APPENDIX B

RISK ASSESSMENT

Appendix B-1	**Human Health Risk Assessment RAGs D Tables**
Appendix B-2	**Sample Lists By Property**
Appendix B-3	**PCB, Copper, and Lead Screening/CLP Correlation**
Appendix B-4	**Dioxin and Furan Toxicity Equivalent Factors**
Appendix B-5	**Statistics And Exposure Point Concentrations**
Appendix B-6	**Sample Intake and Risk Calculations**
Appendix B-7	**Brief Summaries of Toxicological Profiles**
Appendix B-8	**Relative Order of Potency for PAHs**
Appendix B-9	**Alternative Calculation of Cancer Risks from Dioxin**
Appendix B-10	**Lead Evaluations**
Appendix B-11	**Summary Statistics**
Appendix B-12	**Summary of Risks and Hazards with and without FRW**

Appendix B-1

Human Health Risk Assessment RAGs D Tables

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Future	Soil	Lockwood Avenue Property	Recreational Visitor	Adult/Child	Ingestion	Quant	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
			Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
Current/Future	Soil	200 Ferry Blvd.	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		230 Ferry Blvd.	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		250 Ferry Blvd.	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		280 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		300 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		326 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Lot Behind 326 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Vacant Lot at Housatonic Ave.	Residents	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	Site is zoned for residential land-use. Future residents (adults and children) are expected to be exposed to soil through inadvertent contact. Site is zoned for residential land-use. Future residents (adults and children) are expected to be exposed to soil through inadvertent contact. Future residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		576 East Broadway	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		600 East Broadway	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Vacant DOT Lot abutting I-95	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Connecticut Right-of-Way	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Connecticut Right-of-Way-Residential Portion	Residents	Adult/Child	Ingestion	Quant	A portion of the property is an easement allowing access to a residential property. Residents (adults and children) are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	A portion of the property is an easement allowing access to a residential property. Residents (adults and children) are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		304 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		340 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		380 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		250 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		DPW Lot	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		251 East Main St..	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Beacon Point Area	Recreational Visitor	Adult/Child	Ingestion	Quant	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		1 Beacon Point Rd.	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Airport Property North of Marine Basin	Commercial Worker	Adult	Ingestion	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Commercial workers are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Wooster Park	Recreational Visitor	Adult/Child	Ingestion	Quant	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		Third Avenue Property	Residents	Adult/Child	Ingestion	Quant	The site is a residence. Residents (adults and children) are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	The site is a residence. Residents (adults and children) are expected to be exposed to soil through inadvertent contact.
					Inhalation	Qual	Residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	13		27		µg/kg	OU3-B2-SB03-0608-MAX	2/6	14 - 28	27		2700000 nc		NO	BSL
67-64-1	Acetone	62		88		µg/kg	RM-SD-DB10-03-MAX	2/6	18 - 280	88		600000 nc		NO	BSL
75-15-0	Carbon Disulfide	20		31		µg/kg	RM-SD-DB10-03-MAX	2/6	14 - 28	31		72000 nc	720000	NO	BSL
105-67-9	2,4-Dimethylphenol	130	J	4100		µg/kg	OU3-B2-SB09-0204	3/14	450 - 4000	4100		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	38		73	J	µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	73		19000 nc		NO	BSL
95-48-7	2-Methylphenol	680		680		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	680		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	35		1400		µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	1400		310000 nc		NO	BSL
83-32-9	Acenaphthene	110	J	410		µg/kg	OU3-B2-SB03-0608-MAX	4/14	450 - 4000	410		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	28	J	2700		µg/kg	RM-SD-DB10-03-MAX	12/14	630 - 630	2700		19000 nc		NO	BSL
120-12-7	Anthracene	33	J	1900		µg/kg	OU3-B2-SB09-0204	12/14	490 - 630	1900		10000000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	76	J	5800	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	5800		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	60	J	5200		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5200		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	94	J	5000		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	23	J	5300		µg/kg	OU3-B2-SB06-0204	8/14	600 - 1800	5300		2900000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	92	J	4600		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4600		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	48	J	10000	*	µg/kg	OU3-B2-SB09-0204	12/14	620 - 630	10000		120000 ca*		NO	BSL
86-74-8	Carbazole	30	J	450	J	µg/kg	OU3-B2-SB06-0204	10/14	490 - 630	450		86000 ca		NO	BSL
218-01-9	Chrysene	120	J	6900	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	6900		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	32	J	680		µg/kg	RM-SD-DB10-03-MAX	11/14	630 - 4000	680		210 ca		YES	ASL
132-64-9	Dibenzofuran	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		310000 nc		NO	BSL
84-66-2	Diethylphthalate	30		30		µg/kg	RM-SD-DB10-03-MAX	1/14	450 - 4000	30		10000000 nc		NO	BSL
131-11-3	Dimethylphthalate	2900		2900		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	2900		10000000 max		NO	BSL
84-74-2	Di-n-Butylphthalate	150		410		µg/kg	OU3-B2-SB03-0608-MAX	2/14	450 - 4000	410		6200000 nc		NO	BSL

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
117-84-0	Di-n-octylphthalate	120	J	120	J	µg/kg	OU3-B2-SB09-0406	1/14	450 - 4000	120		2500000 nc		NO	BSL
206-44-0	Fluoranthene	180	J	14000	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	14000		2200000 nc		NO	BSL
86-73-7	Fluorene	45	J	370		µg/kg	RM-SD-DB10-03-MAX	8/14	450 - 630	370		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	43	J	4500		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4500		2100 ca		YES	ASL
91-20-3	Naphthalene	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	410	J	410	J	µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	410		350000 ca		NO	BSL
87-86-5	Pentachlorophenol	200	J	200	J	µg/kg	OU3-B2-SB02-0406-MAX	1/14	1100 - 10000	200		9000 ca		NO	BSL
85-01-8	Phenanthrene	67	J	4900		µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	4900		10000000 nc		NO	BSL
108-95-2	Phenol	1200		1200		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	1200		10000000 nc		NO	BSL
129-00-0	Pyrene	170	J	8400		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	8400		2900000 nc		NO	BSL
TOTPAH	Total PAH	1186		36080		µg/kg	RM-SD-DB10-03-MAX	4/4	0 - 0	36080				NO	NTX
72-54-8	4,4'-DDD	22		130		µg/kg	OU3-B2-SB06-0204	3/15	3.3 - 430	130	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	0.18	J	9.4		µg/kg	RM-SD-DB10-03-MAX	4/15	5.4 - 430	9.4	16.7	7000 ca		NO	BSL
309-00-2	Aldrin	0.11	J	0.47	J	µg/kg	RM-SD-DB07-03	2/15	1.7 - 220	0.47	2.41	100 ca*	3000	NO	BSL
319-84-6	alpha-BHC	0.14	J	0.26		µg/kg	RM-SD-DB10-03-MAX	3/15	1.7 - 220	0.26	2.41	360 ca	700	NO	BSL
5103-71-9	alpha-Chlordane	0.56		1200		µg/kg	OU3-B2-SB02-0406-MAX	9/15	3.2 - 4.7	1200	4.88	6500 ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	324		96550		µg/kg	OU3-B2-SB02-0406-MAX	16/18	66 - 120	96550		1000 ca		YES	ASL
12672-29-6	Aroclor-1248	280		1400		µg/kg	OU3-B2-SB09-0204	2/18	33 - 4300	1400	46.1	740 ca		YES	ASL
11097-69-1	Aroclor-1254	250		77000	*	µg/kg	OU3-B2-SB02-0406-MAX	4/18	33 - 290	77000	46.1	740 ca**		YES	ASL
37324-23-5	Aroclor-1262	200	J	4400	*J	µg/kg	OU3-B2-SB09-0204	5/18	33 - 4400	4400	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	50	J	7200	*	µg/kg	OU3-B2-SB09-0204	14/18	54 - 4400	7200	46.1	1000 ca		YES	ASL
60-57-1	Dieldrin	2	J	2600	J	µg/kg	OU3-B2-SB02-0406-MAX	8/15	6.1 - 17	2600	13.1	110 ca	1000	YES	ASL
1031-07-8	Endosulfan Sulfate	16		16		µg/kg	OU3-B2-SB06-0204	1/15	3.3 - 430	16	4.69	370000 nc		NO	BSL

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7421-93-4	Endrin Aldehyde	13		49		µg/kg	OU3-B2-SB09-0204	2/15	3.3 - 430	49	4.56	18000 nc		NO	BSL
5103-74-2	gamma-Chlordane	0.67		17		µg/kg	RM-SD-DB03-03	5/15	2.8 - 220	17	2.67	6500 ca	72000	NO	BSL
1024-57-3	Heptachlor Epoxide	0.11	J	0.41	J	µg/kg	RM-SD-DB01-03	3/15	1.7 - 220	0.41	2.33	190 ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.0032	J	0.350845	J	µg/kg	RM-SD-DB01-03	9/9	0 - 0	0.350845		0.027 ca		YES	ASL
7429-90-5	Aluminum	7110		38900	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	38900	12900			NO	EPA-I
7440-36-0	Antimony	17.8	J	51.4		mg/kg	OU3-B2-SB05-0608	3/6	8.8 - 13.8	51.4	2.86	41 nc		YES	ASL
7440-38-2	Arsenic	2.6		56		mg/kg	OU3-B2-SB05-0608	14/15	0.82 - 0.82	56	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	14.8		3770	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	3770	57.5	6700 nc	710000	NO	BSL
7440-41-7	Beryllium	0.31		5.6		mg/kg	OU3-B2-SB05-0608	10/15	0.51 - 1.9	5.6	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.22		149		mg/kg	OU3-B2-SB05-0608	13/15	0.8 - 0.85	149	0.397	45 nc	1800	YES	ASL
7440-70-2	Calcium	1830	J	37000	J	mg/kg	OU3-B2-SB05-0608	10/15	1410 - 2420	37000	1600			NO	NUT
7440-47-3	Chromium	12.4	J	3270	J	mg/kg	OU3-B2-SB05-0608	14/15	146 - 146	3270	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	4.1		23.8		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	23.8	6.35			NO	EPA-I
7440-50-8	Copper	28.3	J	7870	J	mg/kg	OU3-B2-SB05-0608	32/50	300 - 300	7870	28.8			NO	EPA-I
7439-89-6	Iron	12900		68100	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	68100	16000			NO	EPA-I
7439-92-1	Lead	14	J	10600	J	mg/kg	OU3-B2-SB05-0608	45/57	100 - 100	10600	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	3160		31600		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	31600	3250			NO	NUT
7439-96-5	Manganese	122	J	722	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	722	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.11	J	2.3		mg/kg	RM-SD-DB10-03-MAX	11/15	0.06 - 0.14	2.3	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	7.5		457	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	457	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	1460		21700	J	mg/kg	OU3-B2-SB05-0608	11/15	2070 - 3430	21700	961			NO	NUT
7782-49-2	Selenium	1		1		mg/kg	OU3-B2-SB09-0406	1/15	0.64 - 5	1	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.39		2.9		mg/kg	OU3-B2-SB09-0204	7/15	0.75 - 2.2	2.9	0.508	510 nc		NO	BSL

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-23-5	Sodium	866		187000	*	mg/kg	OU3-B2-SB05-0608	13/15	214 - 790	187000	76.4			NO	NUT
7440-28-0	Thallium	2.2		8.4		mg/kg	OU3-B2-SB05-0608	2/15	0.91 - 8.4	8.4	0.368	6.7 nc		YES	ASL
7440-62-2	Vanadium	14.6		224		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	224	34.2	720 nc		NO	BSL
7440-66-6	Zinc	34.4	J	5930		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	5930	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	1		50		%	DBL-008, DBL-009	41/52	0.1 - 0.1	50		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	13		27		µg/kg	OU3-B2-SB03-0608-MAX	2/6	14 - 28	27		730000	nc		NO	BSL
67-64-1	Acetone	62		88		µg/kg	RM-SD-DB10-03-MAX	2/6	18 - 280	88		160000	nc		NO	BSL
75-15-0	Carbon Disulfide	20		31		µg/kg	RM-SD-DB10-03-MAX	2/6	14 - 28	31		36000	nc	720000	NO	BSL
105-67-9	2,4-Dimethylphenol	130	J	4100		µg/kg	OU3-B2-SB09-0204	3/14	450 - 4000	4100		120000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	38		73	J	µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	73		5600	nc		NO	BSL
95-48-7	2-Methylphenol	680		680		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	680		310000	nc		NO	BSL
106-44-5	4-Methylphenol	35		1400		µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	1400		31000	nc		NO	BSL
83-32-9	Acenaphthene	110	J	410		µg/kg	OU3-B2-SB03-0608-MAX	4/14	450 - 4000	410		370000	nc		NO	BSL
208-96-8	Acenaphthylene	28	J	2700		µg/kg	RM-SD-DB10-03-MAX	12/14	630 - 630	2700		5600	nc		NO	BSL
120-12-7	Anthracene	33	J	1900		µg/kg	OU3-B2-SB09-0204	12/14	490 - 630	1900		2200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	76	J	5800	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	5800		620	ca		YES	ASL
50-32-8	Benzo(a)pyrene	60	J	5200		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5200		62	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	94	J	5000		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5000		620	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	23	J	5300		µg/kg	OU3-B2-SB06-0204	8/14	600 - 1800	5300		230000	nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	92	J	4600		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4600		6200	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	48	J	10000	*	µg/kg	OU3-B2-SB09-0204	12/14	620 - 630	10000		35000	ca*		NO	BSL
86-74-8	Carbazole	30	J	450	J	µg/kg	OU3-B2-SB06-0204	10/14	490 - 630	450		24000	ca		NO	BSL
218-01-9	Chrysene	120	J	6900	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	6900		62000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	32	J	680		µg/kg	RM-SD-DB10-03-MAX	11/14	630 - 4000	680		62	ca		YES	ASL
132-64-9	Dibenzofuran	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		29000	nc		NO	BSL
84-66-2	Diethylphthalate	30		30		µg/kg	RM-SD-DB10-03-MAX	1/14	450 - 4000	30		4900000	nc		NO	BSL
131-11-3	Dimethylphthalate	2900		2900		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	2900		10000000	max		NO	BSL
84-74-2	Di-n-Butylphthalate	150		410		µg/kg	OU3-B2-SB03-0608-MAX	2/14	450 - 4000	410		610000	nc		NO	BSL
117-84-0	Di-n-octylphthalate	120	J	120	J	µg/kg	OU3-B2-SB09-0406	1/14	450 - 4000	120		240000	nc		NO	BSL
206-44-0	Fluoranthene	180	J	14000	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	14000		230000	nc		NO	BSL
86-73-7	Fluorene	45	J	370		µg/kg	RM-SD-DB10-03-MAX	8/14	450 - 630	370		270000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	43	J	4500		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4500		620	ca		YES	ASL
91-20-3	Naphthalene	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		5600	nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	410	J	410	J	µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	410		99000	ca		NO	BSL

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
87-86-5	Pentachlorophenol	200	J	200	J	µg/kg	OU3-B2-SB02-0406-MAX	1/14	1100 - 10000	200		3000	ca		NO	BSL
85-01-8	Phenanthrene	67	J	4900		µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	4900		2200000	nc		NO	BSL
108-95-2	Phenol	1200		1200		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	1200		3700000	nc		NO	BSL
129-00-0	Pyrene	170	J	8400		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	8400		230000	nc		NO	BSL
TOTPAH	Total PAH	1186		36080		µg/kg	RM-SD-DB10-03-MAX	4/4	0 - 0	36080					NO	NTX
72-54-8	4,4'-DDD	22		130		µg/kg	OU3-B2-SB06-0204	3/15	3.3 - 430	130	4.6	2400	ca		NO	BSL
72-55-9	4,4'-DDE	0.18	J	9.4		µg/kg	RM-SD-DB10-03-MAX	4/15	5.4 - 430	9.4	16.7	1700	ca		NO	BSL
309-00-2	Aldrin	0.11	J	0.47	J	µg/kg	RM-SD-DB07-03	2/15	1.7 - 220	0.47	2.41	29	ca*	3000	NO	BSL
319-84-6	alpha-BHC	0.14	J	0.26		µg/kg	RM-SD-DB10-03-MAX	3/15	1.7 - 220	0.26	2.41	90	ca	700	NO	BSL
5103-71-9	alpha-Chlordane	0.56		1200		µg/kg	OU3-B2-SB02-0406-MAX	9/15	3.2 - 4.7	1200	4.88	1600	ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	324		96550		µg/kg	OU3-B2-SB02-0406-MAX	16/18	66 - 120	96550		220	ca		YES	ASL
12672-29-6	Aroclor-1248	280		1400		µg/kg	OU3-B2-SB09-0204	2/18	33 - 4300	1400	46.1	220	ca		YES	ASL
11097-69-1	Aroclor-1254	250		77000	*	µg/kg	OU3-B2-SB02-0406-MAX	4/18	33 - 290	77000	46.1	220	ca**		YES	ASL
37324-23-5	Aroclor-1262	200	J	4400	*J	µg/kg	OU3-B2-SB09-0204	5/18	33 - 4400	4400	36.8	220	ca		YES	ASL
11100-14-4	Aroclor-1268	50	J	7200	*	µg/kg	OU3-B2-SB09-0204	14/18	54 - 4400	7200	46.1	220	ca		YES	ASL
60-57-1	Dieldrin	2	J	2600	J	µg/kg	OU3-B2-SB02-0406-MAX	8/15	6.1 - 17	2600	13.1	30	ca	1000	YES	ASL
1031-07-8	Endosulfan Sulfate	16		16		µg/kg	OU3-B2-SB06-0204	1/15	3.3 - 430	16	4.69	37000	nc		NO	BSL
7421-93-4	Endrin Aldehyde	13		49		µg/kg	OU3-B2-SB09-0204	2/15	3.3 - 430	49	4.56	1800	nc		NO	BSL
5103-74-2	gamma-Chlordane	0.67		17		µg/kg	RM-SD-DB03-03	5/15	2.8 - 220	17	2.67	1600	ca	72000	NO	BSL
1024-57-3	Heptachlor Epoxide	0.11	J	0.41	J	µg/kg	RM-SD-DB01-03	3/15	1.7 - 220	0.41	2.33	53	ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.0032	J	0.350845	J	µg/kg	RM-SD-DB01-03	9/9	0 - 0	0.350845		0.0039	ca		YES	ASL
7429-90-5	Aluminum	7110		38900	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	38900	12900		nc		NO	EPA-I
7440-36-0	Antimony	17.8	J	51.4		mg/kg	OU3-B2-SB05-0608	3/6	8.8 - 13.8	51.4	2.86	3.1	nc		YES	ASL
7440-38-2	Arsenic	2.6		56		mg/kg	OU3-B2-SB05-0608	14/15	0.82 - 0.82	56	5.67	0.39	ca*	770	YES	ASL
7440-39-3	Barium	14.8		3770	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	3770	57.5	540	nc	710000	YES	ASL
7440-41-7	Beryllium	0.31		5.6		mg/kg	OU3-B2-SB05-0608	10/15	0.51 - 1.9	5.6	0.719	15	nc	1400	NO	BSL
7440-43-9	Cadmium	0.22		149		mg/kg	OU3-B2-SB05-0608	13/15	0.8 - 0.85	149	0.397	3.7	nc	1800	YES	ASL
7440-70-2	Calcium	1830	J	37000	J	mg/kg	OU3-B2-SB05-0608	10/15	1410 - 2420	37000	1600				NO	NUT
7440-47-3	Chromium	12.4	J	3270	J	mg/kg	OU3-B2-SB05-0608	14/15	146 - 146	3270	17	30	ca	280	YES	ASL

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-48-4	Cobalt	4.1		23.8		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	23.8	6.35		ca**		NO	EPA-I
7440-50-8	Copper	28.3	J	7870	J	mg/kg	OU3-B2-SB05-0608	32/50	300 - 300	7870	28.8		nc		NO	EPA-I
7439-89-6	Iron	12900		68100	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	68100	16000		nc		NO	EPA-I
7439-92-1	Lead	14	J	10600	J	mg/kg	OU3-B2-SB05-0608	45/57	100 - 100	10600	80.8	400	nc		YES	ASL
7439-95-4	Magnesium	3160		31600		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	31600	3250				NO	NUT
7439-96-5	Manganese	122	J	722	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	722	306	180	nc		YES	ASL
7439-97-6	Mercury	0.11	J	2.3		mg/kg	RM-SD-DB10-03-MAX	11/15	0.06 - 0.14	2.3	0.111	2.3	nc	10	NO	BSL
7440-02-0	Nickel	7.5		457	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	457	12.5	160	nc	14000	YES	ASL
7440-09-7	Potassium	1460		21700	J	mg/kg	OU3-B2-SB05-0608	11/15	2070 - 3430	21700	961				NO	NUT
7782-49-2	Selenium	1		1		mg/kg	OU3-B2-SB09-0406	1/15	0.64 - 5	1	0.499	39	nc		NO	BSL
7440-22-4	Silver	0.39		2.9		mg/kg	OU3-B2-SB09-0204	7/15	0.75 - 2.2	2.9	0.508	39	nc		NO	BSL
7440-23-5	Sodium	866		187000	*	mg/kg	OU3-B2-SB05-0608	13/15	214 - 790	187000	76.4				NO	NUT
7440-28-0	Thallium	2.2		8.4		mg/kg	OU3-B2-SB05-0608	2/15	0.91 - 8.4	8.4	0.368	0.52	nc		YES	ASL
7440-62-2	Vanadium	14.6		224		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	224	34.2	55	nc		YES	ASL
7440-66-6	Zinc	34.4	J	5930		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	5930	112	2300	nc		YES	ASL
ASBESTOS	Asbestos	1		50		%	DBL-008, DBL-009	41/52	0.1 - 0.1	50	0.99	1			YES	ASL

Notes:

(1) Minimum/maximum detected concentration.
(2) N/A - Refer to supporting information for background discussion.
Background values are the maximum of off-site background concentrations.
(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of (
(4) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason: Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
MCL = Federal Maximum Contaminant Level
SMCL = Secondary Maximum Contaminant Level
J = Estimated Value
ca = Carcinogenic
nc = Non-Carcinogenic
EB = present in equipment blank
nc_1 = Region IX PRG for this non-carcinogen was based on a ceiling limit or saturation.
The value shown is 1/10 of the original Region IX PRG.

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
200 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 200 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-50-8	Copper	43	J	1100		mg/kg	OU6-SO-SPIM-103-0204	5/8	200 - 200	1100	28.8			NO	EPA-I
7439-92-1	Lead	49	J	817		mg/kg	OU6-SO-SPIM-103-0204	6/8	100 - 100	817	80.8	750 nc		YES	ASL
ASBESTOS	Asbestos	2		25		%	OU6-SO-FB200-101-0002, OU6-SO-FB200-101-0204	8/8	0 - 0	25		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason: Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)
EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	4	J	4	J	µg/kg	OU6-SO-FBSWL-101-0204	1/6	13 - 23	4		120000	sat	1200000	NO	BSL
120-82-1	1,2,4-Trichlorobenzene	2	J	2	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	2		300000	nc	3200000	NO	BSL
541-73-1	1,3-Dichlorobenzene	1	J	1	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	1		6300	nc		NO	BSL
106-46-7	1,4-Dichlorobenzene	2	J	3	J	µg/kg	OU6-SO-SPVM-101-0002	3/6	14 - 23	3		7900	ca		NO	BSL
78-93-3	2-Butanone	5	J	34		µg/kg	OU6-SO-SPVM-101-0002	6/6	0 - 0	34		2700000	nc		NO	BSL
67-64-1	Acetone	55		180		µg/kg	OU6-SO-SPVM-101-0002	3/6	29 - 76	180		600000	nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPVM-101-0406	1/6	13 - 16	3		1300	ca*	800	NO	BSL
74-83-9	Bromomethane	3	J	19		µg/kg	OU6-SO-SPVM-101-0002	5/6	23 - 23	19		1300	nc	9000	NO	BSL
75-15-0	Carbon Disulfide	2	J	12	J	µg/kg	OU6-SO-SPVM-101-0406	6/6	0 - 0	12		72000	nc	720000	NO	BSL
108-90-7	Chlorobenzene	2	J	8	J	µg/kg	OU6-SO-SPVM-101-0002	4/6	13 - 16	8		53000	nc	130000	NO	BSL
75-00-3	Chloroethane	3	J	14	J	µg/kg	OU6-SO-SPVM-101-0002	4/6	16 - 23	14		6500	ca		NO	BSL
74-87-3	Chloromethane	3	J	44		µg/kg	OU6-SO-SPVM-101-0002	5/6	23 - 23	44		2600	ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	2	J	6	J	µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	6		15000	nc		NO	BSL
100-41-4	Ethylbenzene	8	J	19		µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	19		20000	ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	3	J	µg/kg	OU6-SO-FBSWL-101-0204, OU6-SO-FBSWL-101-0406, OU6-SO-SPVM-101-0406	4/6	13 - 16	3		200000	nc		NO	BSL
79-20-9	Methyl Acetate	8	J	8	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	8		9200000	nc		NO	BSL
108-87-2	Methylcyclohexane	5	J	35		µg/kg	OU6-SO-FBSWL-101-0204	4/6	13 - 16	35		870000	nc		NO	BSL
108-88-3	Toluene	3	J	51		µg/kg	OU6-SO-SPVM-101-0204	4/6	16 - 23	51		52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	2	J	130		µg/kg	OU6-SO-SPVM-101-0204	6/6	0 - 0	130		42000	nc		NO	BSL
79-01-6	Trichloroethene	3	J	7	J	µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	7		110	ca	5000	NO	BSL
75-01-4	Vinyl Chloride	3	J	3	J	µg/kg	OU6-SO-SPVM-101-0204	1/6	13 - 23	3		750	ca	600	NO	BSL
91-57-6	2-Methylnaphthalene	39	J	300	J	µg/kg	SPD-10	4/10	480 - 1000	300		19000	nc	170000	NO	NTX

