,3,4,7,8-HxCDF	0.00000018	0.000000415	4.15E-08	0.0000011	0.00000011	0.0000155	0.000000155
1,2,3,6,7,8-HxCDD	4.95E-08	0.000000415	4.15E-08	0.000000485	4.85E-08	0.0000155	0.000000155
1,2,3,6,7,8-HxCDF	0.00000023	0.000000415	4.15E-08	0.000000485	4.85E-08	0.0000155	0.000000155
1,2,3,7,8,9-HxCDD	4.95E-08	0.000000415	4.15E-08	0.000000485	4.85E-08	0.0000155	0.000000155
1,2,3,7,8,9-HxCDF	4.95E-08	0.000000415	4.15E-08	0.000000485	4.85E-08	0.0000155	0.000000155
1,2,3,7,8-PeCDD	0.000000495	0.000000415	0.000000415	0.000000485	0.000000485	0.0000155	0.0000155
1,2,3,7,8-PeCDF	0.000000085	0.000000415	2.075E-08	0.000000485	2.425E-08	0.0000155	0.000000775
2,3,4,6,7,8-HxCDF	0.00000003	0.000000415	4.15E-08	0.0000011	0.00000011	0.0000155	0.000000155
2,3,4,7,8-PeCDF	0.00000025	0.00000026	0.00000013	0.00000014	0.00000007	0.0000155	0.000000775
2,3,7,8-TCDD	0.00000021	0.000000085	0.000000085	0.000000095	0.000000095	0.00000315	0.000000315
2,3,7,8-TCDF	0.00000016	0.00000026	0.000000026	0.00000081	0.000000081	0.00000315	0.000000315
OCDD	0.00000001	0.000037	3.7E-09	0.000058	5.8E-09	0.00021	0.000000021
OCDF	7.7E-10	0.000000085	8.5E-12	0.0000069	6.9E-10	0.0000315	3.15E-09
TEQ-Mammal (1)	4.59E-06		2.19E-06		2.01E-06		<b>3.88E-05</b>

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results. Bolded and Shaded values indicate the TEQ-Mammal is greater than the industrial/commercial standard.

**Table 4.5**  
**Surface Water Data - Detected Parameters**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Parameter	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	SW10 SW10 6/21/2006	SW11 SW11 6/21/2006	SW12 SW12 6/21/2006	SW16 SW16 6/21/2006	SW17 SW17 6/21/2006	SW18 SW18 6/21/2006	SW19 SW19 6/21/2006	SW20 SW20 6/21/2006
<b>Volatile Organics (mg/L)</b>												
1,1,1-Trichloroethane	11 / 15	0.001 - 0.001	0.001 - 0.0018	0.0012	<0.001	<0.001	<0.001	0.0016	0.0018	0.0013	0.0014	<0.001
1,1-Dichloroethane	5 / 15	0.001 - 0.001	0.001 - 0.0014	0.00073	<0.001	<0.001	<0.001	0.0011	0.0014	<0.001	0.001	<0.001
1,2,4-Trimethylbenzene	2 / 15	0.001 - 0.001	0.001 - 0.0011	0.00057	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethane	15 / 15		0.0015 - 0.0108	0.0046	0.0022	0.0108	0.0015	0.0045	0.0045	0.0048	0.0062	0.0025
Ethylbenzene	3 / 15	0.001 - 0.001	0.001 - 0.001	0.00060	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Tetrachloroethene	1 / 15	0.001 - 0.001	0.0012 - 0.0012	0.00055	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012	<0.001
Toluene	12 / 15	0.001 - 0.001	0.0011 - 0.0043	0.0023	<0.001	<0.001	<0.001	0.0043	0.0043	0.0024	0.0034	0.0017
Trichloroethene	11 / 15	0.001 - 0.001	0.001 - 0.0029	0.0013	<0.001	0.0023	<0.001	0.001	0.001	0.0015	0.0029	<0.001
Vinyl chloride	10 / 15	0.001 - 0.001	0.001 - 0.0021	0.0012	<0.001	<0.001	<0.001	0.0015	0.0013	0.0013	0.0021	<0.001
Xylene, M&P-	5 / 15	0.002 - 0.002	0.002 - 0.0028	0.0015	<0.002	<0.002	<0.002	0.0026	0.0024	<0.002	0.002	<0.002
Xylene, O-	3 / 15	0.001 - 0.001	0.001 - 0.0012	0.00062	<0.001	<0.001	<0.001	0.0011	0.001	<0.001	<0.001	<0.001
Xylenes, Total	15 / 15		0.003 - 0.004	0.0031	0.003	0.003	0.003	0.0037	0.0034	0.003	0.003	0.003
<b>Semivolatile Organics (mg/L)</b>												
Benzo(a)anthracene	1 / 15	0.0002 - 0.0002	0.0002 - 0.0002	0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
Benzo(a)pyrene	1 / 15	0.0002 - 0.0002	0.00024 - 0.00024	0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00024	<0.0002
Benzo(g,h,i)perylene	1 / 15	0.0002 - 0.0002	0.00038 - 0.00038	0.00012	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00038	<0.0002
Chrysene	1 / 15	0.0002 - 0.0002	0.00023 - 0.00023	0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00023	<0.0002
Dibenz(a,h)anthracene	1 / 15	0.0002 - 0.0002	0.00031 - 0.00031	0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00031	<0.0002
Naphthalene	4 / 15	0.0002 - 0.0002	0.0002 - 0.0003	0.00014	<0.0002	<0.0002	<0.0002	<0.0002	0.00026	<0.0002	<0.0002	<0.0002
<b>Pesticides/PCBs (mg/L)</b>												
4,4'-DDT	1 / 3	0.000050 - 0.000050	0.000080 - 0.000080	0.000043		0.00008					<0.00005	
<b>Metals, Total (mg/L)</b>												
Chromium	3 / 15	0.02 - 0.02	0.034 - 0.06	0.017	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02
Copper	5 / 15	0.02 - 0.02	0.023 - 0.126	0.030	<0.02	<0.02	<0.02	<0.02	<0.02	0.099	0.029	<0.02
Lead	5 / 15	0.005 - 0.005	0.0083 - 0.0318	0.0089	<0.005	<0.005	<0.005	<0.005	<0.005	0.0318	0.0121	<0.005
Silver	3 / 15	0.005 - 0.005	0.005 - 0.008	0.0033	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005
Zinc	4 / 15	0.05 - 0.05	0.068 - 0.146	0.046	<0.05	<0.05	<0.05	<0.05	<0.05	0.107	0.068	<0.05
<b>Inorganics (mg/L)</b>												
Hardness	15 / 15		67 - 87.3	78	70.8	71.9	67	78.4	73.6	87.3	76.1	77.3
<b>Dioxins/Furans (mg/L)</b>												
1,2,3,4,6,7,8-HpCDD	3 / 3		2.4E-08 - 4.3E-08	0.00000037		0.00000024					0.00000043	
1,2,3,6,7,8-HxCDD	1 / 3	0.00000001 - 1E-08	1.3E-08 - 1.3E-08	0.000000077		<0.00000001					<0.00000001	
1,2,3,7,8,9-HxCDD	1 / 3	0.00000001 - 1E-08	5.1E-08 - 5.1E-08	0.000000020		<0.00000001					<0.00000001	
1,2,3,7,8-PeCDD	1 / 3	0.00000001 - 1E-08	4.6E-08 - 4.6E-08	0.000000019		<0.00000001					<0.00000001	
2,3,7,8-TCDD	1 / 3	2E-09 - 2.1E-09	3.1E-09 - 3.1E-09	0.000000017		<0.000000021					<0.00000002	
2,3,7,8-TCDF	1 / 3	2E-09 - 2.1E-09	8.9E-09 - 8.9E-09	0.000000037		<0.000000021					<0.00000002	
OCDD	3 / 3		0.00000018 - 3.5E-07	0.00000028		0.00000018					0.00000032	
Total HpCDD	3 / 3		4.3E-08 - 7.2E-08	0.000000059		0.000000043					0.00000072	
Total HpCDF	3 / 3		1.2E-08 - 2.1E-08	0.000000015		0.000000012					0.00000021	
Total HxCDD	1 / 3	0.00000001 - 1E-08	6.4E-08 - 6.4E-08	0.000000025		<0.00000001					<0.00000001	
Total PeCDD	1 / 3	0.00000001 - 1E-08	4.6E-08 - 4.6E-08	0.000000019		<0.00000001					<0.00000001	
Total PeCDF	1 / 3	0.00000001 - 1E-08	2.9E-08 - 2.9E-08	0.000000013		<0.00000001					<0.00000001	
Total TCDD	1 / 3	2E-09 - 2.1E-09	3.1E-09 - 3.1E-09	0.000000002		<0.000000021					<0.00000002	
Total TCDF	2 / 3	2.1E-09 - 2.1E-09	3.4E-09 - 3.2E-08	0.000000122		<0.000000021					0.000000034	
TEQ-Mammal	3 / 3		1.2764E-08 - 6.221E-08	0.000000029		0.000000013					0.000000013	

< - Compound not detected, value is detection limit.  
mg/L milligrams per liter

**Table 4.5**  
**Surface Water Data - Detected Parameters**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Parameter	SW21	SW22	SW23	SW24	SW25	SW26	SW27
	6/21/2006	6/21/2006	6/21/2006	6/21/2006	6/22/2006	6/21/2006	6/22/2006
<b>Volatile Organics (mg/L)</b>							
1,1,1-Trichloroethane	0.0012	0.001	0.001	0.0013	0.0018	0.0015	0.0018
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	0.0012	<0.001	0.0013
1,2,4-Trimethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011
cis-1,2-Dichloroethene	0.0054	0.0044	0.0044	0.0059	0.0045	0.0025	0.0054
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	0.0011	0.0014	0.0019	0.0029	0.0033	0.0015	0.0041
Trichloroethene	0.0016	0.0013	0.0017	0.0014	0.0012	<0.001	0.0014
Vinyl chloride	0.0013	0.0011	0.001	0.0018	0.0015	<0.001	0.002
Xylene, M&P-	<0.002	<0.002	<0.002	<0.002	0.0023	<0.002	0.0028
Xylene, O-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012
Xylenes, Total	0.003	0.003	0.003	0.003	0.003	0.003	0.004
<b>Semivolatile Organics (mg/L)</b>							
Benzo(a)anthracene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzo(a)pyrene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzo(g,h,i)perylene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chrysene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Dibenz(a,h)anthracene	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Naphthalene	<0.0002	<0.0002	0.0002	0.0003	0.00024	<0.0002	<0.0002
<b>Pesticides/PCBs (mg/L)</b>							
4,4'-DDT							<0.00005
<b>Metals, Total (mg/L)</b>							
Chromium	0.034	0.046	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	0.071	0.126	0.023	<0.02	<0.02	<0.02	<0.02
Lead	0.0258	0.0309	0.0083	<0.005	<0.005	<0.005	<0.005
Silver	0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	0.089	0.146	<0.05	<0.05	<0.05	<0.05	<0.05
<b>Inorganics (mg/L)</b>							
Hardness	86.7	86.7	86.6	83.4	77.7	73.7	80
<b>Dioxins/Furans (mg/L)</b>							
1,2,3,4,6,7,8-HpCDD							0.000000043
1,2,3,6,7,8-HxCDD							0.000000013
1,2,3,7,8,9-HxCDD							0.000000051
1,2,3,7,8-PeCDD							0.000000046
2,3,7,8-TCDD							0.000000031
2,3,7,8-TCDF							0.000000089
OCDD							0.000000035
Total HpCDD							0.000000061
Total HpCDF							0.000000013
Total HxCDD							0.000000064
Total PeCDD							0.000000046
Total PeCDF							0.000000029
Total TCDD							0.000000031
Total TCDF							0.000000032
TEQ-Mammal							0.000000062

< - Compound not detected, value is detection limit.  
mg/L milligrams per liter

Table 4.6  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Surface Water Samples  
 Supplemental Site Investigation Report  
 Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, Rhode Island

chemical_name	TEF Humans- Mammals	SW11 6/21/2006	SW11 Sample*TEF	SW19 6/21/2006	SW19 Sample*TEF	SW27 6/22/2006	SW27 Sample*TEF
1,2,3,4,6,7,8-HpCDD	0.01	2.4E-08	2.4E-10	4.3E-08	4.3E-10	4.3E-08	4.3E-10
1,2,3,4,6,7,8-HpCDF	0.01	< 0.00000001	5E-11	< 0.00000001	5E-11	< 0.00000001	5E-11
1,2,3,4,7,8,9-HpCDF	0.01	< 0.00000001	5E-11	< 0.00000001	5E-11	< 0.00000001	5E-11
1,2,3,4,7,8-HxCDD	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	< 0.00000001	5E-10
1,2,3,4,7,8-HxCDF	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	< 0.00000001	5E-10
1,2,3,6,7,8-HxCDD	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	1.3E-08	1.3E-09
1,2,3,6,7,8-HxCDF	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	< 0.00000001	5E-10
1,2,3,7,8,9-HxCDD	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	5.1E-08	5.1E-09
1,2,3,7,8,9-HxCDF	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	< 0.00000001	5E-10
1,2,3,7,8-PeCDD	1	< 0.00000001	0.000000005	< 0.00000001	0.000000005	4.6E-08	0.000000046
1,2,3,7,8-PeCDF	0.05	< 0.00000001	2.5E-10	< 0.00000001	2.5E-10	< 0.00000001	2.5E-10
2,3,4,6,7,8-HxCDF	0.1	< 0.00000001	5E-10	< 0.00000001	5E-10	< 0.00000001	5E-10
2,3,4,7,8-PeCDF	0.5	< 0.00000001	2.5E-09	< 0.00000001	2.5E-09	< 0.00000001	2.5E-09
2,3,7,8-TCDD	1	< 2.1E-09	1.05E-09	< 2E-09	0.000000001	3.1E-09	3.1E-09
2,3,7,8-TCDF	0.1	< 2.1E-09	1.05E-10	< 2E-09	1E-10	8.9E-09	8.9E-10
OCDD	0.0001	0.00000018	1.8E-11	0.00000032	3.2E-11	0.00000035	3.5E-11
OCDF	0.0001	< 2.1E-08	1.05E-12	< 0.00000002	1E-12	< 0.00000002	1E-12
<b>TEQ-Mammal (1)</b>			<b>1.28E-08</b>		<b>1.29E-08</b>		<b>6.22E-08</b>

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.

