

Table 1
 Summary of Sediment Dioxin-Furan Analytical Results
 Former Raytheon Facility
 Wayland, Massachusetts

Parameter	Sample I.D. Date Sampled Comments	SS-21 12-Aug-02	Flags	SS-22 12-Aug-02	Flags	SS-22 DUP	SS-22 12-Aug-02	Flags	SS-23 12-Aug-02	Flags	SS-24 12-Aug-02	Flags	SS-25 12-Aug-02	Flags	SS-26 12-Aug-02	Flags
Polychlorinated dibenzo-p-dioxins (PCDDs) (pg/g)																
2,3,7,8-TCDD	8.28			0.20	je	0.06	u	0.55	u	0.40	je	1.13	j	3.08		
1,2,3,7,8-PeCDD	32.1			0.93	j	0.82	je	0.84	j	1.41	j	3.92	j	9.97		
1,2,3,4,7,8-HxCDD	40.4			1.72	j	1.36	j	1.8	j	1.86	j	4.84	j	12.6		
1,2,3,6,7,8-HxCDD	252			6.66		6.15		7.61		10.3		24.8		69.4		
1,2,3,7,8,9-HxCDD	145			6.49	j	5.66	j	6.74		6.95		17.2		43.9		
1,2,3,4,6,7,8-HpCDD	5100		d	225		164		207		225		427		1620	d	
OCDD	55200		d	1920		1380		1790	d	2130	d	4110	d	16400	d	
Polychlorinated dibenzo-p-dibenzofurans (PCDFs) (pg/g)																
2,3,7,8-TCDF	49.1			1.56	j	1.58	j	2.33		2.96		10.2		17.3		
1,2,3,7,8-PeCDF	17.9			0.85	j	0.92	j	1.07	j	1.37	j	4.38	j	7.53		
2,3,4,7,8-PeCDF	49.5			1.54	j	1.67	j	2.18	j	3.32	j	10.2		18.8		
1,2,3,4,7,8-HxCDF	130			3.17	j	3.59	j	5.23	j	11.1	j	27.8		50.6		
1,2,3,6,7,8-HxCDF	54.5			1.30	j	1.49	j	1.98	j	3.28	j	11.1		25.1		
1,2,3,7,8,9-HxCDF	1.88			0.30	j	0.32	j	0.41	j	0.24	j	0.49	j	1.25	j	
2,3,4,6,7,8-HxCDF	40.8			1.21	j	1.26	j	1.96	je	2.60	j	8.37		17.8		
1,2,3,4,6,7,8-HpCDF	1270		d	21.2		24.9		35.4		60.3		178		451		
1,2,3,4,7,8,9-HpCDF	98.2			1.56	j	1.56	j	2.19	j	4.86		11.6		43.6		
OCDF	2820		d	40.2		46.0		66.2		130		296		1030		

Notes:
 - = Analytical result below the method detection limit.
 NA = Not Analyzed
 NS = No Standard
 Pg/g = picograms per gram (dry weight basis)

FLAGS
 u not detected, value shown is one-half of DL
 j concentration less than LMCL
 e EMPC = peak did not meet confirmation criteria
 d result reported from a dilution of the original extract
 - data not flagged

Table 2
Summary of March 2003 Sediment Sampling Methods
Former Raytheon Facility
Wayland, Massachusetts

<i>Location</i>	<i>Sampling Method</i>	<i>Recovery</i>
WS-1	GeoProbe	34"
WS-2	GeoProbe	30"
WS-3	Hand Auger	12"
WS-4	GeoProbe	48"
WS-5	GeoProbe	23"
WS-6	GeoProbe	32"
WS-7	GeoProbe	37"
WS-8	Hand Auger	12"
DUP-2	Hand Auger	12"
WS-9	GeoProbe	36"
WS-10	GeoProbe	33"
WS-11	GeoProbe	48"
WS-12	GeoProbe	36"
WS-13	GeoProbe	48"
WS-14	GeoProbe	48"
WS-15	GeoProbe	20"
WS-16	GeoProbe	48"
WS-17	GeoProbe	48"
WS-18	GeoProbe	17"
WS-19	GeoProbe	27"
WS-20	GeoProbe	40"
WS-21	GeoProbe	34"
WS-22	GeoProbe	39"
WS-23	GeoProbe	48"
WS-23	Hand Auger	12"
DUP-1	Hand Auger	12"
WS-24	GeoProbe	48"
WS-25	Hand Auger	24"
WS-26	GeoProbe	48"
WS-27	GeoProbe	28"
WS-28	Hand Auger	24"
WS-29	GeoProbe	48"
WS-30	Hand Auger	24"
WS-31	GeoProbe	20"
WS-32	GeoProbe	22"
WS-33	Hand Auger	12"
WS-34	Hand Auger	12"
WS-35	Hand Auger	12"
WS-36	GeoProbe	16"