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
95-48-7	2-Methylphenol	120	J	120	J	µg/kg	SPD-10	1/10	480 - 1000	120		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	170	J	210	J	µg/kg	SPD-10	2/10	480 - 1000	210		310000	nc		NO	BSL
83-32-9	Acenaphthene	63	J	1100		µg/kg	OU3-A2-SS04-0002	5/10	540 - 1000	1100		2900000	nc		NO	BSL
208-96-8	Acenaphthylene	56	J	2100		µg/kg	OU3-A2-SS04-0002	5/10	540 - 1000	2100		19000	nc		NO	NTX
98-86-2	Acetophenone	180	J	1600		µg/kg	OU6-SO-SPVM-101-0002	6/6	0 - 0	1600		160	nc		YES	ASL
120-12-7	Anthracene	110	J	5700		µg/kg	OU3-A2-SS04-0002	8/10	700 - 1000	5700		10000000	nc		NO	BSL
100-52-7	Benzaldehyde	200	JEB	890	JEB	µg/kg	OU6-SO-SPVM-101-0002	5/6	500 - 500	890		6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	140	J	9100	*	µg/kg	OU3-A2-SS04-0002	8/10	1000 - 3300	9100		2100	ca		YES	ASL
50-32-8	Benzo(a)pyrene	140	J	9100	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	9100		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	160	J	6200	*J	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	6200		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	81	J	4300		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	4300		2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	110	J	6300		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	6300		21000	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	100	J	260	J	µg/kg	OU6-SO-SPVM-101-0002	6/10	730 - 3200	260		120000	ca*		NO	BSL
86-74-8	Carbazole	65	J	1900		µg/kg	OU3-A2-SS04-0002	7/10	700 - 1000	1900		86000	ca		NO	BSL
218-01-9	Chrysene	220	J	9200	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	9200		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	140	J	2300		µg/kg	OU3-A2-SS04-0002	5/10	600 - 1000	2300		210	ca		YES	ASL
132-64-9	Dibenzofuran	320	J	1600		µg/kg	OU3-A2-SS04-0002	3/10	480 - 1000	1600		310000	nc		NO	BSL
131-11-3	Dimethylphthalate	70	J	70	J	µg/kg	SPD-10	1/10	480 - 1000	70		10000000	max		NO	BSL
84-74-2	Di-n-Butylphthalate	72	J	210	J	µg/kg	SPD-10	3/10	500 - 1000	210		6200000	nc		NO	BSL
206-44-0	Fluoranthene	160	J	23000	*	µg/kg	OU3-A2-SS04-0002	10/10	0 - 0	23000		2200000	nc		NO	BSL
86-73-7	Fluorene	68	J	1700		µg/kg	OU3-A2-SS04-0002	8/10	700 - 1000	1700		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	100	J	4600		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	4600		2100	ca		YES	ASL
91-20-3	Naphthalene	64	J	550	J	µg/kg	OU3-A2-SS04-0002	5/10	500 - 1000	550		19000	nc	170000	NO	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
86-30-6	N-Nitroso-diphenylamine	200	J	200	J	µg/kg	OU6-SO-SPVM-101-0002	1/10	500 - 1000	200		350000 ca		NO	BSL
85-01-8	Phenanthrene	240	J	19000	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	19000		10000000 nc		NO	NTX
108-95-2	Phenol	370	JEB	2400		µg/kg	SPD-10	6/10	480 - 1000	2400		10000000 nc		NO	BSL
129-00-0	Pyrene	190	J	23000	*J	µg/kg	OU3-A2-SS04-0002	10/10	0 - 0	23000		2900000 nc		NO	BSL
TOTPAH	Total PAH	2380		2380		µg/kg	OU3-A2-SB04A-1214-MAX	1/1	0 - 0	2380				NO	NTX
72-54-8	4,4'-DDD	6.2		6.2		µg/kg	OU3-A2-SS04-0002	1/10	4.8 - 71	6.2	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	69		90		µg/kg	OU6-SO-FBSWL-101-0204	2/10	4.3 - 71	90	16.7	7000 ca		NO	BSL
5103-71-9	alpha-Chlordane	3.9		3.9		µg/kg	OU3-A2-SS04-0204	1/10	2.2 - 37	3.9	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	659.5		278000		µg/kg	OU6-SO-FBSWL-102-0002	13/14	630 - 630	278000		1000 ca		YES	ASL
12672-29-6	Aroclor-1248	6200	J	6200	J	µg/kg	SPD-10-SA6648	1/12	43 - 12000	6200	46.1	740 ca		YES	ASL
37324-23-5	Aroclor-1262	130		71000	J	µg/kg	SPD-10	6/12	77 - 12000	71000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	210		230000		µg/kg	OU6-SO-FBSWL-102-0002	12/12	0 - 0	230000	46.1	1000 ca		YES	ASL
60-57-1	Dieldrin	4.6		93		µg/kg	OU6-SO-FBSWL-101-0204	3/10	7.7 - 71	93	13.1	110 ca	1000	NO	BSL
33213-65-9	Endosulfan II	8.3		8.3		µg/kg	OU3-A2-SS04-0204	1/10	4.3 - 71	8.3	4.72	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	16	#	7300	#	µg/kg	OU6-SO-FBSWL-101-0204	6/10	4.3 - 63	7300	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	14		1400	#	µg/kg	OU6-SO-FBSWL-101-0204	6/10	4.8 - 63	1400	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	10		10		µg/kg	OU3-A2-SB04A-1214-MAX	1/10	4.3 - 71	10	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	4		260	J	µg/kg	SPD-10	3/10	3.9 - 37	260	2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	150	#	1100		µg/kg	OU6-SO-FBSWL-101-0204	4/10	22 - 330	1100	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.0139	J	20.14	J	µg/kg	SPD-10	5/5	0 - 0	20.14		0.027 ca		YES	ASL
7429-90-5	Aluminum	5120		15500		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	15500	12900			NO	EPA-I
7440-38-2	Arsenic	4.7		8.8		mg/kg	OU6-SO-SPVM-101-0002	8/10	4.9 - 7.2	8.8	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	67.7		16700		mg/kg	SPD-10	10/10	0 - 0	16700	57.5	6700 nc	710000	YES	ASL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-41-7	Beryllium	0.53		0.85		mg/kg	OU6-SO-SPVM-101-0002	7/10	0.45 - 0.53	0.85	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.46		1.8		mg/kg	OU3-A2-SS04-0204	6/10	0.097 - 0.86	1.8	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	1190		16500		mg/kg	OU3-A2-SB04A-1214-MAX	10/10	0 - 0	16500	1600			NO	NUT
7440-47-3	Chromium	24.3		301		mg/kg	OU6-SO-SPVM-101-0204	10/10	0 - 0	301	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	4.8		37		mg/kg	SPD-10	10/10	0 - 0	37	6.35			NO	EPA-I
7440-50-8	Copper	68.8	J	36300		mg/kg	SPD-10	21/23	150 - 300	36300	28.8			NO	EPA-I
7439-89-6	Iron	15200		26500		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	26500	16000			NO	EPA-I
7439-92-1	Lead	46	J	40100		mg/kg	SPD-10	22/24	40 - 100	40100	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	4210		76700		mg/kg	SPD-10	10/10	0 - 0	76700	3250			NO	NUT
7439-96-5	Manganese	154		324		mg/kg	OU3-A2-SS04-0002	10/10	0 - 0	324	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.1	J	1.5		mg/kg	OU6-SO-SPVM-101-0204	8/10	0.12 - 0.15	1.5	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	15		469		mg/kg	SPD-10	10/10	0 - 0	469	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	1120	J	3110		mg/kg	OU6-SO-FBSWL-101-0406	9/10	374 - 374	3110	961			NO	NUT
7782-49-2	Selenium	0.71	J	1.6	J	mg/kg	OU6-SO-SPVM-101-0406	3/10	0.56 - 2.2	1.6	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.77		2.6		mg/kg	OU6-SO-FBSWL-101-0002	6/10	0.29 - 0.98	2.6	0.508	510 nc		NO	BSL
7440-23-5	Sodium	345	J	6990		mg/kg	OU3-A2-SB04A-1214-MAX	9/10	74.5 - 74.5	6990	76.4			NO	NUT
7440-62-2	Vanadium	15.7		48.7		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	48.7	34.2	720 nc		NO	BSL
7440-66-6	Zinc	58.6		3790		mg/kg	SPD-10	10/10	0 - 0	3790	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9		90		%	SPD-10, SPD-5	22/24	0.1 - 0.1	90		1		YES	ASL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
75-34-3	1,1-Dichloroethane	10	J	10	J	µg/kg	OU6-SO-SPDPS-102-0608	1/12	11 - 35	10		170000 nc	1200000	NO	BSL
120-82-1	1,2,4-Trichlorobenzene	1	J	1	J	µg/kg	OU6-SO-SPDPS-102-0204	1/7	12 - 35	1		300000 nc	3200000	NO	BSL
540-59-0	1,2-Dichloroethene (total)	11	J	11	J	µg/kg	SP-SO-SB4-0406	1/5	11 - 34	11		4300 nc		NO	NTX
78-93-3	2-Butanone	16		150		µg/kg	OU6-SO-SPDPS-102-1214	10/12	11 - 34	150		2700000 nc		NO	BSL
108-10-1	4-Methyl-2-Pentanone	15	J	31	J	µg/kg	OU6-SO-SPDPS-102-0608	2/12	11 - 35	31		280000 nc		NO	BSL
67-64-1	Acetone	76		650	, J	µg/kg	OU6-SO-SPDPS-102-0608, OU6-SO-SPDPS-102-1214	8/12	11 - 270	650		600000 nc		NO	BSL
71-43-2	Benzene	1	J	9	J	µg/kg	OU6-SO-SPDPS-102-0810	5/12	11 - 34	9		1300 ca*	800	NO	BSL
75-25-2	Bromoform	2	J	5	J	µg/kg	OU6-SO-SPDPS-102-0406, OU6-SO-SPDPS-102-0810	4/12	11 - 35	5		220000 ca*	52000	NO	BSL
74-83-9	Bromomethane	7	J	7	J	µg/kg	OU6-SO-SPDPS-102-0810	1/12	11 - 35	7		1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	1	J	260		µg/kg	SP-SO-SB4-0406	11/12	21 - 21	260		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	5	J	950	*	µg/kg	OU6-SO-SPDPS-102-0810	6/12	11 - 15	950		53000 nc	130000	NO	BSL
75-00-3	Chloroethane	10	J	11	J	µg/kg	OU6-SO-SPDPS-102-0810	2/12	11 - 35	11		6500 ca		NO	BSL
74-87-3	Chloromethane	11	J	20	J	µg/kg	OU6-SO-SPDPS-102-1012	3/12	11 - 34	20		2600 ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	2	J	98		µg/kg	OU6-SO-SPDPS-102-0608	3/7	11 - 35	98		15000 nc		NO	BSL
100-41-4	Ethylbenzene	1	J	85	J	µg/kg	OU6-SO-SPDPS-102-0608	6/12	11 - 34	85		20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	5	J	µg/kg	OU6-SO-SPDPS-102-0608	4/7	11 - 15	5		200000 nc		NO	BSL
1634-04-4	Methyl tert-Butyl Ether	2	J	2	J	µg/kg	OU6-SO-SPDPS-102-0002	1/7	11 - 35	2		160000 ca*		NO	BSL
108-87-2	Methylcyclohexane	3	J	5	J	µg/kg	OU6-SO-SPDPS-102-0608	3/7	11 - 35	5		870000 nc		NO	BSL
75-09-2	Methylene Chloride	32	J	32	J	µg/kg	OU6-SO-SPDPS-102-1214	1/12	11 - 34	32		21000 ca	13000	NO	BSL
108-88-3	Toluene	3	J	4200	*	µg/kg	OU6-SO-SPDPS-102-1012	7/12	11 - 34	4200		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	480	J	µg/kg	OU6-SO-SPDPS-102-0608	8/12	11 - 34	480		42000 nc		NO	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
156-60-5	trans-1,2-Dichloroethene	4	J	4	J	µg/kg	OU6-SO-SPDPS-102-0608	1/7	11 - 35	4		23000 nc		NO	BSL
79-01-6	Trichloroethene	3	J	9	J	µg/kg	SP-SO-SB4-0406	4/12	11 - 35	9		110 ca	5000	NO	BSL
75-01-4	Vinyl Chloride	11	J	11	J	µg/kg	OU6-SO-SPDPS-102-0608	1/12	11 - 35	11		750 ca	600	NO	BSL
92-52-4	1,1'-Biphenyl	370	J	650		µg/kg	OU6-SO-SPDPS-102-1012	3/6	420 - 710	650		35000 sat		NO	BSL
105-67-9	2,4-Dimethylphenol	1000	J	10000	*	µg/kg	OU6-SO-SPDPS-102-1012	5/14	380 - 32000	10000		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	45	J	5700	J	µg/kg	SP-SO-SB3-1416	6/14	380 - 14000	5700		19000 nc		NO	NTX
95-48-7	2-Methylphenol	370	J	670		µg/kg	OU6-SO-SPDPS-102-1012	3/14	380 - 32000	670		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	130	J	7000	J	µg/kg	SP-SO-SB4-0406	6/14	380 - 32000	7000		310000 nc		NO	BSL
83-32-9	Acenaphthene	40	J	15000	J	µg/kg	SP-SO-SB3-1416	8/14	380 - 14000	15000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	97	J	3200	J	µg/kg	DPS3	9/14	450 - 32000	3200		19000 nc		NO	NTX
98-86-2	Acetophenone	60	J	9400	*	µg/kg	OU6-SO-SPDPS-102-1012	4/6	420 - 710	9400		160 nc		YES	ASL
120-12-7	Anthracene	210	J	6500	J	µg/kg	SP-SO-SB3-1416	12/14	450 - 710	6500		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	240	J	5100	*J	µg/kg	OU6-SO-SPDPS-102-1012	3/6	420 - 490	5100		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	150	J	13000		µg/kg	DPS3	13/13	0 - 0	13000		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	160	J	12000		µg/kg	DPS3	13/14	32000 - 32000	12000		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	210	J	11000		µg/kg	DPS3	14/14	0 - 0	11000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	120	J	3700	J	µg/kg	SP-SO-SB4-0406	13/14	32000 - 32000	3700		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	160	J	11000	J	µg/kg	DPS3	10/14	400 - 32000	11000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	53	J	65000	J	µg/kg	SP-SO-SB9-0810	8/14	380 - 14000	65000		120000 ca*		NO	BSL
85-68-7	Butylbenzylphthalate	28	J	28	J	µg/kg	DPS6	1/14	380 - 32000	28		10000000 nc		NO	BSL
86-74-8	Carbazole	70	J	6500	J	µg/kg	SP-SO-SB4-0406	10/11	32000 - 32000	6500		86000 ca		NO	BSL
218-01-9	Chrysene	200	J	14000		µg/kg	DPS3	14/14	0 - 0	14000		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	120	J	370	J	µg/kg	OU6-SO-SPDPS-102-0608	6/14	400 - 32000	370		210 ca		YES	ASL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
132-64-9	Dibenzofuran	45	J	7600	J	µg/kg	SP-SO-SB3-1416	8/14	380 - 14000	7600		310000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	49	J	15000	J	µg/kg	SP-SO-SB3-1416	7/14	380 - 4500	15000		6200000 nc		NO	BSL
206-44-0	Fluoranthene	280	J	32000		µg/kg	DPS3	12/14	14000 - 32000	32000		2200000 nc		NO	BSL
86-73-7	Fluorene	80	J	11000	J	µg/kg	SP-SO-SB3-1416	11/14	450 - 14000	11000		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	5700		µg/kg	DPS3	13/14	32000 - 32000	5700		2100 ca		YES	ASL
91-20-3	Naphthalene	22	J	7700	J	µg/kg	SP-SO-SB3-1416	7/14	380 - 14000	7700		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	26	J	26	J	µg/kg	SP-SO-SB9-0608	1/14	380 - 32000	26		350000 ca		NO	BSL
85-01-8	Phenanthrene	130	J	31000	J	µg/kg	SP-SO-SB3-1416	14/14	0 - 0	31000		10000000 nc		NO	NTX
108-95-2	Phenol	75	J	4200		µg/kg	OU6-SO-SPDPS-102-1012	6/14	380 - 32000	4200		10000000 nc		NO	BSL
129-00-0	Pyrene	330	J	32000		µg/kg	DPS3	14/14	0 - 0	32000		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	5	J	350		µg/kg	OU6-SO-SPDPS-102-1012	7/16	4 - 82	350	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	4.3	J	150		µg/kg	OU6-SO-SPDPS-102-1012	9/15	4.3 - 82	150	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	3.7	J	960	J	µg/kg	OU6-SO-SPDPS-102-1012	7/14	4.3 - 82	960	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	1.3	J	37	J	µg/kg	DPS3	6/16	2.2 - 42	37	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	473		180340		µg/kg	OU6-SO-SPDPS-102-1012	17/21	41 - 450	180340		1000 ca		YES	ASL
12672-29-6	Aroclor-1248	47		47		µg/kg	OU3-A2-SS03-0002	1/18	39 - 820	47	46.1	740 ca		NO	BSL
37324-23-5	Aroclor-1262	230	J	110000	*	µg/kg	OU6-SO-SPDPS-102-1012	14/17	39 - 510	110000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	260	J	68000	*	µg/kg	OU6-SO-SPDPS-102-1012	16/16	0 - 0	68000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	5.4		5.4		µg/kg	OU6-SO-SPDPS-102-1214	1/16	2 - 42	5.4	2.39	1300 ca	6000	NO	BSL
60-57-1	Dieldrin	3.3	J	89		µg/kg	OU6-SO-SPDPS-102-0608	6/16	4 - 82	89	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	5		14	J	µg/kg	SP-SO-SB4-0406	2/16	2 - 42	14	4.52	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	35		7900	*#	µg/kg	OU6-SO-SPDPS-102-1012	7/16	4 - 82	7900	4.69	370000 nc		NO	NTX
72-20-8	Endrin	160	J	160	J	µg/kg	DPS3	1/16	3.9 - 82	160	4.77	18000 nc		NO	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7421-93-4	Endrin Aldehyde	15	#	1900	*#	µg/kg	OU6-SO-SPDPS-102-1012	7/15	4 - 82	1900	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	4.3		94		µg/kg	SPDPS 001-MAX	2/16	4 - 82	94	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	4.9	J	71	J	µg/kg	DPS3	7/16	2.2 - 42	71	2.67	6500 ca	72000	NO	NTX
76-44-8	Heptachlor	2.7	J	2.7	J	µg/kg	SP-SO-SB4-0406	1/16	2 - 42	2.7	2.19	380 ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	5.9	J	5.9	J	µg/kg	SP-SO-SB8-0002	1/16	2 - 42	5.9	2.33	190 ca*	5000	NO	BSL
72-43-5	Methoxychlor	41		2300		µg/kg	OU6-SO-SPDPS-102-0608	5/16	20 - 420	2300	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.0016	J	2.6	J	µg/kg	OU6-SO-SPDPS-102-1012	12/13	0.39779 - 0.39779	2.6		0.027 ca		YES	ASL
7429-90-5	Aluminum	3800		13500		mg/kg	OU3-A2-SS03-0002	18/18	0 - 0	13500	12900			NO	EPA-I
7440-38-2	Arsenic	2.1		18.5		mg/kg	OU6-SO-SPDPS-102-0002	18/18	0 - 0	18.5	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	74.3	J	14500		mg/kg	OU6-SO-SPDPS-102-1012	17/18	41.5 - 41.5	14500	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.1	J	0.65		mg/kg	DPS6	11/18	0.08 - 0.41	0.65	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.6		1.8		mg/kg	OU6-SO-SPDPS-102-1012	6/18	0.13 - 1.6	1.8	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	791	J	11900	J	mg/kg	OU6-SO-SPDPS-102-0608	18/18	0 - 0	11900	1600			NO	NUT
7440-47-3	Chromium	8.2	J	141		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	141	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	4.7		34.2		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	34.2	6.35			NO	EPA-I
7440-50-8	Copper	17.4	J	30400	J	mg/kg	OU6-SO-SPDPS-102-1012	28/30	300 - 300	30400	28.8			NO	EPA-I
7439-89-6	Iron	10100		26800		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	26800	16000			NO	EPA-I
7439-92-1	Lead	32		25400		mg/kg	OU6-SO-SPDPS-102-1012	54/55	30 - 30	25400	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	2220	J	57200	J	mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	57200	3250			NO	NUT
7439-96-5	Manganese	91.7	J	546		mg/kg	OU3-A2-SS03-0002	18/18	0 - 0	546	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.08	J	0.23		mg/kg	SP-SO-SB4-0406	11/18	0.09 - 0.13	0.23	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	7.7	J	520		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	520	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	685		3190		mg/kg	OU6-SO-SPDPS-102-1214	17/18	676 - 676	3190	961			NO	NUT

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7782-49-2	Selenium	0.9	J	0.9	J	mg/kg	SP-SO-SB8-0002	1/18	0.34 - 2.3	0.9	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.5	J	2.8	J	mg/kg	SP-SO-SB4-0406	7/18	0.33 - 2.1	2.8	0.508	510 nc		NO	BSL
7440-23-5	Sodium	145		15700		mg/kg	SP-SO-SB3-1416	12/18	134 - 821	15700	76.4			NO	NUT
7440-28-0	Thallium	0.72		0.72		mg/kg	SP-SO-SB4-0406	1/17	0.17 - 1.5	0.72	0.368	6.7 nc		NO	BSL
7440-62-2	Vanadium	11.8		60.8		mg/kg	SP-SO-SB4-0406	18/18	0 - 0	60.8	34.2	720 nc		NO	BSL
7440-66-6	Zinc	30	J	3260	J	mg/kg	SP-SO-SB4-0406	18/18	0 - 0	3260	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.99		90		%	DPS-4	51/54	0.1 - 0.1	90		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
- N/A = Not Applicable
- SQL = Sample Quantitation Limit
- COPC = Chemical of Potential Concern
- ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
- J = Estimated Value
- EB = present in equipment blank
- * = From dilution analysis or estimated maximum possible concentration
- # = Possible false positive due to interference
- ca = Carcinogenic
- ca* = where nc < 100X ca
- ca** = where nc < 10X ca
- nc = Non-Carcinogenic
- sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
- max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
79-34-5	1,1,2,2-Tetrachloroethane	33	J	33	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/10	7 - 130	33		930 ca	600	NO	BSL
75-34-3	1,1-Dichloroethane	12	J	12	J	µg/kg	OU6-SO-SPHM-101-0406	1/10	7 - 130	12		170000 nc	1200000	NO	BSL
540-59-0	1,2-Dichloroethene (total)	730	J	730	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/3	130 - 130	730		4300 nc		NO	NTX
78-93-3	2-Butanone	18		100		µg/kg	OU6-SO-SPHM-101-1214	7/10	88 - 130	100		2700000 nc		NO	BSL
108-10-1	4-Methyl-2-Pentanone	11		59	J	µg/kg	OU6-SO-SPHM-101-0810	4/10	7 - 130	59		280000 nc		NO	BSL
67-64-1	Acetone	89	EB	1400		µg/kg	OU3-A2-SB01-0608	8/10	270 - 270	1400		600000 nc		NO	BSL
71-43-2	Benzene	4	J	59	J	µg/kg	OU6-SO-SPHM-101-0406	5/10	7 - 130	59		1300 ca*	800	NO	BSL
74-83-9	Bromomethane	11	J	25	J	µg/kg	OU6-SO-SPHM-101-1214	2/10	7 - 130	25		1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	5	J	78	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	5/10	7 - 130	78		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	21	J	6500	*	µg/kg	OU6-SO-SPHM-101-1214	7/10	7 - 130	6500		53000 nc	130000	NO	BSL
75-00-3	Chloroethane	19		70		µg/kg	OU6-SO-SPHM-101-1214	3/10	7 - 130	70		6500 ca		NO	BSL
74-87-3	Chloromethane	19		180		µg/kg	OU6-SO-SPHM-101-1214	4/10	7 - 130	180		2600 ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	5	J	31	J	µg/kg	OU6-SO-SPHM-101-0406	4/7	7 - 18	31		15000 nc		NO	BSL
110-82-7	Cyclohexane	13	J	13	J	µg/kg	OU6-SO-SPHM-101-0406	1/7	7 - 18	13		14000 sat		NO	BSL
100-41-4	Ethylbenzene	4	J	1300	*J	µg/kg	OU6-SO-SPHM-101-0406	9/10	7 - 7	1300		20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	81	J	µg/kg	OU6-SO-SPHM-101-1214	5/7	7 - 10	81		200000 nc		NO	BSL
1634-04-4	Methyl tert-Butyl Ether	6	J	6	J	µg/kg	OU6-SO-SPHM-101-0204-MAX	1/7	7 - 18	6		160000 ca*		NO	BSL
108-87-2	Methylcyclohexane	3	J	53	J	µg/kg	OU6-SO-SPHM-101-0406	5/7	7 - 10	53		870000 nc		NO	BSL
108-88-3	Toluene	2	J	2100	*	µg/kg	OU6-SO-SPHM-101-0810	10/10	0 - 0	2100		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	22		5200	*	µg/kg	OU6-SO-SPHM-101-1214	9/10	7 - 7	5200		42000 nc		NO	BSL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
79-01-6	Trichloroethene	2	J	330	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	7/10	7 - 130	330		110 ca	5000	YES	ASL
75-01-4	Vinyl Chloride	23	J	51	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	3/10	7 - 130	51		750 ca	600	NO	BSL
92-52-4	1,1'-Biphenyl	31	J	3200	J	µg/kg	OU6-SO-SPHM-101-0406	7/7	0 - 0	3200		35000 sat		NO	BSL
120-83-2	2,4-Dichlorophenol	23		23		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	23		180000 nc		NO	BSL
105-67-9	2,4-Dimethylphenol	58	J	21000		µg/kg	OU6-SO-SPHM-101-1214	12/14	17000 - 17000	21000		1200000 nc		NO	BSL
121-14-2	2,4-Dinitrotoluene	230	J	230	J	µg/kg	OU6-SO-SPHM-101-0608	1/14	360 - 17000	230		120000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	44	J	12000	J	µg/kg	OU6-SO-SPHM-101-0406	11/14	870 - 17000	12000		19000 nc		NO	NTX
95-48-7	2-Methylphenol	130	J	2000	J	µg/kg	OU6-SO-SPHM-101-1012	9/14	360 - 17000	2000		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	39	J	9800		µg/kg	OU6-SO-SPHM-101-1012	11/14	870 - 17000	9800		310000 nc		NO	BSL
83-32-9	Acenaphthene	39	J	12000	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	390 - 17000	12000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	100	J	5700		µg/kg	OU6-SO-SPHM-101-0608	9/14	590 - 17000	5700		19000 nc		NO	NTX
98-86-2	Acetophenone	500		7000	J	µg/kg	OU6-SO-SPHM-101-1214	4/7	360 - 2800	7000		160 nc		YES	ASL
120-12-7	Anthracene	35	J	18000		µg/kg	OU6-SO-SPHM-101-0608, OU6-SO-SPHM-101-1214	11/14	870 - 17000	18000		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	28	JEB	1500	JEB	µg/kg	OU6-SO-SPHM-101-1214	7/7	0 - 0	1500		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	120	J	20000		µg/kg	OU6-SO-SPHM-101-0608, OU6-SO-SPHM-101-1012, OU6-SO-SPHM-101-1214	13/14	870 - 870	20000		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	150	J	17000		µg/kg	OU6-SO-SPHM-101-1012	13/14	870 - 870	17000		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	150	J	18000		µg/kg	OU6-SO-SPHM-101-1012	13/14	870 - 870	18000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	130	J	9900	J	µg/kg	OU6-SO-SPHM-101-1214	11/14	870 - 17000	9900		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	150	J	14000		µg/kg	OU6-SO-SPHM-101-0608	13/14	870 - 870	14000		21000 ca		NO	BSL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
117-81-7	bis(2-Ethylhexyl)phthalate	130	J	1000	J	µg/kg	OU6-SO-SPHM-101-0406	5/14	360 - 17000	1000		120000 ca*		NO	BSL
86-74-8	Carbazole	54	J	17000		µg/kg	OU6-SO-SPHM-101-1214	10/14	590 - 17000	17000		86000 ca		NO	BSL
218-01-9	Chrysene	740		27000	*	µg/kg	OU6-SO-SPHM-101-0608	13/14	870 - 870	27000		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	98	J	3900	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	590 - 17000	3900		210 ca		YES	ASL
132-64-9	Dibenzofuran	32	J	9200	J	µg/kg	OU6-SO-SPHM-101-1214	8/14	390 - 17000	9200		310000 nc		NO	BSL
84-66-2	Diethylphthalate	45		45		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	45		10000000 nc		NO	BSL
131-11-3	Dimethylphthalate	65		230	J	µg/kg	OU6-SO-SPHM-101-0608	3/14	360 - 17000	230		10000000 max		NO	BSL
84-74-2	Di-n-Butylphthalate	63	J	2700	J	µg/kg	OU6-SO-SPHM-101-1012	3/14	360 - 17000	2700		6200000 nc		NO	BSL
117-84-0	Di-n-octylphthalate	34		34		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	34		2500000 nc		NO	BSL
206-44-0	Fluoranthene	1100		66000		µg/kg	OU6-SO-SPHM-101-1214	12/14	590 - 870	66000		2200000 nc		NO	BSL
86-73-7	Fluorene	84	J	16000	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	390 - 17000	16000		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	420		10000	J	µg/kg	OU6-SO-SPHM-101-1214	9/14	390 - 17000	10000		2100 ca		YES	ASL
91-20-3	Naphthalene	37	J	10000	J	µg/kg	OU6-SO-SPHM-101-0406, OU6-SO-SPHM-101-1214	11/14	870 - 17000	10000		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	380		4200		µg/kg	OU6-SO-SPHM-101-1012	5/14	360 - 17000	4200		350000 ca		NO	BSL
85-01-8	Phenanthrene	350	J	82000		µg/kg	OU6-SO-SPHM-101-1214	11/14	870 - 17000	82000		10000000 nc		NO	NTX
108-95-2	Phenol	35	JEB	8600	JEB	µg/kg	OU6-SO-SPHM-101-1214	12/14	17000 - 17000	8600		10000000 nc		NO	BSL
129-00-0	Pyrene	370	J	46000		µg/kg	OU6-SO-SPHM-101-1214	13/14	870 - 870	46000		2900000 nc		NO	BSL
TOTPAH	Total PAH	20800		68440		µg/kg	OU3-A2-SB01-0608	2/2	0 - 0	68440				NO	NTX
72-54-8	4,4'-DDD	3.5		3.5		µg/kg	OU6-SO-SPHM-101-0002	1/14	8.7 - 270	3.5	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	34		45		µg/kg	OU6-SO-SPHM-101-0204-MAX	2/13	3.5 - 270	45	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	460		480		µg/kg	OU6-SO-SPHM-101-0608	2/14	3.5 - 270	480	29.1	7000 ca*		NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	463		170450		µg/kg	OU6-SO-SPHM-101-0406	15/15	0 - 0	170450		1000 ca		YES	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
53469-21-9	Aroclor-1242	4100		4100		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	35 - 2400	4100	46.1	740 ca		YES	ASL
12672-29-6	Aroclor-1248	1200		1200		µg/kg	OU3-A2-SB01-1416	1/14	35 - 2700	1200	46.1	740 ca		YES	ASL
11097-69-1	Aroclor-1254	3800		3800		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	35 - 2400	3800	46.1	740 ca**		YES	ASL
37324-23-5	Aroclor-1262	1900	*	160000	*	µg/kg	OU6-SO-SPHM-101-0406	13/15	88 - 2400	160000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	68	J	57000		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	10/15	400 - 2300	57000	46.1	1000 ca		YES	ASL
60-57-1	Dieldrin	26	J	56		µg/kg	OU6-SO-SPHM-101-0608	3/14	3.5 - 230	56	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	41	J	41	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	1.8 - 120	41	4.52	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	150	*#	9800	*#	µg/kg	OU6-SO-SPHM-101-0810	7/14	8.7 - 270	9800	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	23	#	2000	, *#	µg/kg	OU3-A2-SB01-0608, OU6-SO-SPHM-101-0608	10/14	8.7 - 270	2000	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	9.7		9.7		µg/kg	OU6-SO-SPHM-101-0002	1/14	8.7 - 270	9.7	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	29		120	J	µg/kg	SPD4	4/14	1.8 - 120	120	2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	360		1200		µg/kg	OU6-SO-SPHM-101-0810	5/14	18 - 1400	1200	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.097	J	7.4	J	µg/kg	OU6-SO-SPHM-101-1012	11/11	0 - 0	7.4		0.027 ca		YES	ASL
7429-90-5	Aluminum	4360		17600	J	mg/kg	OU3-A2-SB03-1416	14/14	0 - 0	17600	12900			NO	EPA-I
7440-36-0	Antimony	0.79	J	2.4	J	mg/kg	OU6-SO-SPHM-101-0406	4/13	0.83 - 3.2	2.4	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	3.9		9.7		mg/kg	OU6-SO-SPHM-101-0204-MAX	10/14	4.2 - 8.3	9.7	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	57.8		13600		mg/kg	SPD4	14/14	0 - 0	13600	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.3		0.92		mg/kg	OU3-A2-SB03-1416	6/14	0.18 - 0.36	0.92	0.719	1900 nc	1400	NO	BSL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-43-9	Cadmium	0.66		3.2		mg/kg	OU6-SO-SPHM-101-1214	9/14	0.22 - 0.95	3.2	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	594		3560		mg/kg	OU3-A2-SB03-1416	14/14	0 - 0	3560	1600			NO	NUT
7440-47-3	Chromium	23.4		180		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	180	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	8.4		28.2		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	28.2	6.35			NO	EPA-I
7440-50-8	Copper	39.1		45100	J	mg/kg	OU6-SO-SPHM-101-1012	34/37	150 - 300	45100	28.8			NO	EPA-I
7439-89-6	Iron	13600		26700	J	mg/kg	OU3-A2-SB01-1416	14/14	0 - 0	26700	16000			NO	EPA-I
7439-92-1	Lead	25		41700	J	mg/kg	OU6-SO-SPHM-101-1012	46/47	100 - 100	41700	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	5810		77600		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	77600	3250			NO	NUT
7439-96-5	Manganese	174		364	J	mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	364	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.06		0.23	J	mg/kg	OU6-SO-SPHM-101-0810	4/14	0.05 - 0.31	0.23	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	19.1	J	471		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	471	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	666		3520	J	mg/kg	OU3-A2-SB03-1416	13/14	389 - 389	3520	961			NO	NUT
7782-49-2	Selenium	0.88	J	6.8	J	mg/kg	SPD4	10/14	1.1 - 3.1	6.8	0.499	510 nc		NO	BSL
7440-22-4	Silver	1.3		4.1		mg/kg	OU6-SO-SPHM-101-0406	8/14	0.22 - 1.4	4.1	0.508	510 nc		NO	BSL
7440-23-5	Sodium	374	J	13100	J	mg/kg	OU3-A2-SB03-1416	10/14	54.7 - 1070	13100	76.4			NO	NUT
7440-62-2	Vanadium	2		45.8		mg/kg	OU3-A2-SB01-1416	14/14	0 - 0	45.8	34.2	720 nc		NO	BSL
7440-66-6	Zinc	74.6		9180	J	mg/kg	OU6-SO-SPHM-101-1214	14/14	0 - 0	9180	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.99		90		%	SPD-3	45/47	0.1 - 0.1	90		1		YES	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
78-93-3	2-Butanone	4	J	76		µg/kg	OU6-SO-SPSC-104-0002	3/4	13 - 13	76		2700000 nc		NO	BSL
67-64-1	Acetone	16		360	J	µg/kg	OU6-SO-SPSC-104-0002	3/4	31 - 31	360		600000 nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	3		1300 ca*	800	NO	BSL
75-25-2	Bromoform	1	J	1	J	µg/kg	OU6-SO-SPSC-104-0406	1/4	8 - 13	1		220000 ca*	52000	NO	BSL
75-15-0	Carbon Disulfide	2	J	53		µg/kg	SP-SO-MW112B-0608	4/4	0 - 0	53		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	6	J	13	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	13		53000 nc	130000	NO	BSL
74-87-3	Chloromethane	4	J	4	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	4		2600 ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	1	J	35		µg/kg	OU6-SO-SPSC-104-0002	2/3	7 - 7	35		15000 nc		NO	BSL
110-82-7	Cyclohexane	3	J	3	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	3		14000 sat		NO	BSL
100-41-4	Ethylbenzene	19		43	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	43		20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	2		200000 nc		NO	BSL
79-20-9	Methyl Acetate	2	J	9	J	µg/kg	OU6-SO-SPSC-104-0002	2/3	7 - 7	9		9200000 nc		NO	BSL
108-87-2	Methylcyclohexane	9	J	9	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	9		870000 nc		NO	BSL
75-09-2	Methylene Chloride	5	J	77		µg/kg	SP-SO-MW112B-0608	2/4	8 - 12	77		21000 ca	13000	NO	BSL
108-88-3	Toluene	37	J	49		µg/kg	OU6-SO-SPSC-104-0002	2/4	7 - 8	49		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	140		190	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	190		42000 nc		NO	BSL
156-60-5	trans-1,2-Dichloroethene	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	2		23000 nc		NO	BSL
79-01-6	Trichloroethene	6	J	6	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	6		110 ca	5000	NO	BSL
75-01-4	Vinyl Chloride	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	2		750 ca	600	NO	BSL
105-67-9	2,4-Dimethylphenol	46	J	2200	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	2200		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	52	J	230	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	230		19000 nc		NO	NTX
95-48-7	2-Methylphenol	28	J	170	J	µg/kg	SP-SO-MW112B-0608	3/5	440 - 450	170		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	40	J	500	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	500		310000 nc		NO	BSL
100-02-7	4-Nitrophenol	43	J	43	J	µg/kg	OU6-SO-SPSC-104-0002	1/5	1000 - 1100	43		700000 nc		NO	BSL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
83-32-9	Acenaphthene	31	J	55	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	55		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	45	J	120	J	µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	120		19000 nc		NO	NTX
98-86-2	Acetophenone	180	J	180	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	410 - 450	180		160 nc		YES	ASL
120-12-7	Anthracene	84	J	140	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	140		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	60	JEB	110	JEB	µg/kg	OU6-SO-SPSC-104-0002	3/3	0 - 0	110		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	280	J	530		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	530		2100 ca		NO	BSL
50-32-8	Benzo(a)pyrene	310	J	580		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	580		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	530		850		µg/kg	OU6-SO-SPSC-104-0002	4/5	440 - 440	850		2100 ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	80	J	240		µg/kg	OU3-A2-SS02-0002-MAX	5/5	0 - 0	240		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	340	J	680		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	680		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	140	J	140	J	µg/kg	SP-SO-MW112B-0608	1/5	370 - 450	140		120000 ca*		NO	BSL
86-74-8	Carbazole	52	J	69	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	69		86000 ca		NO	BSL
218-01-9	Chrysene	480	J	1200		µg/kg	OU3-A2-SS02-0002-MAX	5/5	0 - 0	1200		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	36	J	76	J	µg/kg	OU6-SO-SPSC-104-0406	4/5	440 - 440	76		210 ca		NO	BSL
132-64-9	Dibenzofuran	32	J	91	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	91		310000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	160	J	160	J	µg/kg	SP-SO-MW112B-0608	1/5	370 - 450	160		6200000 nc		NO	BSL
206-44-0	Fluoranthene	710		1300		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	1300		2200000 nc		NO	BSL
86-73-7	Fluorene	44	J	130	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	130		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	100	J	210	, J	µg/kg	OU3-A2-SS02-0002-MAX, OU6-SO-SPSC-104-0406	5/5	0 - 0	210		2100 ca		NO	BSL
91-20-3	Naphthalene	51	J	340	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	340		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	36	J	490	J	µg/kg	SP-SO-MW112B-0608	3/5	440 - 450	490		350000 ca		NO	BSL
85-01-8	Phenanthrene	520		600	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	600		10000000 nc		NO	NTX
108-95-2	Phenol	37	JEB	1800	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	1800		10000000 nc		NO	BSL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
129-00-0	Pyrene	540		930	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	930		2900000 nc		NO	BSL
TOTPAH	Total PAH	5865		5865		µg/kg	OU3-A2-SS02-0002-MAX	1/1	0 - 0	5865				NO	NTX
72-54-8	4,4'-DDD	22		22		µg/kg	OU6-SO-SPSC-104-0406	1/5	4.1 - 50	22	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	14		14		µg/kg	OU6-SO-SPSC-104-0204	1/5	4.5 - 50	14	16.7	7000 ca		NO	BSL
309-00-2	Aldrin	2.1	J	2.1	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	2.1	2.41	100 ca*	3000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	6880.5		290000		µg/kg	OU6-SO-SPSC-101-0810	6/6	0 - 0	290000		1000 ca		YES	ASL
12672-29-6	Aroclor-1248	250		250		µg/kg	OU3-A2-SS02-0002-MAX	1/6	41 - 15000	250	46.1	740 ca		NO	BSL
37324-23-5	Aroclor-1262	3400	*	20000	*	µg/kg	OU6-SO-SPSC-104-0002	5/6	15000 - 15000	20000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	2400		230000		µg/kg	OU6-SO-SPSC-101-0810	6/6	0 - 0	230000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	4.2	J	4.2	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	4.2	2.39	1300 ca	6000	NO	BSL
60-57-1	Dieldrin	5.3		5.3		µg/kg	OU6-SO-SPSC-104-0204	1/5	4.5 - 50	5.3	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	3.9	J	3.9	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	3.9	4.52	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	19	J	1300	*#	µg/kg	OU6-SO-SPSC-104-0002	4/5	50 - 50	1300	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	30	#	530		µg/kg	OU3-A2-SS02-0002-MAX	4/5	33 - 33	530	4.56	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	2.1	J	2.1	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	2.1	2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	30		30		µg/kg	OU6-SO-SPSC-104-0204	1/5	23 - 260	30	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.05	J	0.61	J	µg/kg	OU6-SO-SPSC-104-0002	4/4	0 - 0	0.61		0.027 ca		YES	ASL
7429-90-5	Aluminum	8560		14200		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	14200	12900			NO	EPA-I
7440-36-0	Antimony	0.96	J	0.97	J	mg/kg	OU6-SO-SPSC-104-0002	2/7	0.71 - 2.7	0.97	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	4.6		10		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	10	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	273	J	3420		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	3420	57.5	6700 nc	710000	NO	BSL
7440-41-7	Beryllium	0.32	, J	0.42	J	mg/kg	OU6-SO-SPSC-104-0002	4/7	0.19 - 0.2	0.42	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.24	J	47.3		mg/kg	OU6-SO-SPSC-104-0204	4/7	0.24 - 0.89	47.3	0.397	45 nc	1800	YES	ASL
7440-70-2	Calcium	2830		4800		mg/kg	OU6-SO-SPSC-104-0002	6/7	1560 - 1560	4800	1600			NO	NUT