Bolded and Shaded values indicate the TEQ-Mammal is greater than the surface water screening value standard.

< - Compound was not detected and half the detection limit was used to calculate the TEQ.

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	SD-1001 SD-1001 12/28/2005 0-2	SD-1002 SD-1002 12/28/2005 0-2	SD-1003 SD-1003 12/28/2005 0-2
<b>Volatile Organics (mg/kg)</b>							
1,1,1-Trichloroethane	9 / 52	0.004 - 0.49	0.234 - 6.65	0.24	< 0.013	< 0.0098	< 0.15
1,1-Dichloroethane	16 / 52	0.004 - 1.1	0.0054 - 7.92	0.36	< 0.013	< 0.0098	1.4
1,1-Dichloroethene	9 / 52	0.004 - 1.1	0.014 - 11.3	0.30	< 0.013	< 0.0098	< 0.15
2-Butanone	2 / 52	0.02 - 12.2	0.442 - 0.936	0.23	< 0.026	< 0.02	< 0.3
Acetone	26 / 52	0.037 - 12.2	0.0608 - 1.94	0.48	< 0.052	< 0.039	0.87
Carbon Disulfide	9 / 52	0.0037 - 1.1	0.0046 - 0.212	0.031	< 0.013	< 0.0098	< 0.15
cis-1,2-Dichloroethene	17 / 52	0.004 - 1.1	0.004 - 175	5.9	< 0.013	< 0.0098	0.42
Isopropyl Benzene	4 / 52	0.0037 - 1.1	0.0514 - 0.332	0.033	< 0.013	< 0.0098	< 0.15
n-Propyl Benzene	1 / 52	0.0037 - 1.1	0.0955 - 0.0955	0.025	< 0.013	< 0.0098	< 0.15
s-Butylbenzene	5 / 52	0.0037 - 1.1	0.0197 - 0.173	0.030	< 0.013	< 0.0098	< 0.15
Tetrachloroethene	8 / 52	0.004 - 1.1	0.004 - 27	0.91	< 0.013	< 0.0098	< 0.15
Toluene	1 / 52	0.0037 - 1.1	1.92 - 1.92	0.061	< 0.013	< 0.0098	< 0.15
trans-1,2-Dichloroethene	4 / 52	0.0037 - 1.1	0.0053 - 3.62	0.15	< 0.013	< 0.0098	< 0.15
Trichloroethene	16 / 52	0.004 - 0.49	0.0073 - 88	3.3	< 0.013	< 0.0098	< 0.15
Vinyl Chloride	12 / 52	0.0074 - 2.3	0.0218 - 24.8	0.98	< 0.026	< 0.02	5
<b>Semivolatile Organics (mg/kg)</b>							
1-Methylnaphthalene	1 / 48	0.0285 - 0.232	0.266 - 0.266	0.044			
Acenaphthene	6 / 53	0.0285 - 0.232	0.024 - 0.26	0.052	0.25	0.26	< 0.039
Acenaphthylene	3 / 53	0.0079 - 0.232	0.026 - 0.781	0.054	0.07	0.026	< 0.039
Anthracene	13 / 53	0.0285 - 0.232	0.04 - 3.09	0.15	0.83	0.36	0.11
Benzo(a)anthracene	18 / 53	0.0285 - 0.232	0.0896 - 15.1	0.48	2	0.69	0.29
Benzo(a)pyrene	17 / 53	0.0285 - 0.232	0.0707 - 7.87	0.32	1.8	0.59	0.24
Benzo(b)fluoranthene	22 / 53	0.0285 - 0.232	0.0378 - 14.8	0.55	2.9	0.86	0.34
Benzo(g,h,i)perylene	14 / 53	0.0285 - 0.232	0.046 - 2.54	0.13	0.73	0.26	0.11
Benzo(k)fluoranthene	12 / 53	0.0285 - 0.232	0.065 - 5.1	0.21	0.97	0.25	0.18
Chrysene	17 / 53	0.0285 - 0.232	0.0896 - 8.94	0.37	2.4	0.84	0.43
Dibenzo(a,h)anthracene	6 / 53	0.0079 - 0.232	0.0404 - 1.45	0.072	0.22	< 0.013	< 0.039
Di-n-butylphthalate	2 / 5	0.2 - 0.74	0.48 - 1.1	0.44	0.48	< 0.33	1.1
Fluoranthene	25 / 53	0.0285 - 0.232	0.0821 - 28.8	1.0	4.3	1.6	0.71
Fluorene	9 / 53	0.018 - 0.232	0.022 - 0.863	0.063	< 0.018	0.022	0.081
Indeno(1,2,3-cd)pyrene	13 / 53	0.0285 - 0.232	0.046 - 2.47	0.13	0.74	0.22	0.11
Naphthalene	5 / 53	0.0285 - 0.232	0.0342 - 0.28	0.049	0.21	0.28	< 0.039
Phenanthrene	20 / 53	0.0285 - 0.232	0.0333 - 11.8	0.55	4	2.1	0.48
Pyrene	23 / 53	0.0285 - 0.232	0.0513 - 15.2	0.68	5.3	2.3	0.76
<b>Pesticides/PCBs (mg/kg)</b>							

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	SD-1001 SD-1001 12/28/2005 0-2	SD-1002 SD-1002 12/28/2005 0-2	SD-1003 SD-1003 12/28/2005 0-2
4,4'-DDD	3 / 28	0.0008 - 0.0481	0.0214 - 0.0301	0.010	< 0.0017	< 0.0013	< 0.004
4,4'-DDE	1 / 28	0.0008 - 0.0481	0.0109 - 0.0109	0.0084	< 0.0017	< 0.0013	< 0.004
4,4'-DDT	1 / 28	0.0008 - 0.0481	0.0635 - 0.0635	0.010	< 0.0017	< 0.0013	< 0.004
Aroclor-1254	2 / 28	0.016 - 0.404	0.207 - 0.528	0.092	< 0.034	< 0.066	< 0.04
Aroclor-1260	1 / 28	0.016 - 0.404	0.605 - 0.605	0.086	< 0.034	< 0.066	< 0.04
Endrin ketone	1 / 28	0.0008 - 0.0481	0.0431 - 0.0431	0.0092	< 0.0017	< 0.0013	< 0.004
<b>Inorganics (mg/kg)</b>							
Antimony	2 / 53	0.54 - 50.8	1.6 - 2.7	7.6	2.7	1.6	< 2.7
Arsenic	38 / 53	0.3 - 7.2	1.1 - 244	21.5	19	12	45
Barium	51 / 53	12.2 - 23.1	5.4 - 2430	124	190	76	250
Beryllium	31 / 53	0.06 - 0.47	0.075 - 3.5	0.42	1.1	0.46	1.4
Cadmium	22 / 53	0.63 - 5.08	0.14 - 7.11	1.9	1.8	0.91	4.1
Chromium	53 / 53		2.1 - 640	107	71	12	100
Copper	53 / 53		1.7 - 2670	526	1200	180	740
Lead	28 / 53	6.3 - 47.4	12.2 - 1120	203	340	140	590
Mercury	19 / 53	0.035 - 0.284	0.031 - 2.52	0.25	0.3	0.087	1.3
Nickel	41 / 53	3.3 - 25.4	3.5 - 853	83.9	48	20	120
Selenium	4 / 53	0.54 - 50.8	1.8 - 38.7	8.4	3.2	1.8	< 2.7
Silver	26 / 53	0.63 - 5.08	2.77 - 227	37.0	120	15	95
Thallium	1 / 53	0.27 - 12.7	3.2 - 3.2	1.9	< 0.58	< 0.44	< 1.4
Zinc	52 / 53	12.2 - 12.2	5.3 - 1940	442	570	200	770
Total Organic Carbon (TOC)	23 / 23		780 - 115000	31334			
<b>TPH (mg/kg)</b>							
Total Petroleum Hydrocarbons (TPH)	19 / 28	42.6 - 291	57.8 - 2600	543	1900	2600	1700
<b>Dioxins/Furans (mg/kg)</b>							
1,2,3,4,6,7,8-HpCDD	25 / 28	7E-07 - 8E-07	0.0000022 - 0.00064	0.00015	0.00011	0.000059	0.00013
1,2,3,4,6,7,8-HpCDF	24 / 28	7E-07 - 8E-07	0.000002 - 0.001	0.00021	0.000092	0.00016	0.00027
1,2,3,4,7,8,9-HpCDF	22 / 28	7E-07 - 1E-06	0.0000012 - 0.00017	0.000038	0.0000099	0.000014	0.000049
1,2,3,4,7,8-HxCDD	17 / 28	7E-07 - 2E-05	0.0000013 - 0.000074	0.000014	0.0000049	0.0000061	0.000016
1,2,3,4,7,8-HxCDF	22 / 28	7E-07 - 2E-06	0.0000024 - 0.00067	0.00012	0.00003	0.000057	0.00017
1,2,3,6,7,8-HxCDD	23 / 28	7E-07 - 8E-07	0.0000013 - 0.00019	0.000040	0.000013	0.000012	0.000042
1,2,3,6,7,8-HxCDF	22 / 28	7E-07 - 1E-06	0.0000073 - 0.0013	0.00020	0.000037	0.000059	0.00023
1,2,3,7,8,9-HxCDD	20 / 28	7E-07 - 2E-05	0.0000017 - 0.000097	0.000020	0.0000082	0.000008	0.000021
1,2,3,7,8,9-HxCDF	18 / 28	7E-07 - 7E-06	0.0000024 - 0.00042	0.000073	< 0.0000031	< 0.0000028	0.0000086
1,2,3,7,8-PeCDD	21 / 28	7E-07 - 3E-06	0.00000095 - 0.00012	0.000026	0.0000097	0.0000074	0.000031
1,2,3,7,8-PeCDF	13 / 28	7E-07 - 2E-05	0.0000023 - 0.00023	0.000020	0.000016	0.000028	0.00006

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	Frequency of Detection	Range of Non Detects	Range of Detected Concentrations	Average of Samples	SD-1001 SD-1001 12/28/2005 0-2	SD-1002 SD-1002 12/28/2005 0-2	SD-1003 SD-1003 12/28/2005 0-2
2,3,4,6,7,8-HxCDF	22 / 28	7E-07 - 1E-06	0.000012 - 0.00091	0.00017	0.000036	0.000051	0.00018
2,3,4,7,8-PeCDF	25 / 28	7E-07 - 8E-07	0.00000073 - 0.0062	0.00083	0.000036	0.000043	0.00016
2,3,7,8-TCDD	21 / 28	1E-07 - 3E-07	0.00000052 - 0.000033	0.000008	0.0000053	0.0000025	0.0000095
2,3,7,8-TCDF	20 / 28	1E-07 - 4E-06	0.00000019 - 0.00012	0.000023	0.000018	0.000015	0.000027
OCDD	28 / 28		0.0000035 - 0.0029	0.00074	0.00075	0.00024	0.00042
OCDF	25 / 28	1E-06 - 2E-06	0.0000016 - 0.0003	0.000088	0.000075	0.00019	0.00019
TOTAL HpCDD	25 / 28	7E-07 - 8E-07	0.0000039 - 0.0013	0.00031	0.0002	0.00012	0.00027
TOTAL HpCDF	25 / 28	7E-07 - 8E-07	0.0000011 - 0.0028	0.00054	0.00018	0.00024	0.00062
TOTAL HxCDD	24 / 28	7E-07 - 8E-07	0.0000011 - 0.0026	0.00051	0.00012	0.00013	0.00049
TOTAL HxCDF	27 / 28	8E-07 - 8E-07	0.0000011 - 0.025	0.0050	0.00078	0.001	0.0055
TOTAL PeCDD	23 / 28	7E-07 - 8E-07	0.0000081 - 0.002	0.00037	0.000074	0.000056	0.00031
TOTAL PeCDF	27 / 28	8E-07 - 8E-07	0.0000031 - 0.04	0.0061	0.00068	0.00088	0.0051
TOTAL TCDD	24 / 28	1E-07 - 2E-07	0.00000031 - 0.0008	0.00016	0.000077	0.000045	0.00012
TOTAL TCDF	27 / 28	2E-07 - 2E-07	0.0000012 - 0.015	0.0027	0.00029	0.00029	0.0013

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SD-1004 SD-1004 12/28/2005 0-2	SD-1005 SD-1005 12/28/2005 0-2	SED10 SED1001 6/22/2006 0.5-1	SED10 SED1003 6/22/2006 2.5-3	SED11 SED1101 6/22/2006 0-1	SED11 SED1103 6/22/2006 2.5-3	SED12 SED1201 6/22/2006 0.5-1	SED12 SED1203 6/22/2006 2.5-3	SED13 SED1301 6/22/2006 0-0.5	SED13 SED1303 6/22/2006 2-2.5
<b>Volatile Organics (mg/kg)</b>										
1,1,1-Trichloroethane	1.3	0.3	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
1,1-Dichloroethane	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
1,1-Dichloroethene	< 1.1	0.014	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
2-Butanone	< 2.3	< 0.024	< 0.0403	< 0.0463	< 0.427	< 0.0457	< 0.0604	< 0.0396	< 0.0446	< 0.0504
Acetone	< 4.6	< 0.048	< 0.0403	< 0.0463	0.649	0.079	0.0757	< 0.0396	0.105	< 0.0504
Carbon Disulfide	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	0.0046	< 0.005
cis-1,2-Dichloroethene	< 1.1	0.016	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
Isopropyl Benzene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
n-Propyl Benzene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
s-Butylbenzene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
Tetrachloroethene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
Toluene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
trans-1,2-Dichloroethene	< 1.1	< 0.012	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
Trichloroethene	5.6	0.21	< 0.004	< 0.0046	< 0.0427	< 0.0046	< 0.006	< 0.004	< 0.0045	< 0.005
Vinyl Chloride	< 2.3	< 0.024	< 0.0081	< 0.0093	< 0.0855	< 0.0091	< 0.0121	< 0.0079	< 0.0089	< 0.0101
<b>Semivolatile Organics (mg/kg)</b>										
1-Methylnaphthalene			< 0.0305	< 0.0344	< 0.163	< 0.0317	< 0.0553	< 0.0324	< 0.0321	< 0.0311
Acenaphthene	< 0.03	0.024	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.0564	< 0.0324	< 0.0321	< 0.0311
Acenaphthylene	< 0.03	< 0.0079	< 0.0305	< 0.0344	< 0.163	< 0.0317	< 0.0553	< 0.0324	< 0.0321	< 0.0311
Anthracene	0.04	0.079	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.276	< 0.0324	< 0.0321	< 0.0311
Benzo(a)anthracene	0.16	0.15	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.685	< 0.0324	< 0.0321	< 0.0311
Benzo(a)pyrene	0.15	0.12	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.862	< 0.0324	< 0.0321	< 0.0311
Benzo(b)fluoranthene	0.25	0.17	< 0.0305	< 0.0344	0.245	< 0.0317	1.41	< 0.0324	0.0378	< 0.0311
Benzo(g,h,i)perylene	0.088	0.046	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.244	< 0.0324	< 0.0321	< 0.0311
Benzo(k)fluoranthene	0.11	0.065	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.636	< 0.0324	< 0.0321	< 0.0311
Chrysene	0.24	0.16	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.625	< 0.0324	< 0.0321	< 0.0311
Dibenzo(a,h)anthracene	< 0.03	< 0.0079	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.0807	< 0.0324	< 0.0321	< 0.0311
Di-n-butylphthalate	< 0.74	< 0.2								
Fluoranthene	0.45	0.39	< 0.0305	< 0.0344	0.327	< 0.0317	1.92	< 0.0324	0.0833	< 0.0311
Fluorene	0.036	0.025	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.107	< 0.0324	< 0.0321	< 0.0311
Indeno(1,2,3-cd)pyrene	< 0.03	0.046	< 0.0305	< 0.0344	< 0.163	< 0.0317	0.259	< 0.0324	< 0.0321	< 0.0311
Naphthalene	< 0.03	0.045	< 0.0305	< 0.0344	< 0.163	< 0.0317	< 0.0553	< 0.0324	< 0.0321	< 0.0311
Phenanthrene	0.23	0.41	< 0.0305	< 0.0344	< 0.163	< 0.0317	1.14	< 0.0324	0.0333	< 0.0311
Pyrene	0.45	0.4	< 0.0305	< 0.0344	0.258	< 0.0317	1.01	< 0.0324	0.0513	< 0.0311
<b>Pesticides/PCBs (mg/kg)</b>										