Table 3
March 2003 Sediment Sampling Log
Former Raytheon Facility
Wayland, Massachusetts

Location	Depth	Dioxin	TOC	PCBs	PAHs	Metals
WS-1	(6-12")	X	X			
WS-2	(6-15")	X	X	X		
WS-2	(18-24")	X	X			
WS-3	(6-12")	X	X	X		
WS-3	(18-24")	X	X			
WS-4	(6-18")	X	X	X		
WS-4	(18-24")	X	X			
WS-5	(6-18")	X	X	X	X	X
WS-5	(18-24")	X	X			
WS-6	(6-12")	X	X			
WS-7	(6-15")	X	X	X		
WS-7	(18-24")	X	X			
WS-8	(6-12")	X	X	X		
DUP-2	(6-12")	X	X	X		
WS-9	(6-12")	X	X			
WS-10	(6-12")	X	X			
WS-10	(18-24")	X	X			
WS-11	(18-24")	X	X			
WS-12	(6-12")	X	X			
WS-12	(18-24")	X	X			
WS-13	(6-18")	X	X	X	X	X
WS-14	(6-12")	X	X			
WS-15	(6-12")	X	X			
WS-16	(6-15")	X	X	X		
WS-17	(6-12")	X	X			
WS-18	(6-12")	X	X			
WS-19	(6-18")	X	X	X	X	X
WS-20	(6-12")	X	X			
WS-21	(6-12")	X	X			
WS-22	(6-12")	X	X			
WS-22	(18-24")	X	X			
WS-23	(6-12")	X	X			
WS-23	(6-12")	X	X	X	X	X
DUP-1	(6-12")	X	X	X	X	X
WS-24	(6-18")	X	X	X	X	X
WS-25	(0-24")	X	X			
WS-26	(6-12")	X	X			
WS-27	(6-12")	X	X			
WS-28	(0-24")	X	X			
WS-29	(0-24")	X	X			
WS-30	(0-24")	X	X	X		
WS-31	(6-12")	X	X			
WS-32	(6-12")	X	X			
WS-33	(6-12")	X	X			
WS-34	(6-12")	X	X			
WS-35	(6-12")	X	X			
WS-36	(6-16")	X	X	X	X	X
Equipment Blank -1		X	X		X	X
Equipment Blank -1		X	X		X	X

Table 4
Summary of Sediment Analytical Results - Metals, PCBs, PAHs
Former Raytheon Facility
Wayland, Massachusetts