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-47-3	Chromium	37.2		92.4	J	mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	92.4	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	7		15.4		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	15.4	6.35			NO	EPA-I
7440-50-8	Copper	504	J	37000		mg/kg	OU6-SO-SPSC-101-0810	18/18	0 - 0	37000	28.8			NO	EPA-I
7439-89-6	Iron	16600		32300		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	32300	16000			NO	EPA-I
7439-92-1	Lead	425	J	46000		mg/kg	OU6-SO-SPSC-101-0810	31/35	30 - 30	46000	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	5840		20900		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	20900	3250			NO	NUT
7439-96-5	Manganese	211		350		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	350	306	1900 nc		NO	BSL
7440-02-0	Nickel	19		116		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	116	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	1630		2840		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	2840	961			NO	NUT
7782-49-2	Selenium	1.1	J	1.4	J	mg/kg	OU6-SO-SPSC-104-0204	3/7	0.5 - 1.4	1.4	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.39	J	1.7	J	mg/kg	SP-SO-MW112B-0608	4/7	0.24 - 0.57	1.7	0.508	510 nc		NO	BSL
7440-23-5	Sodium	389		709		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	6/7	464 - 464	709	76.4			NO	NUT
7440-62-2	Vanadium	25.8		44.2		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	44.2	34.2	720 nc		NO	BSL
7440-66-6	Zinc	177	J	8680	J	mg/kg	OU6-SO-SPSC-104-0204	7/7	0 - 0	8680	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	2		75		%	OU6-SO-SPSC-101-0608, OU6-SO-SPSC-101-0810	31/35	0.1 - 0.1	75		1		YES	ASL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
78-93-3	2-Butanone	2	J	5	J	µg/kg	OU6-SO-SPDA-101-0002	2/4	11 - 21	5		2700000 nc		NO	BSL
67-64-1	Acetone	49		49		µg/kg	OU6-SO-SPDA-101-0002	1/4	11 - 21	49		600000 nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPDA-101-0406	1/4	7 - 11	3		1300 ca*	800	NO	BSL
74-83-9	Bromomethane	1	J	1	J	µg/kg	OU6-SO-SPDA-101-0002	1/4	7 - 21	1		1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	2	J	28	J	µg/kg	OU6-SO-SPDA-101-0406	4/4	0 - 0	28		72000 nc	720000	NO	BSL
108-88-3	Toluene	1	J	7	J	µg/kg	OU6-SO-SPDA-101-0406	3/4	7 - 7	7		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	1	J	3	J	µg/kg	OU6-SO-SPDA-101-0406	2/4	7 - 9	3		42000 nc		NO	BSL
105-67-9	2,4-Dimethylphenol	180	J	180	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	180		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	46	J	50	J	µg/kg	OU6-SO-SPDA-101-0204	2/6	360 - 780	50		19000 nc		NO	NTX
95-48-7	2-Methylphenol	150	J	150	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	150		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	130	J	130	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	130		310000 nc		NO	BSL
83-32-9	Acenaphthene	54	J	92	J	µg/kg	OU6-SO-SPDA-101-0608	2/4	360 - 780	92		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	80	J	240	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	240		19000 nc		NO	NTX
120-12-7	Anthracene	96	J	260	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	260		10000000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	230	J	680	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	680		2100 ca		NO	BSL
50-32-8	Benzo(a)pyrene	120	J	730	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	730		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	24	J	1000	J	µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	1000		2100 ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	79	J	680	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	680		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	170	J	480	J	µg/kg	OU6-SO-SPDA-101-0002	4/6	360 - 780	480		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	130	J	130	J	µg/kg	OU6-SO-SPDA-101-0002, OU6-SO-SPDA-101-0406	2/6	360 - 780	130		120000 ca*		NO	BSL
86-74-8	Carbazole	61	J	88	J	µg/kg	OU6-SO-SPDA-101-0608	3/6	360 - 490	88		86000 ca		NO	BSL
218-01-9	Chrysene	23	J	760	J	µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	760		210000 ca		NO	BSL

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
53-70-3	Dibenzo(a,h)anthracene	170	J	170	J	µg/kg	OU3-A3-SB01-0002	1/6	360 - 490	170		210 ca		NO	BSL
132-64-9	Dibenzofuran	40	J	70	J	µg/kg	OU6-SO-SPDA-101-0608	2/6	360 - 780	70		310000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	26	J	86	J	µg/kg	OU3-A3-SB01-0002	2/6	370 - 490	86		6200000 nc		NO	BSL
206-44-0	Fluoranthene	32	J	1400		µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	1400		2200000 nc		NO	BSL
86-73-7	Fluorene	52	J	140	J	µg/kg	OU6-SO-SPDA-101-0608	3/6	360 - 490	140		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	580	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	580		2100 ca		NO	BSL
91-20-3	Naphthalene	37	J	57	J	µg/kg	OU6-SO-SPDA-101-0608	2/6	360 - 780	57		19000 nc	170000	NO	BSL
85-01-8	Phenanthrene	22	J	1500		µg/kg	OU6-SO-SPDA-101-0608	6/6	0 - 0	1500		10000000 nc		NO	NTX
108-95-2	Phenol	3600		3600		µg/kg	OU6-SO-SPDA-101-0204	1/3	420 - 450	3600		10000000 nc		NO	BSL
129-00-0	Pyrene	33	J	1700		µg/kg	OU6-SO-SPDA-101-0002	6/6	0 - 0	1700		2900000 nc		NO	BSL
72-55-9	4,4'-DDE	7.6	#	41	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	3.8 - 87	41	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	25	#	58	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	3.8 - 87	58	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.3		25		µg/kg	OU6-SO-SPDA-101-0002	3/6	2 - 45	25	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	423		218510		µg/kg	OU6-SO-SPDA-101-0204	7/8	290 - 290	218510		1000 ca		YES	ASL
37324-23-5	Aroclor-1262	120	J	120000	*	µg/kg	OU6-SO-SPDA-101-0204	6/8	290 - 2800	120000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	150		95000	J*	µg/kg	OU6-SO-SPDA-101-0204	7/8	290 - 290	95000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	5		5		µg/kg	OU6-SO-SPDA-101-0608	1/6	1.9 - 45	5	2.39	1300 ca	6000	NO	BSL
60-57-1	Dieldrin	9.8	#	120	#	µg/kg	OU6-SO-SPDA-101-0204	3/6	3.8 - 7	120	13.1	110 ca	1000	YES	ASL
33213-65-9	Endosulfan II	16	#	31	#	µg/kg	OU6-SO-SPDA-101-0002	2/6	3.8 - 87	31	4.72	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	75	#*	340	#	µg/kg	OU6-SO-SPDA-101-0204	2/6	3.8 - 18	340	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	20	#	1000	#	µg/kg	OU6-SO-SPDA-101-0204	4/6	3.8 - 3.8	1000	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	8.9		8.9		µg/kg	OU3-A3-SB01-0406	1/6	3.7 - 87	8.9	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	6.3		73	#	µg/kg	OU6-SO-SPDA-101-0204	4/6	2 - 3.6	73	2.67	6500 ca	72000	NO	NTX

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
76-44-8	Heptachlor	2.8		2.8		µg/kg	OU3-A3-SB01-0002	1/6	1.9 - 45	2.8	2.19	380 ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	2.5		9.9	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	2 - 45	9.9	2.33	190 ca*	5000	NO	BSL
72-43-5	Methoxychlor	39		680	#	µg/kg	OU6-SO-SPDA-101-0204	3/6	19 - 20	680	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	2.48		2.48		µg/kg	OU6-SO-SPDA-101-0204	1/1	0 - 0	2.48		0.027 ca		YES	ASL
7429-90-5	Aluminum	8160		11900		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	11900	12900			NO	EPA-I
7440-36-0	Antimony	2.7	J	3.2	J	mg/kg	OU3-A3-SB01-0002	2/6	0.36 - 0.69	3.2	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	1.7	J	9.3		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	9.3	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	35.7		10500		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	10500	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.43		0.59		mg/kg	OU6-SO-SPDA-101-0406	3/6	0.31 - 0.44	0.59	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.66		0.92	J	mg/kg	OU3-A3-SB01-0002	2/6	0.045 - 0.44	0.92	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	1150		30700		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	30700	1600			NO	NUT
7440-47-3	Chromium	10		105		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	105	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	4.8		12.9		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	12.9	6.35			NO	EPA-I
7440-50-8	Copper	13		15000		mg/kg	OU6-SO-SPBG2-104-0204	23/29	200 - 300	15000	28.8			NO	EPA-I
7439-89-6	Iron	11800		16500		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	16500	16000			NO	EPA-I
7439-92-1	Lead	18		12900		mg/kg	OU6-SO-SPDA-101-0204	29/37	100 - 100	12900	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	2550		34400		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	34400	3250			NO	NUT
7439-96-5	Manganese	139		229		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	229	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.074	J	0.23	J	mg/kg	OU3-A3-SB01-0002	5/6	0.05 - 0.05	0.23	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	9.3		192		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	192	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	629		1360		mg/kg	OU6-SO-SPDA-101-0002	5/6	549 - 549	1360	961			NO	NUT
7440-22-4	Silver	0.18	J	0.98		mg/kg	OU6-SO-SPDA-101-0204	5/6	0.16 - 0.16	0.98	0.508	510 nc		NO	BSL
7440-23-5	Sodium	42.1		158		mg/kg	OU3-A3-SB01-0002	2/6	131 - 220	158	76.4			NO	NUT

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-62-2	Vanadium	15.6		44		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	44	34.2	720 nc		NO	BSL
7440-66-6	Zinc	25.7		916		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	916	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9		60		%	OU6-SO-SPDA-101-0204	30/36	0.1 - 0.1	60		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
71-55-6	1,1,1-Trichloroethane	4		9		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/6	12 - 13	9		200000 sat	1200000	NO	BSL
67-64-1	Acetone	220		220		µg/kg	OU3-A3-SB02-1416-MAX	1/6	13 - 36	220		160000 nc		NO	BSL
75-15-0	Carbon Disulfide	2		2		µg/kg	OU3-A3-SB02-1416-MAX	1/6	12 - 18	2		36000 nc	720000	NO	BSL
75-09-2	Methylene Chloride	7		7		µg/kg	OU3-A3-SB02-1416-MAX	1/6	40 - 62	7		9100 ca	13000	NO	BSL
108-88-3	Toluene	7	J	7	J	µg/kg	SPDAC E275,S130 (9.5-10.0)	1/7	12 - 18	7		66000 sat	650000	NO	BSL
105-67-9	2,4-Dimethylphenol	280	J	11000		µg/kg	OU3-A3-SB02-0608-MAX	4/8	400 - 2000	11000		120000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	230	J	1000		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	1000		5600 nc		NO	BSL
95-48-7	2-Methylphenol	82		390		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	390		310000 nc		NO	BSL
106-44-5	4-Methylphenol	160		850		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	850		31000 nc		NO	BSL
83-32-9	Acenaphthene	33	J	990		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	990		370000 nc		NO	BSL
208-96-8	Acenaphthylene	60	J	460		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	4/8	400 - 5900	460		5600 nc		NO	BSL
120-12-7	Anthracene	130	J	2400		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	2400		2200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	21	J	6700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	620 - 620	6700		620 ca		YES	ASL
50-32-8	Benzo(a)pyrene	310		5700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	400 - 620	5700		62 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	310		6200		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	400 - 620	6200		620 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	80		2600		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	7/8	400 - 400	2600		230000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	560	J	4700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	5/8	400 - 620	4700		6200 ca		NO	BSL
86-74-8	Carbazole	52	J	1200		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	1200		24000 ca		NO	BSL

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
218-01-9	Chrysene	22	J	7200		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	7200		62000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	610		1000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	3/8	400 - 970	1000		62 ca		YES	ASL
132-64-9	Dibenzofuran	140	J	770		µg/kg	OU3-A3-SB02-0608-MAX	4/8	400 - 620	770		29000 nc		NO	BSL
84-66-2	Diethylphthalate	35		295		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/8	400 - 5900	295		4900000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	32	J	1300		µg/kg	OU3-A3-SB02-0608-MAX	6/8	2000 - 2000	1300		610000 nc		NO	BSL
206-44-0	Fluoranthene	54	J	14000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	14000		230000 nc		NO	BSL
86-73-7	Fluorene	51	J	1200		µg/kg	OU3-A3-SB02-0608-MAX	7/8	400 - 400	1200		270000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	400	J	3000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	5/8	400 - 620	3000		620 ca		YES	ASL
91-20-3	Naphthalene	330	J	1400		µg/kg	OU3-A3-SB02-0608-MAX	2/8	400 - 2000	1400		5600 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	540	J	2900		µg/kg	OU3-A3-SB02-0608-MAX	2/8	400 - 2000	2900		99000 ca		NO	BSL
85-01-8	Phenanthrene	74	J	8800		µg/kg	OU3-A3-SB02-0608-MAX	8/8	0 - 0	8800		2200000 nc		NO	BSL
108-95-2	Phenol	1700		2000		µg/kg	SPDAC E275,S130 (9.5-10.0)	3/6	490 - 2000	2000		3700000 nc		NO	BSL
129-00-0	Pyrene	39	J	18000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	18000		230000 nc		NO	BSL
TOTPAH	Total PAH	210		80580		µg/kg	SPDAC,E325,S38(0.0-1.0)-MAX	3/3	0 - 0	80580				NO	NTX
50-29-3	4,4'-DDT	110		4600	J	µg/kg	SPD G4	2/5	4 - 32	4600	29.1	1700 ca*		YES	ASL
AROCLORTOTC	Aroclor, Total (Conservative)	368		89400		µg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	89400		220 ca		YES	ASL
12672-29-6	Aroclor-1248	310	J	1400		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	4/9	40 - 600	1400	46.1	220 ca		YES	ASL

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
11097-69-1	Aroclor-1254	330	J	1200		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	3/9	40 - 850	1200	46.1	220 ca**		YES	ASL
37324-23-5	Aroclor-1262	77	J	54000	J***	µg/kg	SPD G4	10/10	0 - 0	54000	36.8	220 ca		YES	ASL
11100-14-4	Aroclor-1268	130		52000		µg/kg	OU3-A3-SB02-0608-MAX	8/9	570 - 570	52000	46.1	220 ca		YES	ASL
959-98-8	Endosulfan I	30		30		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	2/9	2.1 - 44	30	4.52	37000 nc		NO	BSL
72-20-8	Endrin	92		92		µg/kg	OU3-A3-SB02-0608-MAX	1/6	4 - 85	92	4.77	1800 nc		NO	BSL
53494-70-5	Endrin Ketone	7.5		2000		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/9	32 - 85	2000	5.31	1800 nc		YES	ASL
5103-74-2	gamma-Chlordane	38		38		µg/kg	OU3-A3-SB02-0608-MAX	1/7	2.1 - 44	38	2.67	1600 ca	72000	NO	BSL
TE	Toxicity Equivalency	0.0243	J	10.539		µg/kg	OU3-A3-SB02-0608-MAX	8/8	0 - 0	10.539		0.0039 ca		YES	ASL
7429-90-5	Aluminum	3830		12100		mg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	10/10	0 - 0	12100	12900			NO	EPA-I
7440-36-0	Antimony	6.5		6.5		mg/kg	OU3-A3-SB02-0608-MAX	1/10	2.6 - 30.4	6.5	2.86	3.1 nc		YES	ASL
7440-38-2	Arsenic	1.8	J	9.7	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	9/10	5.8 - 5.8	9.7	5.67	0.39 ca*	770	YES	ASL
7440-39-3	Barium	29.5		21000		mg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	10/10	0 - 0	21000	57.5	540 nc	710000	YES	ASL
7440-41-7	Beryllium	0.29		0.87	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	0.37 - 0.38	0.87	0.719	15 nc	1400	NO	BSL
7440-43-9	Cadmium	2.4		2.4		mg/kg	OU3-A3-SB02-0608-MAX	1/10	0.47 - 2.6	2.4	0.397	3.7 nc	1800	NO	BSL
7440-70-2	Calcium	470		9330		mg/kg	SPDAC E275,S130 (3.1-3.7)	10/10	0 - 0	9330	1600			NO	NUT
7440-47-3	Chromium	9.6		227		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	227	17	30 ca	280	YES	ASL
7440-48-4	Cobalt	3.4		46.8		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	46.8	6.35			NO	EPA-I
7440-50-8	Copper	42.3	J	34600		mg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	14/15	200 - 200	34600	28.8			NO	EPA-I
7439-89-6	Iron	9970		22900		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	22900	16000			NO	EPA-I

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7439-92-1	Lead	17.1	J	35400		mg/kg	OU3-A3-SB02-0608-MAX	28/30	50 - 100	35400	80.8	400 nc		YES	ASL
7439-95-4	Magnesium	2870		95400		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	95400	3250			NO	NUT
7439-96-5	Manganese	83.6		592	J	mg/kg	SPD H3	10/10	0 - 0	592	306	180 nc		YES	ASL
7439-97-6	Mercury	0.18		0.51		mg/kg	SPDAC E275,S130 (9.5-10.0)	5/10	0.06 - 0.33	0.51	0.111	2.3 nc	10	NO	BSL
7440-02-0	Nickel	9.1		580		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	580	12.5	160 nc	14000	YES	ASL
7440-09-7	Potassium	498		2080		mg/kg	SPD G4	9/10	139 - 139	2080	961			NO	NUT
7440-22-4	Silver	0.35	J	4.3	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	2.6 - 4.6	4.3	0.508	39 nc		NO	BSL
7440-23-5	Sodium	142		2180		mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	48.6 - 53.9	2180	76.4			NO	NUT
7440-62-2	Vanadium	6.6		77	J	mg/kg	SPD H3	10/10	0 - 0	77	34.2	55 nc		YES	ASL
7440-66-6	Zinc	22.4		4730		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	4730	112	2300 nc		YES	ASL
ASBESTOS	Asbestos	0.99		80		%	SPD G4	34/35	0.1 - 0.1	80		1		YES	ASL

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
120-82-1	1,2,4-Trichlorobenzene	26	J	290		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	290		300000 nc	3200000	NO	BSL
95-50-1	1,2-Dichlorobenzene	2	J	320		µg/kg	OU6-SO-SPBG1-201-0608	4/6	13 - 14	320		37000 sat	600000	NO	BSL
541-73-1	1,3-Dichlorobenzene	6	J	54		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	54		6300 nc		NO	BSL
106-46-7	1,4-Dichlorobenzene	49	J	490		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	490		7900 ca		NO	BSL
78-93-3	2-Butanone	25		380	J	µg/kg	OU6-SO-SPBG1-201-0810	4/6	14 - 45	380		2700000 nc		NO	BSL
67-64-1	Acetone	74		1100	*	µg/kg	OU6-SO-SPBG1-201-0002	5/6	45 - 45	1100		600000 nc		NO	BSL
71-43-2	Benzene	2	J	11	J	µg/kg	OU6-SO-SPBG1-201-0608	4/6	13 - 14	11		1300 ca*	800	NO	BSL
74-83-9	Bromomethane	48	J	48	J	µg/kg	OU6-SO-SPBG1-201-0810	1/6	13 - 45	48		1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	16	J	44	J	µg/kg	OU6-SO-SPBG1-201-0810	4/6	13 - 14	44		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	28	J	170		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	170		53000 nc	130000	NO	BSL
74-87-3	Chloromethane	2	J	24	J	µg/kg	OU6-SO-SPBG1-201-0810	3/6	13 - 25	24		2600 ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	2	J	2	J	µg/kg	OU6-SO-SPBG1-201-1012	1/6	13 - 45	2		15000 nc		NO	BSL
110-82-7	Cyclohexane	5	J	8	J	µg/kg	OU6-SO-SPBG1-201-0406	2/6	13 - 45	8		14000 sat		NO	BSL
100-41-4	Ethylbenzene	13	J	19		µg/kg	OU6-SO-SPBG1-201-1012	3/6	13 - 45	19		20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	14	J	µg/kg	OU6-SO-SPBG1-201-0406	2/6	13 - 45	14		200000 nc		NO	BSL
79-20-9	Methyl Acetate	350		1800		µg/kg	OU6-SO-SPBG1-201-0204-MAX	2/6	14 - 45	1800		9200000 nc		NO	BSL
1634-04-4	Methyl tert-Butyl Ether	4	J	4	J	µg/kg	OU6-SO-SPBG1-201-0406	1/6	13 - 45	4		160000 ca*		NO	BSL
108-87-2	Methylcyclohexane	3	J	18	J	µg/kg	OU6-SO-SPBG1-201-0810	3/6	13 - 18	18		870000 nc		NO	BSL
108-88-3	Toluene	3	J	95	J	µg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	95		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	110		µg/kg	OU6-SO-SPBG1-201-0406	4/6	13 - 14	110		42000 nc		NO	BSL
106-44-5	4-Methylphenol	180	J	470		µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	470		310000 nc		NO	BSL
83-32-9	Acenaphthene	43	J	680	J	µg/kg	OU6-SO-SPBG1-201-0406	3/6	430 - 860	680		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	77	J	260	J	µg/kg	OU6-SO-SPBG1-201-0608	5/6	5000 - 5000	260		19000 nc		NO	NTX