**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SD-1004 SD-1004 12/28/2005 0-2	SD-1005 SD-1005 12/28/2005 0-2	SED10 SED1001 6/22/2006 0.5-1	SED10 SED1003 6/22/2006 2.5-3	SED11 SED1101 6/22/2006 0-1	SED11 SED1103 6/22/2006 2.5-3	SED12 SED1201 6/22/2006 0.5-1	SED12 SED1203 6/22/2006 2.5-3	SED13 SED1301 6/22/2006 0-0.5	SED13 SED1303 6/22/2006 2-2.5
4,4'-DDD	< 0.003	< 0.00081	< 0.0056		< 0.0351		0.0214		< 0.00631	
4,4'-DDE	< 0.003	< 0.00081	< 0.0056		< 0.0351		< 0.0112		< 0.00631	
4,4'-DDT	< 0.003	< 0.00081	< 0.0056		< 0.0351		< 0.0112		< 0.00631	
Aroclor-1254	< 0.03	< 0.016	< 0.056		< 0.351		< 0.112		< 0.0631	
Aroclor-1260	< 0.03	< 0.016	< 0.056		< 0.351		< 0.112		< 0.0631	
Endrin ketone	< 0.003	< 0.00081	< 0.0056		< 0.0351		< 0.0112		< 0.00631	
<b>Inorganics (mg/kg)</b>										
Antimony	< 2	< 0.54	< 6.5	< 7.4	< 25.7	< 6.8	< 11.9	< 7.2	< 6.7	< 6.9
Arsenic	32	3.8	< 0.3	1.1	4.8	7.1	< 3	< 1.8	11.5	5.3
Barium	69	19	10.2	19.9	156	7.1	33.1	14.5	11.5	10.5
Beryllium	3.5	0.075	< 0.07	< 0.07	0.47	< 0.07	0.31	< 0.07	< 0.07	0.14
Cadmium	3.2	0.14	< 0.65	< 0.74	3.24	< 0.68	< 1.19	< 0.72	< 0.67	< 0.69
Chromium	59	4.8	3	5	213	3.1	7	5	4.7	3.5
Copper	1500	19	4.1	4	423	1.7	12.5	5.1	5.3	5.3
Lead	140	23	< 6.5	< 7.4	590	< 6.8	20.7	< 7.2	< 6.7	< 6.9
Mercury	0.2	0.031	< 0.035	< 0.044	< 0.208	< 0.037	< 0.068	< 0.042	< 0.04	< 0.037
Nickel	810	10	3.6	4	85.7	< 3.4	< 5.9	5.7	22.5	8.9
Selenium	< 2	< 0.54	< 6.5	< 7.4	< 25.7	< 6.8	< 11.9	< 7.2	< 6.7	< 6.9
Silver	24	2.9	< 0.65	< 0.74	29.7	< 0.68	< 1.19	< 0.72	< 0.67	< 0.69
Thallium	< 1	< 0.27	< 1.6	< 1.9	< 6.4	< 1.7	< 3	< 1.8	< 1.7	< 1.7
Zinc	1200	34	28.1	12.4	620	5.3	34.7	61.2	41.4	20.9
Total Organic Carbon (TOC)			780		65000		2300		2700	
<b>TPH (mg/kg)</b>										
Total Petroleum Hydrocarbons (TPH)	740	370	< 42.6		< 253		< 85		< 48.1	
<b>Dioxins/Furans (mg/kg)</b>										
1,2,3,4,6,7,8-HpCDD	0.00014	0.000017	< 0.0000075		0.00028		0.0000074		0.0000022	
1,2,3,4,6,7,8-HpCDF	0.00021	0.00003	< 0.0000075		0.00014		0.000002		< 0.0000076	
1,2,3,4,7,8,9-HpCDF	0.000047	0.0000041	< 0.0000075		0.000018		< 0.0000071		< 0.0000076	
1,2,3,4,7,8-HxCDD	< 0.000014	< 0.0000018	< 0.0000075		0.0000095		< 0.0000071		< 0.0000076	
1,2,3,4,7,8-HxCDF	0.00011	0.000017	< 0.0000075		0.000036		< 0.0000071		< 0.0000076	
1,2,3,6,7,8-HxCDD	0.000039	0.0000047	< 0.0000075		0.000025		< 0.0000071		< 0.0000076	
1,2,3,6,7,8-HxCDF	0.00026	0.000033	< 0.0000075		0.000086		< 0.0000071		< 0.0000076	
1,2,3,7,8,9-HxCDD	0.00002	< 0.0000027	< 0.0000075		0.000017		< 0.0000071		< 0.0000076	
1,2,3,7,8,9-HxCDF	< 0.0000071	< 0.00000091	< 0.0000075		0.00003		< 0.0000071		< 0.0000076	
1,2,3,7,8-PeCDD	0.000033	< 0.000003	< 0.0000075		0.00011		< 0.0000071		< 0.0000076	
1,2,3,7,8-PeCDF	0.000055	0.0000083	< 0.0000075		0.000032		< 0.0000071		< 0.0000076	

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SD-1004 SD-1004 12/28/2005 0-2	SD-1005 SD-1005 12/28/2005 0-2	SED10 SED1001 6/22/2006 0.5-1	SED10 SED1003 6/22/2006 2.5-3	SED11 SED1101 6/22/2006 0-1	SED11 SED1103 6/22/2006 2.5-3	SED12 SED1201 6/22/2006 0.5-1	SED12 SED1203 6/22/2006 2.5-3	SED13 SED1301 6/22/2006 0-0.5	SED13 SED1303 6/22/2006 2-2.5
2,3,4,6,7,8-HxCDF	0.00022	0.000028	< 0.00000075		0.00008		< 0.00000071		< 0.00000076	
2,3,4,7,8-PeCDF	0.00017	0.000023	< 0.00000075		0.00043		0.00000073		0.00000086	
2,3,7,8-TCDD	0.0000092	0.00000098	< 0.00000015		0.0000042		< 0.00000014		< 0.00000015	
2,3,7,8-TCDF	0.000029	0.0000043	< 0.00000015		< 0.00000057		0.00000024		0.00000019	
OCDD	0.00048	0.000077	0.0000044		0.0018		0.000064		0.000016	
OCDF	0.00007	0.0000076	< 0.0000015		0.000087		0.0000031		0.0000016	
TOTAL HpCDD	0.00026	0.000036	< 0.00000075		0.00063		0.000013		0.0000039	
TOTAL HpCDF	0.00055	0.000073	< 0.00000075		0.00033		0.000002		0.0000011	
TOTAL HxCDD	0.00042	0.000048	< 0.00000075		0.0003		0.0000011		< 0.00000076	
TOTAL HxCDF	0.0058	0.00079	< 0.00000075		0.0023		0.0000039		0.000003	
TOTAL PeCDD	0.00029	0.000022	< 0.00000075		0.00014		< 0.00000071		< 0.00000076	
TOTAL PeCDF	0.0054	0.00075	< 0.00000075		0.0055		0.0000056		0.0000074	
TOTAL TCDD	0.00011	0.000011	< 0.00000015		0.000089		0.00000031		< 0.00000015	
TOTAL TCDF	0.0013	0.00017	< 0.00000015		0.0016		0.0000037		0.0000031	

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED14 SED1401 6/22/2006 0-1	SED14 SED1403 6/22/2006 2.5-3	SED15 SED1501 6/22/2006 0-1	SED15 SED1503 6/22/2006 2-3	SED16 SED1601 6/22/2006 0-1	SED16 SED1603 6/22/2006 2.5-3	SED17 SED1701 6/22/2006 0.5-1	SED17 SED1704 6/22/2006 3-3.8	SED18 SED1801 6/22/2006 0-1
<b>Volatile Organics (mg/kg)</b>									
1,1,1-Trichloroethane	< 0.012	< 0.0051	0.863	0.234	< 0.0235	< 0.0045	0.732	0.555	< 0.0506
1,1-Dichloroethane	< 0.012	< 0.0051	0.0518	0.0061	< 0.0235	< 0.0045	0.137	0.031	< 0.0506
1,1-Dichloroethene	< 0.012	< 0.0051	0.0467	0.0174	< 0.0235	< 0.0045	0.0555	0.0358	< 0.0506
2-Butanone	< 0.12	< 0.051	< 0.0461	< 0.037	< 0.235	< 0.0453	< 0.0463	< 0.0454	< 0.506
Acetone	0.202	0.164	< 0.0461	< 0.037	< 0.235	< 0.0453	< 0.0463	< 0.0454	1.9
Carbon Disulfide	< 0.012	< 0.0051	0.021	< 0.0037	< 0.0235	< 0.0045	0.007	< 0.0045	< 0.0506
cis-1,2-Dichloroethene	< 0.012	< 0.0051	0.296	0.004	< 0.0235	< 0.0045	0.0298	< 0.0045	< 0.0506
Isopropyl Benzene	< 0.012	< 0.0051	< 0.0046	< 0.0037	< 0.0235	< 0.0045	< 0.0046	< 0.0045	< 0.0506
n-Propyl Benzene	< 0.012	< 0.0051	< 0.0046	< 0.0037	< 0.0235	< 0.0045	< 0.0046	< 0.0045	< 0.0506
s-Butylbenzene	< 0.012	< 0.0051	< 0.0046	< 0.0037	< 0.0235	< 0.0045	< 0.0046	< 0.0045	< 0.0506
Tetrachloroethene	< 0.012	< 0.0051	0.0161	0.004	< 0.0235	< 0.0045	0.0081	< 0.0045	< 0.0506
Toluene	< 0.012	< 0.0051	< 0.0046	< 0.0037	< 0.0235	< 0.0045	< 0.0046	< 0.0045	< 0.0506
trans-1,2-Dichloroethene	< 0.012	< 0.0051	0.0053	< 0.0037	< 0.0235	< 0.0045	< 0.0046	< 0.0045	< 0.0506
Trichloroethene	< 0.012	< 0.0051	1.47	0.224	< 0.0235	< 0.0045	1.22	0.407	< 0.0506
Vinyl Chloride	< 0.024	< 0.0102	< 0.0092	< 0.0074	< 0.047	< 0.0091	< 0.0093	< 0.0091	< 0.101
<b>Semivolatile Organics (mg/kg)</b>									
1-Methylnaphthalene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Acenaphthene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Acenaphthylene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Anthracene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Benzo(a)anthracene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Benzo(a)pyrene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Benzo(b)fluoranthene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	0.201	< 0.0306	< 0.035	< 0.0306	< 0.183
Benzo(g,h,i)perylene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Benzo(k)fluoranthene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Chrysene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Dibenzo(a,h)anthracene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Di-n-butylphthalate									
Fluoranthene	0.204	< 0.0337	< 0.0315	< 0.0285	0.33	< 0.0306	< 0.035	< 0.0306	0.267
Fluorene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Indeno(1,2,3-cd)pyrene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Naphthalene	< 0.0943	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Phenanthrene	0.0999	< 0.0337	< 0.0315	< 0.0285	< 0.179	< 0.0306	< 0.035	< 0.0306	< 0.183
Pyrene	0.153	< 0.0337	< 0.0315	< 0.0285	0.244	< 0.0306	< 0.035	< 0.0306	0.187
<b>Pesticides/PCBs (mg/kg)</b>									