	Sample I.D. Depth Date Sampled Comments	WS-1 (6-12') 5-Mar-03	WS-2 (6-15') 5-Mar-03	WS-2 (18-24') 5-Mar-03	WS-3 (6-12') 20-Mar-03	WS-4 (6-18') 5-Mar-03	WS-4 (18-24') 5-Mar-03	WS-5 (6-18') 5-Mar-03	WS-5 (18-24') 5-Mar-03	WS-6 (6-12') 5-Mar-03	WS-7 (6-15') 5-Mar-03	WS-7 (18-24') 5-Mar-03	WS-8 (6-12') 20-Mar-03 DUF-2	WS-8 (6-12') 5-Mar-03	WS-9 (6-12') 5-Mar-03	WS-10 (6-12') 5-Mar-03	WS-10 (18-24') 5-Mar-03
Total Metals (mg/kg)		NA	NA	NA	NA	NA	NA	7000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum								-									
Antimony								9.5									
Arsenic								26									
Barium								0.32									
Beryllium								0.14									
Cadmium								850									
Calcium								21									
Chromium								-									
Chromium, Hexavalent								2.2									
Cobalt								13									
Copper								5900									
Iron								840									
Lead								12									
Magnesium								73									
Manganese								0.04									
Mercury								4.7									
Nickel								150									
Potassium								-									
Selenium								0.29									
Silver								82									
Sodium								-									
Thallium								11									
Vanadium								8.2									
Zinc								-									
Polyaromatic Hydrocarbons (ug/kg) (EPA Method 8270 M)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene																	
Fluoranthene																	
Benzo(a)anthracene																	
Benzo(a)pyrene																	
Benzo(b)fluoranthene																	
Benzo(k)fluoranthene																	
Chrysene																	
Anthracene																	
Benzo(ghi)perylene																	
Fluorene																	
Phenanthrene																	
Dibenz(a,h)anthracene																	
Indeno(1,2,3-cd)pyrene																	
Pyrene								31									
Perylene								-									
Benzo(e)pyrene								-									
Polychlorinated Biphenyls (ug/kg) (EPA Method 8082)		NA	-	NA	-	-	NA	-	NA	NA	-	NA	-	NA	NA	NA	NA
Aroclor 1254																	
Aroclor 1260								37.3									
Total PCBs								37.3									
Total Organic Carbon(%)		0.135	0.534	9.83	1.02	0.872	6.31	1.66	0.158	5.38	1.98	2.42	9.03	11.7	12.4	13.5	9.14

Notes:
 NA = Not Analyzed
 - = Analytical result below the method detection limit.
 mg/kg = milligram per kilogram (parts per million (ppm)).
 ug/kg = micrograms per kilogram (parts per billion (ppb)).

Table 4
 Summary of Sediment Analytical Results - Metals, PCBs, PAHs
 Former Raytheon Facility
 Wayland, Massachusetts

	Sample ID, Depth Date Sampled Comments	WS-11 (18-24*) 5-Mar-03	WS-12 (6-12*) 5-Mar-03	WS-12 (18-24*) 5-Mar-03	WS-13 (6-18*) 5-Mar-03	WS-14 (6-12*) 5-Mar-03	WS-15 (6-12*) 5-Mar-03	WS-16 (6-15*) 5-Mar-03	WS-17 (6-12*) 5-Mar-03	WS-18 (6-12*) 5-Mar-03	WS-19 (6-18*) 5-Mar-03	WS-20 (6-12*) 5-Mar-03	WS-21 (6-12*) 5-Mar-03	WS-22 (6-12*) 5-Mar-03	WS-22 (18-24*) 5-Mar-03	WS-23 (6-12*) 20-Mar-03	WS-23 (6-12*) 20-Mar-03	WS-23 (6-12*) 20-Mar-03 DUP-1
Total Metals (mg/kg)																		
Aluminum		NA	NA	NA	7300	NA	NA	NA	NA	NA	8100	NA	NA	NA	NA	8900	8900	8800
Antimony					-						-					-	-	-
Arsenic					14						5.6					11	11	9.7
Barium					21						18					41	41	41
Beryllium					0.7						0.92					1.1	1.1	1.1
Cadmium					0.41						0.52					2.2	2.2	2.2
Calcium					2100						640					2800	2800	2600
Chromium					16						13					110	110	100
Chromium, Hexavalent					-						-					-	-	-
Cobalt					0.93						2					2.6	2.6	2.6
Copper					18						21					170	170	160
Iron					2500						4700					4500	4500	4100
Lead					7.5						11					38	38	38
Magnesium					410						840					410	410	400
Manganese					57						44					81	81	79
Mercury					0.07						0.03					-	-	-
Nickel					3.6						96					11	11	11
Potassium					75						96					-	-	-
Selenium					-						-					-	-	-
Silver					-						0.15					4.1	4.1	3.8
Sodium					180						110					310	310	290
Thallium					18						12					19	19	18
Vanadium					3.4						31					94	94	100
Zinc					-						-					-	-	-
Polyaromatic Hydrocarbons (ug/kg) (EPA Method 8270 M)																		
Acenaphthene		NA	NA	NA	-	NA	NA	NA	NA	NA	-	NA	NA	NA	NA	99	1800	-
Fluoranthene					100						-					870	870	64
Benz(a)anthracene					-						-					760	760	-
Benz(a)pyrene					180						-					1000	1000	-
Benz(b)fluoranthene					67						-					440	440	-
Benz(k)fluoranthene					87						-					960	960	-
Chrysene					-						-					320	320	-
Anthracene					100						-					480	480	-
Benz(ghi)perylene					-						-					110	110	-
Fluorene					-						-					1400	1400	-
Phenanthrene					-						-					140	140	-
Dibenz(a,h)anthracene					95						-					540	540	-
Indeno(1,2,3-cd)Pyrene					100						-					1600	1600	-
Pyrene					-						-					170	170	-
Perylene					-						-					520	520	-
Benz(e)pyrene					110						-					-	-	-
Polychlorinated Biphenyls (ug/kg) (EPA Method 8082)																		
Aroclor 1254		NA	NA	NA	-	NA	NA	NA	NA	NA	-	NA	NA	NA	NA	-	-	-
Aroclor 1260					-						-					-	-	-
Total PCBs					-						-					-	-	-
Total Organic Carbon (%)																		
		0.087	10.6	3.47	5.32	3.87	11.7	9.81	5.76	0.395	2.27	0.325	10.8	6.41	8.82	10.9	11.2	11.2