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
120-12-7	Anthracene	75	J	1200	J	µg/kg	OU6-SO-SPBG1-201-0406	5/6	860 - 860	1200		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	93	JEB	310	JEB	µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	310		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	290	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	370	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	420	J	1900	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	1900		2100 ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	83	J	810	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	810		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	260	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		21000 ca		NO	BSL
105-60-2	Caprolactam	49	J	49	J	µg/kg	OU6-SO-SPBG1-201-0002	1/6	400 - 5000	49		10000000 nc		NO	BSL
86-74-8	Carbazole	55	J	670	J	µg/kg	OU6-SO-SPBG1-201-0406	4/6	560 - 860	670		86000 ca		NO	BSL
218-01-9	Chrysene	380	J	2900	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2900		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	80	J	290	J	µg/kg	OU6-SO-SPBG1-201-0608	3/6	400 - 5000	290		210 ca		YES	ASL
84-74-2	Di-n-Butylphthalate	790	EB	790	EB	µg/kg	OU6-SO-SPBG1-201-0002	1/6	400 - 5000	790		6200000 nc		NO	BSL
206-44-0	Fluoranthene	630		5400		µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	5400		2200000 nc		NO	BSL
86-73-7	Fluorene	66	J	780	J	µg/kg	OU6-SO-SPBG1-201-0406	4/6	560 - 860	780		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	88	J	890	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	890		2100 ca		NO	BSL
91-20-3	Naphthalene	57	J	530	J	µg/kg	OU6-SO-SPBG1-201-0406	3/6	430 - 860	530		19000 nc	170000	NO	BSL
85-01-8	Phenanthrene	330	J	4800	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	4800		10000000 nc		NO	NTX
108-95-2	Phenol	1900		4500	*	µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	4500		10000000 nc		NO	BSL
129-00-0	Pyrene	580		4600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	4600		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	9.9		19	#	µg/kg	OU6-SO-SPBG1-201-0608	2/6	4.4 - 6.4	19	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	5.4		23	#	µg/kg	OU6-SO-SPBG1-201-0608	4/6	5.4 - 6.4	23	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	9.4		30	#	µg/kg	OU6-SO-SPBG1-201-0002	2/6	5.2 - 9.2	30	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	13		13		µg/kg	OU6-SO-SPBG1-201-0002	1/6	2.2 - 4.7	13	4.88	6500 ca	72000	NO	NTX

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
AROCLORTOTC	Aroclor, Total (Conservative)	253		3971		µg/kg	OU6-SO-SPBG1-201-0608	6/6	0 - 0	3971		1000 ca		YES	ASL
11096-82-5	Aroclor-1260	94		1300		µg/kg	OU6-SO-SPBG1-201-0608	4/6	43 - 64	1300	46.1	740 ca		YES	ASL
11100-14-4	Aroclor-1268	59		2400		µg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	2400	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	3.2	J	3.2	J	µg/kg	OU6-SO-SPBG1-201-1012	1/6	2.2 - 4.7	3.2	2.39	1300 ca	6000	NO	BSL
1031-07-8	Endosulfan Sulfate	4.5	#	18	#	µg/kg	OU6-SO-SPBG1-201-0608	3/6	4.3 - 6.4	18	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	7.4	#	29	#	µg/kg	OU6-SO-SPBG1-201-0608	4/6	4.3 - 4.4	29	4.56	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	7.8		7.8		µg/kg	OU6-SO-SPBG1-201-0002	1/6	2.2 - 4.7	7.8	2.67	6500 ca	72000	NO	NTX
TE	Toxicity Equivalency	0.031		0.031		µg/kg	OU6-SO-SPBG1-201-0204-MAX	1/1	0 - 0	0.031		0.027 ca		YES	ASL
7429-90-5	Aluminum	7180		11500		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	11500	12900			NO	EPA-I
7440-38-2	Arsenic	2.4		9.6		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	9.6	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	58.8		634		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	634	57.5	6700 nc	710000	NO	BSL
7440-70-2	Calcium	2630	J	134000	J	mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	134000	1600			NO	NUT
7440-47-3	Chromium	17.7		28.3		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	28.3	17	64 ca	280	NO	BSL
7440-48-4	Cobalt	2.8		6.8		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	6.8	6.35			NO	EPA-I
7440-50-8	Copper	43.4		635		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	635	28.8			NO	EPA-I
7439-89-6	Iron	9630		19400		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	19400	16000			NO	EPA-I
7439-92-1	Lead	66.4		731		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	731	80.8	750 nc		NO	BSL
7439-95-4	Magnesium	3590		15900		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	15900	3250			NO	NUT
7439-96-5	Manganese	138		292		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	292	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.074	J	0.38		mg/kg	OU6-SO-SPBG1-201-0406	5/6	0.13 - 0.13	0.38	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	16		64.5		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	64.5	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	530		1820		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	1820	961			NO	NUT
7440-23-5	Sodium	117	J	1020		mg/kg	OU6-SO-SPBG1-201-0608	6/6	0 - 0	1020	76.4			NO	NUT

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-62-2	Vanadium	15.6	J	32.8		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	32.8	34.2	720 nc		NO	BSL
7440-66-6	Zinc	57.5	J	112		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	112	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9		8		%	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	8		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	5	J	45		µg/kg	OU6-SO-PP-101-0810	5/7	12 - 21	45		2700000 nc		NO	BSL
67-64-1	Acetone	42		210		µg/kg	OU6-SO-PP-101-0810	3/7	12 - 210	210		600000 nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	3		1300 ca*	800	NO	BSL
75-15-0	Carbon Disulfide	1	J	16	J	µg/kg	OU6-SO-PP-101-0810	5/7	12 - 21	16		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	5	J	32	J	µg/kg	OU3-A1-SB03-0608-MAX	2/7	8 - 20	32		53000 nc	130000	NO	BSL
100-41-4	Ethylbenzene	12	J	12	J	µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	12		20000 ca	400000	NO	BSL
79-20-9	Methyl Acetate	7	J	7	J	µg/kg	OU6-SO-PP-101-0810	1/5	8 - 15	7		9200000 nc		NO	BSL
75-09-2	Methylene Chloride	4	J	4	J	µg/kg	OU6-SO-PP-101-0002	1/7	10 - 26	4		21000 ca	13000	NO	BSL
108-88-3	Toluene	2	J	250	J	µg/kg	OU3-A1-SB03-0608-MAX	5/7	8 - 12	250		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	100		100		µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	100		42000 nc		NO	BSL
79-01-6	Trichloroethene	2	J	2	J	µg/kg	OU6-SO-PP-101-0406	1/7	8 - 21	2		110 ca	5000	NO	BSL
105-67-9	2,4-Dimethylphenol	26	J	3800	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 6000	3800		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	30	J	87	J	µg/kg	OU3-A1-SB11-0002	2/12	350 - 15000	87		19000 nc		NO	NTX
95-48-7	2-Methylphenol	210	J	390	J	µg/kg	OU3-A1-SB11-0002	4/12	350 - 15000	390		3100000 nc		NO	BSL
91-94-1	3,3'-Dichlorobenzidine	540	J	540	J	µg/kg	MFP-5	1/12	350 - 15000	540		3800 ca		NO	BSL
106-44-5	4-Methylphenol	40	J	620	J	µg/kg	MFP-5	8/12	380 - 15000	620		310000 nc		NO	BSL
100-02-7	4-Nitrophenol	80	J	80	J	µg/kg	OU3-A1-SB11-0002	1/12	880 - 38000	80		700000 nc		NO	BSL
83-32-9	Acenaphthene	26	J	890	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 4500	890		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	23	J	280	J	µg/kg	OU6-SO-PP-101-0810	5/12	380 - 15000	280		19000 nc		NO	NTX
120-12-7	Anthracene	33	J	1200	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 4500	1200		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	26	JEB	130	JEB	µg/kg	OU6-SO-PP-101-0204	3/4	350 - 350	130		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	40	J	3200	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	3200		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	41	J	2000	J	µg/kg	MFP-5, OU3-A1-SB03-0608-MAX	12/12	0 - 0	2000		210 ca		YES	ASL

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
205-99-2	Benzo(b)fluoranthene	40	J	2900	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	2900		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	110	J	600	J	µg/kg	MF-SO-SB6-0204	9/12	380 - 15000	600		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	37	J	3000	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	4500 - 4500	3000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	1500		1500		µg/kg	OU3-A1-SB11-0002	1/12	350 - 15000	1500		120000 ca*		NO	BSL
85-68-7	Butylbenzylphthalate	32	J	470	J	µg/kg	OU6-SO-PP-101-0204	2/12	380 - 15000	470		10000000 nc		NO	BSL
86-74-8	Carbazole	26	J	970	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 4500	970		86000 ca		NO	BSL
218-01-9	Chrysene	51	J	11000	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	11000		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	36	J	210	J	µg/kg	OU6-SO-PP-101-0810	4/12	380 - 15000	210		210 ca		NO	BSL
132-64-9	Dibenzofuran	34	J	480	J	µg/kg	MFP-5	5/12	350 - 15000	480		310000 nc		NO	BSL
84-66-2	Diethylphthalate	54	J	54	J	µg/kg	OU3-A1-SB11-0002	1/12	350 - 15000	54		10000000 nc		NO	BSL
131-11-3	Dimethylphthalate	150	J	280	J	µg/kg	MFP-1	2/12	350 - 15000	280		10000000 max		NO	BSL
84-74-2	Di-n-Butylphthalate	32		1200	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 4500	1200		6200000 nc		NO	BSL
206-44-0	Fluoranthene	86	J	8600	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	8600		2200000 nc		NO	BSL
86-73-7	Fluorene	43	J	1200	J	µg/kg	OU3-A1-SB03-0608-MAX	5/12	350 - 4500	1200		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	27	J	1400	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	1400		2100 ca		NO	BSL
91-20-3	Naphthalene	28	J	1100	J	µg/kg	OU3-A1-SB03-0608-MAX	6/12	350 - 6000	1100		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	36	J	1300	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 6000	1300		350000 ca		NO	BSL
87-86-5	Pentachlorophenol	30	J	30	J	µg/kg	OU3-A1-SB11-0002	1/12	880 - 38000	30		9000 ca		NO	BSL
85-01-8	Phenanthrene	50	J	9400	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	9400		10000000 nc		NO	NTX
108-95-2	Phenol	120	JEB	2200		µg/kg	MFP-2	8/12	380 - 15000	2200		10000000 nc		NO	BSL
129-00-0	Pyrene	110	J	8700	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	8700		2900000 nc		NO	BSL
TOTPAH	Total PAH	843		54590		µg/kg	OU3-A1-SB03-0608-MAX	2/2	0 - 0	54590				NO	NTX
72-54-8	4,4'-DDD	8.3	J	11		µg/kg	OU6-SO-PP-101-0810	2/14	3.8 - 94	11	4.6	10000 ca		NO	BSL

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
72-55-9	4,4'-DDE	8		2400	*	µg/kg	OU6-SO-PP-101-0204	7/14	3.8 - 94	2400	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	24		37		µg/kg	OU6-SO-PP-101-0608	2/13	3.8 - 94	37	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.4		76		µg/kg	OU6-SO-PP-101-0204	6/14	2 - 31	76	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	259.5		413300		µg/kg	MFP-5	14/14	0 - 0	413300		1000 ca		YES	ASL
11097-69-1	Aroclor-1254	1300		210000	*	µg/kg	OU6-SO-PP-101-0204	4/14	38 - 3300	210000	46.1	740 ca**		YES	ASL
37324-23-5	Aroclor-1262	150		130000	J	µg/kg	MFP-5	13/14	39 - 39	130000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	87		270000		µg/kg	MFP-5	14/14	0 - 0	270000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	4.4	J	4.4	J	µg/kg	MFP-2	1/14	2 - 49	4.4	2.39	1300 ca	6000	NO	BSL
319-86-8	delta-BHC	9.2	J	9.2	J	µg/kg	PP EF+100	1/14	2 - 49	9.2	2.32	1300 ca*		NO	NTX
60-57-1	Dieldrin	6.7		3000	*	µg/kg	OU6-SO-PP-101-0204	6/14	3.8 - 94	3000	13.1	110 ca	1000	YES	ASL
959-98-8	Endosulfan I	66	J	66	J	µg/kg	PP EF+100	1/14	2 - 49	66	4.52	370000 nc		NO	NTX
33213-65-9	Endosulfan II	22		22		µg/kg	OU3-A1-SB11-0002	1/14	3.8 - 94	22	4.72	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	320	*#	5500	*#	µg/kg	OU6-SO-PP-101-0204	5/14	3.8 - 94	5500	4.69	370000 nc		NO	NTX
72-20-8	Endrin	80		80		µg/kg	OU6-SO-PP-101-0204	1/14	3.8 - 94	80	4.77	18000 nc		NO	BSL
7421-93-4	Endrin Aldehyde	7.8		5400	*#	µg/kg	OU6-SO-PP-101-0204	6/14	3.8 - 350	5400	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	12		12		µg/kg	OU3-A1-SB11-0002	1/14	3.8 - 94	12	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	9.7	J	130	J	µg/kg	MFP-5	3/13	2 - 25	130	2.67	6500 ca	72000	NO	NTX
76-44-8	Heptachlor	12	J	12	J	µg/kg	PP EF+100	1/14	2 - 49	12	2.19	380 ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	9		14	J	µg/kg	MF-SO-SB6-0204	3/14	2 - 31	14	2.33	190 ca*	5000	NO	BSL
72-43-5	Methoxychlor	44		1100		µg/kg	OU6-SO-PP-101-0204	3/14	20 - 490	1100	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.012	J	16.794	J	µg/kg	MFP-5	11/11	0 - 0	16.794		0.027 ca		YES	ASL
7429-90-5	Aluminum	2950		18900	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	18900	12900			NO	EPA-I
7440-36-0	Antimony	1.3	J	17.8	J	mg/kg	OU6-SO-PP-101-0204	5/7	1.6 - 5.9	17.8	2.86	41 nc		NO	BSL

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-38-2	Arsenic	0.9		21.9		mg/kg	OU3-A1-SB11-0002	13/14	1.6 - 1.6	21.9	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	29.4		17000		mg/kg	MFP-5	14/14	0 - 0	17000	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.23		0.86		mg/kg	PP EF+100	10/14	0.21 - 0.28	0.86	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.19		27.7		mg/kg	OU6-SO-PP-101-0204	11/14	0.085 - 1.2	27.7	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	570	J	10700		mg/kg	MF-SO-SB6-0204	14/14	0 - 0	10700	1600			NO	NUT
7440-47-3	Chromium	6.3		906		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	906	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	1.8		74.6		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	74.6	6.35			NO	EPA-I
7440-50-8	Copper	14		59400	J	mg/kg	OU6-SO-PP-101-0204	26/28	300 - 300	59400	28.8			NO	EPA-I
7439-89-6	Iron	6600		199000		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	199000	16000			NO	EPA-I
7439-92-1	Lead	10		24700		mg/kg	MFP-5	37/41	9 - 100	24700	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	1300		81600		mg/kg	MFP-1	14/14	0 - 0	81600	3250			NO	NUT
7439-96-5	Manganese	48.8		1020	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	1020	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.07	J	0.93		mg/kg	OU6-SO-PP-101-0204	8/14	0.05 - 0.076	0.93	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	4.4		530		mg/kg	MFP-1	14/14	0 - 0	530	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	565		2420		mg/kg	OU6-SO-PP-101-0002	11/14	266 - 736	2420	961			NO	NUT
7782-49-2	Selenium	1.1	J	10.8		mg/kg	OU6-SO-PP-101-0204	5/14	0.52 - 5.5	10.8	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.23	J	41.8		mg/kg	OU6-SO-PP-101-0204	10/14	0.23 - 1.6	41.8	0.508	510 nc		NO	BSL
7440-23-5	Sodium	104		42500		mg/kg	MFP-5	10/14	108 - 336	42500	76.4			NO	NUT
7440-28-0	Thallium	3.6	J	13.2	J	mg/kg	OU6-SO-PP-101-0204	2/14	0.42 - 3.2	13.2	0.368	6.7 nc		YES	ASL
7440-62-2	Vanadium	11.5	J	131		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	131	34.2	720 nc		NO	BSL
7440-66-6	Zinc	27.2		4450	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	4450	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.99		90		%	MFP-5	40/41	0.1 - 0.1	90		1		YES	ASL

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	44		44		µg/kg	MF-SO-MW102-0406-MAX	1/10	11 - 110	44		120000	sat	1200000	NO	BSL
75-34-3	1,1-Dichloroethane	5	J	150		µg/kg	MF-SO-MW103-0810-MAX	3/10	11 - 110	150		170000	nc	1200000	NO	BSL
540-59-0	1,2-Dichloroethene (total)	11	J	66		µg/kg	MF-SO-MW103-0810-MAX	2/10	11 - 110	66		4300	nc		NO	NTX
78-93-3	2-Butanone	250		250		µg/kg	MF-SO-SB7-1416-MAX	1/10	11 - 110	250		2700000	nc		NO	BSL
67-64-1	Acetone	51	J	810		µg/kg	MF-SO-SB7-1416-MAX	3/10	13 - 240	810		600000	nc		NO	BSL
75-15-0	Carbon Disulfide	10	J	130		µg/kg	MF-SO-MW103-1416	3/10	11 - 19	130		72000	nc	720000	NO	BSL
127-18-4	Tetrachloroethene	26		29	J	µg/kg	MF-SO-MW103-0810-MAX	2/10	11 - 110	29		3400	ca*	10000	NO	BSL
79-01-6	Trichloroethene	5	J	120		µg/kg	MF-SO-MW103-0810-MAX	3/10	11 - 110	120		110	ca	5000	YES	ASL
105-67-9	2,4-Dimethylphenol	240	J	2200	J	µg/kg	MF-SO-MW103-0810-MAX	7/14	410 - 12000	2200		1200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	37	J	460		µg/kg	MF-SO-MW102-0406-MAX	8/14	410 - 12000	460		19000	nc		NO	NTX
95-48-7	2-Methylphenol	110	J	790		µg/kg	MF-SO-MW102-0406-MAX	8/14	410 - 12000	790		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	210	J	4800	J	µg/kg	MF-SO-MW103-0810-MAX	9/14	410 - 12000	4800		310000	nc		NO	BSL
100-02-7	4-Nitrophenol	460	J	460	J	µg/kg	MF-SO-MW103-0810-MAX	1/14	920 - 30000	460		700000	nc		NO	BSL
83-32-9	Acenaphthene	74	J	290	J	µg/kg	MF-SO-SB7-0406	5/14	370 - 12000	290		2900000	nc		NO	BSL
208-96-8	Acenaphthylene	31	J	830	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	830		19000	nc		NO	NTX
120-12-7	Anthracene	26	J	1300	J	µg/kg	MF-SO-SB7-0406	7/14	370 - 12000	1300		10000000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	74	J	3600		µg/kg	MF-SO-SB7-1416-MAX	7/14	410 - 12000	3600		2100	ca		YES	ASL
50-32-8	Benzo(a)pyrene	88	J	2500	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2500		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	96	J	5000		µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	5000		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	63	J	2100	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2100		2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	76	J	860		µg/kg	MFP-6-MAX	7/14	410 - 12000	860		21000	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	110	J	3900		µg/kg	MF-SO-MW102-0406-MAX	7/14	410 - 12000	3900		120000	ca*		NO	BSL
85-68-7	Butylbenzylphthalate	50	J	50	J	µg/kg	MF-SO-SB2-1416	1/14	370 - 12000	50		10000000	nc		NO	BSL
86-74-8	Carbazole	50	J	680	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	680		86000	ca		NO	BSL

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
218-01-9	Chrysene	150	J	3400		µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	3400		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	47	J	170		µg/kg	MFP-6-MAX	3/14	410 - 12000	170		210	ca		NO	BSL
132-64-9	Dibenzofuran	50	J	910	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	910		310000	nc		NO	BSL
84-66-2	Diethylphthalate	62	JTB	62	JTB	µg/kg	OU3-A1-SS01-0204	1/14	370 - 12000	62		10000000	nc		NO	BSL
131-11-3	Dimethylphthalate	67	J	460		µg/kg	MF-SO-MW102-0406-MAX	4/14	370 - 12000	460		10000000	max		NO	BSL
84-74-2	Di-n-Butylphthalate	55	J	620	J	µg/kg	MF-SO-TP2-0506	6/14	370 - 12000	620		6200000	nc		NO	BSL
117-84-0	Di-n-octylphthalate	72	J	310		µg/kg	MFP-6-MAX	2/14	370 - 12000	310		2500000	nc		NO	BSL
206-44-0	Fluoranthene	46	J	8800	J	µg/kg	MF-SO-SB7-1416-MAX	9/14	630 - 4100	8800		2200000	nc		NO	BSL
86-73-7	Fluorene	84	J	830	J	µg/kg	MF-SO-SB7-0406	6/14	370 - 12000	830		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	65	J	2200	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2200		2100	ca		YES	ASL
91-20-3	Naphthalene	51	J	440	J	µg/kg	MF-SO-MW103-0810-MAX	9/14	410 - 12000	440		19000	nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	140	J	190	J	µg/kg	MF-SO-SB7-1416-MAX	2/14	370 - 12000	190		350000	ca		NO	BSL
85-01-8	Phenanthrene	180	J	8100	J	µg/kg	MF-SO-SB7-0406	10/14	410 - 12000	8100		10000000	nc		NO	NTX
108-95-2	Phenol	480	J	6100		µg/kg	MFP-6-MAX	7/14	410 - 12000	6100		10000000	nc		NO	BSL
129-00-0	Pyrene	160	J	8300	J	µg/kg	MF-SO-SB7-1416-MAX	11/14	410 - 4100	8300		2900000	nc		NO	BSL
TOTPAH	Total PAH	1567		42630		µg/kg	MF-SO-SB7-1416-MAX	5/5	0 - 0	42630					NO	NTX
72-54-8	4,4'-DDD	3.9	J	3.9	J	µg/kg	MF-SO-SB7-0406	1/15	3.6 - 89	3.9	4.6	10000	ca		NO	BSL
72-55-9	4,4'-DDE	3.3	J	66	J	µg/kg	MF-SO-SB7-1416-MAX	3/14	3.6 - 62	66	16.7	7000	ca		NO	BSL
309-00-2	Aldrin	0.98	J	37	J	µg/kg	MF-SO-SB7-1416-MAX	3/15	1.8 - 32	37	2.41	100	ca*	3000	NO	BSL
319-84-6	alpha-BHC	0.76	J	0.76	J	µg/kg	MF A+400	1/15	1.8 - 46	0.76	2.41	360	ca	700	NO	BSL
5103-71-9	alpha-Chlordane	1.2	J	31	J	µg/kg	MF-SO-SB7-1416-MAX	6/15	1.8 - 32	31	4.88	6500	ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	356.5		97525		µg/kg	MF-SO-SB7-1416-MAX	15/15	0 - 0	97525		1000	ca		YES	ASL
12672-29-6	Aroclor-1248	190		650		µg/kg	MF-SO-MW103-0810-MAX	3/15	49 - 890	650	46.1	740	ca		NO	BSL
11097-69-1	Aroclor-1254	8400	*J	8400	*J	µg/kg	MF-SO-SB7-1416-MAX	1/15	36 - 620	8400	46.1	740	ca**		YES	ASL

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
11096-82-5	Aroclor-1260	650		650		µg/kg	MF-SO-MW103-0810-MAX	1/15	36 - 890	650	46.1	740 ca		NO	BSL
37324-23-5	Aroclor-1262	76	J	36000	*J	µg/kg	MF-SO-SB7-1416-MAX	13/14	77 - 77	36000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	34	J	50000	*J	µg/kg	MF-SO-SB7-1416-MAX	15/15	0 - 0	50000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	3.5	J	3.5	J	µg/kg	MF-SO-SB4-1214	1/13	1.8 - 46	3.5	2.39	1300 ca	6000	NO	BSL
319-86-8	delta-BHC	4		4		µg/kg	MFP-6-MAX	1/15	1.8 - 46	4	2.32	1300 ca*		NO	NTX
60-57-1	Dieldrin	8.2	J	23	J	µg/kg	MF-SO-SB7-1416-MAX	2/15	3.6 - 46	23	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	1.4	J	11	J	µg/kg	MF-SO-SB7-0406, MF-SO-SB7-1416-MAX	4/15	1.8 - 32	11	4.52	370000 nc		NO	NTX
33213-65-9	Endosulfan II	5.2	J	5.2	J	µg/kg	MF A+400	1/15	3.6 - 89	5.2	4.72	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	2.1	J	10	J	µg/kg	MF-SO-SB7-0406	2/15	3.6 - 89	10	4.69	370000 nc		NO	NTX
72-20-8	Endrin	0.71	J	5.7		µg/kg	MF-SO-MW102-0406-MAX	2/15	3.6 - 89	5.7	4.77	18000 nc		NO	BSL
7421-93-4	Endrin Aldehyde	8.9	J	18	J	µg/kg	MF-SO-SB7-0406	4/15	4.9 - 89	18	4.56	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	1.2	J	67	J	µg/kg	MF-SO-SB7-1416-MAX	6/13	1.8 - 17	67	2.67	6500 ca	72000	NO	NTX
76-44-8	Heptachlor	1.2	J	1.2	J	µg/kg	MF A+400	1/15	1.8 - 46	1.2	2.19	380 ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	1.7	J	63	J	µg/kg	MF-SO-SB7-1416-MAX	3/13	1.8 - 32	63	2.33	190 ca*	5000	NO	BSL
72-43-5	Methoxychlor	17	J	17	J	µg/kg	MF A+400	1/15	18 - 460	17	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.00068	J	1.03	J	µg/kg	MF-SO-SB4-0204	8/12	0.249673 - 0.6084675	1.03		0.027 ca		YES	ASL
7429-90-5	Aluminum	1160		19600		mg/kg	MF-SO-MW103-1416	17/17	0 - 0	19600	12900			NO	EPA-I
7440-36-0	Antimony	4.2	J	16.5	J	mg/kg	MF A+400	2/15	1.2 - 7.2	16.5	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	4.4	J	263	J	mg/kg	MF-SO-SB2-1416	17/17	0 - 0	263	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	50.1		10900		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	10900	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.29		2		mg/kg	MF-SO-SB2-1416	8/17	0.18 - 0.8	2	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	4.4		6.3		mg/kg	MF A+400	3/15	0.22 - 3.3	6.3	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	647		9720	J	mg/kg	MF-SO-SB7-0406	16/17	1930 - 1930	9720	1600			NO	NUT

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-47-3	Chromium	12.5		240		mg/kg	MF A+400	17/17	0 - 0	240	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	5.2		27.9		mg/kg	MF A+400	17/17	0 - 0	27.9	6.35				NO	EPA-I
7440-50-8	Copper	21		97900		mg/kg	MF-SO-MW103-0608	35/40	150 - 200	97900	28.8				NO	EPA-I
7439-89-6	Iron	16000		89900		mg/kg	MF-SO-MW103-0810-MAX	17/17	0 - 0	89900	16000				NO	EPA-I
7439-92-1	Lead	9		25600	J	mg/kg	MF-SO-MW103-0608	68/81	9 - 100	25600	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	421		68600		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	68600	3250				NO	NUT
7439-96-5	Manganese	21.7		442		mg/kg	MF-SO-MW103-0810-MAX	17/17	0 - 0	442	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.17	J	3.2		mg/kg	MF-SO-SB2-1416	12/17	0.05 - 0.21	3.2	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	14.3	J	566		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	566	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	401		3260		mg/kg	MF-SO-MW103-1416	14/17	255 - 421	3260	961				NO	NUT
7782-49-2	Selenium	0.52	J	8.8		mg/kg	MF-SO-SB2-1416	8/17	0.79 - 3.2	8.8	0.499	510	nc		NO	BSL
7440-22-4	Silver	0.78	J	7.2	J	mg/kg	MF-SO-MW103-0608	10/17	0.5 - 1.5	7.2	0.508	510	nc		NO	BSL
7440-23-5	Sodium	211		2730		mg/kg	MF-SO-MW103-1416	5/17	47.5 - 1160	2730	76.4				NO	NUT
7440-28-0	Thallium	1.5		4.5		mg/kg	MF-SO-TP2-0506	2/17	0.49 - 3.5	4.5	0.368	6.7	nc		NO	BSL
7440-62-2	Vanadium	10.8	, J	97.5	J	mg/kg	OU3-A1-SS01-0002-MAX	17/17	0 - 0	97.5	34.2	720	nc		NO	BSL
7440-66-6	Zinc	41.3		24000	J	mg/kg	MF-SO-MW103-0608	17/17	0 - 0	24000	112	10000	nc		YES	ASL
ASBESTOS	Asbestos	0.9		85		%	MF-SO-MW103-1012	69/80	0.1 - 0.1	85		1			YES	ASL