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED14 SED1401 6/22/2006 0-1	SED14 SED1403 6/22/2006 2.5-3	SED15 SED1501 6/22/2006 0-1	SED15 SED1503 6/22/2006 2-3	SED16 SED1601 6/22/2006 0-1	SED16 SED1603 6/22/2006 2.5-3	SED17 SED1701 6/22/2006 0.5-1	SED17 SED1704 6/22/2006 3-3.8	SED18 SED1801 6/22/2006 0-1
4,4'-DDD	< 0.0192		< 0.00594		< 0.0357		< 0.00671		< 0.0405
4,4'-DDE	< 0.0192		< 0.00594		< 0.0357		< 0.00671		< 0.0405
4,4'-DDT	< 0.0192		< 0.00594		< 0.0357		< 0.00671		< 0.0405
Aroclor-1254	< 0.192		< 0.0593		< 0.357		< 0.067		< 0.404
Aroclor-1260	< 0.192		< 0.0593		< 0.357		< 0.067		< 0.404
Endrin ketone	< 0.0192		< 0.00594		< 0.0357		< 0.00671		< 0.0405
<b>Inorganics (mg/kg)</b>									
Antimony	< 15.1	< 7.8	< 6.6	< 6.3	< 22.6	< 7.1	< 7.6	< 6.3	< 25.7
Arsenic	47.6	16.7	12.6	< 1.6	20	6.4	< 0.4	< 0.3	22.2
Barium	130	18.5	9.7	9	194	18.6	12.4	11.1	278
Beryllium	0.35	0.1	< 0.07	< 0.06	0.6	< 0.07	< 0.08	< 0.06	0.72
Cadmium	2.26	< 0.78	< 0.66	< 0.63	5.66	< 0.71	< 0.76	< 0.63	6.9
Chromium	49.1	2.1	2.9	2.8	565	3.9	11.1	3.5	640
Copper	215	2.1	5.8	4.2	2050	3.7	34.8	3.2	2590
Lead	250	< 7.8	< 6.6	< 6.3	763	< 7.1	20.9	< 6.3	961
Mercury	< 0.116	< 0.045	< 0.041	< 0.037	0.162	< 0.039	< 0.047	< 0.041	0.163
Nickel	31.4	< 3.9	6.8	11.3	130	3.5	5.7	5.1	157
Selenium	< 15.1	< 7.8	< 6.6	< 6.3	< 22.6	< 7.1	< 7.6	< 6.3	< 25.7
Silver	18.5	< 0.78	< 0.66	< 0.63	164	< 0.71	5.27	< 0.63	227
Thallium	< 3.8	< 2	< 1.6	< 1.6	< 5.6	< 1.8	< 1.9	< 1.6	< 6.4
Zinc	363	6.4	12.6	21.3	1630	10.8	39.3	13.8	1940
Total Organic Carbon (TOC)	31000		7000		73000		5800		115000
<b>TPH (mg/kg)</b>									
Total Petroleum Hydrocarbons (TPH)	< 147		< 44.9		< 275		83.4		< 291
<b>Dioxins/Furans (mg/kg)</b>									
1,2,3,4,6,7,8-HpCDD	0.000071		< 0.0000008		0.00048		0.000021		0.00064
1,2,3,4,6,7,8-HpCDF	0.000037		< 0.0000008		0.00057		0.000035		0.001
1,2,3,4,7,8,9-HpCDF	0.0000044		< 0.0000008		0.000092		0.0000065		0.00017
1,2,3,4,7,8-HxCDD	0.0000033		< 0.0000008		0.000041		0.0000022		0.000074
1,2,3,4,7,8-HxCDF	< 0.0000017		< 0.0000008		0.00033		0.000017		0.00067
1,2,3,6,7,8-HxCDD	0.0000068		< 0.0000008		0.00012		0.0000057		0.00019
1,2,3,6,7,8-HxCDF	0.000026		< 0.0000008		0.00057		0.00003		0.0013
1,2,3,7,8,9-HxCDD	0.0000034		< 0.0000008		0.000056		0.0000033		0.000097
1,2,3,7,8,9-HxCDF	0.0000084		< 0.0000008		0.00019		0.000013		0.00039
1,2,3,7,8-PeCDD	0.0000048		< 0.0000008		0.000056		0.0000033		0.000098
1,2,3,7,8-PeCDF	0.0000084		< 0.0000008		< 0.0000034		0.0000081		< 0.0000032

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED14 SED1401 6/22/2006 0-1	SED14 SED1403 6/22/2006 2.5-3	SED15 SED1501 6/22/2006 0-1	SED15 SED1503 6/22/2006 2-3	SED16 SED1601 6/22/2006 0-1	SED16 SED1603 6/22/2006 2.5-3	SED17 SED1701 6/22/2006 0.5-1	SED17 SED1704 6/22/2006 3-3.8	SED18 SED1801 6/22/2006 0-1
2,3,4,6,7,8-HxCDF	0.000051		< 0.0000008		0.0004		0.000075		0.00091
2,3,4,7,8-PeCDF	0.00015		< 0.0000008		0.0028		0.00019		0.0062
2,3,7,8-TCDD	0.0000014		< 0.00000016		0.000016		0.0000011		0.00003
2,3,7,8-TCDF	0.0000076		< 0.00000016		0.000082		< 0.00000014		0.00012
OCDD	0.00047		0.0000044		0.0023		0.00007		0.0027
OCDF	0.000036		< 0.0000016		0.00025		0.000008		0.0003
TOTAL HpCDD	0.00014		< 0.0000008		0.00097		0.000044		0.0013
TOTAL HpCDF	0.000089		< 0.0000008		0.0014		0.000087		0.0028
TOTAL HxCDD	0.000087		< 0.0000008		0.0014		0.00007		0.0026
TOTAL HxCDF	0.00051		0.0000011		0.016		0.0009		0.023
TOTAL PeCDD	0.000047		< 0.0000008		0.001		0.000041		0.002
TOTAL PeCDF	0.0013		0.0000031		0.0073		0.0021		0.0096
TOTAL TCDD	0.000029		< 0.00000016		0.00038		0.000023		0.0008
TOTAL TCDF	0.00042		0.0000013		0.0069		0.0006		0.012

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED18 SED1804 6/22/2006 3.5-4	SED19 SED1901 6/22/2006 0-1	SED19 SED1903 6/22/2006 2-3	SED20 SED2001 6/22/2006 0.5-1	SED20 SED2003 6/22/2006 2.5-3	SED21 SED2101 6/22/2006 0-1	SED21 SED2103 6/22/2006 2.5-3	SED22 SED2201 6/22/2006 0-1	SED22 SED2203 6/22/2006 2-3
<b>Volatile Organics (mg/kg)</b>									
1,1,1-Trichloroethane	< 0.0313	0.635	6.65	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
1,1-Dichloroethane	< 0.0313	7.92	0.299	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
1,1-Dichloroethene	< 0.0313	11.3	0.8	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
2-Butanone	< 0.313	< 0.17	0.936	< 0.149	< 0.209	< 0.0445	< 0.0428	< 0.126	< 0.357
Acetone	0.796	0.242	1.94	0.421	0.57	< 0.0445	0.0608	0.294	1.08
Carbon Disulfide	< 0.0313	0.0576	0.212	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
cis-1,2-Dichloroethene	< 0.0313	175	5.78	< 0.0149	< 0.0209	< 0.0044	0.0267	< 0.0126	< 0.0357
Isopropyl Benzene	< 0.0313	< 0.017	0.0688	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
n-Propyl Benzene	< 0.0313	< 0.017	< 0.0579	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
s-Butylbenzene	< 0.0313	0.0197	0.0977	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
Tetrachloroethene	< 0.0313	18.1	27	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
Toluene	< 0.0313	< 0.017	< 0.0579	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
trans-1,2-Dichloroethene	< 0.0313	2.79	0.153	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
Trichloroethene	< 0.0313	58.4	88	< 0.0149	< 0.0209	< 0.0044	< 0.0043	< 0.0126	< 0.0357
Vinyl Chloride	0.107	0.148	< 0.116	< 0.0298	< 0.0418	< 0.0089	< 0.0086	< 0.0253	< 0.0714
<b>Semivolatile Organics (mg/kg)</b>									
1-Methylnaphthalene	< 0.148	< 0.124	0.266	< 0.0612	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Acenaphthene	< 0.148	< 0.124	< 0.198	0.153	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Acenaphthylene	< 0.148	< 0.124	< 0.198	0.781	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Anthracene	< 0.148	< 0.124	< 0.198	3.09	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Benzo(a)anthracene	< 0.148	0.218	< 0.198	15.1	< 0.104	< 0.0328	< 0.0301	0.108	< 0.119
Benzo(a)pyrene	< 0.148	0.151	< 0.198	7.87	< 0.104	< 0.0328	< 0.0301	0.102	< 0.119
Benzo(b)fluoranthene	< 0.148	0.32	< 0.198	14.8	< 0.104	< 0.0328	< 0.0301	0.114	< 0.119
Benzo(g,h,i)perylene	< 0.148	< 0.124	< 0.198	2.54	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Benzo(k)fluoranthene	< 0.148	< 0.124	< 0.198	5.1	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Chrysene	< 0.148	0.201	< 0.198	8.94	< 0.104	< 0.0328	< 0.0301	0.119	< 0.119
Dibenzo(a,h)anthracene	< 0.148	< 0.124	< 0.198	1.45	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Di-n-butylphthalate									
Fluoranthene	< 0.148	0.533	< 0.198	28.8	< 0.104	< 0.0328	< 0.0301	0.235	< 0.119
Fluorene	< 0.148	< 0.124	< 0.198	0.863	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Indeno(1,2,3-cd)pyrene	< 0.148	< 0.124	< 0.198	2.47	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Naphthalene	< 0.148	< 0.124	< 0.198	< 0.0612	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
Phenanthrene	< 0.148	0.218	< 0.198	11.8	< 0.104	< 0.0328	< 0.0301	0.121	< 0.119
Pyrene	< 0.148	0.35	< 0.198	15.2	< 0.104	< 0.0328	< 0.0301	< 0.0794	< 0.119
<b>Pesticides/PCBs (mg/kg)</b>									

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED18 SED1804 6/22/2006 3.5-4	SED19 SED1901 6/22/2006 0-1	SED19 SED1903 6/22/2006 2-3	SED20 SED2001 6/22/2006 0.5-1	SED20 SED2003 6/22/2006 2.5-3	SED21 SED2101 6/22/2006 0-1	SED21 SED2103 6/22/2006 2.5-3	SED22 SED2201 6/22/2006 0-1	SED22 SED2203 6/22/2006 2-3
4,4'-DDD		< 0.0247		0.0292		< 0.00692		< 0.0327	
4,4'-DDE		< 0.0247		< 0.0112		< 0.00692		< 0.0327	
4,4'-DDT		< 0.0247		< 0.0112		< 0.00692		< 0.0327	
Aroclor-1254		< 0.246		< 0.112		< 0.0691		< 0.163	
Aroclor-1260		0.605		< 0.112		< 0.0691		< 0.163	
Endrin ketone		0.0431		< 0.0112		< 0.00692		< 0.0327	
<b>Inorganics (mg/kg)</b>									
Antimony	< 32.3	< 23.6	< 47.4	< 13.1	< 24.4	< 7.4	< 6.8	< 15.9	< 27.6
Arsenic	18.2	36	244	< 0.7	2.2	2.1	< 1.7	12	< 6.9
Barium	18.7	224	89.2	25.3	< 12.2	13	5.4	125	33.6
Beryllium	< 0.32	1.03	0.52	< 0.13	< 0.25	0.14	< 0.07	0.32	1.17
Cadmium	< 3.23	7.11	6.35	< 1.31	< 2.44	< 0.74	< 0.68	2.8	< 2.76
Chromium	10.3	387	14.2	7.5	11.8	7.1	3	616	16.2
Copper	13	1880	33	14.6	5.9	20.1	2.3	1970	46
Lead	< 32.3	927	< 47.4	34.1	< 24.4	12.2	< 6.8	426	< 27.6
Mercury	< 0.196	2.52	< 0.269	< 0.067	< 0.14	< 0.043	< 0.039	0.677	< 0.156
Nickel	17.7	433	458	< 6.6	< 12.2	6.8	< 3.4	86	< 13.8
Selenium	< 32.3	< 23.6	< 47.4	< 13.1	< 24.4	< 7.4	< 6.8	< 15.9	< 27.6
Silver	< 3.23	192	4.87	< 1.31	< 2.44	2.77	< 0.68	163	< 2.76
Thallium	< 8.1	< 5.9	< 11.8	< 3.3	< 6.1	< 1.8	< 1.7	< 4	< 6.9
Zinc	27.9	1830	588	38.8	< 12.2	71.6	9.6	1360	37.3
Total Organic Carbon (TOC)		69600		26000		5300		24000	
<b>TPH (mg/kg)</b>									
Total Petroleum Hydrocarbons (TPH)		756		1810		57.8		190	
<b>Dioxins/Furans (mg/kg)</b>									
1,2,3,4,6,7,8-HpCDD		0.00027		0.00009		0.0000045		0.00011	
1,2,3,4,6,7,8-HpCDF		0.00051		0.0002		0.0000065		0.00016	
1,2,3,4,7,8,9-HpCDF		0.00011		0.000041		0.0000012		0.000025	
1,2,3,4,7,8-HxCDD		0.000051		0.000015		< 0.0000084		< 0.000018	
1,2,3,4,7,8-HxCDF		0.00039		0.00014		0.0000034		0.000068	
1,2,3,6,7,8-HxCDD		0.00012		0.000035		0.0000013		0.000028	
1,2,3,6,7,8-HxCDF		0.00062		0.00014		0.0000073		0.00016	
1,2,3,7,8,9-HxCDD		0.000059		0.000016		< 0.0000084		< 0.000018	
1,2,3,7,8,9-HxCDF		0.00025		0.000052		0.0000024		0.000062	
1,2,3,7,8-PeCDD		0.000069		0.00003		0.00000095		0.000018	
1,2,3,7,8-PeCDF		< 0.0000027		< 0.0000012		0.0000023		0.000041	

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED18 SED1804 6/22/2006 3.5-4	SED19 SED1901 6/22/2006 0-1	SED19 SED1903 6/22/2006 2-3	SED20 SED2001 6/22/2006 0.5-1	SED20 SED2003 6/22/2006 2.5-3	SED21 SED2101 6/22/2006 0-1	SED21 SED2103 6/22/2006 2.5-3	SED22 SED2201 6/22/2006 0-1	SED22 SED2203 6/22/2006 2-3
2,3,4,6,7,8-HxCDF		0.00054		0.00012		0.000016		0.00015	
2,3,4,7,8-PeCDF		0.0035		0.00014		0.000044		0.0013	
2,3,7,8-TCDD		0.000021		0.0000073		< 0.0000017		0.0000068	
2,3,7,8-TCDF		0.000058		0.0000093		< 0.0000017		0.000027	
OCDD		0.00093		0.00024		0.000025		0.0005	
OCDF		0.0001		0.000082		0.0000022		0.000044	
TOTAL HpCDD		0.00058		0.00019		0.0000088		0.00024	
TOTAL HpCDF		0.0014		0.0005		0.000017		0.00042	
TOTAL HxCDD		0.0016		0.00047		0.000013		0.00031	
TOTAL HxCDF		0.012		0.0046		0.0002		0.0055	
TOTAL PeCDD		0.0014		0.00039		0.0000081		0.0002	
TOTAL PeCDF		0.0088		0.0069		0.00046		0.014	
TOTAL TCDD		0.00051		0.00016		0.0000036		0.00015	
TOTAL TCDF		0.0065		0.0014		0.00014		0.0045	