Notes:
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 mg/kg = milligram per kilogram (parts per million)
 ug/kg = micrograms per kilogram (parts per billion (ppbb)).

Table 4
Summary of Sediment Analytical Results - Metals, PCBs, PAHs
Former Raytheon Facility
Wayland, Massachusetts

	Sample I.D. Depth Date Sampled Comments	WS-23 (6-12*) 5-Mar-03	WS-24 (6-18*) 5-Mar-03	WS-25 (0-24*) 5-Mar-03	WS-26 (6-12*) 5-Mar-03	WS-27 (6-12*) 5-Mar-03	WS-28 (0-24*) 5-Mar-03	WS-29 (0-24*) 5-Mar-03	WS-30 (0-24*) 5-Mar-03	WS-31 (6-12*) 5-Mar-03	WS-32 (6-12*) 5-Mar-03	WS-33 (6-12*) 3/20/2003	WS-34 (6-12*) 3/20/2003	WS-35 (6-12*) 3/20/2003
Total Metals (mg/kg)		NA	3300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum														
Antimony			2.7											
Arsenic			12											
Barium			-											
Beryllium			-											
Cadmium			330											
Calcium			5.3											
Chromium			-											
Chromium, Hexavalent			2.1											
Cobalt			3.9											
Copper			3600											
Iron			1.8											
Lead			840											
Magnesium			30											
Manganese			-											
Mercury			4.9											
Nickel			310											
Potassium			-											
Selenium			-											
Silver			-											
Sodium			5.5											
Thallium			7.3											
Zinc			-											
Polyaromatic Hydrocarbons (ug/kg) (EPA Method 8270 M)		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene														
Fluoranthene														
Benzo(a)anthracene														
Benzo(a)pyrene														
Benzo(b)fluoranthene														
Benzo(k)fluoranthene														
Chrysene														
Benzo(ghi)perylene														
Anthracene														
Fluorene														
Phenanthrene														
Dibenz(a,h)anthracene														
Indeno(1,2,3-cd)Pyrene														
Pyrene														
Perylene														
Benzo(e)Pyrene														
Polychlorinated Biphenyls (ug/kg) (EPA Method 8082)		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254														
Aroclor 1260														
Total PCBs														
Total Organic Carbon(%)		5.88	0.086	12.3	9.68	10.3	6.84	12.8	7.6	5.63	3.65	5.58	5.69	6.32

Notes:
 NA = Not Analyzed
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 mg/kg = milligram per kilogram (parts per million (ppm)).
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