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
- N/A = Not Applicable
- SQL = Sample Quantitation Limit
- COPC = Chemical of Potential Concern
- ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
- J = Estimated Value
- EB = present in equipment blank
- * = From dilution analysis or estimated maximum possible concentration
- # = Possible false positive due to interference
- ca = Carcinogenic
- ca* = where nc < 100X ca
- ca** = where nc < 10X ca
- nc = Non-Carcinogenic
- sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
- max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	2	J	2	J	µg/kg	OU6-SO-VPA95-106-0204	1/11	4 - 22	2		120000	sat	1200000	NO	BSL
75-34-3	1,1-Dichloroethane	190		190		µg/kg	OU6-SO-VPA95-106-0406	1/11	4 - 22	190		170000	nc	1200000	NO	BSL
75-35-4	1,1-Dichloroethene	57		57		µg/kg	OU6-SO-VPA95-106-0406	1/11	4 - 22	57		41000	nc	70	NO	BSL
78-93-3	2-Butanone	2	J	52		µg/kg	OU2-SO-503-0204-MAX	11/11	0 - 0	52		2700000	nc		NO	BSL
67-64-1	Acetone	120	J	270	J	µg/kg	OU3-A1-SB07-0608	4/11	15 - 94	270		600000	nc		NO	BSL
71-43-2	Benzene	0.5	J	13	J	µg/kg	OU6-SO-VPA95-106-0406	3/11	6 - 22	13		1300	ca*	800	NO	BSL
74-83-9	Bromomethane	2		3	J	µg/kg	OU6-SO-VPA95-106-0002	2/11	4 - 22	3		1300	nc	9000	NO	BSL
75-15-0	Carbon Disulfide	2	J	76		µg/kg	OU6-SO-VPA95-106-0204	8/11	6 - 22	76		72000	nc	720000	NO	BSL
67-66-3	Chloroform	1	J	1	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	1		1200	ca/nc	300	NO	BSL
74-87-3	Chloromethane	0.8	J	0.8	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	0.8		2600	ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	3		260		µg/kg	OU6-SO-VPA95-106-0406	2/9	4 - 21	260		15000	nc		NO	BSL
110-82-7	Cyclohexane	4	J	4	J	µg/kg	OU2-SO-503-0608	1/9	4 - 21	4		14000	sat		NO	BSL
79-20-9	Methyl Acetate	15	J	15	J	µg/kg	OU6-SO-VPA95-106-0002	1/9	4 - 21	15		9200000	nc		NO	BSL
108-87-2	Methylcyclohexane	2	J	2	J	µg/kg	OU2-SO-503-0608	1/9	4 - 21	2		870000	nc		NO	BSL
75-09-2	Methylene Chloride	2	J	2	J	µg/kg	OU2-SO-503-0002	1/11	4 - 22	2		21000	ca	13000	NO	BSL
127-18-4	Tetrachloroethene	1	J	1	J	µg/kg	OU6-SO-VPA95-106-0204	1/11	4 - 22	1		3400	ca*	10000	NO	BSL
108-88-3	Toluene	0.9	J	8	J	µg/kg	OU6-SO-VPA95-106-0002	4/11	4 - 22	8		52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	1	J	1	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	1		42000	nc		NO	BSL
156-60-5	trans-1,2-Dichloroethene	17	J	17	J	µg/kg	OU6-SO-VPA95-106-0406	1/9	4 - 21	17		23000	nc		NO	BSL
79-01-6	Trichloroethene	2		2		µg/kg	OU2-SO-503-0204-MAX	1/11	4 - 22	2		110	ca	5000	NO	BSL
75-01-4	Vinyl Chloride	6	J	41		µg/kg	OU6-SO-VPA95-106-0406	2/11	4 - 21	41		750	ca	600	NO	BSL
105-67-9	2,4-Dimethylphenol	160	J	160	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	160		1200000	nc		NO	BSL
95-48-7	2-Methylphenol	380	J	380	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	380		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	370	J	370	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	370		310000	nc		NO	BSL
208-96-8	Acenaphthylene	160	J	740	J	µg/kg	OU3-A1-SB07-0608	6/11	400 - 2500	740		19000	nc		NO	BSL
120-12-7	Anthracene	120	J	580	J	µg/kg	OU3-A1-SB07-0608	6/11	400 - 2500	580		10000000	nc		NO	BSL
100-52-7	Benzaldehyde	46	JEB	46	JEB	µg/kg	OU6-SO-VPA95-106-0406	1/7	340 - 2500	46		6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	36	J	1900	J	µg/kg	OU3-A1-SB07-0608	8/8	0 - 0	1900		2100	ca		NO	BSL
50-32-8	Benzo(a)pyrene	41	J	2300	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2300		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	41	J	3300		µg/kg	OU3-A1-SS05-0204	9/11	460 - 580	3300		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	46	J	2000	J	µg/kg	OU3-A1-SB07-0608	8/11	400 - 580	2000		2900000	nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	40	J	2200	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2200		21000	ca		NO	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
117-81-7	bis(2-Ethylhexyl)phthalate	22	JEB	3600		µg/kg	OU6-SO-VPA95-106-0002	7/11	580 - 2500	3600		120000	ca*		NO	BSL
85-68-7	Butylbenzylphthalate	59		140	J	µg/kg	OU3-A1-SS05-0002	2/11	340 - 2500	140		10000000	nc		NO	BSL
86-74-8	Carbazole	38	J	190	J	µg/kg	OU3-A1-SB07-0608	4/9	400 - 2500	190		86000	ca		NO	BSL
218-01-9	Chrysene	52	J	2600		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2600		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	140	J	400	J	µg/kg	OU3-A1-SS05-0204	4/11	400 - 2500	400		210	ca		YES	ASL
132-64-9	Dibenzofuran	46		46		µg/kg	OU2-SO-503-0204-MAX	1/11	340 - 2500	46		310000	nc		NO	BSL
84-74-2	Di-n-Butylphthalate	48		210	JEB	µg/kg	OU6-SO-VPA95-106-0204	2/11	340 - 2400	210		6200000	nc		NO	BSL
117-84-0	Di-n-octylphthalate	570	J	570	J	µg/kg	OU6-SO-VPA95-106-0002	1/11	340 - 2500	570		2500000	nc		NO	BSL
206-44-0	Fluoranthene	82	J	3700		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	3700		2200000	nc		NO	BSL
86-73-7	Fluorene	63		260	J	µg/kg	OU3-A1-SB07-0608	4/11	340 - 2500	260		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	27	J	1700	J	µg/kg	OU3-A1-SB07-0608	9/9	0 - 0	1700		2100	ca		NO	BSL
91-20-3	Naphthalene	150	J	200	J	µg/kg	OU3-A1-SS05-0204	2/11	340 - 2500	200		19000	nc	170000	NO	BSL
85-01-8	Phenanthrene	41	J	2000	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2000		10000000	nc		NO	BSL
108-95-2	Phenol	86	JEB	9800	J	µg/kg	OU3-A1-SB07-0608	7/10	400 - 700	9800		10000000	nc		NO	BSL
129-00-0	Pyrene	78	J	3800		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	3800		2900000	nc		NO	BSL
72-54-8	4,4'-DDD	13		21		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.4 - 45	21	4.6	10000	ca		NO	BSL
72-55-9	4,4'-DDE	4.6		13		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.4 - 45	13	16.7	7000	ca		NO	BSL
50-29-3	4,4'-DDT	14	#	34		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.5 - 45	34	29.1	7000	ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.4		2.4		µg/kg	OU2-SO-503-0002	1/13	1.8 - 23	2.4	4.88	6500	ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	243.5		22600		µg/kg	OU6-SO-VPA95-105-0406	12/14	35 - 72	22600		1000	ca		YES	ASL
12672-29-6	Aroclor-1248	44	J	44	J	µg/kg	OU3-A1-SS05-0204	1/14	34 - 1900	44	46.1	740	ca		NO	BSL
37324-23-5	Aroclor-1262	72	J	980	J	µg/kg	OU3-A1-SB07-0608	3/14	34 - 1900	980	36.8	1000	ca		NO	BSL
11100-14-4	Aroclor-1268	63		15000		µg/kg	OU6-SO-VPA95-105-0406	12/14	35 - 72	15000	46.1	1000	ca		YES	ASL
319-85-7	beta-BHC	3.1		3.1		µg/kg	OU2-SO-503-0204-MAX	1/13	1.8 - 23	3.1	2.39	1300	ca	6000	NO	BSL
60-57-1	Dieldrin	7.8		7.8		µg/kg	OU3-A1-SS05-0002	1/13	3.4 - 45	7.8	13.1	110	ca	1000	NO	BSL
1031-07-8	Endosulfan Sulfate	13	#	630	#	µg/kg	OU6-SO-VPA95-106-0002	7/13	3.5 - 7.2	630	4.69	370000	nc		NO	BSL
7421-93-4	Endrin Aldehyde	4.3	#	120	#	µg/kg	OU6-SO-VPA95-106-0002	8/13	3.5 - 7.2	120	4.56	18000	nc		NO	BSL
5103-74-2	gamma-Chlordane	2.9		3.9		µg/kg	OU3-A1-SB07-0608	2/13	1.8 - 23	3.9	2.67	6500	ca	72000	NO	BSL
72-43-5	Methoxychlor	34		34		µg/kg	OU2-SO-503-0204-MAX	1/13	18 - 230	34	22.3	310000	nc		NO	BSL
TE	Toxicity Equivalency	0.0022	J	0.0869		µg/kg	OU6-SO-VPA95-106-0002	6/6	0 - 0	0.0869		0.027	ca		YES	ASL
7429-90-5	Aluminum	5790		24700		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	24700	12900		nc		NO	EPA-I
7440-36-0	Antimony	1.8	J	3.4	J	mg/kg	OU6-SO-VPA95-106-0002	2/11	0.88 - 2.4	3.4	2.86	41	nc		NO	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-38-2	Arsenic	3.6	J	18.7		mg/kg	OU2-SO-503-0204-MAX	7/13	1.6 - 4.6	18.7	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	43.5		3820		mg/kg	OU3-A1-SB07-0608	13/13	0 - 0	3820	57.5	6700	nc	710000	NO	BSL
7440-41-7	Beryllium	0.57		0.8		mg/kg	OU2-SO-503-0810	6/13	0.22 - 0.55	0.8	0.719	1900	nc	1400	NO	BSL
7440-43-9	Cadmium	0.47		1.3		mg/kg	OU6-SO-VPA95-106-0002	7/13	0.077 - 0.46	1.3	0.397	45	nc	1800	NO	BSL
7440-70-2	Calcium	2420		30200		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	30200	1600				NO	NUT
7440-47-3	Chromium	11.2		68.5		mg/kg	OU3-A1-SB07-0608	13/13	0 - 0	68.5	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	3		14.4	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	14.4	6.35		ca**		NO	EPA-I
7440-50-8	Copper	22.3		3720		mg/kg	OU6-SO-VPA95-107-0002	18/24	300 - 300	3720	28.8		nc		NO	EPA-I
7439-89-6	Iron	9670		29900		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	29900	16000		nc		NO	EPA-I
7439-92-1	Lead	22	J	7360		mg/kg	OU6-SO-VPA95-107-0204	19/25	100 - 100	7360	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	2500		24300		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	24300	3250				NO	NUT
7439-96-5	Manganese	80		308		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	308	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.17	J	0.7		mg/kg	OU6-SO-VPA95-106-0002	5/13	0.06 - 0.21	0.7	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	7		80.9		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	80.9	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	1020		3520	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	3520	961				NO	NUT
7782-49-2	Selenium	2.4	J	2.4	J	mg/kg	OU3-A1-SS05-0204	1/13	0.54 - 3.5	2.4	0.499	510	nc		NO	BSL
7440-22-4	Silver	0.71	J	1	, J	mg/kg	OU3-A1-SB07-0608, OU6-SO-VPA95-106-0406	4/13	0.21 - 0.78	1	0.508	510	nc		NO	BSL
7440-23-5	Sodium	539		2320	J	mg/kg	OU3-A1-SS05-0204	6/13	39.8 - 266	2320	76.4				NO	NUT
7440-62-2	Vanadium	15.4	J	53	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	53	34.2	720	nc		NO	BSL
7440-66-6	Zinc	29.5		223	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	223	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.9	, *	40		%	OU6-SO-VPA95-107-0002	21/25	0.1 - 0.1	40	0.99	1			YES	ASL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.
(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.
(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1
(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.
(5) Rationale Codes Selection Reason:
Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason:
Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)
EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
108-88-3	Toluene	7	J	7	J	µg/kg	OU6-SO-FB191-201-1214	1/6	7 - 9	7		52000 sat	650000	NO	BSL
79-01-6	Trichloroethene	1	J	1	J	µg/kg	OU6-SO-FB191-201-0608	1/6	7 - 12	1		110 ca	5000	NO	BSL
92-52-4	1,1'-Biphenyl	140	J	140	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	140		35000 sat		NO	BSL
91-57-6	2-Methylnaphthalene	37	J	610		µg/kg	OU6-SO-FB191-201-1214	3/10	330 - 2600	610		19000 nc		NO	BSL
83-32-9	Acenaphthene	39	J	2000	J	µg/kg	OU3-A1-SD04-0204	6/10	360 - 370	2000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	72	J	740		µg/kg	OU3-A1-SB02-0002	10/10	0 - 0	740		19000 nc		NO	BSL
120-12-7	Anthracene	52	J	940		µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	940		10000000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	380		3200		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	3200		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	440		2700		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2700		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	530		6000	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	6000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	160	J	870	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	870		2900000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	540		6000	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	6000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	41	JEB	4200		µg/kg	OU3-A1-SD04-0204	3/10	360 - 410	4200		120000 ca*		NO	BSL
86-74-8	Carbazole	36	J	350		µg/kg	OU6-SO-FB191-201-0002-MAX	10/10	0 - 0	350		86000 ca		NO	BSL
218-01-9	Chrysene	510		3900		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	3900		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	96	J	280		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	330 - 2600	280		210 ca		YES	ASL
132-64-9	Dibenzofuran	42	J	460		µg/kg	OU6-SO-FB191-201-1214	7/10	330 - 370	460		310000 nc		NO	BSL
206-44-0	Fluoranthene	970		14000		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	14000		2200000 nc		NO	BSL
86-73-7	Fluorene	29	J	1100		µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	1100		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	1600		µg/kg	OU3-A1-SB02-0002	10/10	0 - 0	1600		2100 ca		NO	BSL
91-20-3	Naphthalene	46	J	290	J	µg/kg	OU3-A1-SD04-0204, OU6-SO-FB191-201-1214	3/10	330 - 390	290		19000 nc	170000	NO	BSL
85-01-8	Phenanthrene	400		4900	*J	µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	4900		10000000 nc		NO	BSL
108-95-2	Phenol	740	J	740	J	µg/kg	OU3-A1-SD04-0204	1/10	330 - 710	740		10000000 nc		NO	BSL
129-00-0	Pyrene	830		10000		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	10000		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	5.1		17	J	µg/kg	OU6-SO-FB191-201-0810	6/10	3.6 - 3.7	17	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	1.8	J	100		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	2.6 - 3.8	100	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	12	#	510		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	2.6 - 3.6	510	29.1	7000 ca*		NO	BSL
319-84-6	alpha-BHC	0.083	J	0.26	J	µg/kg	OU3-A1-SD04-0002	2/10	1.9 - 2	0.26	2.41	360 ca	700	NO	BSL
5103-71-9	alpha-Chlordane	0.78	J	7.8		µg/kg	OU6-SO-FB191-201-0002-MAX	3/10	1.3 - 2	7.8	4.88	6500 ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	193.5		7580		µg/kg	OU6-SO-FBROW-105-0406	11/11	0 - 0	7580		1000 ca		YES	ASL
37324-23-5	Aroclor-1262	290	J	4600	*J	µg/kg	OU6-SO-FB191-201-0406	8/11	37 - 970	4600	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	30	J	3700		µg/kg	OU6-SO-FBROW-105-0406	11/11	0 - 0	3700	46.1	1000 ca		YES	ASL

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
319-86-8	delta-BHC	1.1	J	1.6		µg/kg	OU3-A1-SD04-0204	2/10	1.9 - 2	1.6	2.32	1300	ca*		NO	BSL
33213-65-9	Endosulfan II	8.3		8.3		µg/kg	OU3-A1-SB02-0002	1/8	3.6 - 3.9	8.3	4.72	370000	nc		NO	BSL
1031-07-8	Endosulfan Sulfate	1.6	J	8.9		µg/kg	OU3-A1-SB02-0002	2/10	2.6 - 3.9	8.9	4.69	370000	nc		NO	BSL
72-20-8	Endrin	0.46	J	0.46	J	µg/kg	OU3-A1-SD04-0002	1/10	2.6 - 3.9	0.46	4.77	18000	nc		NO	BSL
7421-93-4	Endrin Aldehyde	39		39		µg/kg	OU3-A1-SD04-0204	1/10	3.3 - 3.9	39	4.56	18000	nc		NO	BSL
53494-70-5	Endrin Ketone	4.2	#	11	J#	µg/kg	OU6-SO-FB191-201-0608	2/10	2.6 - 3.9	11	5.31	18000	nc		NO	BSL
5103-74-2	gamma-Chlordane	1.7	J	6.3		µg/kg	OU6-SO-FB191-201-0002-MAX	5/10	1.3 - 2	6.3	2.67	1600	ca	72000	NO	BSL
76-44-8	Heptachlor	0.86	J	1.1	J	µg/kg	OU3-A1-SD04-0204	2/10	1.9 - 2	1.1	2.19	380	ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	0.22	J	0.22	J	µg/kg	OU3-A1-SD04-0002	1/10	1.3 - 2	0.22	2.33	190	ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.026		0.026		µg/kg	OU6-SO-FB191-201-0002-MAX	1/1	0 - 0	0.026		0.027	ca		NO	BSL
7429-90-5	Aluminum	4870		32100	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	32100	12900		nc		NO	EPA-I
7440-36-0	Antimony	8.8	J	8.8	J	mg/kg	OU3-A1-SD04-0204	1/8	0.91 - 3.6	8.8	2.86	41	nc		NO	BSL
7440-38-2	Arsenic	2.5		80.3		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	80.3	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	32.9		1390		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	1390	57.5	6700	nc	710000	NO	BSL
7440-41-7	Beryllium	0.31		1.6		mg/kg	OU3-A1-SD04-0204	5/10	0.2 - 0.3	1.6	0.719	1900	nc	1400	NO	BSL
7440-43-9	Cadmium	0.083	J	7.1	J	mg/kg	OU3-A1-SD04-0204	2/10	0.064 - 0.3	7.1	0.397	45	nc	1800	NO	BSL
7440-70-2	Calcium	704		5980		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	5980	1600				NO	NUT
7440-47-3	Chromium	9.4	J	287		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	287	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	3.2		19.5	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	19.5	6.35		ca**		NO	EPA-I
7440-50-8	Copper	24.6		1450	J	mg/kg	OU3-A1-SD04-0204	16/24	150 - 300	1450	28.8		nc		NO	EPA-I
7439-89-6	Iron	8270		64500		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	64500	16000		nc		NO	EPA-I
7439-92-1	Lead	50	J	1810	J	mg/kg	OU3-A1-SD04-0204	19/24	10.7 - 100	1810	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	2370		13200		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	13200	3250				NO	NUT
7439-96-5	Manganese	109	J	492		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	492	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.088	J	0.088	J	mg/kg	OU3-A1-SB02-0002	1/10	0.038 - 0.26	0.088	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	9		117	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	117	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	764		2390	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2390	961				NO	NUT
7782-49-2	Selenium	0.6	J	0.64		mg/kg	OU6-SO-FB191-201-0002-MAX	2/10	0.51 - 2	0.64	0.499	510	nc		NO	BSL
7440-23-5	Sodium	200		2170	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2170	76.4				NO	NUT
7440-28-0	Thallium	3.5		3.5		mg/kg	OU3-A1-SD04-0204	1/10	0.72 - 1.8	3.5	0.368	6.7	nc		NO	BSL
7440-62-2	Vanadium	17.5		143		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	143	34.2	720	nc		NO	BSL
7440-66-6	Zinc	34.5		588		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	588	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.9	, *	15.9	*	%	OU6-SO-FB191-201-0204	19/24	0.1 - 0.1	15.9	0.99	1			YES	ASL

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.
(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.
(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1
(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.
(5) Rationale Codes Selection Reason:
Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason:
Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)
EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
108-88-3	Toluene	7	J	7	J	µg/kg	OU6-SO-FB191-201-1214	1/6	7 - 9	7		66000 sat	650000	NO	BSL
79-01-6	Trichloroethene	1	J	1	J	µg/kg	OU6-SO-FB191-201-0608	1/6	7 - 12	1		53 ca	5000	NO	BSL
92-52-4	1,1'-Biphenyl	140	J	140	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	140		35000 sat		NO	BSL
91-57-6	2-Methylnaphthalene	37	J	610		µg/kg	OU6-SO-FB191-201-1214	3/6	370 - 370	610		5600 nc		NO	BSL
83-32-9	Acenaphthene	44	J	310	J	µg/kg	OU6-SO-FB191-201-1214	3/6	360 - 370	310		370000 nc		NO	BSL
208-96-8	Acenaphthylene	170	J	680		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	680		5600 nc		NO	BSL
120-12-7	Anthracene	140	J	940		µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	940		2200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	610		2200		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2200		620 ca		YES	ASL
50-32-8	Benzo(a)pyrene	620		1800		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	1800		62 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	530		1400		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	1400		620 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	260	J	600		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	600		230000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	540		2000		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2000		6200 ca		NO	BSL
86-74-8	Carbazole	53	J	350		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	350		24000 ca		NO	BSL
218-01-9	Chrysene	690		2000		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2000		62000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	96	J	280		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	280		62 ca		YES	ASL
132-64-9	Dibenzofuran	44	J	460		µg/kg	OU6-SO-FB191-201-1214	5/6	370 - 370	460		29000 nc		NO	BSL
206-44-0	Fluoranthene	1100		4400		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	4400		230000 nc		NO	BSL
86-73-7	Fluorene	57	J	1100		µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	1100		270000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	280	J	740		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	740		620 ca		YES	ASL
91-20-3	Naphthalene	290	J	290	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	290		5600 nc	170000	NO	BSL
85-01-8	Phenanthrene	470	J	4900	*J	µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	4900		2200000 nc		NO	BSL
129-00-0	Pyrene	1100	, J	3700		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	3700		230000 nc		NO	BSL
72-54-8	4,4'-DDD	9	J	17	J	µg/kg	OU6-SO-FB191-201-0810	4/6	3.6 - 3.7	17	4.6	2400 ca		NO	BSL
72-55-9	4,4'-DDE	9.1	J	100		µg/kg	OU6-SO-FB191-201-0002-MAX	5/6	3.8 - 3.8	100	16.7	1700 ca		NO	BSL
50-29-3	4,4'-DDT	12	#	510		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	510	29.1	1700 ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.6	J	7.8		µg/kg	OU6-SO-FB191-201-0002-MAX	2/6	1.9 - 2	7.8	4.88	1600 ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	1041.5		5848.5		µg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	5848.5		220 ca		YES	ASL
37324-23-5	Aroclor-1262	2100	*J	4600	*J	µg/kg	OU6-SO-FB191-201-0406	5/6	38 - 38	4600	36.8	220 ca		YES	ASL
11100-14-4	Aroclor-1268	730	J	1100	, J	µg/kg	OU6-SO-FB191-201-0002-MAX, OU6-SO-FB191-201-0406	6/6	0 - 0	1100	46.1	220 ca		YES	ASL
53494-70-5	Endrin Ketone	4.2	#	11	J#	µg/kg	OU6-SO-FB191-201-0608	2/6	3.6 - 3.9	11	5.31	1800 nc		NO	BSL
5103-74-2	gamma-Chlordane	2	J	6.3		µg/kg	OU6-SO-FB191-201-0002-MAX	3/6	1.9 - 2	6.3	2.67	1600 ca	72000	NO	BSL

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
TE	Toxicity Equivalency	0.026		0.026		µg/kg	OU6-SO-FB191-201-0002-MAX	1/1	0 - 0	0.026		0.0039	ca		YES	ASL
7429-90-5	Aluminum	4870		7390		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	7390	12900		nc		NO	EPA-I
7440-38-2	Arsenic	2.5		6.3		mg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	6.3	5.67	0.39	ca*	770	YES	ASL
7440-39-3	Barium	240	J	912	J	mg/kg	OU6-SO-FB191-201-0810	6/6	0 - 0	912	57.5	540	nc	710000	YES	ASL
7440-41-7	Beryllium	0.31		0.49		mg/kg	OU6-SO-FB191-201-0608	2/6	0.2 - 0.27	0.49	0.719	15	nc	1400	NO	BSL
7440-70-2	Calcium	704		1930		mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	1930	1600				NO	NUT
7440-47-3	Chromium	9.4	J	14.5	J	mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	14.5	17	30	ca	280	NO	BSL
7440-48-4	Cobalt	3.2		5.6		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	5.6	6.35		ca**		NO	EPA-I
7440-50-8	Copper	185		816		mg/kg	OU6-SO-FB189-204-0204	7/9	150 - 150	816	28.8		nc		NO	EPA-I
7439-89-6	Iron	8270		13900		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	13900	16000		nc		NO	EPA-I
7439-92-1	Lead	134		982	J	mg/kg	OU6-SO-FB191-201-0810	9/9	0 - 0	982	80.8	400	nc		YES	ASL
7439-95-4	Magnesium	2370		3270		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	3270	3250				NO	NUT
7439-96-5	Manganese	109	J	218	J	mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	218	306	180	nc		YES	ASL
7440-02-0	Nickel	11.6		15		mg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	15	12.5	160	nc	14000	NO	BSL
7440-09-7	Potassium	764		1290		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	1290	961				NO	NUT
7782-49-2	Selenium	0.6	J	0.64		mg/kg	OU6-SO-FB191-201-0002-MAX	2/6	0.52 - 0.65	0.64	0.499	39	nc		NO	BSL
7440-23-5	Sodium	263		466		mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	466	76.4				NO	NUT
7440-62-2	Vanadium	17.5		25.2		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	25.2	34.2	55	nc		NO	BSL
7440-66-6	Zinc	63.7		254	J	mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	254	112	2300	nc		NO	BSL
ASBESTOS	Asbestos	0.9	*	15.9	*	%	OU6-SO-FB191-201-0204	9/9	0 - 0	15.9	0.99	1			YES	ASL

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.
(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.
(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1
(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.
(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason: Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)
EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	1	J	150	J	µg/kg	OU6-SO-ES340-105-0810	7/8	11 - 11	150		2700000 nc		NO	BSL
67-64-1	Acetone	140	J	1000	J	µg/kg	OU6-SO-ES340-105-0810	4/8	9 - 22	1000		600000 nc		NO	BSL
71-43-2	Benzene	1	J	35	J	µg/kg	OU6-SO-ES304-104-0810	4/7	7 - 8	35		1300 ca*	800	NO	BSL
75-15-0	Carbon Disulfide	0.8	J	31		µg/kg	OU6-SO-ES340-105-0204	7/7	0 - 0	31		72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	2	J	2	J	µg/kg	OU6-SO-ES340-105-0406	1/6	7 - 21	2		53000 nc	130000	NO	BSL
74-87-3	Chloromethane	12	J	12	J	µg/kg	OU6-SO-ES340-105-0406	1/6	7 - 21	12		2600 ca		NO	BSL
110-82-7	Cyclohexane	21		250		µg/kg	OU6-SO-ES340-105-0406	2/6	7 - 11	250		14000 sat		NO	BSL
100-41-4	Ethylbenzene	4	J	15	J	µg/kg	OU6-SO-ES340-105-0204	2/6	7 - 11	15		20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	10	J	14	J	µg/kg	OU6-SO-ES340-105-0406	2/6	7 - 11	14		200000 nc		NO	BSL
79-20-9	Methyl Acetate	17	J	17	J	µg/kg	OU6-SO-ES340-105-0204	1/6	7 - 15	17		9200000 nc		NO	BSL
1634-04-4	Methyl tert-Butyl Ether	1	J	1	J	µg/kg	OU6-SO-ES304-104-0406	1/6	7 - 21	1		160000 ca*		NO	BSL
108-87-2	Methylcyclohexane	0.9	J	910	*	µg/kg	OU6-SO-ES340-105-0406	3/6	7 - 11	910		870000 nc		NO	BSL
108-88-3	Toluene	2	J	51	J	µg/kg	OU6-SO-ES304-104-0810	3/7	7 - 11	51		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	0.9	J	170	J	µg/kg	OU6-SO-ES340-105-0204	4/7	7 - 11	170		42000 nc		NO	BSL
105-67-9	2,4-Dimethylphenol	390	J	390	J	µg/kg	OU6-SO-ES304-104-0406	1/6	360 - 550	390		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	85	J	100	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 550	100		19000 nc		NO	NTX
95-48-7	2-Methylphenol	150	J	260	J	µg/kg	OU6-SO-ES340-105-0406	2/6	360 - 470	260		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	120	J	290	J	µg/kg	OU6-SO-ES340-105-0406	3/6	360 - 470	290		310000 nc		NO	BSL
83-32-9	Acenaphthene	56	J	56	J	µg/kg	OU6-SO-ES340-105-0204	1/3	380 - 550	56		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	74	J	74	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	74		19000 nc		NO	NTX
98-86-2	Acetophenone	190	J	300	J	µg/kg	OU6-SO-ES340-105-0204	2/3	380 - 380	300		160 nc		YES	ASL
120-12-7	Anthracene	49	J	200	J	µg/kg	OU6-SO-ES340-105-0204	4/6	360 - 470	200		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	590	JEB	590	JEB	µg/kg	OU6-SO-ES304-104-0810	1/7	360 - 550	590		6200000 nc		NO	BSL

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
56-55-3	Benzo(a)anthracene	150	J	510		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	510		2100 ca		NO	BSL
50-32-8	Benzo(a)pyrene	140	J	300	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	300		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	190	J	340	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	340		2100 ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	69	J	80	J	µg/kg	OU6-SO-ES340-105-0204	2/6	360 - 500	80		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	160	J	270	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	270		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	46	J	15000		µg/kg	OU6-SO-ES340-105-0204	6/7	500 - 500	15000		120000 ca*		NO	BSL
86-74-8	Carbazole	72	J	80	J	µg/kg	OU6-SO-ES340-105-0406	2/6	360 - 500	80		86000 ca		NO	BSL
218-01-9	Chrysene	200	J	680		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	680		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	97	J	120	J	µg/kg	OU6-SO-ES340-105-0204	2/6	360 - 500	120		210 ca		NO	BSL
132-64-9	Dibenzofuran	45	J	61	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 550	61		310000 nc		NO	BSL
84-66-2	Diethylphthalate	63	J	63	J	µg/kg	OU6-SO-ES304-104-0002	1/6	380 - 550	63		10000000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	89	J	89	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	89		6200000 nc		NO	BSL
206-44-0	Fluoranthene	280	J	1200		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	1200		2200000 nc		NO	BSL
86-73-7	Fluorene	65	J	100	J	µg/kg	OU6-SO-ES340-105-0204	3/6	360 - 470	100		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	94	J	300	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	300		2100 ca		NO	BSL
91-20-3	Naphthalene	75	J	150	J	µg/kg	OU6-SO-ES304-104-0406	3/6	360 - 470	150		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	120	J	120	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	120		350000 ca		NO	BSL
85-01-8	Phenanthrene	160	J	750		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	750		10000000 nc		NO	NTX
108-95-2	Phenol	2800		3600	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 470	3600		10000000 nc		NO	BSL
129-00-0	Pyrene	370	, J	1100		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	1100		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	5.7		5.7		µg/kg	OU6-SO-ES304-104-0002	1/6	3.5 - 270	5.7	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	7.7		320		µg/kg	OU6-SO-ES340-105-0204	2/6	3.5 - 270	320	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	26		3500		µg/kg	OU6-SO-ES340-105-0406	2/6	3.5 - 240	3500	29.1	7000 ca*		NO	BSL