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram



Table 4.7  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED23 SED2301 6/22/2006 0-1	SED23 SED2303 6/22/2006 2-3	SED24 SED2401 6/22/2006 0-1	SED24 SED2403 6/22/2006 2-3	SED25 SED2501 6/22/2006 0-1	SED25 SED2503 6/22/2006 2.5-3	SED25 SED2507 6/23/2006 6-7	SED26 SED2601 6/22/2006 0-1	SED26 SED2602 6/22/2006 1.5-2
<b>Volatile Organics (mg/kg)</b>									
1,1,1-Trichloroethane	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
1,1-Dichloroethane	< 0.0041	< 0.0041	0.011	0.0544	1.09	0.051	< 0.0521	< 0.008	< 0.0118
1,1-Dichloroethene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
2-Butanone	< 0.0406	< 0.0406	< 0.0791	< 0.253	< 0.0877	0.442	< 0.521	< 0.0798	< 0.118
Acetone	< 0.0406	< 0.0406	< 0.0791	0.834	0.128	1.68	0.892	0.0856	< 0.118
Carbon Disulfide	< 0.0041	< 0.0041	< 0.0079	< 0.0253	0.0111	< 0.0311	0.0729	< 0.008	< 0.0118
cis-1,2-Dichloroethene	0.0091	0.0046	< 0.0079	< 0.0253	11.5	0.0822	0.56	< 0.008	< 0.0118
Isopropyl Benzene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	0.0738	< 0.0521	< 0.008	< 0.0118
n-Propyl Benzene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
s-Butylbenzene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	0.0563	< 0.0521	< 0.008	< 0.0118
Tetrachloroethene	1.04	0.0636	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
Toluene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
trans-1,2-Dichloroethene	< 0.0041	< 0.0041	< 0.0079	< 0.0253	< 0.0088	< 0.0311	< 0.0521	< 0.008	< 0.0118
Trichloroethene	0.176	0.0255	< 0.0079	< 0.0253	0.276	0.0313	< 0.0521	< 0.008	< 0.0118
Vinyl Chloride	< 0.0081	< 0.0081	0.0218	0.191	24.8	0.91	0.591	< 0.016	< 0.0236
<b>Semivolatile Organics (mg/kg)</b>									
1-Methylnaphthalene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Acenaphthene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Acenaphthylene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Anthracene	< 0.0322	< 0.0311	< 0.0631	< 0.125	0.163	< 0.215	< 0.209	< 0.0463	< 0.0518
Benzo(a)anthracene	< 0.0322	< 0.0311	0.0896	< 0.125	0.541	< 0.215	< 0.209	0.241	< 0.0518
Benzo(a)pyrene	< 0.0322	< 0.0311	0.0707	< 0.125	0.483	< 0.215	< 0.209	0.273	< 0.0518
Benzo(b)fluoranthene	< 0.0322	< 0.0311	0.0732	< 0.125	0.516	< 0.215	< 0.209	0.256	< 0.0518
Benzo(g,h,i)perylene	< 0.0322	< 0.0311	< 0.0631	< 0.125	0.27	< 0.215	< 0.209	0.144	< 0.0518
Benzo(k)fluoranthene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Chrysene	< 0.0322	< 0.0311	0.0896	< 0.125	0.534	< 0.215	< 0.209	0.227	< 0.0518
Dibenzo(a,h)anthracene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Di-n-butylphthalate									
Fluoranthene	< 0.0322	< 0.0311	0.211	0.211	3.17	< 0.215	< 0.209	0.419	< 0.0518
Fluorene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Indeno(1,2,3-cd)pyrene	< 0.0322	< 0.0311	< 0.0631	< 0.125	0.27	< 0.215	< 0.209	0.133	< 0.0518
Naphthalene	< 0.0322	< 0.0311	< 0.0631	< 0.125	< 0.0829	< 0.215	< 0.209	< 0.0463	< 0.0518
Phenanthrene	< 0.0322	< 0.0311	0.169	0.135	2.46	< 0.215	< 0.209	0.158	< 0.0518
Pyrene	< 0.0322	< 0.0311	0.177	< 0.125	2.4	< 0.215	< 0.209	0.348	< 0.0518
<b>Pesticides/PCBs (mg/kg)</b>									

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED23	SED23	SED24	SED24	SED25	SED25	SED25	SED26	SED26
	SED2301 6/22/2006 0-1	SED2303 6/22/2006 2-3	SED2401 6/22/2006 0-1	SED2403 6/22/2006 2-3	SED2501 6/22/2006 0-1	SED2503 6/22/2006 2.5-3	SED2507 6/23/2006 6-7	SED2601 6/22/2006 0-1	SED2602 6/22/2006 1.5-2
4,4'-DDD	< 0.00685		< 0.0229		< 0.0309			< 0.0189	
4,4'-DDE	< 0.00685		< 0.0229		< 0.0309			< 0.0189	
4,4'-DDT	< 0.00685		< 0.0229		< 0.0309			< 0.0189	
Aroclor-1254	< 0.0685		0.207		< 0.168			< 0.093	
Aroclor-1260	< 0.0685		< 0.125		< 0.168			< 0.093	
Endrin ketone	< 0.00685		< 0.0229		< 0.0309			< 0.0189	
<b>Inorganics (mg/kg)</b>									
Antimony	< 7.4	< 6.6	< 9.8	< 25.3	< 13.1	< 46.3	< 46.3	< 10.1	< 12.2
Arsenic	< 1.8	< 1.7	9.3	20.7	22.4	115	78.6	36.1	55.2
Barium	13.1	7.8	82.4	73.8	207	85.7	< 23.1	466	2430
Beryllium	< 0.07	< 0.07	0.28	0.41	0.58	< 0.47	< 0.47	0.87	1.75
Cadmium	< 0.74	< 0.66	2.87	< 2.53	4.56	< 4.63	< 4.63	1.57	2.06
Chromium	333	73.5	532	34.3	300	19.6	10.4	18.8	25.3
Copper	8.6	4.7	1930	200	1890	51.8	10.7	180	144
Lead	< 7.4	< 6.6	520	76.4	672	< 46.3	< 46.3	219	182
Mercury	< 0.044	< 0.04	0.653	0.171	0.159	< 0.278	< 0.269	0.637	0.477
Nickel	< 3.7	< 3.3	55.6	16.3	113	46.4	43.8	274	33.1
Selenium	< 7.4	< 6.6	< 9.8	< 25.3	< 13.1	< 46.3	< 46.3	17.9	38.7
Silver	< 0.74	< 0.66	107	31.9	140	< 4.63	< 4.63	37.9	14.1
Thallium	< 1.8	< 1.7	< 2.5	< 6.3	< 3.3	< 11.6	< 11.6	< 2.5	3.2
Zinc	9.5	7.9	1920	157	1360	77.6	84.8	209	166
Total Organic Carbon (TOC)	2800		23000		46100			29600	
<b>TPH (mg/kg)</b>									
Total Petroleum Hydrocarbons (TPH)	< 50.1		226		380			88.8	
<b>Dioxins/Furans (mg/kg)</b>									
1,2,3,4,6,7,8-HpCDD	< 0.0000068		0.000029		0.00032			0.00002	
1,2,3,4,6,7,8-HpCDF	< 0.0000068		0.000029		0.00044			0.0000059	
1,2,3,4,7,8,9-HpCDF	< 0.0000068		0.0000045		0.000079			< 0.0000014	
1,2,3,4,7,8-HxCDD	< 0.0000068		0.0000013		0.00003			< 0.0000014	
1,2,3,4,7,8-HxCDF	< 0.0000068		0.000012		0.00031			0.0000024	
1,2,3,6,7,8-HxCDD	< 0.0000068		0.0000054		0.000083			0.0000036	
1,2,3,6,7,8-HxCDF	< 0.0000068		0.000016		0.00038			< 0.0000014	
1,2,3,7,8,9-HxCDD	< 0.0000068		0.0000028		0.000038			0.0000017	
1,2,3,7,8,9-HxCDF	< 0.0000068		0.000007		0.00018			< 0.0000014	
1,2,3,7,8-PeCDD	< 0.0000068		0.0000024		0.000063			< 0.0000014	
1,2,3,7,8-PeCDF	< 0.0000068		0.0000055		< 0.0000049			< 0.0000014	

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED23 SED2301 6/22/2006 0-1	SED23 SED2303 6/22/2006 2-3	SED24 SED2401 6/22/2006 0-1	SED24 SED2403 6/22/2006 2-3	SED25 SED2501 6/22/2006 0-1	SED25 SED2503 6/22/2006 2.5-3	SED25 SED2507 6/23/2006 6-7	SED26 SED2601 6/22/2006 0-1	SED26 SED2602 6/22/2006 1.5-2
2,3,4,6,7,8-HxCDF	< 0.0000068		0.000012		0.00031			< 0.0000014	
2,3,4,7,8-PeCDF	< 0.0000068		0.000095		0.0022			0.0000017	
2,3,7,8-TCDD	< 0.0000014		0.0000072		0.000018			< 0.0000028	
2,3,7,8-TCDF	< 0.0000014		< 0.0000026		0.000053			0.0000016	
OCDD	0.0000035		0.00017		0.0019			0.000043	
OCDF	< 0.0000014		0.000017		0.00017			0.0000062	
TOTAL HpCDD	< 0.0000068		0.000058		0.00065			0.000033	
TOTAL HpCDF	< 0.0000068		0.000066		0.0011			0.0000059	
TOTAL HxCDD	< 0.0000068		0.00005		0.0011			0.000064	
TOTAL HxCDF	0.0000017		0.00049		0.012			0.0000054	
TOTAL PeCDD	< 0.0000068		0.000029		0.00091			0.000022	
TOTAL PeCDF	0.0000044		0.0011		0.012			0.0000061	
TOTAL TCDD	< 0.0000014		0.000017		0.0005			0.000021	
TOTAL TCDF	0.0000012		0.00032		0.0069			0.000021	

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED26 SED2605 6/22/2006 4-5	SED27 SED2701 6/22/2006 0-1	SED27 SED2703 6/22/2006 2.5-3	SED28 SED2801 6/21/2006 0.5-1	SED28 SED2803 6/21/2006 2.5-3	SED29 SED2901 6/21/2006 0.5-1	SED29 SED2904 6/21/2006 3-4	SED30 SED3001 6/21/2006 0.5-1	SED30 SED3004 6/21/2006 3.6-4
<b>Volatile Organics (mg/kg)</b>									
1,1,1-Trichloroethane		< 0.0198	0.384	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
1,1-Dichloroethane		4.67	0.0054	0.0266	< 0.0758	< 0.025	< 0.49	< 0.0043	0.0285
1,1-Dichloroethene		2.34	0.0144	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
2-Butanone		< 0.198	< 0.0459	< 0.226	< 0.758	< 0.25	< 12.2	< 0.0434	< 0.111
Acetone		< 0.198	< 0.0459	0.384	1.57	0.27	< 12.2	< 0.0434	0.147
Carbon Disulfide		0.0398	0.0068	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
cis-1,2-Dichloroethene		103	0.0386	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
Isopropyl Benzene		< 0.0198	< 0.0046	0.0514	0.332	< 0.025	< 0.49	< 0.0043	< 0.0111
n-Propyl Benzene		< 0.0198	< 0.0046	< 0.0226	0.0955	< 0.025	< 0.49	< 0.0043	< 0.0111
s-Butylbenzene		< 0.0198	< 0.0046	0.0303	0.173	< 0.025	< 0.49	< 0.0043	< 0.0111
Tetrachloroethene		< 0.0198	0.0154	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
Toluene		< 0.0198	< 0.0046	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
trans-1,2-Dichloroethene		3.62	< 0.0046	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
Trichloroethene		15.1	0.691	< 0.0226	< 0.0758	< 0.025	< 0.49	< 0.0043	< 0.0111
Vinyl Chloride		5.42	< 0.0092	0.0499	< 0.152	< 0.05	< 0.49	< 0.0087	0.224
<b>Semivolatile Organics (mg/kg)</b>									
1-Methylnaphthalene	< 0.137	< 0.124	< 0.031	< 0.0912	< 0.232	< 0.101	< 0.0957	< 0.0311	< 0.0507
Acenaphthene	< 0.137	< 0.124	< 0.031	< 0.0912	< 0.232	< 0.101	< 0.0957	< 0.0311	< 0.0507
Acenaphthylene	< 0.137	< 0.124	< 0.031	< 0.0912	< 0.232	< 0.101	< 0.0957	< 0.0311	< 0.0507
Anthracene	< 0.137	< 0.124	< 0.031	0.403	< 0.232	0.169	< 0.0957	0.0852	< 0.0507
Benzo(a)anthracene	< 0.137	0.134	< 0.031	1.29	< 0.232	0.687	< 0.0957	0.376	< 0.0507
Benzo(a)pyrene	< 0.137	< 0.124	< 0.031	0.993	< 0.232	0.543	< 0.0957	0.239	< 0.0507
Benzo(b)fluoranthene	< 0.137	0.285	< 0.031	1.49	< 0.232	0.882	< 0.0957	0.433	0.0527
Benzo(g,h,i)perylene	< 0.137	< 0.124	< 0.031	0.296	< 0.232	0.117	< 0.0957	0.152	< 0.0507
Benzo(k)fluoranthene	< 0.137	< 0.124	< 0.031	0.668	< 0.232	0.396	< 0.0957	0.137	< 0.0507
Chrysene	< 0.137	< 0.124	< 0.031	1.16	< 0.232	0.617	< 0.0957	0.299	< 0.0507
Dibenzo(a,h)anthracene	< 0.137	< 0.124	< 0.031	0.0912	< 0.232	< 0.101	< 0.0957	0.0404	< 0.0507
Di-n-butylphthalate									
Fluoranthene	< 0.137	0.354	< 0.031	2.31	< 0.232	1.34	< 0.0957	0.535	0.0821
Fluorene	< 0.137	< 0.124	< 0.031	0.135	< 0.232	< 0.101	< 0.0957	0.0802	< 0.0507
Indeno(1,2,3-cd)pyrene	< 0.137	< 0.124	< 0.031	0.314	< 0.232	0.125	< 0.0957	0.124	< 0.0507
Naphthalene	< 0.137	< 0.124	< 0.031	< 0.0912	< 0.232	< 0.101	< 0.0957	0.0342	< 0.0507
Phenanthrene	< 0.137	< 0.124	< 0.031	1.14	< 0.232	0.689	< 0.0957	0.466	< 0.0507
Pyrene	< 0.137	0.196	< 0.031	1.29	< 0.232	0.874	< 0.0957	0.81	0.0659
<b>Pesticides/PCBs (mg/kg)</b>									

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED26 SED2605 6/22/2006 4-5	SED27 SED2701 6/22/2006 0-1	SED27 SED2703 6/22/2006 2.5-3	SED28 SED2801 6/21/2006 0.5-1	SED28 SED2803 6/21/2006 2.5-3	SED29 SED2901 6/21/2006 0.5-1	SED29 SED2904 6/21/2006 3-4	SED30 SED3001 6/21/2006 0.5-1	SED30 SED3004 6/21/2006 3.6-4
4,4'-DDD		< 0.0481		< 0.0193		< 0.0211		< 0.00635	
4,4'-DDE		< 0.0481		< 0.0193		< 0.0211		< 0.00635	
4,4'-DDT		< 0.0481		< 0.0193		< 0.0211		< 0.00635	
Aroclor-1254		< 0.245		< 0.193		< 0.21		0.528	
Aroclor-1260		< 0.245		< 0.193		< 0.21		< 0.0634	
Endrin ketone		< 0.0481		< 0.0193		< 0.0211		< 0.00635	
<b>Inorganics (mg/kg)</b>									
Antimony	< 28.9	< 16.6	< 7.2	< 19.7	< 50.8	< 20.4	< 21.7	< 7	< 11.8
Arsenic	< 7.2	36.6	4.1	33.8	51.4	31.7	24.7	2.2	< 3
Barium	93.2	123	14.2	202	115	372	13.5	25.1	10.2
Beryllium	0.29	0.85	< 0.07	0.64	0.81	0.65	< 0.22	0.11	< 0.12
Cadmium	< 2.89	4.39	< 0.72	4.73	< 5.08	6.44	< 2.17	0.75	< 1.18
Chromium	8.4	148	4.6	372	19.6	252	14.7	172	10.3
Copper	19.7	892	454	1930	48.4	1260	57.9	1320	33.6
Lead	< 28.9	507	< 7.2	659	101	772	< 21.7	159	23
Mercury	< 0.17	< 0.12	< 0.042	1.21	< 0.284	1.53	< 0.115	0.113	< 0.07
Nickel	< 14.4	853	18.6	118	< 25.4	147	35.1	19.2	7.2
Selenium	< 28.9	< 16.6	< 7.2	< 19.7	< 50.8	< 20.4	< 21.7	< 7	< 11.8
Silver	< 2.89	78.3	< 0.72	132	< 5.08	130	< 2.17	38.4	3.34
Thallium	< 7.2	< 4.1	< 1.8	< 4.9	< 12.7	< 5.1	< 5.4	< 1.7	< 3
Zinc	19.8	1300	24.3	1420	45.5	1480	54.8	893	43.3
Total Organic Carbon (TOC)		46000		41000		45000		6700	
<b>TPH (mg/kg)</b>									
Total Petroleum Hydrocarbons (TPH)		413		394		459		1240	
<b>Dioxins/Furans (mg/kg)</b>									
1,2,3,4,6,7,8-HpCDD		0.00018		0.00049		0.00018		0.000066	
1,2,3,4,6,7,8-HpCDF		0.00023		0.00064		0.00035		0.000036	
1,2,3,4,7,8,9-HpCDF		0.000036		0.000099		0.000069		0.0000061	
1,2,3,4,7,8-HxCDD		< 0.000021		0.000039		0.000018		0.0000034	
1,2,3,4,7,8-HxCDF		0.00013		0.0003		0.00021		0.000018	
1,2,3,6,7,8-HxCDD		0.000037		0.00011		0.00007		0.000012	
1,2,3,6,7,8-HxCDF		0.00015		0.00052		0.00029		0.000014	
1,2,3,7,8,9-HxCDD		0.000022		0.000068		0.000031		0.0000072	
1,2,3,7,8,9-HxCDF		0.000075		0.0002		0.00014		0.0000096	
1,2,3,7,8-PeCDD		0.000029		0.000076		0.000041		0.0000052	
1,2,3,7,8-PeCDF		0.000035		< 0.000018		< 0.000018		< 0.0000007	

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED26 SED2605 6/22/2006 4-5	SED27 SED2701 6/22/2006 0-1	SED27 SED2703 6/22/2006 2.5-3	SED28 SED2801 6/21/2006 0.5-1	SED28 SED2803 6/21/2006 2.5-3	SED29 SED2901 6/21/2006 0.5-1	SED29 SED2904 6/21/2006 3-4	SED30 SED3001 6/21/2006 0.5-1	SED30 SED3004 6/21/2006 3.6-4
2,3,4,6,7,8-HxCDF		0.00018		0.00042		0.00023		0.000013	
2,3,4,7,8-PeCDF		0.00091		0.0031		0.00016		0.000076	
2,3,7,8-TCDD		0.0000081		0.000022		0.000012		0.0000062	
2,3,7,8-TCDF		< 0.0000042		0.000084		0.000032		0.0000047	
OCDD		0.00083		0.0029		0.00084		0.00054	
OCDF		0.00013		0.00021		0.00017		0.000037	
TOTAL HpCDD		0.00038		0.001		0.0004		0.00013	
TOTAL HpCDF		0.00051		0.0016		0.00087		0.000094	
TOTAL HxCDD		0.00045		0.0014		0.0009		0.00013	
TOTAL HxCDF		0.0048		0.01		0.0083		0.00038	
TOTAL PeCDD		0.00024		0.00095		0.00053		0.000055	
TOTAL PeCDF		0.0098		0.024		0.014		0.00059	
TOTAL TCDD		0.00013		0.00042		0.00027		0.000021	
TOTAL TCDF		0.003		0.0088		0.0037		0.00017	

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical.name	SED31 SED3101 6/21/2006 0.5-1	SED31 SED3104 6/21/2006 3-3.6	SED32 SED3201 6/21/2006 0.5-1	SED32 SED3204 6/21/2006 3.5-4
<b>Volatile Organics (mg/kg)</b>				
1,1,1-Trichloroethane	< 0.0289	< 0.0051	< 0.005	< 0.0061
1,1-Dichloroethane	1.92	< 0.0051	< 0.005	< 0.0061
1,1-Dichloroethene	< 0.0289	< 0.0051	< 0.005	< 0.0061
2-Butanone	< 0.289	< 0.0505	< 0.0496	< 0.0613
Acetone	0.522	< 0.0505	< 0.0496	< 0.0613
Carbon Disulfide	< 0.0289	< 0.0051	< 0.005	< 0.0061
cis-1,2-Dichloroethene	10.6	< 0.0051	< 0.005	0.0137
Isopropyl Benzene	< 0.0289	< 0.0051	< 0.005	< 0.0061
n-Propyl Benzene	< 0.0289	< 0.0051	< 0.005	< 0.0061
s-Butylbenzene	< 0.0289	< 0.0051	< 0.005	< 0.0061
Tetrachloroethene	< 0.0289	< 0.0051	< 0.005	< 0.0061
Toluene	1.92	< 0.0051	< 0.005	< 0.0061
trans-1,2-Dichloroethene	< 0.0289	< 0.0051	< 0.005	< 0.0061
Trichloroethene	0.797	< 0.0051	< 0.005	0.0073
Vinyl Chloride	11.7	< 0.0101	< 0.0099	< 0.0123
<b>Semivolatile Organics (mg/kg)</b>				
1-Methylnaphthalene	< 0.109	< 0.0335	< 0.034	< 0.0309
Acenaphthene	< 0.109	< 0.0335	0.12	< 0.0309
Acenaphthylene	< 0.109	< 0.0335	< 0.034	< 0.0309
Anthracene	0.171	< 0.0335	0.438	< 0.0309
Benzo(a)anthracene	0.671	< 0.0335	0.64	< 0.0309
Benzo(a)pyrene	0.503	< 0.0335	0.497	< 0.0309
Benzo(b)fluoranthene	1.18	< 0.0335	0.892	< 0.0309
Benzo(g,h,i)perylene	0.124	< 0.0335	0.191	< 0.0309
Benzo(k)fluoranthene	0.326	< 0.0335	0.43	< 0.0309
Chrysene	0.579	< 0.0335	0.551	< 0.0309
Dibenzo(a,h)anthracene	< 0.109	< 0.0335	0.0667	< 0.0309
Di-n-butylphthalate				
Fluoranthene	1.51	< 0.0335	1.56	< 0.0309
Fluorene	< 0.109	< 0.0335	0.156	< 0.0309
Indeno(1,2,3-cd)pyrene	0.128	< 0.0335	0.207	< 0.0309
Naphthalene	< 0.109	< 0.0335	0.0456	< 0.0309
Phenanthrene	0.757	< 0.0335	1.23	< 0.0309
Pyrene	0.953	< 0.0335	1.07	< 0.0309
<b>Pesticides/PCBs (mg/kg)</b>				

**Table 4.7**  
**Compound Detected in Sediment (0-7 ft)**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
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chemical.name	SED31	SED31	SED32	SED32
	SED3101 6/21/2006 0.5-1	SED3104 6/21/2006 3-3.6	SED3201 6/21/2006 0.5-1	SED3204 6/21/2006 3.5-4
4,4'-DDD	< 0.0207		0.0301	
4,4'-DDE	< 0.0207		0.0109	
4,4'-DDT	< 0.0207		0.0635	
Aroclor-1254	< 0.207		< 0.0677	
Aroclor-1260	< 0.207		< 0.0677	
Endrin ketone	< 0.0207		< 0.00678	
<b>Inorganics (mg/kg)</b>				
Antimony	< 21.3	< 7.2	< 7.4	< 7.1
Arsenic	14.8	< 1.8	< 1.8	5.6
Barium	113	6.1	13.4	11.1
Beryllium	0.61	< 0.07	0.1	0.2
Cadmium	4.13	< 0.72	0.93	< 0.71
Chromium	449	3.2	28.9	7.1
Copper	1790	2.8	2670	8.5
Lead	1120	< 7.2	304	< 7.1
Mercury	1.11	< 0.044	0.061	< 0.037
Nickel	99.8	< 3.6	22.8	4.3
Selenium	< 21.3	< 7.2	< 7.4	< 7.1
Silver	131	< 0.72	30.3	< 0.71
Thallium	< 5.3	< 1.8	< 1.8	< 1.8
Zinc	1440	5.8	1110	19.5
Total Organic Carbon (TOC)	46000		7000	
<b>TPH (mg/kg)</b>				
Total Petroleum Hydrocarbons (TPH)	961		209	
<b>Dioxins/Furans (mg/kg)</b>				
1,2,3,4,6,7,8-HpCDD	0.00043		0.000074	
1,2,3,4,6,7,8-HpCDF	0.00071		0.00004	
1,2,3,4,7,8,9-HpCDF	0.00017		0.0000051	
1,2,3,4,7,8-HxCDD	0.000055		0.0000018	
1,2,3,4,7,8-HxCDF	0.00032		0.000011	
1,2,3,6,7,8-HxCDD	0.00015		0.0000048	
1,2,3,6,7,8-HxCDF	0.00075		0.000012	
1,2,3,7,8,9-HxCDD	0.000078		0.0000028	
1,2,3,7,8,9-HxCDF	0.00042		0.0000053	
1,2,3,7,8-PeCDD	0.00012		0.0000022	
1,2,3,7,8-PeCDF	0.00023		< 0.00000073	



**Table 4.7  
Compound Detected in Sediment (0-7 ft)  
Supplemental Site Investigation Report  
Former Gorham Manufacturing Site  
333 Adelaide Avenue  
Providence, Rhode Island**

chemical.name	SED31	SED31	SED32	SED32
	SED3101 6/21/2006 0.5-1	SED3104 6/21/2006 3-3.6	SED3201 6/21/2006 0.5-1	SED3204 6/21/2006 3.5-4
2,3,4,6,7,8-HxCDF	0.00064		0.000012	
2,3,4,7,8-PeCDF	0.0016		0.000028	
2,3,7,8-TCDD	0.000033		0.00000052	
2,3,7,8-TCDF	0.000076		0.000006	
OCDD	0.0016		0.00081	
OCDF	0.00019		0.00008	
TOTAL HpCDD	0.00094		0.00017	
TOTAL HpCDF	0.002		0.00012	
TOTAL HxCDD	0.002		0.000051	
TOTAL HxCDF	0.025		0.00032	
TOTAL PeCDD	0.0016		0.000025	
TOTAL PeCDF	0.04		0.0005	
TOTAL TCDD	0.00064		0.000012	
TOTAL TCDF	0.015		0.00016	

< - Compound not detected.  
Value is detection limit.  
mg/kg - milligrams per kilogram