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
5103-71-9	alpha-Chlordane	2.1		10		µg/kg	OU6-SO-ES304-104-0002	2/6	2.7 - 140	10	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	335.5		510850		µg/kg	OU6-SO-ES340-105-0406	8/8	0 - 0	510850		1000 ca		YES	ASL
37324-23-5	Aroclor-1262	100		280000	*	µg/kg	OU6-SO-ES340-105-0406	5/7	52 - 2400	280000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	91		220000	*	µg/kg	OU6-SO-ES340-105-0406	8/8	0 - 0	220000	46.1	1000 ca		YES	ASL
1031-07-8	Endosulfan Sulfate	7.9	#	21000	*#	µg/kg	OU6-SO-ES340-105-0406	7/8	13000 - 13000	21000	4.69	370000 nc		NO	NTX
72-20-8	Endrin	320		730		µg/kg	OU6-SO-ES340-105-0204	2/6	3.5 - 270	730	4.77	18000 nc		NO	BSL
7421-93-4	Endrin Aldehyde	6.3	#	2000	#	µg/kg	OU6-SO-ES340-105-0406	6/7	3.6 - 3.6	2000	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	5.4		5.4		µg/kg	OU6-SO-ES304-104-0204	1/6	3.5 - 270	5.4	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	6.1		6.1		µg/kg	OU6-SO-ES304-104-0002	1/6	1.8 - 140	6.1	2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	1200		1200		µg/kg	OU6-SO-ES340-105-0204	1/6	18 - 1400	1200	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.474		0.474		µg/kg	OU6-SO-ES304-104-0406	1/1	0 - 0	0.474		0.027 ca		YES	ASL
7429-90-5	Aluminum	1000	J	8040		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	8040	12900			NO	EPA-I
7440-36-0	Antimony	3.9	J	34.5	J	mg/kg	OU6-SO-ES304-104-0608	3/8	0.32 - 3.1	34.5	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	4.6		21.9		mg/kg	OU6-SO-ES304-104-0608	7/7	0 - 0	21.9	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	41.1		8110		mg/kg	OU6-SO-ES304-104-0406	9/9	0 - 0	8110	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.34		0.34		mg/kg	OU6-SO-ES340-105-0002	1/8	0.063 - 0.35	0.34	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	5.6		9.8		mg/kg	OU6-SO-ES304-104-0406	4/7	0.17 - 0.23	9.8	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	874	J	7390	J	mg/kg	OU6-SO-ES340-105-0810	9/9	0 - 0	7390	1600			NO	NUT
7440-47-3	Chromium	3.6	J	76.5		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	76.5	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	1	J	16.4	J	mg/kg	OU6-SO-ES340-105-0406	8/9	0.41 - 0.41	16.4	6.35			NO	EPA-I
7440-50-8	Copper	57.8		25100		mg/kg	OU6-SO-ES304-104-0608	14/15	150 - 150	25100	28.8			NO	EPA-I
7439-89-6	Iron	1720	J	38100		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	38100	16000			NO	EPA-I
7439-92-1	Lead	63.1	J	43400		mg/kg	OU6-SO-ES304-104-0608	15/15	0 - 0	43400	80.8	750 nc		YES	ASL

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7439-95-4	Magnesium	1740		32900	J	mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	32900	3250			NO	NUT
7439-96-5	Manganese	42.3	J	354		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	354	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.069	J	0.45		mg/kg	OU6-SO-ES304-104-0406	5/7	0.047 - 0.058	0.45	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	3.3	J	209		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	209	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	206		1230		mg/kg	OU6-SO-ES340-105-0002	9/9	0 - 0	1230	961			NO	NUT
7782-49-2	Selenium	0.55	J	6.1	J	mg/kg	OU6-SO-ES340-105-0406	2/7	0.42 - 2.1	6.1	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.87	J	4.3		mg/kg	OU6-SO-ES304-104-0608	4/7	0.1 - 0.19	4.3	0.508	510 nc		NO	BSL
7440-23-5	Sodium	99.3	J	5690		mg/kg	OU6-SO-ES304-104-0406	7/9	125 - 169	5690	76.4			NO	NUT
7440-62-2	Vanadium	1.9	J	24.1		mg/kg	OU6-SO-ES304-104-0002	9/9	0 - 0	24.1	34.2	720 nc		NO	BSL
7440-66-6	Zinc	59.7		18400		mg/kg	OU6-SO-ES304-104-0608	9/9	0 - 0	18400	112	10000 nc		YES	ASL
ASBESTOS	Asbestos	0.9	, *	50		%	OU6-SO-ES340-105-0406	15/16	0.1 - 0.1	50		1		YES	ASL

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.15
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
340 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
AROCLORTOTC	Aroclor, Total (Conservative)	1167		1167		µg/kg	OU6-SO-ES340-201-0002	1/1	0 - 0	1167		1000 ca		YES	ASL
37324-23-5	Aroclor-1262	590		590		µg/kg	OU6-SO-ES340-201-0002	1/1	0 - 0	590	36.8	1000 ca		NO	BSL
11100-14-4	Aroclor-1268	500		500		µg/kg	OU6-SO-ES340-201-0002	1/1	0 - 0	500	46.1	1000 ca		NO	BSL
7440-50-8	Copper	143	J	87900		mg/kg	OU6-SO-ES340-104-0608	21/23	150 - 150	87900	28.8			NO	EPA-I
7439-92-1	Lead	56	J	27000		mg/kg	OU6-SO-ES340-202-0204	23/23	0 - 0	27000	80.8	750 nc		YES	ASL
ASBESTOS	Asbestos	0.9	, *	70		%	OU6-SO-ES340-103-0406, OU6-SO-ES340-104-0406	21/23	0.1 - 0.1	70		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.16
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
380 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 380 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
AROCLORTOTC	Aroclor, Total (Conservative)	470		470		µg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	470		1000 ca		NO	BSL
11100-14-4	Aroclor-1268	110		110		µg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	110	46.1	1000 ca		NO	BSL
7440-50-8	Copper	2500		2500		mg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	2500	28.8			NO	EPA-I
7439-92-1	Lead	1500		1500		mg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	1500	80.8	750 nc		YES	ASL
ASBESTOS	Asbestos	2		2		%	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	2		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value		(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	6	J	110	J	µg/kg	OU6-SO-DI-210-0608	3/5	5 - 9	110		2700000	nc		NO	BSL
67-64-1	Acetone	8	J	710	*J	µg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	710		600000	nc		NO	BSL
71-43-2	Benzene	2	J	4	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	4		1300	ca*	800	NO	BSL
110-82-7	Cyclohexane	44	J	44	J	µg/kg	OU6-SO-DI-210-0608	1/5	4 - 9	44		14000	sat		NO	BSL
79-20-9	Methyl Acetate	42	J	91	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	91		9200000	nc		NO	BSL
1634-04-4	Methyl tert-Butyl Ether	0.6	J	130	J	µg/kg	OU6-SO-DI-210-0608	3/5	6 - 9	130		160000	ca*		NO	BSL
108-87-2	Methylcyclohexane	1	J	35	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	35		870000	nc		NO	BSL
108-88-3	Toluene	1	J	5	J	µg/kg	OU6-SO-DI-210-0002, OU6-SO-DI-210-0608	3/5	4 - 5	5		52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	5	J	µg/kg	OU6-SO-DI-210-0002	1/5	4 - 400	5		42000	nc		NO	BSL
105-67-9	2,4-Dimethylphenol	83	J	240	J	µg/kg	OU6-SO-DI-210-0204	2/4	370 - 1800	240		1200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	100	J	100	J	µg/kg	OU6-SO-DI-210-0608	1/4	370 - 1800	100		19000	nc		NO	NTX
95-48-7	2-Methylphenol	86	J	670		µg/kg	OU6-SO-DI-210-0204	4/5	1800 - 1800	670		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	110	J	670		µg/kg	OU6-SO-DI-210-0204	4/5	1800 - 1800	670		310000	nc		NO	BSL
83-32-9	Acenaphthene	380	J	380	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	380		2900000	nc		NO	BSL
98-86-2	Acetophenone	65	J	65	J	µg/kg	OU6-SO-DI-210-0608	1/4	370 - 1800	65		160	nc		NO	BSL
120-12-7	Anthracene	580	J	580	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	580		10000000	nc		NO	BSL
100-52-7	Benzaldehyde	510	JEB	510	JEB	µg/kg	OU6-SO-DI-210-0810	1/5	370 - 1800	510		6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	38	J	1300	J	µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	1300		2100	ca		NO	BSL
50-32-8	Benzo(a)pyrene	40	J	1300	J	µg/kg	OU6-SO-DI-210-0002	4/5	500 - 500	1300		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	48	J	1200	J	µg/kg	OU6-SO-DI-210-0002	2/4	500 - 610	1200		2100	ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	780	J	780	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	780		2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	39	J	1200	J	µg/kg	OU6-SO-DI-210-0002	2/4	500 - 610	1200		21000	ca		NO	BSL

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
86-74-8	Carbazole	290	J	290	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	290		86000 ca		NO	BSL
218-01-9	Chrysene	56	J	1500	J	µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	1500		210000 ca		NO	BSL
84-74-2	Di-n-Butylphthalate	640	JEB	1100	EB	µg/kg	OU6-SO-DI-210-0608	2/5	370 - 1800	1100		6200000 nc		NO	BSL
206-44-0	Fluoranthene	83	J	2700		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2700		2200000 nc		NO	BSL
86-73-7	Fluorene	85	J	260	J	µg/kg	OU6-SO-DI-210-0002	2/4	370 - 500	260		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	830	J	830	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	830		2100 ca		NO	BSL
85-01-8	Phenanthrene	57	J	2300		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2300		10000000 nc		NO	NTX
108-95-2	Phenol	310	J	14000	*	µg/kg	OU6-SO-DI-210-0204	2/4	610 - 1800	14000		10000000 nc		NO	BSL
129-00-0	Pyrene	84	J	2400		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2400		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	48		48		µg/kg	OU6-SO-DI-210-0002	1/5	3.5 - 3.8	48	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	4.2	#	22	#	µg/kg	OU6-SO-DI-210-0204	4/5	3.8 - 3.8	22	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	4.1	#	31		µg/kg	OU6-SO-DI-210-0002	2/5	3.5 - 3.8	31	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.1		33	*	µg/kg	OU6-SO-DI-210-0204	2/5	2 - 2	33	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	422		4158.5		µg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	4158.5		1000 ca		YES	ASL
11100-14-4	Aroclor-1268	250		4000	*	µg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	4000	46.1	1000 ca		YES	ASL
5103-74-2	gamma-Chlordane	3.6		3.6		µg/kg	OU6-SO-DI-210-0204	1/5	1.9 - 2	3.6	2.67	6500 ca	72000	NO	NTX
1024-57-3	Heptachlor Epoxide	4.2		4.2		µg/kg	OU6-SO-DI-210-0204	1/5	1.9 - 2	4.2	2.33	190 ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.0084	J	0.0084	J	µg/kg	OU6-SO-DI-210-0204	1/1	0 - 0	0.0084		0.027 ca		NO	BSL
7429-90-5	Aluminum	2790	J	10100		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	10100	12900			NO	EPA-I
7440-36-0	Antimony	1.1	J	1.6	J	mg/kg	OU6-SO-DI-210-0608	2/4	0.57 - 0.61	1.6	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	2.7		10		mg/kg	OU6-SO-DI-210-0204	4/4	0 - 0	10	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	162		923		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	923	57.5	6700 nc	710000	NO	BSL
7440-41-7	Beryllium	0.78		0.84		mg/kg	OU6-SO-DI-210-0406	2/5	0.28 - 0.34	0.84	0.719	1900 nc	1400	NO	BSL

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-43-9	Cadmium	1	J	1	J	mg/kg	OU6-SO-DI-210-0608	1/5	0.094 - 0.28	1	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	581		3740	J	mg/kg	OU6-SO-DI-210-0810	5/5	0 - 0	3740	1600			NO	NUT
7440-47-3	Chromium	12.4		337		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	337	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	3.6	J	46.1	J	mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	46.1	6.35			NO	EPA-I
7440-50-8	Copper	81.3	J	33600		mg/kg	OU6-SO-ES304-203-0204	9/10	150 - 150	33600	28.8			NO	EPA-I
7439-89-6	Iron	10300	J	36600		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	36600	16000			NO	EPA-I
7439-92-1	Lead	37.7		10900		mg/kg	OU6-SO-ES304-203-0204	10/10	0 - 0	10900	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	3610		159000		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	159000	3250			NO	NUT
7439-96-5	Manganese	199	J	473	J	mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	473	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.077	J	0.41		mg/kg	OU6-SO-DI-210-0204	3/4	0.061 - 0.061	0.41	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	17.8		835		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	835	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	479	J	1210		mg/kg	OU6-SO-DI-210-0002	5/5	0 - 0	1210	961			NO	NUT
7440-22-4	Silver	0.39	J	0.39	J	mg/kg	OU6-SO-DI-210-0608	1/4	0.21 - 0.38	0.39	0.508	510 nc		NO	BSL
7440-23-5	Sodium	104	J	5180	J	mg/kg	OU6-SO-DI-210-0810	2/5	74.6 - 129	5180	76.4			NO	NUT
7440-62-2	Vanadium	9	J	31.2	J	mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	31.2	34.2	720 nc		NO	BSL
7440-66-6	Zinc	141		673		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	673	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	1.3		80		%	OU6-SO-DI-210-0204	8/10	0.1 - 0.1	80		1		YES	ASL

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.18
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
DPW LOT
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: DPW LOT

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
AROCLORTOTC	Aroclor, Total (Conservative)	470		800		µg/kg	OU6-SO-DPW-102-0002	2/2	0 - 0	800		1000 ca		NO	BSL
11100-14-4	Aroclor-1268	70		400		µg/kg	OU6-SO-DPW-102-0002	2/2	0 - 0	400	46.1	1000 ca		NO	BSL
7440-50-8	Copper	37		603		mg/kg	OU6-SO-DPW-102-0406	8/12	200 - 200	603	28.8			NO	EPA-I
7439-92-1	Lead	41	J	2160		mg/kg	OU6-SO-DPW-102-0406	10/12	100 - 100	2160	80.8	750 nc		YES	ASL
ASBESTOS	Asbestos	0.9		30		%	OU6-SO-DPW-102-0406	5/12	0.1 - 0.1	30		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.19
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
251 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 251 EAST MAIN STREET

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-50-8	Copper	122	J	764		mg/kg	OU6-SO-ES251-203-0406	3/4	200 - 200	764	28.8			NO	EPA-I
7439-92-1	Lead	38	J	489		mg/kg	OU6-SO-ES251-203-0406	4/4	0 - 0	489	80.8	750 nc		NO	BSL
ASBESTOS	Asbestos	6.7		6.7		%	OU6-SO-ES251-203-0406	1/4	0.1 - 0.1	6.7		1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
67-64-1	Acetone	15	JTB	15	JTB	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	15		160000	nc		NO	BSL
75-15-0	Carbon Disulfide	29	J	29	J	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	29		36000	nc	720000	NO	BSL
75-09-2	Methylene Chloride	5	JTB	5	JTB	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	5		9100	ca	13000	NO	BSL
105-67-9	2,4-Dimethylphenol	1600		1600		µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	1600		120000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	89	J	210	J	µg/kg	OU3-D-SB04-1214	5/10	390 - 11000	210		5600	nc		NO	BSL
95-48-7	2-Methylphenol	540	J	540	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	540		310000	nc		NO	BSL
106-44-5	4-Methylphenol	460		730		µg/kg	OU3-D-SB02-0204	2/10	380 - 11000	730		31000	nc		NO	BSL
83-32-9	Acenaphthene	340	J	1500	J	µg/kg	OU3-D-SB03-0608	3/10	390 - 11000	1500		370000	nc		NO	BSL
208-96-8	Acenaphthylene	56	J	330	J	µg/kg	OU3-D-SB04-1214	4/10	390 - 11000	330		5600	nc		NO	BSL
120-12-7	Anthracene	67	J	2500	J	µg/kg	OU3-D-SB06-0204	8/10	390 - 530	2500		2200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	380	J	11000	*J	µg/kg	OU3-D-SB03-0002	6/10	390 - 610	11000		620	ca		YES	ASL
50-32-8	Benzo(a)pyrene	130	J	9000	*J	µg/kg	OU3-D-SB03-0002	8/10	390 - 530	9000		62	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	250	J	12000	*J	µg/kg	OU3-D-SB03-0002	6/10	390 - 610	12000		620	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	240	J	7900	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 530	7900		230000	nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	290	J	5900	J	µg/kg	OU3-D-SB06-0204	6/10	390 - 610	5900		6200	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	46	J	930		µg/kg	OU3-D-SB04-1214	5/10	380 - 11000	930		35000	ca*		NO	BSL
86-74-8	Carbazole	110	J	910	J	µg/kg	OU3-D-SB03-0002	4/10	390 - 11000	910		24000	ca		NO	BSL
218-01-9	Chrysene	54	J	16000	*	µg/kg	OU3-D-SB02-0204	8/10	390 - 520	16000		62000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	81	J	1800	J	µg/kg	OU3-D-SB03-0002	6/10	390 - 570	1800		62	ca		YES	ASL
132-64-9	Dibenzofuran	150	J	530	J	µg/kg	OU3-D-SB03-0608	4/10	390 - 11000	530		29000	nc		NO	BSL
84-66-2	Diethylphthalate	100	J	18000	J	µg/kg	OU3-D-SB06-0204	2/10	380 - 570	18000		4900000	nc		NO	BSL
131-11-3	Dimethylphthalate	89	J	89	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	89		10000000	max		NO	BSL
84-74-2	Di-n-Butylphthalate	1200	J	1200	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	1200		610000	nc		NO	BSL

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
206-44-0	Fluoranthene	100	J	16000	*J, J	µg/kg	OU3-D-SB03-0002, OU3-D-SB06-0204	8/10	390 - 520	16000		230000	nc		NO	BSL
86-73-7	Fluorene	110	J	1500	J	µg/kg	OU3-D-SB06-0204	7/10	390 - 530	1500		270000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	7700	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 530	7700		620	ca		YES	ASL
91-20-3	Naphthalene	170	J	370	J	µg/kg	OU3-D-SB03-0608	5/10	390 - 11000	370		5600	nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	260	J	260	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	260		99000	ca		NO	BSL
85-01-8	Phenanthrene	97	J	14000	*J	µg/kg	OU3-D-SB03-0002	8/10	390 - 520	14000		2200000	nc		NO	BSL
108-95-2	Phenol	1800		1800		µg/kg	OU3-D-SB02-0204	1/8	390 - 11000	1800		3700000	nc		NO	BSL
129-00-0	Pyrene	130	J	21000	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 610	21000		230000	nc		NO	BSL
TOTPAH	Total PAH	4814		4814		µg/kg	OU3-D-SB04-1416-MAX	1/1	0 - 0	4814					NO	NTX
72-54-8	4,4'-DDD	7.9	J	7.9	J	µg/kg	OU3-D-SB06-0204	1/11	3.8 - 120	7.9	4.6	2400	ca		NO	BSL
72-55-9	4,4'-DDE	6.7	J	6.7	J	µg/kg	OU3-D-SB03-0608	1/11	3.8 - 120	6.7	16.7	1700	ca		NO	BSL
50-29-3	4,4'-DDT	17	J	17	J	µg/kg	OU3-D-SB03-0608	1/10	3.8 - 120	17	29.1	1700	ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.5		2.5		µg/kg	OU3-D-SB06-0204	1/11	1.9 - 59	2.5	4.88	1600	ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	432.5		68750		µg/kg	OU3-D-SB02-0204	5/11	38 - 60	68750		220	ca		YES	ASL
37324-23-5	Aroclor-1262	480	J	30000	J	µg/kg	BPM B+50	4/11	38 - 63	30000	36.8	220	ca		YES	ASL
11100-14-4	Aroclor-1268	150		39000	*	µg/kg	OU3-D-SB02-0204	3/11	38 - 510	39000	46.1	220	ca		YES	ASL
7421-93-4	Endrin Aldehyde	50		830		µg/kg	OU3-D-SB02-0204	2/11	3.8 - 51	830	4.56	1800	nc		NO	BSL
53494-70-5	Endrin Ketone	32	J	32	J	µg/kg	OU3-D-SB03-0002	1/11	3.8 - 120	32	5.31	1800	nc		NO	BSL
5103-74-2	gamma-Chlordane	5.2	J	9.7		µg/kg	OU3-D-SB06-0204	2/11	1.9 - 59	9.7	2.67	1600	ca	72000	NO	BSL
1024-57-3	Heptachlor Epoxide	2.6		2.6		µg/kg	OU3-D-SB06-0204	1/11	1.9 - 59	2.6	2.33	53	ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.00947	J	7.81	J	µg/kg	OU3-D-SB02-0204	3/3	0 - 0	7.81		0.0039	ca		YES	ASL
7429-90-5	Aluminum	4200		12500		mg/kg	OU3-D-SB04-1416-MAX	11/11	0 - 0	12500	12900				NO	EPA-I
7440-38-2	Arsenic	3.2	J	35.5		mg/kg	OU3-D-SB02-1416	6/11	4.8 - 7.4	35.5	5.67	0.39	ca*	770	YES	ASL

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-39-3	Barium	27.5		19700		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	19700	57.5	540	nc	710000	YES	ASL
7440-41-7	Beryllium	0.26		0.6		mg/kg	OU3-D-SB03-0608	10/11	0.35 - 0.35	0.6	0.719	15	nc	1400	NO	BSL
7440-43-9	Cadmium	0.59		10.2	J	mg/kg	OU3-D-SB08-0810	8/9	0.8 - 0.8	10.2	0.397	3.7	nc	1800	YES	ASL
7440-70-2	Calcium	944		12300		mg/kg	OU3-D-SB03-0608	11/11	0 - 0	12300	1600				NO	NUT
7440-47-3	Chromium	18.6	J	199		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	199	17	30	ca	280	YES	ASL
7440-48-4	Cobalt	6.4		32.6		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	32.6	6.35				NO	EPA-I
7440-50-8	Copper	22.7	J	69600		mg/kg	OU3-D-SB02-0204	32/47	200 - 300	69600	28.8				NO	EPA-I
7439-89-6	Iron	16800		123000		mg/kg	OU3-D-SB04-1214	11/11	0 - 0	123000	16000				NO	EPA-I
7439-92-1	Lead	15.2		49000		mg/kg	OU3-D-SB02-0204	41/49	100 - 100	49000	80.8	400	nc		YES	ASL
7439-95-4	Magnesium	2830		77200		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	77200	3250				NO	NUT
7439-96-5	Manganese	208		938		mg/kg	OU3-D-SB02-1416	11/11	0 - 0	938	306	180	nc		YES	ASL
7439-97-6	Mercury	0.22		1.1	, J	mg/kg	BPM B+50, OU3-D-SB04-1416-MAX	6/11	0.11 - 0.17	1.1	0.111	2.3	nc	10	NO	BSL
7440-02-0	Nickel	13.3	J	547		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	547	12.5	160	nc	14000	YES	ASL
7440-09-7	Potassium	644	J	2720	J	mg/kg	OU3-D-SB04-1416-MAX	11/11	0 - 0	2720	961				NO	NUT
7782-49-2	Selenium	1.6	J	2.2	J	mg/kg	BPM B+50	2/11	0.33 - 1.7	2.2	0.499	39	nc		NO	BSL
7440-22-4	Silver	0.67		10.5		mg/kg	BPM B+50	5/11	0.48 - 0.66	10.5	0.508	39	nc		NO	BSL
7440-23-5	Sodium	258	J	5500		mg/kg	OU3-D-SB03-0608	10/10	0 - 0	5500	76.4				NO	NUT
7440-62-2	Vanadium	16.4	J	33.2	, J	mg/kg	OU3-D-SB03-0002, OU3-D-SB04-1416-MAX, OU3-D-SB08-0810	10/11	0.35 - 0.35	33.2	34.2	55	nc		NO	BSL
7440-66-6	Zinc	45.6		3830		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	3830	112	2300	nc		YES	ASL
ASBESTOS	Asbestos	0.9		40		%	OU3-D-SB02-0204	31/50	0.1 - 0.1	40		1			YES	ASL

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
78-93-3	2-Butanone	3	J	11		µg/kg	OU6-SO-BPM-102-0608	2/4	8 - 10	11		2700000 nc		NO	BSL
67-64-1	Acetone	40		56	J	µg/kg	OU6-SO-BPM-102-0204	3/4	8 - 8	56		600000 nc		NO	BSL
71-43-2	Benzene	2	J	2	J	µg/kg	OU6-SO-BPM-102-0002	1/4	8 - 10	2		1300 ca*	800	NO	BSL
74-83-9	Bromomethane	1	J	1	J	µg/kg	OU6-SO-BPM-102-0608	1/4	7 - 10	1		1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	1	J	8		µg/kg	OU6-SO-BPM-102-0002	3/4	10 - 10	8		72000 nc	720000	NO	BSL
74-87-3	Chloromethane	3	J	3	J	µg/kg	OU6-SO-BPM-102-0608	1/4	7 - 10	3		2600 ca		NO	BSL
100-41-4	Ethylbenzene	1	J	1	J	µg/kg	OU6-SO-BPM-102-0204, OU6-SO-BPM-102-0608	2/4	7 - 8	1		20000 ca	400000	NO	BSL
108-88-3	Toluene	2	J	6	J	µg/kg	OU6-SO-BPM-102-0204	3/4	8 - 8	6		52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	12		µg/kg	OU6-SO-BPM-102-0608	2/4	7 - 8	12		42000 nc		NO	BSL
92-52-4	1,1'-Biphenyl	52	J	52	J	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	52		35000 sat		NO	BSL
105-67-9	2,4-Dimethylphenol	78	J	78	J	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	78		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	56	J	120	J	µg/kg	OU6-SO-BPM-102-0204	2/4	390 - 1700	120		19000 nc		NO	NTX
83-32-9	Acenaphthene	200	J	950	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	950		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	69	J	1000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	1000		19000 nc		NO	NTX
120-12-7	Anthracene	700	J	4900	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	4900		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	120	JEB	120	JEB	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	120		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	1900	J	15000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	15000		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	1600	J	14000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	14000		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	1500	J	12000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	12000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	220	J	2000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	2000		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	1500	J	14000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	14000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	83	J	190	J	µg/kg	OU6-SO-BPM-102-0204	2/3	1700 - 1700	190		120000 ca*		NO	BSL
86-74-8	Carbazole	230	J	790	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	790		86000 ca		NO	BSL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
218-01-9	Chrysene	1900	J	15000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	15000		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	300	J	3500	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	3500		210 ca		YES	ASL
132-64-9	Dibenzofuran	120	J	430	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	430		310000 nc		NO	BSL
206-44-0	Fluoranthene	4100	*J	31000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	31000		2200000 nc		NO	BSL
86-73-7	Fluorene	290	J	1400	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	1400		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	800	J	9100	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	9100		2100 ca		YES	ASL
91-20-3	Naphthalene	40	J	87	J	µg/kg	OU6-SO-BPM-102-0204	3/4	1700 - 1700	87		19000 nc	170000	NO	BSL
85-01-8	Phenanthrene	3100	*J	19000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	19000		10000000 nc		NO	NTX
108-95-2	Phenol	280	JEB	280	JEB	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	280		10000000 nc		NO	BSL
129-00-0	Pyrene	5300	*J	42000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	42000		2900000 nc		NO	BSL
72-55-9	4,4'-DDE	15	#	25	#	µg/kg	OU6-SO-BPM-102-0002	2/4	3.7 - 18	25	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	7.7	#	35	#	µg/kg	OU6-SO-BPM-102-0406, OU6-SO-BPM-102-0608	4/4	0 - 0	35	29.1	7000 ca*		NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	870		23810		µg/kg	OU6-SO-BPM-102-0204	5/5	0 - 0	23810		1000 ca		YES	ASL
11097-69-1	Aroclor-1254	1200		2400	*	µg/kg	OU6-SO-BPM-102-0002	2/5	37 - 180	2400	46.1	740 ca**		YES	ASL
37324-23-5	Aroclor-1262	3000	*	3600	*	µg/kg	OU6-SO-BPM-102-0406	2/5	34 - 180	3600	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	350		23000	*	µg/kg	OU6-SO-BPM-102-0204	5/5	0 - 0	23000	46.1	1000 ca		YES	ASL
60-57-1	Dieldrin	4.5	#	49		µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	49	13.1	110 ca	1000	NO	BSL
1031-07-8	Endosulfan Sulfate	69	*#	2500	*#	µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	2500	4.69			NO	NTX
7421-93-4	Endrin Aldehyde	38	#	670	*#	µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	670	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	12		12		µg/kg	OU6-SO-BPM-102-0608	1/4	3.4 - 18	12	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	5.4	#	17		µg/kg	OU6-SO-BPM-102-0204	3/4	1.9 - 1.9	17	2.67	6500 ca	72000	NO	NTX
1024-57-3	Heptachlor Epoxide	2.1		2.8	#	µg/kg	OU6-SO-BPM-102-0608	2/4	1.9 - 9.2	2.8	2.33	190 ca*	5000	NO	BSL
72-43-5	Methoxychlor	31	#	270		µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	270	22.3	310000 nc		NO	BSL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2) Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
TE	Toxicity Equivalency	0.769		0.769		µg/kg	OU6-SO-BPM-102-0204	1/1	0 - 0	0.769		0.027 ca		YES	ASL
7429-90-5	Aluminum	5280		12000		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	12000	12900			NO	EPA-I
7440-36-0	Antimony	2.4		11.3	J	mg/kg	OU6-SO-BPM-102-0406	2/4	0.69 - 1.1	11.3	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	2.3	J	3.9		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	3.9	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	227		3550		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	3550	57.5	6700 nc	710000	NO	BSL
7440-43-9	Cadmium	0.44		1.9	J	mg/kg	OU6-SO-BPM-102-0406	3/4	0.33 - 0.33	1.9	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	3940	J	166000	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	166000	1600			NO	NUT
7440-47-3	Chromium	19		4270		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	4270	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	3.2	, J	6.7		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	6.7	6.35			NO	EPA-I
7440-50-8	Copper	75		40700		mg/kg	OU6-SO-BPM-101-0608	9/9	0 - 0	40700	28.8			NO	EPA-I
7439-89-6	Iron	11700		30600		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	30600	16000			NO	EPA-I
7439-92-1	Lead	47		14800		mg/kg	OU6-SO-BPM-101-0608	10/10	0 - 0	14800	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	3720		38000		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	38000	3250			NO	NUT
7439-96-5	Manganese	173	J	7220	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	7220	306	1900 nc		YES	ASL
7439-97-6	Mercury	0.13	J	0.21	J	mg/kg	OU6-SO-BPM-102-0204	3/4	0.051 - 0.051	0.21	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	15.7		91.4	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	91.4	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	612		1100		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	1100	961			NO	NUT
7782-49-2	Selenium	6.5	J	6.5	J	mg/kg	OU6-SO-BPM-102-0406	1/4	0.77 - 1.5	6.5	0.499	510 nc		NO	BSL
7440-22-4	Silver	0.45		0.8		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	0.8	0.508	510 nc		NO	BSL
7440-23-5	Sodium	242		1210	J	mg/kg	OU6-SO-BPM-102-0406	3/4	205 - 205	1210	76.4			NO	NUT
7440-62-2	Vanadium	15.3		158		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	158	34.2	720 nc		NO	BSL
7440-66-6	Zinc	171	J	568		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	568	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9		60		%	OU6-SO-BPM-101-0608	9/10	0.1 - 0.1	60		1		YES	ASL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
78-93-3	2-Butanone	18		18		µg/kg	OU6-SO-BA2-205A-0204	1/3	8 - 14	18		2700000	nc		NO	BSL
67-64-1	Acetone	17	J	170		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	170		600000	nc		NO	BSL
79-20-9	Methyl Acetate	12		18		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	8 - 8	18		9200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	220	J	4200		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	380 - 380	4200		19000	nc		NO	NTX
83-32-9	Acenaphthene	83	J	4400		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	4400		2900000	nc		NO	BSL
208-96-8	Acenaphthylene	90	J	7100		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	7100		19000	nc		NO	NTX
120-12-7	Anthracene	190	J	14000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	14000		10000000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	570		43000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	43000		2100	ca		YES	ASL
50-32-8	Benzo(a)pyrene	430		36000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	36000		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	430		31000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	31000		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	270	J	29000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	29000		2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	350	J	37000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	37000		21000	ca		YES	ASL
86-74-8	Carbazole	71	J	5800		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5800		86000	ca		NO	BSL
218-01-9	Chrysene	620		47000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	47000		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	140	J	12000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	12000		210	ca		YES	ASL
132-64-9	Dibenzofuran	49	J	3300		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	3300		310000	nc		NO	BSL
206-44-0	Fluoranthene	1200		70000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	70000		2200000	nc		NO	BSL
86-73-7	Fluorene	170	J	11000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	11000		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	260	J	26000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	26000		2100	ca		YES	ASL
91-20-3	Naphthalene	4700		4700		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/3	380 - 1800	4700		19000	nc	170000	NO	BSL
85-01-8	Phenanthrene	850		55000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	55000		10000000	nc		NO	NTX
129-00-0	Pyrene	1100		71000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	71000		2900000	nc		NO	BSL
72-55-9	4,4'-DDE	42		42		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/3	3.5 - 3.5	42	16.7	7000	ca		NO	BSL
50-29-3	4,4'-DDT	15		47		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	47	29.1	7000	ca*		NO	BSL