Prepared by: BJR  
Checked by: KJC

**Table 4.8**  
**Average Sediment Concentration by Depth**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Chemical	Units	Average Concentration in Shallow Samples (0-2 ft)	Average Concentration in Deeper Samples (2-7 ft)
Arsenic	mg/kg	16.8	26.7
Chromium	mg/kg	955	46.6
Copper	mg/kg	192	12.6
Lead	mg/kg	364	22.6
Nickel	mg/kg	132	30.4
Silver	mg/kg	67.4	2.9
Zinc	mg/kg	783	61.1

ft - feet

mg/kg - milligrams per kilogram

Table 4.9  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Sediment Samples  
 Supplemental Site Investigation Report  
 Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, Rhode Island

chemical_name	TEF Humans- Mammals	SD-1001		SD-1002		SD-1003		SD-1004		SD-1005			
		SD-1001 12/28/2005 0-2	Sample*TEF	SD-1002 12/28/2005 0-2	Sample*TEF	SD-1003 12/28/2005 0-2	Sample*TEF	SD-1004 12/28/2005 0-2	Sample*TEF	SD-1005 12/28/2005 0-2	Sample*TEF		
1,2,3,4,6,7,8-HpCDD	0.01	0.00011	0.0000011	0.000059	0.0000059	0.00013	0.0000013	0.00014	0.0000014	0.00017	0.0000017		
1,2,3,4,6,7,8-HpCDF	0.01	0.000092	0.00000092	0.00016	0.0000016	0.00027	0.0000027	0.00021	0.0000021	0.00003	0.0000003		
1,2,3,4,7,8,9-HpCDF	0.01	0.0000099	0.000000099	0.000014	0.00000014	0.000049	0.00000049	0.000047	0.00000047	0.0000041	0.000000041		
1,2,3,4,7,8-HxCDD	0.1	0.0000049	0.00000049	0.0000061	0.00000061	0.000016	0.00000016	<	0.000014	0.0000007	<	0.0000018	0.00000009
1,2,3,4,7,8-HxCDF	0.1	0.00003	0.000003	0.000057	0.0000057	0.00017	0.0000017	0.00011	0.0000011	0.000017	0.00000017		
1,2,3,6,7,8-HxCDD	0.1	0.000013	0.00000013	0.000012	0.00000012	0.000042	0.00000042	0.000039	0.00000039	0.0000047	0.000000047		
1,2,3,6,7,8-HxCDF	0.1	0.000037	0.00000037	0.000059	0.00000059	0.00023	0.00000023	0.00026	0.00000026	0.0000033	0.000000033		
1,2,3,7,8,9-HxCDD	0.1	0.0000082	0.000000082	0.000008	0.00000008	0.000021	0.00000021	0.00002	0.00000002	<	0.00000027	0.0000000135	
1,2,3,7,8,9-HxCDF	0.1	<	0.00000031	0.000000155	<	0.0000028	0.000000028	0.0000071	0.000000071	<	0.00000091	4.55E-08	
1,2,3,7,8-PeCDD	1	0.0000097	0.00000097	0.0000074	0.00000074	0.000031	0.00000031	0.000033	0.00000033	<	0.0000003	0.00000015	
1,2,3,7,8-PeCDF	0.05	0.000016	0.00000008	0.000028	0.00000014	0.00006	0.0000003	0.000055	0.000000275	0.0000083	0.0000000415		
2,3,4,6,7,8-HxCDF	0.1	0.000036	0.00000036	0.000051	0.00000051	0.00018	0.00000018	0.00022	0.00000022	0.000028	0.000000028		
2,3,4,7,8-PeCDF	0.5	0.000036	0.0000018	0.000043	0.00000215	0.00016	0.0000008	0.00017	0.00000085	0.000023	0.000000115		
2,3,7,8-TCDD	1	0.0000053	0.00000053	0.0000025	0.00000025	0.0000095	0.000000095	0.0000092	0.000000092	0.00000098	0.000000098		
2,3,7,8-TCDF	0.1	0.000018	0.00000018	0.000015	0.00000015	0.000027	0.00000027	0.000029	0.00000029	0.0000043	0.000000043		
OCDD	0.0001	0.00075	0.000000075	0.00024	0.000000024	0.00042	0.000000042	0.00048	0.000000048	0.000077	7.7E-09		
OCDF	0.0001	0.00075	7.5E-09	0.00019	0.000000019	0.00019	0.000000019	0.00007	0.000000007	0.0000076	7.6E-10		
TEQ-Mammal (1)			<b>5.09E-05</b>		<b>5.61E-05</b>		<b>1.98E-04</b>		<b>2.03E-04</b>		<b>2.39E-05</b>		

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.  
 Bolded and Shaded values indicate the TEQ-Mammal is greater than the sediment screening value standard.  
 < - Compound was not detected and half the detection limit was used to calculate the TEQ.

Table 4.9  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Sediment Samples  
 Supplemental Site Investigation Report  
 Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, Rhode Island

chemical_name	SED10		SED11		SED12		SED13		SED14		SED15	
	SED1001 6/22/2006 0_5-1	Sample*TEF	SED1101 6/22/2006 0-1	Sample*TEF	SED1201 6/22/2006 0_5-1	Sample*TEF	SED1301 6/22/2006 0-0_5	Sample*TEF	SED1401 6/22/2006 0-1	Sample*TEF	SED1501 6/22/2006 0-1	Sample*TEF
1,2,3,4,6,7,8-HpCDD	< 0.00000075	3.75E-09	0.00028	0.000028	0.000068	0.0000068	0.0000022	0.00000022	0.000071	0.0000071	< 0.000008	0.00000004
1,2,3,4,6,7,8-HpCDF	< 0.00000075	3.75E-09	0.00014	0.000014	0.000079	0.0000079	< 0.00000076	3.8E-09	0.000037	0.0000037	< 0.000008	0.00000004
1,2,3,4,7,8,9-HpCDF	< 0.00000075	3.75E-09	0.000018	0.0000018	0.000079	0.0000079	< 0.00000076	3.8E-09	0.000044	0.0000044	< 0.000008	0.00000004
1,2,3,4,7,8-HxCDD	< 0.00000075	3.75E-08	0.0000095	0.0000095	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	0.0000033	0.0000033	< 0.000008	0.00000004
1,2,3,4,7,8-HxCDF	< 0.00000075	3.75E-08	0.000036	0.0000036	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	< 0.0000017	0.00000085	< 0.000008	0.00000004
1,2,3,6,7,8-HxCDD	< 0.00000075	3.75E-08	0.000025	0.0000025	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	0.0000068	0.0000068	< 0.000008	0.00000004
1,2,3,6,7,8-HxCDF	< 0.00000075	3.75E-08	0.000086	0.0000086	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	0.000026	0.0000026	< 0.000008	0.00000004
1,2,3,7,8,9-HxCDD	< 0.00000075	3.75E-08	0.000017	0.0000017	0.00008	0.000008	< 0.00000076	0.00000038	0.0000034	0.0000034	< 0.000008	0.00000004
1,2,3,7,8,9-HxCDF	< 0.00000075	3.75E-08	0.00003	0.000003	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	0.0000084	0.0000084	< 0.000008	0.00000004
1,2,3,7,8-PeCDD	< 0.00000075	0.00000375	0.000011	0.000011	< 0.00000071	0.00000355	< 0.00000076	0.00000038	0.0000048	0.0000048	< 0.000008	0.00000004
1,2,3,7,8-PeCDF	< 0.00000075	1.875E-08	0.000032	0.0000032	< 0.00000071	1.775E-08	< 0.00000076	0.00000019	0.0000084	0.0000084	< 0.000008	0.00000002
2,3,4,6,7,8-HxCDF	< 0.00000075	3.75E-08	0.00008	0.000008	< 0.00000071	3.55E-08	< 0.00000076	0.00000038	0.000051	0.0000051	< 0.000008	0.00000004
2,3,4,7,8-PeCDF	< 0.00000075	1.875E-07	0.00043	0.0000215	0.00000073	0.00000365	0.00000086	0.0000043	0.00015	0.000075	< 0.000008	0.00000002
2,3,7,8-TCDD	< 0.00000015	0.00000075	0.000042	0.0000042	< 0.00000014	0.00000007	< 0.00000015	0.000000075	0.0000014	0.0000014	< 0.00000016	0.00000008
2,3,7,8-TCDF	< 0.00000015	7.5E-09	< 0.00000057	2.85E-08	0.00000024	0.00000024	0.00000019	0.00000019	0.0000076	0.0000076	< 0.00000016	0.00000008
OCDD	0.0000044	4.4E-10	0.0018	0.00000018	0.00015	0.000000015	0.000016	1.6E-09	0.00047	0.00000047	0.0000044	4.4E-10
OCDF	< 0.0000015	7.5E-11	0.000087	8.7E-09	0.00012	0.000000012	0.0000016	1.6E-10	0.000036	3.6E-09	< 0.0000016	8E-11
TEQ-Mammal (1)		9.38E-07		2.65E-04		1.13E-05		1.22E-06		9.35E-05		1.00E-06

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.

Bolded and Shaded values indicate the TEQ-Mammal is greater than the sediment screening value standard.

< - Compound was not detected and half the detection limit was used to calculate the TEQ.

Table 4.9  
 Calculation of Dioxin Toxic Equivalents (TEQ) for Sediment Samples  
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chemical_name	SED16		SED17		SED18		SED19		SED20	
	SED1601 6/22/2006	Sample*TEF	SED1701 6/22/2006	Sample*TEF	SED1801 6/22/2006	Sample*TEF	SED1901 6/22/2006	Sample*TEF	SED2001 6/22/2006	Sample*TEF
	0-1		0_5-1		0-1		0-1		0_5-1	
1,2,3,4,6,7,8-HpCDD	0.00048	0.0000048	0.000021	0.0000021	0.00064	0.0000064	0.00027	0.0000027	0.00009	0.0000009
1,2,3,4,6,7,8-HpCDF	0.00057	0.0000057	0.000035	0.00000035	0.001	0.00001	0.00051	0.0000051	0.0002	0.000002
1,2,3,4,7,8,9-HpCDF	0.000092	0.00000092	0.0000065	0.000000065	0.00017	0.0000017	0.00011	0.0000011	0.000041	0.00000041
1,2,3,4,7,8-HxCDD	0.000041	0.0000041	0.0000022	0.00000022	0.000074	0.0000074	0.000051	0.0000051	0.000015	0.0000015
1,2,3,4,7,8-HxCDF	0.00033	0.000033	0.000017	0.0000017	0.00067	0.000067	0.00039	0.000039	0.00014	0.000014
1,2,3,6,7,8-HxCDD	0.00012	0.000012	0.0000057	0.00000057	0.00019	0.000019	0.00012	0.000012	0.000035	0.0000035
1,2,3,6,7,8-HxCDF	0.00057	0.000057	0.00003	0.000003	0.0013	0.00013	0.00062	0.000062	0.00014	0.000014
1,2,3,7,8,9-HxCDD	0.000056	0.0000056	0.0000033	0.00000033	0.000097	0.0000097	0.000059	0.0000059	0.000016	0.0000016
1,2,3,7,8,9-HxCDF	0.00019	0.000019	0.000013	0.0000013	0.00039	0.000039	0.00025	0.000025	0.000052	0.0000052
1,2,3,7,8-PeCDD	0.000056	0.0000056	0.0000033	0.00000033	0.000098	0.0000098	0.000069	0.0000069	0.00003	0.000003
1,2,3,7,8-PeCDF	< 0.0000034	0.000000085	0.0000081	0.000000405	< 0.0000032	0.00000008	< 0.0000027	6.75E-08	< 0.0000012	0.00000003
2,3,4,6,7,8-HxCDF	0.0004	0.00004	0.000075	0.0000075	0.00091	0.000091	0.00054	0.000054	0.00012	0.000012
2,3,4,7,8-PeCDF	0.0028	0.0014	0.00019	0.000095	0.0062	0.0031	0.0035	0.00175	0.00014	0.00007
2,3,7,8-TCDD	0.000016	0.000016	0.0000011	0.0000011	0.00003	0.00003	0.000021	0.000021	0.0000073	0.0000073
2,3,7,8-TCDF	0.000082	0.0000082	< 0.00000014	0.000000007	0.00012	0.000012	0.000058	0.0000058	0.0000093	0.00000093
OCDD	0.0023	0.0000023	0.00007	0.00000007	0.0027	0.0000027	0.00093	0.00000093	0.00024	0.00000024
OCDF	0.00025	0.00000025	0.000008	8E-10	0.0003	0.0000003	0.0001	0.0000001	0.000082	8.2E-09
<b>TEQ-Mammal (1)</b>		<b>1.66E-03</b>		<b>1.15E-04</b>		<b>3.62E-03</b>		<b>2.06E-03</b>		<b>1.63E-04</b>

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.  
 Bolded and Shaded values indicate the TEQ-Mammal is greater than the sediment screening value standard.  
 < - Compound was not detected and half the detection limit was used to calculate the TEQ.

**Table 4.9**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Sediment Samples**  
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**Former Gorham Manufacturing Site**  
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**Providence, Rhode Island**

chemical_name	SED21		SED22		SED23		SED24		SED25		SED26	
	SED2101 6/22/2006 0-1	Sample*TEF	SED2201 6/22/2006 0-1	Sample*TEF	SED2301 6/22/2006 0-1	Sample*TEF	SED2401 6/22/2006 0-1	Sample*TEF	SED2501 6/22/2006 0-1	Sample*TEF	SED2601 6/22/2006 0-1	Sample*TEF
1,2,3,4,6,7,8-HpCDD	0.0000045	0.00000045	0.00011	0.0000011	< 0.0000068	3.4E-09	0.000029	0.0000029	0.00032	0.0000032	0.00002	0.0000002
1,2,3,4,6,7,8-HpCDF	0.0000065	0.00000065	0.00016	0.0000016	< 0.0000068	3.4E-09	0.000029	0.0000029	0.00044	0.0000044	0.0000059	0.00000059
1,2,3,4,7,8,9-HpCDF	0.0000012	0.00000012	0.000025	0.00000025	< 0.0000068	3.4E-09	0.0000045	0.00000045	0.000079	0.00000079	< 0.0000014	0.00000007
1,2,3,4,7,8-HxCDD	< 0.00000084	0.000000042	< 0.000018	0.0000009	< 0.0000068	0.000000034	0.0000013	0.00000013	0.00003	0.0000003	< 0.0000014	0.00000007
1,2,3,4,7,8-HxCDF	0.0000034	0.00000034	0.000068	0.0000068	< 0.0000068	0.000000034	0.000012	0.0000012	0.00031	0.0000031	0.0000024	0.00000024
1,2,3,6,7,8-HxCDD	0.0000013	0.00000013	0.000028	0.0000028	< 0.0000068	0.000000034	0.0000054	0.00000054	0.000083	0.0000083	0.0000036	0.00000036
1,2,3,6,7,8-HxCDF	0.0000073	0.00000073	0.00016	0.000016	< 0.0000068	0.000000034	0.000016	0.0000016	0.00038	0.0000038	< 0.0000014	0.00000007
1,2,3,7,8,9-HxCDD	< 0.00000084	0.000000042	< 0.000018	0.0000009	< 0.0000068	0.000000034	0.0000028	0.00000028	0.000038	0.0000038	0.0000017	0.00000017
1,2,3,7,8,9-HxCDF	0.0000024	0.00000024	0.000062	0.0000062	< 0.0000068	0.000000034	0.000007	0.0000007	0.00018	0.0000018	< 0.0000014	0.00000007
1,2,3,7,8-PeCDD	0.0000095	0.00000095	0.00018	0.000018	< 0.0000068	0.000000034	0.0000024	0.00000024	0.000063	0.0000063	< 0.0000014	0.00000007
1,2,3,7,8-PeCDF	0.0000023	0.000000115	0.000041	0.00000205	< 0.0000068	0.000000017	0.0000055	0.000000275	< 0.0000049	1.225E-07	< 0.0000014	0.000000035
2,3,4,6,7,8-HxCDF	0.000016	0.0000016	0.00015	0.000015	< 0.0000068	0.000000034	0.000012	0.0000012	0.00031	0.0000031	< 0.0000014	0.00000007
2,3,4,7,8-PeCDF	0.000044	0.0000022	0.0013	0.00065	< 0.0000068	0.00000017	0.000095	0.00000475	0.0022	0.0011	0.0000017	0.00000085
2,3,7,8-TCDD	< 0.00000017	0.000000085	0.000068	0.0000068	< 0.0000014	0.00000007	0.0000072	0.00000072	0.000018	0.0000018	< 0.00000028	0.000000014
2,3,7,8-TCDF	< 0.00000017	8.5E-09	0.000027	0.0000027	< 0.0000014	0.00000007	< 0.00000026	0.000000013	0.000053	0.0000053	0.0000016	0.00000016
OCDD	0.000025	2.5E-09	0.0005	0.00000005	0.0000035	3.5E-10	0.00017	0.000000017	0.0019	0.00000019	0.000043	4.3E-09
OCDF	0.0000022	2.2E-10	0.000044	4.4E-09	< 0.0000014	7E-11	0.000017	1.7E-09	0.00017	0.000000017	0.0000062	6.2E-10
<b>TEQ-Mammal (1)</b>		<b>2.64E-05</b>		<b>7.31E-04</b>		<b>8.53E-07</b>		<b>5.72E-05</b>		<b>1.33E-03</b>		<b>3.21E-06</b>

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results.  
**Bolded and Shaded values indicate the TEQ-Mammal is greater than the sediment screening value standard.**  
 < - Compound was not detected and half the detection limit was used to calculate the TEQ.