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
1031-07-8	Endosulfan Sulfate	11		48		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	48	4.69	370000	ca		NO	NTX
53494-70-5	Endrin Ketone	8.8		30		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	30	5.31	18000	nc		NO	NTX
5103-74-2	gamma-Chlordane	6.8		380		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	380	2.67	6500	ca	72000	NO	NTX
TE	Toxicity Equivalency	0.011		0.011		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/1	0 - 0	0.011		0.027	ca		NO	BSL
7429-90-5	Aluminum	5820		12300		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	12300	12900				NO	EPA-I
7440-38-2	Arsenic	2.4		5.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5.2	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	29.1		642		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	642	57.5	6700	nc	710000	NO	BSL
7440-70-2	Calcium	644	J	1060		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	1060	1600				NO	NUT
7440-47-3	Chromium	13.4		27.8		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	27.8	17	64	ca	280	NO	BSL
7440-48-4	Cobalt	3.6		5.7		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5.7	6.35				NO	EPA-I
7440-50-8	Copper	16.5		18700		mg/kg	OU6-SO-BA2-213-0204	21/28	150 - 150	18700	28.8				NO	EPA-I
7439-89-6	Iron	9030		17100		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	17100	16000				NO	EPA-I
7439-92-1	Lead	8.2		9340		mg/kg	OU6-SO-BA2-213-0204	21/28	40 - 40	9340	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	2590		6000		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	6000	3250				NO	NUT
7439-96-5	Manganese	158		205		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	205	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.058	J	0.058	J	mg/kg	OU6-SO-BA2-205A-0204	1/3	0.038 - 0.044	0.058	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	12.2		45.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	45.2	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	934		2060		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	2060	961				NO	NUT
7440-23-5	Sodium	126	J	256	J	mg/kg	OU6-SO-BA2-205A-0406	2/3	64.2 - 64.2	256	76.4				NO	NUT
7440-62-2	Vanadium	19.8		37.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	37.2	34.2	720	nc		NO	BSL
7440-66-6	Zinc	33.1		142		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	142	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.9	, *	40		%	OU6-SO-BA2-213-0204	21/28	0.1 - 0.1	40		1			YES	ASL

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
78-93-3	2-Butanone	18		18		µg/kg	OU6-SO-WP-201-0002-MAX	1/3	4 - 6	18		730000 nc		NO	BSL
67-64-1	Acetone	13	J	84	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	84		160000 nc		NO	BSL
71-43-2	Benzene	0.9	J	0.9	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	0.9		600 ca*	800	NO	BSL
75-15-0	Carbon Disulfide	3	J	3	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	3		36000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	32	J	32	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	32		15000 nc	130000	NO	BSL
156-59-2	cis-1,2-Dichloroethene	0.7	J	0.7	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	0.7		4300 nc		NO	BSL
110-82-7	Cyclohexane	5	J	5	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	5		14000 sat		NO	BSL
100-41-4	Ethylbenzene	110	*J	110	*J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	110		8900 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	31	J	31	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	31		57000 nc		NO	BSL
79-20-9	Methyl Acetate	7		7		µg/kg	OU6-SO-WP-201-0002-MAX	1/3	4 - 6	7		2200000 nc		NO	BSL
108-87-2	Methylcyclohexane	1		49	J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	49		260000 nc		NO	BSL
108-88-3	Toluene	2		1000	*J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	1000		66000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	2		600	*J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	600		27000 nc		NO	BSL
92-52-4	1,1'-Biphenyl	1100	J	1300	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	1300		300000 sat		NO	BSL
105-67-9	2,4-Dimethylphenol	1200	J	3200	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3200		120000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	1300		4100	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	4100		5600 nc		NO	BSL
95-48-7	2-Methylphenol	440	J	860	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	860		310000 nc		NO	BSL
106-44-5	4-Methylphenol	1700	J	3300	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3300		31000 nc		NO	BSL
83-32-9	Acenaphthene	1200		1600	J	µg/kg	OU6-SO-WP-201-0204	3/3	0 - 0	1600		370000 nc		NO	BSL
208-96-8	Acenaphthylene	5400	J	6500		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	6500		5600 nc		YES	ASL
98-86-2	Acetophenone	750	J	750	J	µg/kg	OU6-SO-WP-201-0406	1/3	3500 - 3800	750		49 nc		YES	ASL
120-12-7	Anthracene	5600		6700		µg/kg	OU6-SO-WP-201-0204	3/3	0 - 0	6700		2200000 nc		NO	BSL
100-52-7	Benzaldehyde	1200	JEB	1200	JEB	µg/kg	OU6-SO-WP-201-0406	1/3	3500 - 3800	1200		610000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	18000		24000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	24000		620 ca		YES	ASL

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
50-32-8	Benzo(a)pyrene	13000		19000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	19000		62 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	10000		18000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	18000		620 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	5700		8800		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	8800		230000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	13000		16000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	16000		6200 ca		YES	ASL
86-74-8	Carbazole	1200		2300	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	2300		24000 ca		NO	BSL
218-01-9	Chrysene	20000		25000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	25000		62000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	3800		3800		µg/kg	OU6-SO-WP-201-0002-MAX	1/3	3800 - 5500	3800		62 ca		YES	ASL
132-64-9	Dibenzofuran	1300		2900	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	2900		29000 nc		NO	BSL
206-44-0	Fluoranthene	28000		42000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	42000		230000 nc		NO	BSL
86-73-7	Fluorene	4100		6500		µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	6500		270000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	6000		9400		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	9400		620 ca		YES	ASL
91-20-3	Naphthalene	910		5600		µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	5600		5600 nc	170000	NO	BSL
85-01-8	Phenanthrene	21000		26000		µg/kg	OU6-SO-WP-201-0204, OU6-SO-WP-201-0406	3/3	0 - 0	26000		2200000 nc		NO	BSL
108-95-2	Phenol	1800	J	3500	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3500		3700000 nc		NO	BSL
129-00-0	Pyrene	32000		44000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	44000		230000 nc		NO	BSL
72-55-9	4,4'-DDE	65	#	75	#	µg/kg	OU6-SO-WP-201-0406	2/4	17 - 42	75	16.7	1700 ca		NO	BSL
50-29-3	4,4'-DDT	46	#	68		µg/kg	OU6-SO-WP-201-0002-MAX	2/4	40 - 42	68	29.1	1700 ca*		NO	BSL
5103-71-9	alpha-Chlordane	31	J*	31	J*	µg/kg	WP-OB-B+50	1/4	8.7 - 21	31	4.88	1600 ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	15895		44575		µg/kg	OU6-SO-WP-201-0406	3/4	170 - 170	44575		220 ca		YES	ASL
37324-23-5	Aroclor-1262	14000	J	14000	J	µg/kg	WP-OB-B+50	1/4	170 - 400	14000	36.8	220 ca		YES	ASL
11100-14-4	Aroclor-1268	20000		43000	*	µg/kg	OU6-SO-WP-201-0406	2/4	170 - 420	43000	46.1	220 ca		YES	ASL
959-98-8	Endosulfan I	270	J	270	J	µg/kg	WP-OB-B+50	1/4	8.7 - 21	270	4.52	37000 nc		NO	BSL
1031-07-8	Endosulfan Sulfate	49		49		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	35 - 42	49	4.69			NO	NTX

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
53494-70-5	Endrin Ketone	75		75		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	35 - 42	75	5.31	1800 nc		NO	BSL
5103-74-2	gamma-Chlordane	450		450		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	18 - 22	450	2.67	1600 ca	72000	NO	BSL
72-43-5	Methoxychlor	120		270		µg/kg	OU6-SO-WP-201-0406	2/4	210 - 220	270	22.3	31000 nc		NO	BSL
TE	Toxicity Equivalency	2	J	2	J	µg/kg	OU6-SO-WP-201-0204	1/1	0 - 0	2		0.0039 ca		YES	ASL
7429-90-5	Aluminum	5550		7430		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	7430	12900			NO	EPA-I
7440-38-2	Arsenic	3.3		5.6		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	5.6	5.67	0.39 ca*	770	YES	ASL
7440-39-3	Barium	35.2		14300		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	14300	57.5	540 nc	710000	YES	ASL
7440-41-7	Beryllium	0.54	J	0.54	J	mg/kg	WP-OB-B+50	1/4	0.3 - 0.35	0.54	0.719	15 nc	1400	NO	BSL
7440-43-9	Cadmium	0.4		0.83		mg/kg	OU6-SO-WP-201-0406	3/4	0.04 - 0.04	0.83	0.397	3.7 nc	1800	NO	BSL
7440-70-2	Calcium	1140		1770		mg/kg	WP-OB-B+50	4/4	0 - 0	1770	1600			NO	NUT
7440-47-3	Chromium	13.3		75.4		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	75.4	17	30 ca	280	YES	ASL
7440-48-4	Cobalt	4		13.3		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	13.3	6.35			NO	EPA-I
7440-50-8	Copper	20.1		14000	J	mg/kg	OU6-SO-WP-201-0406	6/6	0 - 0	14000	28.8			NO	EPA-I
7439-89-6	Iron	11700	J	16400		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	16400	16000			NO	EPA-I
7439-92-1	Lead	25.5		17300		mg/kg	OU6-SO-WP-201-0406	6/6	0 - 0	17300	80.8	400 nc		YES	ASL
7439-95-4	Magnesium	3200		30200		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	30200	3250			NO	NUT
7439-96-5	Manganese	172	J	321		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	321	306	180 nc		YES	ASL
7440-02-0	Nickel	8.8		238		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	238	12.5	160 nc	14000	YES	ASL
7440-09-7	Potassium	953	J	1670		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	1670	961			NO	NUT
7440-22-4	Silver	0.43	J	1.1		mg/kg	OU6-SO-WP-201-0406	2/4	0.18 - 0.51	1.1	0.508	39 nc		NO	BSL
7440-23-5	Sodium	162	J	164		mg/kg	OU6-SO-WP-201-0002-MAX	2/4	77.7 - 108	164	76.4			NO	NUT
7440-62-2	Vanadium	20.5		26.9		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	26.9	34.2	55 nc		NO	BSL
7440-66-6	Zinc	37.4		1440		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	1440	112	2300 nc		NO	BSL
ASBESTOS	Asbestos	2		60		%	WP-OB-B+50	5/6	0.1 - 0.1	60		1		YES	ASL

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:
- Infrequent Detection but Associated Historically (HIST)
- Frequent Detection (FD)
- Toxicity Information Available (TX)
- Above Screening Levels (ASL)

Deletion Reason:
- Infrequent Detection (IFD)
- Background Levels (BKG)
- No Toxicity Information (NTX)
- Essential Nutrient (NUT)
- Below Screening Level (BSL)
- EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)		COPC Flag	Rationale for Contaminant Deletion or Selection (5)
67-64-1	Acetone	38		550	J	ug/kg	OU6-SO-3A35-202-0810	4/6	31 - 80	550		160000	nc		SSLI	NO	BSL
71-43-2	Benzene	1	J	1	J	ug/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	1		600	ca*	800	SSLI	NO	BSL
75-15-0	Carbon Disulfide	0.9		13	J	ug/kg	OU6-SO-3A35-202-1012	2/6	5 - 12	13		36000	nc	720000	SSLI	NO	BSL
100-41-4	Ethylbenzene	2	J	2	J	ug/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	2		8900	ca	400000	SSLI	NO	BSL
79-20-9	Methyl Acetate	3	J	3	J	ug/kg	OU6-SO-3A35-202-0204	1/6	5 - 16	3		2200000	nc		SSLI	NO	BSL
108-88-3	Toluene	22	J	22	J	ug/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	22		52000	sat	650000	SSLI	NO	BSL
1330-20-7	Total Xylenes	13	J	13	J	ug/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	13		27000	nc		SSLI	NO	BSL
105-67-9	2,4-Dimethylphenol	370	J	370	J	ug/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	370		120000	nc		SSLI	NO	BSL
106-44-5	4-Methylphenol	1100		1100		ug/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	1100		31000	nc		SSLI	NO	BSL
83-32-9	Acenaphthene	76	J	76	J	ug/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	76		370000	nc		SSLI	NO	BSL
208-96-8	Acenaphthylene	60	J	640	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	640		5600	nc		SSLI	NO	BSL
98-86-2	Acetophenone	44		310	J	ug/kg	OU6-SO-3A35-202-0810	3/6	400 - 3800	310		49	nc		SSLI	YES	ASL
120-12-7	Anthracene	110	J	550	J	ug/kg	OU6-SO-3A35-202-0608	4/6	400 - 640	550		2200000	nc		SSLI	NO	BSL
100-52-7	Benzaldehyde	150	JEB	150	JEB	ug/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	150		610000	nc		SSLI	NO	BSL
56-55-3	Benzo(a)anthracene	250	J	2700	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2700		620	ca		SSLI	YES	ASL
50-32-8	Benzo(a)pyrene	260	J	2800	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2800		62	ca		SSLI	YES	ASL
205-99-2	Benzo(b)fluoranthene	240	J	2500	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2500		620	ca		SSLI	YES	ASL
191-24-2	Benzo(g,h,i)perylene	150	J	910	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	910		230000	nc		SSLI	NO	BSL
207-08-9	Benzo(k)fluoranthene	210	J	2500	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2500		6200	ca		SSLI	NO	BSL
85-68-7	Butylbenzylphthalate	74		74		ug/kg	OU6-SO-3A35-202-0406-MAX	1/6	400 - 3800	74		1200000	nc		SSLI	NO	BSL
86-74-8	Carbazole	53		200	J	ug/kg	OU6-SO-3A35-202-0608	2/2	0 - 0	200		24000	ca		SSLI	NO	BSL
218-01-9	Chrysene	310	J	3000	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	3000		62000	ca		SSLI	NO	BSL
53-70-3	Dibenzo(a,h)anthracene	260	J	260	J	ug/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	260		62	ca		SSLI	YES	ASL
132-64-9	Dibenzofuran	65	J	65	J	ug/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	65		29000	nc		SSLI	NO	BSL
206-44-0	Fluoranthene	440		5300		ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	5300		230000	nc		SSLI	NO	BSL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		Soil Screening Level for Inhalation (4)		COPC Flag	Rationale for Contaminant Deletion or Selection (5)
86-73-7	Fluorene	51		210	J	ug/kg	OU6-SO-3A35-202-0608	2/6	400 - 3800	210		270000	nc		SSLI	NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	150	J	1200	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	1200		620	ca		SSLI	YES	ASL
91-20-3	Naphthalene	47		47		ug/kg	OU6-SO-3A35-202-0406-MAX	1/6	400 - 3800	47		5600	nc	170000	SSLI	NO	BSL
85-01-8	Phenanthrene	180	J	2300	J	ug/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2300		2200000	nc		SSLI	NO	BSL
129-00-0	Pyrene	460		4700		ug/kg	OU6-SO-3A35-202-0002	4/5	640 - 640	4700		230000	nc		SSLI	NO	BSL
72-54-8	4,4'-DDD	3	J	35		ug/kg	OU6-SO-3A35-202-0204	2/6	3.8 - 70	35	4.6	2400	ca		SSLI	NO	BSL
72-55-9	4,4'-DDE	4.9	J#	230	#	ug/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	230	16.7	1700	ca		SSLI	NO	BSL
50-29-3	4,4'-DDT	5.1		170	#	ug/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	170	29.1	1700	ca*		SSLI	NO	BSL
5103-71-9	alpha-Chlordane	2.3		12		ug/kg	OU6-SO-3A35-202-0608	4/6	3.3 - 36	12	4.88	1600	ca	72000	SSLI	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	219		35800		ug/kg	OU6-SO-3A35-202-0810	7/9	29 - 40	35800		220	ca		SSLI	YES	ASL
11096-82-5	Aroclor-1260	47		52		ug/kg	OU6-SO-3A35-202-0406-MAX	2/9	29 - 700	52	46.1	220	ca		SSLI	NO	BSL
37324-23-5	Aroclor-1262	130		17000		ug/kg	OU6-SO-3A35-202-0810	6/9	29 - 40	17000	36.8	220	ca		SSLI	YES	ASL
11100-14-4	Aroclor-1268	360		16000		ug/kg	OU6-SO-3A35-202-0810	5/9	29 - 40	16000	46.1	220	ca		SSLI	YES	ASL
60-57-1	Dieldrin	4.1		40		ug/kg	OU6-SO-3A35-202-0204	2/6	3.8 - 70	40	13.1	30	ca	1000	SSLI	YES	ASL
53494-70-5	Endrin Ketone	4.3		5.6		ug/kg	OU6-SO-3A35-202-0002	2/6	4 - 70	5.6	5.31	1800	nc		SSLI	NO	BSL
5103-74-2	gamma-Chlordane	1.7	J	8.9		ug/kg	OU6-SO-3A35-202-0608	4/6	3.3 - 36	8.9	2.67	1600	ca	72000	SSLI	NO	BSL
TE	Toxicity Equivalency	0.015	J	0.015	J	ug/kg	OU6-SO-3A35-202-0608	1/1	0 - 0	0.015		0.0039	ca		SSLI	YES	ASL
7429-90-5	Aluminum	3660		11900		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	11900	12900				SSLI	NO	EPA-I
7440-36-0	Antimony	4.2	J	4.2	J	mg/kg	OU6-SO-3A35-202-0810	1/6	0.55 - 0.97	4.2	2.86	3.1	nc		SSLI	YES	ASL
7440-38-2	Arsenic	2.8		12.2		mg/kg	OU6-SO-3A35-202-0608	6/6	0 - 0	12.2	5.67	0.39	ca*	770	SSLI	YES	ASL
7440-39-3	Barium	29.6		9930		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	9930	57.5	540	nc	710000	SSLI	YES	ASL
7440-41-7	Beryllium	0.43		0.59		mg/kg	OU6-SO-3A35-202-1012	3/6	0.088 - 0.32	0.59	0.719	15	nc	1400	SSLI	NO	BSL
7440-43-9	Cadmium	1		1		mg/kg	OU6-SO-3A35-202-0810	1/6	0.044 - 0.28	1	0.397	3.7	nc	1800	SSLI	NO	BSL
7440-70-2	Calcium	1070	J	2390	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	2390	1600				SSLI	NO	NUT
7440-47-3	Chromium	11.8		156	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	156	17	30	ca	280	SSLI	YES	ASL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-48-4	Cobalt	3.8		20.3		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	20.3	6.35		SSLI	NO	EPA-I
7440-50-8	Copper	21.9	J	28100	J	mg/kg	OU6-SO-3A35-305-0810-MAX	29/54	150 - 200	28100	28.8		SSLI	NO	EPA-I
7439-89-6	Iron	10400		34000		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	34000	16000		SSLI	NO	EPA-I
7439-92-1	Lead	14.6		18200		mg/kg	OU6-SO-3A35-305-0810-MAX	49/54	40 - 40	18200	80.8	400 nc	SSLI	YES	ASL
7439-95-4	Magnesium	2110		53100		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	53100	3250		SSLI	NO	NUT
7439-96-5	Manganese	209		364	J	mg/kg	OU6-SO-3A35-202-0002	6/6	0 - 0	364	306	180 nc	SSLI	YES	ASL
7439-97-6	Mercury	0.045	J	0.23	J	mg/kg	OU6-SO-3A35-202-0810	4/6	0.055 - 0.089	0.23	0.111	2.3 nc	10 SSLI	NO	BSL
7440-02-0	Nickel	11.3		439		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	439	12.5	160 nc	14000 SSLI	YES	ASL
7440-09-7	Potassium	414		2600		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	2600	961		SSLI	NO	NUT
7440-22-4	Silver	7		7		mg/kg	OU6-SO-3A35-202-0810	1/6	0.2 - 0.35	7	0.508	39 nc	SSLI	NO	BSL
7440-23-5	Sodium	4330		4330		mg/kg	OU6-SO-3A35-202-1012	1/6	93.7 - 253	4330	76.4		SSLI	NO	NUT
7440-62-2	Vanadium	17.8		43.3		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	43.3	34.2	55 nc	SSLI	NO	BSL
7440-66-6	Zinc	42.9	J	7270	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	7270	112	2300 nc	SSLI	YES	ASL
ASBESTOS	Asbestos	0.9	*	40	*	%	OU6-SO-3A35-306-0810	23/24	0.1 - 0.1	40	0.99	1	SSLI	YES	ASL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.
(2) N/A - Refer to supporting information for background discussion.
Background values are the average of off-site background concentrations.
(3) Region IX PRG residential soil 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1
(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.
(5) Rationale Codes Selection Reason:
Infrequent Detection but Associated Historically (HIST)
Frequent Detection (FD)
Toxicity Information Available (TX)
Above Screening Levels (ASL)
Deletion Reason:
Infrequent Detection (IFD)
Background Levels (BKG)
No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)
EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions:
N/A = Not Applicable
SQL = Sample Quantitation Limit
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
J = Estimated Value
EB = present in equipment blank
* = From dilution analysis or estimated maximum possible concentration
# = Possible false positive due to interference
ca = Carcinogenic
ca* = where nc < 100X ca
ca** = where nc < 10X ca
nc = Non-Carcinogenic
sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.
max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 3.1A
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lockwood Avenue Property

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1400	6.40E+03	5800	*	µg/kg	5800	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	4.40E+03	5200		µg/kg	4400	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1700	9.60E+03	5000		µg/kg	5000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	390	1.10E+03	680		µg/kg	680	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	710	2.20E+03	4500		µg/kg	2200	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1254, 1262, 1268)	µg/kg	7800	5.60E+04	96550		µg/kg	56000	95% UCL-T	W-Test(1)
Dieldrin	µg/kg	190	4.50E+02	2600	J	µg/kg	450	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.12	1.70E+00	0.350845	J	µg/kg	0.35	Max	W-Test(2)
Antimony	mg/kg	17.3	1.14E+02	51.4		mg/kg	51.4	Max	W-Test(2)
Arsenic	mg/kg	12	3.34E+01	56		mg/kg	33.4	95% UCL-T	W-Test(1)
Cadmium	mg/kg	11.9	3.26E+01	149		mg/kg	32.6	95% UCL-T	W-Test(1)
Chromium	mg/kg	410	2.01E+03	3270	J	mg/kg	2010	95% UCL-T	W-Test(1)
Lead	mg/kg	785	1.49E+03	10600	J	mg/kg	1490	95% UCL-T	W-Test(1)
Thallium	mg/kg	2	4.00E+00	8.4		mg/kg	4	95% UCL-T	W-Test(1)
Asbestos	%	7	4.30E+01	50		%	43	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.1B
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY (RECREATIONAL USE)
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lockwood Avenue Property

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1400	6400	5800	*	ug/kg	5800	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	4400	5200		ug/kg	4400	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1700	9600	5000		ug/kg	5000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	390	1100	680		ug/kg	680	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	710	2200	4500		ug/kg	2200	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1254, 1262, 1268)	µg/kg	7800	56000	96550		ug/kg	56000	95% UCL-T	W-Test(1)
Dieldrin	µg/kg	190	450	2600	J	ug/kg	450	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.12	1.7	0.350845	J	ug/kg	0.35	Max	W-Test(2)
Antimony	mg/kg	17.3	114	51.4		mg/kg	51.4	Max	W-Test(2)
Arsenic	mg/kg	12	33.4	56		mg/kg	33.4	95% UCL-T	W-Test(1)
Barium	mg/kg	943	12900	3770	J	mg/kg	3770	Max	W-Test(2)
Cadmium	mg/kg	11.9	32.6	149		mg/kg	32.6	95% UCL-T	W-Test(1)
Chromium	mg/kg	410	2010	3270	J	mg/kg	2010	95% UCL-T	W-Test(1)
Lead	mg/kg	785	1490	10600	J	mg/kg	1490	95% UCL-T	W-Test(1)
Manganese	mg/kg	300	396	722	J	mg/kg	396	95% UCL-T	W-Test(1)
Nickel	mg/kg	72	157	457	J	mg/kg	157	95% UCL-T	W-Test(1)
Thallium	mg/kg	2	4	8.4		mg/kg	4	95% UCL-T	W-Test(1)
Vanadium	mg/kg	57.5	87	224		mg/kg	87	95% UCL-T	W-Test(1)
Zinc	mg/kg	674	1950	5930		mg/kg	1950	95% UCL-T	W-Test(1)
Asbestos	%	7	43	50		%	43	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
200 FERRY BOULEVARD
DRAFT FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 200 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead	mg/kg	213	9.62E+02	817		mg/kg	817	Max	W-Test(2)
Asbestos	%	10	3.30E+01	25		%	25	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK 0U6 - 230 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 230 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	880	1.30E+03	1600		µg/kg	1300	95% UCL-N	W-Test(3)
Benzo(a)anthracene	µg/kg	1800	9.90E+03	9100	*	µg/kg	9100	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1800	1.00E+04	9100	*	µg/kg	9100	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	1500	6.00E+03	6200	*J	µg/kg	6000	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	510	9.50E+02	2300		µg/kg	950	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	980	4.00E+03	4600		µg/kg	4000	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1262, 1268)	µg/kg	57000	4.80E+06	278000		µg/kg	280000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	4.9	1.45E+09	20.14	J	µg/kg	20.1	Max	W-Test(2)
Arsenic	mg/kg	6	7.20E+00	8.8		mg/kg	7.2	95% UCL-N	W-Test(3)
Barium	mg/kg	5010	5.22E+05	16700		mg/kg	16700	Max	W-Test(2)
Chromium	mg/kg	120	1.72E+02	301		mg/kg	172	95% UCL-N	W-Test(3)
Lead	mg/kg	6620	9.71E+04	40100		mg/kg	40100	Max	W-Test(2)
Asbestos	%	22	3.80E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.4
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 250 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 250 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	1800	3.20E+05	9400	*	µg/kg	9400	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	2600	1.00E+04	13000		µg/kg	10000	95% UCL-T	W-Test(1)
Benzo(a)pyrene	µg/kg	3200	1.30E+04	12000		µg/kg	12000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2500	7.80E+03	11000		µg/kg	7800	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	2100	8.90E+03	370	J	µg/kg	370	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	2300	6.80E+03	5700		µg/kg	5700	Max	W-Test(2)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	24000	1.20E+06	180340		µg/kg	180000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.67	2.03E+02	2.6	J	µg/kg	2.6	Max	W-Test(2)
Arsenic	mg/kg	8.4	1.12E+01	18.5		mg/kg	11.2	95% UCL-T	W-Test(1)
Barium	mg/kg	3950	5.94E+04	14500		mg/kg	14500	Max	W-Test(2)
Chromium	mg/kg	53.1	8.61E+01	141		mg/kg	86.1	95% UCL-T	W-Test(1)
Lead	mg/kg	3700	1.30E+04	25400		mg/kg	13000	95% UCL-T	W-Test(1)
Asbestos	%	25	1.30E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 280 Ferry Blvd