**Table 4.9**  
**Calculation of Dioxin Toxic Equivalents (TEQ) for Sediment Samples**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

chemical_name	SED27 SED2701 6/22/2006		SED28 SED2801 6/21/2006		SED29 SED2901 6/21/2006		SED30 SED3001 6/21/2006		SED31 SED3101 6/21/2006		SED32 SED3201 6/21/2006	
	0-1	Sample*TEF	0_5-1	Sample*TEF	0_5-1	Sample*TEF	0_5-1	Sample*TEF	0_5-1	Sample*TEF	0_5-1	Sample*TEF
1,2,3,4,6,7,8-HpCDD	0.00018	0.0000018	0.00049	0.0000049	0.00018	0.0000018	0.000066	0.00000066	0.00043	0.0000043	0.000074	0.00000074
1,2,3,4,6,7,8-HpCDF	0.00023	0.0000023	0.00064	0.0000064	0.00035	0.0000035	0.000036	0.00000036	0.00071	0.0000071	0.00004	0.0000004
1,2,3,4,7,8,9-HpCDF	0.000036	0.00000036	0.000099	0.00000099	0.000069	0.00000069	0.0000061	0.000000061	0.00017	0.0000017	0.0000051	0.000000051
1,2,3,4,7,8-HxCDD	< 0.000021	0.000000105	0.000039	0.00000039	0.000018	0.00000018	0.0000034	0.000000034	0.000055	0.00000055	0.0000018	0.000000018
1,2,3,4,7,8-HxCDF	0.00013	0.0000013	0.0003	0.000003	0.00021	0.0000021	0.000018	0.00000018	0.00032	0.0000032	0.000011	0.00000011
1,2,3,6,7,8-HxCDD	0.000037	0.00000037	0.00011	0.0000011	0.00007	0.0000007	0.000012	0.00000012	0.00015	0.00000015	0.0000048	0.000000048
1,2,3,6,7,8-HxCDF	0.00015	0.0000015	0.00052	0.0000052	0.00029	0.0000029	0.000014	0.00000014	0.00075	0.0000075	0.000012	0.00000012
1,2,3,7,8,9-HxCDD	0.000022	0.00000022	0.000068	0.00000068	0.000031	0.00000031	0.0000072	0.000000072	0.000078	0.00000078	0.0000028	0.000000028
1,2,3,7,8,9-HxCDF	0.000075	0.00000075	0.0002	0.000002	0.00014	0.0000014	0.0000096	0.000000096	0.00042	0.0000042	0.0000053	0.000000053
1,2,3,7,8-PeCDD	0.000029	0.00000029	0.000076	0.00000076	0.000041	0.00000041	0.0000052	0.000000052	0.00012	0.00000012	0.0000022	0.000000022
1,2,3,7,8-PeCDF	0.000035	0.000000175	< 0.000018	0.000000045	< 0.0000018	0.000000045	< 0.0000007	1.75E-08	0.00023	0.00000115	< 0.00000073	1.825E-08
2,3,4,6,7,8-HxCDF	0.00018	0.0000018	0.00042	0.0000042	0.00023	0.0000023	0.000013	0.00000013	0.00064	0.0000064	0.000012	0.00000012
2,3,4,7,8-PeCDF	0.00091	0.000455	0.0031	0.00155	0.0016	0.00008	0.000076	0.000038	0.0016	0.0008	0.000028	0.0000014
2,3,7,8-TCDD	0.0000081	0.00000081	0.000022	0.00000022	0.000012	0.00000012	0.00000062	0.000000062	0.000033	0.00000033	0.00000052	0.000000052
2,3,7,8-TCDF	< 0.0000042	0.000000021	0.000084	0.00000084	0.000032	0.00000032	0.0000047	0.000000047	0.000076	0.00000076	0.000006	0.00000006
OCDD	0.00083	0.000000083	0.0029	0.00000029	0.00084	0.000000084	0.00054	0.000000054	0.0016	0.00000016	0.00081	0.000000081
OCDF	0.00013	0.000000013	0.00021	0.000000021	0.00017	0.000000017	0.000037	3.7E-09	0.00019	0.000000019	0.00008	0.000000008
<b>TEQ-Mammal (1)</b>		<b>5.59E-04</b>		<b>1.84E-03</b>		<b>2.41E-04</b>		<b>5.32E-05</b>		<b>1.23E-03</b>		<b>2.36E-05</b>

(1) - TEQ-Mammal is calculated by multiplying each congener by its corresponding TEF then summing all of the results. Bolded and Shaded values indicate the TEQ-Mammal is greater than the sediment screening value standard.  
 < - Compound was not detected and half the detection limit was used to calculate the TEQ.

**Table 4.10**  
**Organic Carbon Content of Sediments in Mashapaug Cove**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Sample ID	Sample Date	Location	Parameter	Percent	Units
SED1001	6/22/2006	Outer Cove	Total Organic Carbon	0.078	%
SED1101	6/22/2006	Outer Cove	Total Organic Carbon	6.5	%
SED1201	6/22/2006	Outer Cove	Total Organic Carbon	0.23	%
SED1301	6/22/2006	Outer Cove	Total Organic Carbon	0.27	%
SED1401	6/22/2006	Outer Cove	Total Organic Carbon	3.1	%
SED1501	6/22/2006	Inner Cove	Total Organic Carbon	0.7	%
SED1601	6/22/2006	Inner Cove	Total Organic Carbon	7.3	%
SED1701	6/22/2006	Inner Cove	Total Organic Carbon	0.58	%
SED1801	6/22/2006	Inner Cove	Total Organic Carbon	11.5	%
SED1901	6/22/2006	Inner Cove	Total Organic Carbon	6.96	%
SED2001	6/22/2006	Inner Cove	Total Organic Carbon	2.6	%
SED2101	6/22/2006	Inner Cove	Total Organic Carbon	0.53	%
SED2201	6/22/2006	Inner Cove	Total Organic Carbon	2.4	%
SED2301	6/22/2006	Inner Cove	Total Organic Carbon	0.28	%
SED2401	6/22/2006	Inner Cove	Total Organic Carbon	2.3	%
SED2501	6/22/2006	Inner Cove	Total Organic Carbon	4.61	%
SED2601	6/22/2006	Inner Cove	Total Organic Carbon	2.96	%
SED2701	6/22/2006	Inner Cove	Total Organic Carbon	4.6	%
SED2801	6/21/2006	Inner Cove	Total Organic Carbon	4.1	%
SED2901	6/21/2006	Inner Cove	Total Organic Carbon	4.5	%
SED3001	6/21/2006	Inner Cove	Total Organic Carbon	0.67	%
SED3101	6/21/2006	Inner Cove	Total Organic Carbon	4.6	%
SED3201	6/21/2006	Inner Cove	Total Organic Carbon	0.7	%



**Table 5.1**  
**Risk Assessment Summary - Reasonable Maximum Exposure**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Exposure Scenario	Receptor	Exposure Point	Exposure Route	Excess Lifetime Cancer Risk	Hazard Index	
<b>Current/Future - Inner Cove</b>						
Trespasser	Older Child (ages 7 through 18)	Sediment	Incidental ingestion	2E-05	0.1	
			Dermal contact	5E-07	0.003	
		Surface water	Incidental ingestion	1E-07	0.001	
			Dermal contact	3E-07	0.004	
		<b>Total Risk:</b>			<b>2E-05</b>	<b>0.2</b>
Trespasser	Adult (ages 19 and above)	Sediment	Incidental ingestion	1E-05	0.09	
			Dermal contact	4E-07	0.003	
		Surface water	Incidental ingestion	7E-08	0.0009	
			Dermal contact	3E-07	0.003	
		<b>Total Risk:</b>			<b>1E-05</b>	<b>0.1</b>
		<b>Total Receptor Risk:</b>			<b>3E-05</b>	<b>NC</b>
Commercial/Industrial Worker	Adult (ages 19 and above)	Sediment	Incidental ingestion	4E-06	0.02	
			Dermal contact	8E-08	0.0003	
		Surface water	Incidental ingestion	4E-08	0.0002	
			Dermal contact	8E-08	0.0005	
		<b>Total Risk:</b>			<b>4E-06</b>	<b>0.02</b>
		<b>Total Receptor Risk:</b>			<b>4E-06</b>	<b>NC</b>

**Table 5.1**  
**Risk Assessment Summary - Reasonable Maximum Exposure**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Exposure Scenario	Receptor	Exposure Point	Exposure Route	Excess Lifetime Cancer Risk	Hazard Index	
<b>Current/Future - Pond (Outer Cove)</b>						
Trespasser	Older Child (ages 7 through 18)	Sediment	Incidental ingestion	1E-06	0.01	
			Dermal contact	2E-07	0.001	
		Surface water	Incidental ingestion	7E-08	0.002	
			Dermal contact	2E-07	0.005	
		<b>Total Risk:</b>			<b>2E-06</b>	<b>0.02</b>
		Trespasser	Adult (ages 19 and above)	Sediment	Incidental ingestion	9E-07
Dermal contact	2E-07				0.001	
Surface water	Incidental ingestion			4E-08	0.001	
	Dermal contact			2E-07	0.004	
<b>Total Risk:</b>				<b>1E-06</b>	<b>0.02</b>	
<b>Total Receptor Risk:</b>				<b>3E-06</b>	<b>NC</b>	
Commercial/Industrial Worker	Adult (ages 19 and above)	Sediment	Incidental ingestion	3E-07	0.001	
			Dermal contact	4E-08	0.00009	
		Surface water	Incidental ingestion	2E-08	0.0003	
			Dermal contact	6E-08	0.001	
		<b>Total Risk:</b>			<b>4E-07</b>	<b>0.003</b>
		<b>Total Receptor Risk:</b>			<b>4E-07</b>	<b>NC</b>

Risk calculations are presented in Appendix H.

NC = Not calculated because Hazard Index is not summed across age groups.

**Table 5.2**  
**Risk Assessment Summary - Central Tendency**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Exposure Scenario	Receptor	Exposure Point	Exposure Route	Excess Lifetime Cancer Risk	Hazard Index	
<b>Current/Future - Inner Cove</b>						
Trespasser	Older Child (ages 7 through 18)	Sediment	Incidental ingestion	1E-06	0.04	
			Dermal contact	4E-08	0.001	
		Surface water	Incidental ingestion	2E-08	0.001	
			Dermal contact	5E-08	0.003	
		<b>Total Risk:</b>			<b>1E-06</b>	<b>0.04</b>
		<hr/>				
Trespasser	Adult (ages 19 and above)	Sediment	Incidental ingestion	1E-06	0.03	
			Dermal contact	5E-08	0.001	
		Surface water	Incidental ingestion	2E-08	0.0005	
			Dermal contact	6E-08	0.002	
		<b>Total Risk:</b>			<b>1E-06</b>	<b>0.03</b>
		<b>Total Receptor Risk:</b>			<b>2E-06</b>	<b>NC</b>
<hr/>						
Commercial/Industrial Worker	Adult (ages 19 and above)	Sediment	Incidental ingestion	4E-07	0.003	
			Dermal contact	1E-08	0.00008	
		Surface water	Incidental ingestion	8E-09	0.00004	
			Dermal contact	6E-08	0.0004	
		<b>Total Risk:</b>			<b>5E-07</b>	<b>0.004</b>
		<b>Total Receptor Risk:</b>			<b>5E-07</b>	<b>NC</b>

**Table 5.2**  
**Risk Assessment Summary - Central Tendency**  
**Supplemental Site Investigation Report**  
**Former Gorham Manufacturing Site**  
**333 Adelaide Avenue**  
**Providence, Rhode Island**

Exposure Scenario	Receptor	Exposure Point	Exposure Route	Excess Lifetime Cancer Risk	Hazard Index	
<b>Current/Future - Outer Cove</b>						
Trespasser	Older Child (ages 7 through 18)	Sediment	Incidental ingestion	9E-08	0.004	
			Dermal contact	1E-08	0.0004	
		Surface water	Incidental ingestion	9E-09	0.0007	
			Dermal contact	4E-08	0.002	
		<b>Total Risk:</b>			<b>2E-07</b>	<b>0.007</b>
		Trespasser	Adult (ages 19 and above)	Sediment	Incidental ingestion	8E-08
Dermal contact	2E-08				0.0003	
Surface water	Incidental ingestion			8E-09	0.0004	
	Dermal contact			5E-08	0.002	
<b>Total Risk:</b>				<b>1E-07</b>	<b>0.005</b>	
<b>Total Receptor Risk:</b>				<b>3E-07</b>	<b>NC</b>	
Commercial/Industrial Worker	Adult (ages 19 and above)	Sediment	Incidental ingestion	3E-08	0.0003	
			Dermal contact	3E-09	0.00002	
		Surface water	Incidental ingestion	4E-09	0.0001	
			Dermal contact	1E-08	0.0002	
		<b>Total Risk:</b>			<b>5E-08</b>	<b>0.0006</b>
		<b>Total Receptor Risk:</b>			<b>5E-08</b>	<b>NC</b>

Risk calculations are presented in Appendix H.

NC = Not calculated because Hazard Index is not summed across age groups.