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Trichloroethene	µg/kg	76	2.80E+03	330	J	µg/kg	330	Max	W-Test(2)
Acetophenone	µg/kg	2400	2.80E+04	7000	J	µg/kg	7000	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	6300	4.90E+04	20000		µg/kg	20000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	5300	3.10E+04	17000		µg/kg	17000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	5200	3.00E+04	18000		µg/kg	18000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	2300	1.60E+04	3900	J	µg/kg	3900	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	3800	2.40E+04	10000	J	µg/kg	10000	Max	W-Test(2)
Aroclor, Total (Conservative) (1242,1248,1254,1262,1268)	µg/kg	83000	1.10E+05	170450		µg/kg	110000	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	2.8	4.00E+00	7.4	J	µg/kg	4	95% UCL-N	W-Test(3)
Arsenic	mg/kg	5.9	7.80E+00	9.7		mg/kg	7.8	95% UCL-T	W-Test(1)
Barium	mg/kg	7410	9.29E+03	13600		mg/kg	9290	95% UCL-N	W-Test(3)
Chromium	mg/kg	111	1.36E+02	180		mg/kg	136	95% UCL-N	W-Test(3)
Lead	mg/kg	8670	4.74E+04	41700	J	mg/kg	41700	Max	W-Test(2)
Asbestos	%	32	1.90E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 300 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 300 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	200	NA	180	J	µg/kg	180	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	430	5.40E+02	580		µg/kg	540	95% UCL-N	W-Test(3)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	62000	3.20E+06	290000		µg/kg	290000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.33	6.00E-01	0.61	J	µg/kg	0.6	95% UCL-N	W-Test(3)
Arsenic	mg/kg	6.2	7.60E+00	10		mg/kg	7.6	95% UCL-T	W-Test(1)
Cadmium	mg/kg	7.1	1.77E+03	47.3		mg/kg	47.3	Max	W-Test(2)
Chromium	mg/kg	69.1	8.68E+01	92.4	J	mg/kg	86.8	95% UCL-N	W-Test(3)
Lead	mg/kg	5480	5.74E+04	46000		mg/kg	46000	Max	W-Test(2)
Asbestos	%	28	5.00E+02	75		%	75	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lot Behind 326 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	340	8.80E+02	730	J	µg/kg	730	Max	W-Test(2)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	39000	1.20E+08	218510		µg/kg	220000	Max	W-Test(2)
Dieldrin	µg/kg	29	7.90E+03	120	#	µg/kg	120	Max	W-Test(2)
Toxicity Equivalency	µg/kg	2.5	NA	2.48		µg/kg	2.5	Max	W-Test(4)
Arsenic	mg/kg	6.2	8.60E+00	9.3		mg/kg	8.6	95% UCL-N	W-Test(3)
Barium	mg/kg	2930	1.31E+08	10500		mg/kg	10500	Max	W-Test(2)
Chromium	mg/kg	41.4	1.97E+02	105		mg/kg	105	Max	W-Test(2)
Lead	mg/kg	1930	9.13E+03	12900		mg/kg	9130	95% UCL-T	W-Test(1)
Asbestos	%	13	1.90E+02	60		%	60	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.8
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Vacant Lot at Housatonic Avenue

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	2300	3.90E+05	6700		µg/kg	6700	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	2000	2.10E+04	5700		µg/kg	5700	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2200	2.40E+04	6200		µg/kg	6200	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	520	9.80E+02	1000		µg/kg	980	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	1100	5.70E+03	3000		µg/kg	3000	Max	W-Test(2)
4,4'-DDT	µg/kg	950	1.40E+12	4600	J	µg/kg	4600	Max	W-Test(2)
Aroclor, Total (Conservative) (1248,1254,1262,1268)	µg/kg	43000	6.40E+04	89400		µg/kg	64000	95% UCL-N	W-Test(3)
Endrin Ketone	µg/kg	240	1.90E+03	2000		µg/kg	1900	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	2.3	2.98E+03	10.539		µg/kg	10.5	Max	W-Test(2)
Antimony	mg/kg	6.4	1.15E+01	6.5		mg/kg	6.5	Max	W-Test(2)
Arsenic	mg/kg	5.9	7.50E+00	9.7	J	mg/kg	7.5	95% UCL-N	W-Test(3)
Barium	mg/kg	8280	1.29E+04	21000		mg/kg	12900	95% UCL-N	W-Test(3)
Chromium	mg/kg	103	1.48E+02	227		mg/kg	148	95% UCL-N	W-Test(3)
Lead	mg/kg	8590	2.28E+05	35400		mg/kg	35400	Max	W-Test(2)
Manganese	mg/kg	280	4.38E+02	592	J	mg/kg	438	95% UCL-T	W-Test(1)
Nickel	mg/kg	239	3.09E+03	580		mg/kg	580	Max	W-Test(2)
Vanadium	mg/kg	32.8	8.22E+01	77	J	mg/kg	77	Max	W-Test(2)
Zinc	mg/kg	1170	1.63E+04	4730		mg/kg	4730	Max	W-Test(2)
Asbestos	%	26	1.90E+02	80		%	80	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.9
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 326 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 326 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	960	5.40E+03	2600	J	µg/kg	2600	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	4.40E+03	2600	J	µg/kg	2600	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	610	8.20E+03	290	J	µg/kg	290	Max	W-Test(2)
Aroclor, Total (Conservative) (1260, 1268)	µg/kg	1700	2.70E+04	3971		µg/kg	4000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.031	NA	0.031		µg/kg	0.031	Max	W-Test(2)
Arsenic	mg/kg	4.7	9.80E+00	9.6		mg/kg	9.6	Max	W-Test(2)
Asbestos	%	3	1.10E+01	8		%	8	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 576 East Broadway

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	790	4.50E+03	3200	J	µg/kg	3200	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	740	4.50E+03	2000	J	µg/kg	2000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	880	6.40E+03	2900	J	µg/kg	2900	Max	W-Test(2)
Aroclor, Total (Conservative) (1254,1262,1268)	µg/kg	71000	2.10E+06	413300		µg/kg	410000	Max	W-Test(2)
Dieldrin	µg/kg	230	9.80E+02	3000	*	µg/kg	980	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	2.7	4.41E+02	16.794	J	µg/kg	16.8	Max	W-Test(2)
Arsenic	mg/kg	8.1	1.97E+01	21.9		mg/kg	19.7	95% UCL-T	W-Test(1)
Barium	mg/kg	4680	9.26E+04	17000		mg/kg	17000	Max	W-Test(2)
Chromium	mg/kg	157	5.96E+02	906		mg/kg	596	95% UCL-T	W-Test(1)
Lead	mg/kg	3790	4.22E+04	24700		mg/kg	24700	Max	W-Test(2)
Thallium	mg/kg	1.7	3.30E+00	13.2	J	mg/kg	3.3	95% UCL-T	W-Test(1)
Asbestos	%	23	8.40E+01	90		%	84	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.11
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 600 East Broadway

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Trichloroethene	µg/kg	31	1.40E+02	120		µg/kg	120	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	1200	4.80E+03	3600		µg/kg	3600	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	3.70E+03	2500	J	µg/kg	2500	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	1300	5.90E+03	5000		µg/kg	5000	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	960	3.90E+03	2200	J	µg/kg	2200	Max	W-Test(2)
Aroclor, Total (Conservative) (1254,1262,1268)	µg/kg	13000	8.60E+04	97525		µg/kg	86000	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.3	4.50E-01	1.03	J	µg/kg	0.45	95% UCL-N	W-Test(3)
Arsenic	mg/kg	34.1	6.19E+01	263	J	mg/kg	61.9	95% UCL-T	W-Test(1)
Barium	mg/kg	4330	3.58E+04	10900		mg/kg	10900	Max	W-Test(2)
Chromium	mg/kg	106	2.21E+02	240		mg/kg	221	95% UCL-T	W-Test(1)
Lead	mg/kg	2320	1.29E+04	25600	J	mg/kg	12900	95% UCL-T	W-Test(1)
Zinc	mg/kg	2600	1.29E+04	24000	J	mg/kg	12900	95% UCL-T	W-Test(1)
Asbestos	%	19	1.50E+02	85		%	85	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.12
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Vacant DOT Lot Abutting I-95

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	680	3800	2300	J	ug/kg	2300	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	950	7200	3300		ug/kg	3300	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	510	1000	400	J	ug/kg	400	Max	W-Test(2)
Aroclor, Total (Conservative) (1268)	µg/kg	3600	99000	22600		ug/kg	23000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.029	2.3	0.0869		ug/kg	0.087	Max	W-Test(2)
Arsenic	mg/kg	5.1	12	18.7		mg/kg	12	95% UCL-T	W-Test(1)
Chromium	mg/kg	35.3	53.6	68.5		mg/kg	53.6	95% UCL-T	W-Test(1)
Lead	mg/kg	991	3680	7360		mg/kg	3680	95% UCL-T	W-Test(1)
Asbestos	%	6	49	40		%	40	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.13A
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - CT RIGHT-OF-WAY
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: CT Right-of-Way

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1300	2400	3200		ug/kg	2400	95% UCL-T	W-Test(1)
Benzo(a)pyrene	µg/kg	1200	1900	2700		ug/kg	1900	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1500	2600	6000	J	ug/kg	2600	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	310	530	280		ug/kg	280	Max	W-Test(2)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	3700	4900	7580		ug/kg	4900	95% UCL-N	W-Test(3)
Arsenic	mg/kg	12.9	27.5	80.3		mg/kg	27.5	95% UCL-T	W-Test(1)
Chromium	mg/kg	41.6	92.3	287		mg/kg	92.3	95% UCL-T	W-Test(1)
Lead	mg/kg	401	1210	1810	J	mg/kg	1210	95% UCL-T	W-Test(1)
Asbestos	%	3	19	15.9	*	%	16	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.13B
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: CT Right-of-Way - Residential Portion

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1200	2400	2200		ug/kg	2200	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	1800	1800		ug/kg	1800	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	820	1200	1400		ug/kg	1200	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	180	270	280		ug/kg	270	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	450	660	740		ug/kg	660	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	3800	5200	5848.5		ug/kg	5200	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	0.026	NA	0.026		ug/kg	0.026	Max	W-Test(4)
Arsenic	mg/kg	4.4	5.5	6.3		mg/kg	5.5	95% UCL-N	W-Test(3)
Barium	mg/kg	456	768	912	J	mg/kg	768	95% UCL-T	W-Test(1)
Lead	mg/kg	494	662	982	J	mg/kg	662	95% UCL-N	W-Test(3)
Manganese	mg/kg	137	176	218	J	mg/kg	176	95% UCL-T	W-Test(1)
Asbestos	%	4	9	15.9	*	%	9	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.14
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 304 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 304 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	230	NA	300	J	µg/kg	300	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	210	2.80E+02	300	J	µg/kg	280	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	130000	4.70E+12	510850		µg/kg	510000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.47	NA	0.474		µg/kg	0.47	Max	W-Test(4)
Arsenic	mg/kg	11.7	1.61E+01	21.9		mg/kg	16.1	95% UCL-N	W-Test(3)
Barium	mg/kg	2420	2.29E+05	8110		mg/kg	8110	Max	W-Test(2)
Chromium	mg/kg	26.5	9.23E+01	76.5		mg/kg	76.5	Max	W-Test(2)
Lead	mg/kg	5910	8.49E+04	43400		mg/kg	43400	Max	W-Test(2)
Zinc	mg/kg	4210	1.69E+06	18400		mg/kg	18400	Max	W-Test(2)
Asbestos	%	16	4.60E+02	50		%	50	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.15
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 340 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 340 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Aroclor, Total (Conservative) (1262,1268)	µg/kg	1200	NA	1167		µg/kg	1200	Max	W-Test(2)
Lead	mg/kg	4140	2.77E+04	27000		mg/kg	27000	Max	W-Test(2)
Asbestos	%	14	1.40E+02	70		%	70	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.16
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
380 EAST MAIN STREET
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 380 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead	mg/kg	1500	NA	1500		mg/kg	1500	Max	W-Test(4)
Asbestos	%	2	NA	2		%	2	Max	W-Test(4)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.17
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 250 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 250 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	380	3.60E+04	1300	J	µg/kg	1300	Max	W-Test(2)
Aroclor, Total (Conservative) (1268)	µg/kg	1300	1.10E+04	4158.5		µg/kg	4200	Max	W-Test(2)
Arsenic	mg/kg	6.5	1.00E+01	10		mg/kg	10	Max	W-Test(2)
Chromium	mg/kg	83.4	7.59E+03	337		mg/kg	337	Max	W-Test(2)
Lead	mg/kg	2730	2.41E+05	10900		mg/kg	10900	Max	W-Test(2)
Asbestos	%	14	8.10E+03	80		%	80	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.18
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
DPW LOT
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: DPW Lot

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead	mg/kg	398	1.56E+03	2160		mg/kg	1560	95% UCL-T	W-Test(1)
Asbestos	%	5	6.00E+02	30		%	30	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.19
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
251 EAST MAIN STREET
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 251 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Asbestos	%	2	7.5E+13	6.7		%	7	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.20
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - BEACON POINT AREA
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Beacon Point Area

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	2600	2.40E+04	11000	*J	µg/kg	11000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	2200	2.20E+04	9000	*J	µg/kg	9000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2400	2.10E+04	12000	*J	µg/kg	12000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	550	1.60E+03	1800	J	µg/kg	1600	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	1600	9.60E+03	7700	*J	µg/kg	7700	Max	W-Test(2)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	9500	4.00E+07	68750		µg/kg	69000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	2.6	NA	7.81	J	µg/kg	7.8	Max	W-Test(4)
Arsenic	mg/kg	9.6	2.28E+01	35.5		mg/kg	22.8	95% UCL-T	W-Test(1)
Barium	mg/kg	2050	3.67E+04	19700		mg/kg	19700	Max	W-Test(2)
Cadmium	mg/kg	2.7	1.01E+01	10.2	J	mg/kg	10.1	95% UCL-T	W-Test(1)
Chromium	mg/kg	52.3	8.07E+01	199		mg/kg	80.7	95% UCL-T	W-Test(1)
Lead	mg/kg	3080	7.99E+03	49000		mg/kg	7990	95% UCL-T	W-Test(1)
Manganese	mg/kg	389	5.24E+02	938		mg/kg	524	95% UCL-T	W-Test(1)
Nickel	mg/kg	79.4	1.65E+02	547		mg/kg	165	95% UCL-T	W-Test(1)
Zinc	mg/kg	653	2.78E+03	3830		mg/kg	2780	95% UCL-T	W-Test(1)
Asbestos	%	4	2.30E+01	40		%	23	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.21
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - ONE BEACON POINT ROAD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: One Beacon Point Road

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	6900	4.40E+05	15000	*J	µg/kg	15000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	5700	6.50E+05	14000	J	µg/kg	14000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	5700	3.90E+05	12000	*J	µg/kg	12000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	1500	7.70E+05	3500	J	µg/kg	3500	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	3400	1.20E+06	9100	J	µg/kg	9100	Max	W-Test(2)
Aroclor, Total (Conservative) (1254, 1262, 1268)	µg/kg	8000	3.10E+05	23810		µg/kg	24000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.77	NA	0.769		µg/kg	0.77	Max	W-Test(4)
Arsenic	mg/kg	3	4.30E+00	3.9		mg/kg	3.9	Max	W-Test(2)
Chromium	mg/kg	1200	7.62E+16	4270		mg/kg	4270	Max	W-Test(2)
Lead	mg/kg	2210	2.32E+04	14800		mg/kg	14800	Max	W-Test(2)
Manganese	mg/kg	2170	1.61E+10	7220	J	mg/kg	7220	Max	W-Test(2)
Asbestos	%	11	7.40E+02	60		%	60	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.22
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Airport Property North of Marine Basin

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	16000	NA	43000		µg/kg	43000	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	14000	NA	36000		µg/kg	36000	Max	W-Test(4)
Benzo(b)fluoranthene	µg/kg	12000	NA	31000		µg/kg	31000	Max	W-Test(4)
Benzo(k)fluoranthene	µg/kg	14000	NA	37000		µg/kg	37000	Max	W-Test(4)
Dibenzo(a,h)anthracene	µg/kg	4500	NA	12000		µg/kg	12000	Max	W-Test(4)
Indeno(1,2,3-cd)pyrene	µg/kg	9800	NA	26000		µg/kg	26000	Max	W-Test(4)
Arsenic	mg/kg	3.7	NA	5.2		mg/kg	5.2	Max	W-Test(2)
Lead	mg/kg	989	8.13E+03	9340		mg/kg	8130	95% UCL-T	W-Test(1)
Asbestos	%	5	4.00E+01	40		%	40	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.23
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - WOOSTER PARK
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Wooster Park

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	1500	NA	750	J	µg/kg	750	Max	W-Test(4)
Acenaphthylene	µg/kg	6000	NA	6500		µg/kg	6500	Max	W-Test(4)
Benzo(a)anthracene	µg/kg	21000	NA	24000		µg/kg	24000	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	16000	NA	19000		µg/kg	19000	Max	W-Test(4)
Benzo(b)fluoranthene	µg/kg	15000	NA	18000		µg/kg	18000	Max	W-Test(4)
Benzo(k)fluoranthene	µg/kg	15000	NA	16000		µg/kg	16000	Max	W-Test(4)
Dibenzo(a,h)anthracene	µg/kg	2800	NA	3800		µg/kg	3800	Max	W-Test(4)
Indeno(1,2,3-cd)pyrene	µg/kg	7900	NA	9400		µg/kg	9400	Max	W-Test(4)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	21000	4.20E+04	44575		µg/kg	42000	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	2	NA	2	J	µg/kg	2	Max	W-Test(4)
Arsenic	mg/kg	4.5	5.60E+00	5.6		mg/kg	5.6	Max	W-Test(2)
Barium	mg/kg	5860	1.31E+04	14300		mg/kg	13100	95% UCL-N	W-Test(3)
Chromium	mg/kg	38.8	1.06E+03	75.4		mg/kg	75.4	Max	W-Test(2)
Lead	mg/kg	4250	1.94E+08	17300		mg/kg	17300	Max	W-Test(2)
Manganese	mg/kg	235	3.98E+02	321		mg/kg	321	Max	W-Test(2)
Nickel	mg/kg	101	7.77E+06	238		mg/kg	238	Max	W-Test(2)
Asbestos	%	14	1.20E+06	60		%	60	Max	

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Third Avenue Property

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	480	1.10E+04	310	J	µg/kg	310	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	1100	5.90E+03	2700	J	µg/kg	2700	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	5.00E+03	2800	J	µg/kg	2800	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	920	4.10E+03	2500	J	µg/kg	2500	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	560	2.40E+03	260	J	µg/kg	260	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	480	1.40E+03	1200	J	µg/kg	1200	Max	W-Test(2)
Aroclor, Total (Conservative) Aroclors 1262, 1268	µg/kg	5700	4.10E+08	35800		µg/kg	36000	Max	W-Test(2)
Dieldrin	µg/kg	14	5.80E+02	40		µg/kg	40	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.015	NA	0.015	J	µg/kg	0.015	Max	W-Test(4)
Antimony	mg/kg	0.99	7.70E+00	4.2	J	mg/kg	4.2	Max	W-Test(2)
Arsenic	mg/kg	8.4	1.18E+01	12.2		mg/kg	11.8	95% UCL-N	W-Test(3)
Barium	mg/kg	2030	1.03E+08	9930		mg/kg	9930	Max	W-Test(2)
Chromium	mg/kg	50.7	3.44E+02	156	J	mg/kg	156	Max	W-Test(2)
Lead	mg/kg	1650	1.09E+05	11700		mg/kg	11700	Max	W-Test(2)
Manganese	mg/kg	257	3.13E+02	364	J	mg/kg	313	95% UCL-T	W-Test(1)
Nickel	mg/kg	106	6.07E+03	439		mg/kg	439	Max	W-Test(2)
Zinc	mg/kg	1400	1.96E+06	7270	J	mg/kg	7270	Max	W-Test(2)
Asbestos	%	4	6.30E+01	10		%	10	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
(3) Shapiro-Wilk W-Test indicates data are normally distributed.
(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Commercial Worker Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Commercial Properties areas of Raymark Waste
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	Chronic Daily Intake (CDI) (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	IR-S	Ingestion Rate of Soil	mg/day	100	EPA, 1991	(CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
	OABS	Oral Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	250	(1)	
	ED	Exposure Duration	years	25	EPA, 1997	
	CF1	Conversion Factor	kg/mg	1E-06	--	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	9,125	EPA, 1989	
Dermal Absorption	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	CDI (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	CF1	Conversion Factor	kg/mg	1E-06	--	(CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/
	SA	Skin Surface Area Available for Contact	cm2/day	3,300	EPA, 2001	(BW x AT)
	SSAF	Soil to Skin Adherence Factor	mg/cm2	0.2	EPA, 2001	
	DABS	Dermal Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	250	(1)	
	ED	Exposure Duration	years	25	EPA, 1997	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	9,125	EPA, 1989	

(1) Professional Judgement.
EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.
EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.
EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.2A
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Residential Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Residential Properties areas of Raymark Waste
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Chronic Daily Intake (CDI) (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	IR-S	Ingestion Rate of Soil	mg/day	100	EPA, 1991	(CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
	OABS	Oral Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	350	EPA, 1994	
	ED	Exposure Duration	years	24	EPA, 1997	
	CF1	Conversion Factor	kg/mg	1E-06	--	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	EPA, 1989	
Dermal Absorption	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	CDI (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	CF1	Conversion Factor	kg/mg	1E-06	--	(CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/
	SA	Skin Surface Area Available for Contact	cm2/day	5,700	EPA, 2001	(BW x AT)
	SSAF	Soil to Skin Adherence Factor	mg/cm2	0.07	EPA, 2001	
	DABS	Dermal Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	350	EPA, 1994	
	ED	Exposure Duration	years	24	EPA, 1997	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	EPA, 1989	

(1) Professional Judgement.
EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.
EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.
EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.
EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.2B
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Child Residential Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Residential Properties areas of Raymark Waste
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Chronic Daily Intake (CDI) (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	IR-S	Ingestion Rate of Soil	mg/day	200	EPA, 1997	(CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
	OABS	Oral Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	350	EPA, 1994	
	ED	Exposure Duration	years	6	EPA, 1997	
	CF1	Conversion Factor	kg/mg	1E-06	--	
	BW	Body Weight	kg	15	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	EPA, 1989	
Dermal Absorption	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	CDI (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	CF1	Conversion Factor	kg/mg	1E-06	--	(CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/
	SA	Skin Surface Area Available for Contact	cm2/day	2,800	EPA, 2001	(BW x AT)
	SSAF	Soil to Skin Adherence Factor	mg/cm2	0.2	EPA, 2001	
	DABS	Dermal Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	350	EPA, 1994	
	ED	Exposure Duration	years	6	EPA, 1997	
	BW	Body Weight	kg	15	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	EPA, 1989	

(1) Professional Judgement.
EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.
EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.
EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.3A
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Recreational Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Recreational Properties areas of Raymark Waste
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Chronic Daily Intake (CDI) (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	IR-S	Ingestion Rate of Soil	mg/day	100	EPA, 1991	(CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
	OABS	Oral Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	150	EPA, 1994	
	ED	Exposure Duration	years	24	EPA, 1997	
	CF1	Conversion Factor	kg/mg	1E-06	--	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	EPA, 1989	
Dermal Absorption	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	CDI (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	CF1	Conversion Factor	kg/mg	1E-06	--	(CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/
	SA	Skin Surface Area Available for Contact	cm2/day	5,700	EPA, 2001	(BW x AT)
	SSAF	Soil to Skin Adherence Factor	mg/cm2	0.07	EPA, 2001	
	DABS	Dermal Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	150	EPA, 1994	
	ED	Exposure Duration	years	24	EPA, 1997	
	BW	Body Weight	kg	70	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	EPA, 1989	

(1) Professional Judgement.
EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.
EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.
EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.
EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.3B
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Child Recreational Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Recreational Properties areas of Raymark Waste
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Chronic Daily Intake (CDI) (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	IR-S	Ingestion Rate of Soil	mg/day	200	EPA, 1997	(CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
	OABS	Oral Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	150	EPA, 1994	
	ED	Exposure Duration	years	6	EPA, 1997	
	CF1	Conversion Factor	kg/mg	1E-06	--	
	BW	Body Weight	kg	15	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	EPA, 1989	
Dermal Absorption	CS	Chemical Concentration in Subsurface Soil	mg/kg	See Table 3	See Table 3	CDI (mg/kg-day) =
	FRW	Fraction of Site with Raymark Waste	dimensionless	See Table 1-1	See Table 1-1	
	CF1	Conversion Factor	kg/mg	1E-06	--	(CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/
	SA	Skin Surface Area Available for Contact	cm2/day	2,800	EPA, 2001	(BW x AT)
	SSAF	Soil to Skin Adherence Factor	mg/cm2	0.2	EPA, 2001	
	DABS	Dermal Absorption Factor (chemical-specific)	dimensionless	See Table 5.1	See Table 5.1	
	EF	Exposure Frequency	days/year	150	EPA, 1994	
	ED	Exposure Duration	years	6	EPA, 1997	
	BW	Body Weight	kg	15	EPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	EPA, 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	EPA, 1989	

(1) Professional Judgement.
EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.
EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.
EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.
EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 5.1
NON-CANCER CHRONIC TOXICITY DATA -- ORAL/DERMAL
RAYMARK OU6, STRATFORD, CONNECTICUT

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value (1)	Oral RfD Units	GI Absorption in Toxicity Study	Adjusted Dermal RfD (2)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ (MM/DD/YY)	Dermal Absorption Factor for Soils (DABS)	Oral Absorption Factor for Soils (OABS)
Trichloroethene	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	mg/kg-day	Liver/Kidney		EPA-NCEA	9/14/2003	NA	1
Acetophenone	Chronic	1.00E-01	mg/kg-day	1.0E+00	1.00E-01	mg/kg-day	General	3000	IRIS	9/14/2003	0.1	1.0
Acenaphthylene	Chronic	6.00E-02	mg/kg-day	1.0E+00	6.00E-02	mg/kg-day			EPA-NCEA		0.13	1.0
Benzo(a)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(a)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Dibenzo(a,h)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
4,4'-DDT	Chronic	5.00E-04	mg/kg-day	1.0E+00	5.00E-04	N/A	Liver	100	IRIS	9/14/2003	0.03	1.0
Aroclor, Total (Conservative)	Chronic	2.00E-05	mg/kg-day	1.0E+00	2.00E-05	N/A	Skin/Eyes/Immune	300	IRIS	9/14/2003	0.14	1.0
Dieldrin	Chronic	5.00E-05	mg/kg-day	1.0E+00	5.00E-05	N/A	Liver	100	IRIS	9/14/2003	NA	1.0
Endrin Ketone	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	N/A	Liver, CNS	100	IRIS	9/14/2003	NA	1.0
Dioxin TEQ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.03	0.5
Antimony	Chronic	4.00E-04	mg/kg-day	1.5E-01	6.00E-05	N/A	Blood	1000	IRIS	9/14/2003	NA	1.0
Arsenic	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	N/A	Skin	3	IRIS	9/14/2003	0.03	1.0
Barium	Chronic	7.00E-02	mg/kg-day	7.0E-02	4.90E-03	N/A	Kidney	3	IRIS	9/14/2003	NA	1.0
Cadmium	Chronic	1.00E-03	mg/kg-day	2.5E-02	2.50E-05	N/A	Blood	10	IRIS	9/14/2003	0.001	1.0
Chromium VI	Chronic	3.00E-03	mg/kg-day	2.5E-02	7.50E-05	N/A	None	900	IRIS	9/14/2003	NA	1.0
Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	1.0
Manganese	Chronic	1.40E-01	mg/kg-day	4.0E-02	5.60E-03	mg/kg-day	CNS	3	IRIS	9/14/2003	NA	1.0
Nickel	Chronic	2.00E-02	mg/kg-day	4.0E-02	8.00E-04	mg/kg-day	Body Weight	300	IRIS	9/14/2003	NA	1.0
Thallium	Chronic	8.00E-05	mg/kg-day	1.0E+00	8.00E-05	mg/kg-day	None	3000	IRIS	9/14/2003	NA	1.0
Vanadium	Chronic	7.00E-03	mg/kg-day	2.6E-02	1.82E-04	mg/kg-day	Hair	100	HEAST	6/19/1905	NA	1.0
Zinc	Chronic	3.00E-01	mg/kg-day	1.0E+00	3.00E-01	mg/kg-day	Blood	3	IRIS	9/14/2003	NA	1.0
Asbestos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	1.0

N/A = Not Applicable

(1) To be used for oral pathway only. Based on administered dose.

(2) Adjusted RfD = oral RfD x GI absorption value in toxicity study upon which the RfD is based. To be used for dermal pathway only.

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
RAYMARK OU6, STRATFORD, CONNECTICUT

Chemical of Potential Concern	Oral Cancer Slope Factor (1)	GI Absorption in Toxicity Study	Adjusted Dermal Cancer Slope Factor (2)	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (MM/DD/YY)	Dermal Absorption Factor for Soils (DABS)	Oral Absorption Factor for Soils (OABS)
Trichloroethene	4.0E-01	1.0E+00	4.0E-01	1/(mg/kg-day)	N/A	EPA-NCEA		NA	1.0
Acetophenone	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Acenaphthylene	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	0.13	1.0
Benzo(a)anthracene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Benzo(a)pyrene	7.3E+00	1.0E+00	7.3E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.13	1.0
Benzo(b)fluoranthene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Benzo(k)fluoranthene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Dibenzo(a,h)anthracene	7.3E+00	1.0E+00	7.3E+00	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Indeno(1,2,3-cd)pyrene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
4,4'-DDT	3.0E-01	1.0E+00	2.0E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003		1.0
Aroclor, Total (Conservative)	2.0E+00	1.0E+00	2.0E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.14	1.0
Dieldrin	1.6E+01	1.0E+00	1.60E+01	1/(mg/kg-day)	B2	IRIS	9/14/2003	N/A	1.0
Endrin Ketone	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	NA	1.0
Dioxin TEQ	1.5E+05	1.0E+00	1.5E+05	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.03	0.5
Dioxin TEQ(3)	1.0E+06	1.0E+00	1.0E+06	1/(mg/kg-day)	B2	EPA (3)	2001	0.03	0.5
Antimony	N/A	N/A	N/A	N/A	B2	N/A	N/A	N/A	1.0
Arsenic	1.5E+00	1.0E+00	1.5E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.03	1.0
Barium	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	N/A	1.0
Cadmium	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	0.001	1.0
Chromium VI	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Lead	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	NA	1.0
Manganese	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Nickel	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Thallium	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Vanadium	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Zinc	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Asbestos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0

IRIS = Integrated Risk Information System
HEAST= Health Effects Assessment Summary Tables
NCEA=National Center for Environnmental Assessment
(1) To be used for oral pathway only. Based on administered dose.
(2) Adjusted slope factor (SF) = oral SF x GI absorption value in toxicity study upon which the SF is based. To be used for dermal pathway only.
(3) Proposed Dioxin CSF per Draft Dioxin Reassessment, EPA, 2001

EPA Group:
A - Human carcinogen
B1 - Probable human carcinogen - indicates that limited human data are available
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
C - Possible human carcinogen
D - Not classifiable as a human carcinogen
E - Evidence of noncarcinogenicity

TABLE 7.1A RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.93E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.46E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.66E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	2.26E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	7.32E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.86E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.32E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	1.50E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	2.99E-03
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	5.82E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	1.71E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	4.27E-02
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	1.11E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.70E-02
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.08E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	1.08E-02
	Chromium	2010	mg/kg	2010	mg/kg	M	6.69E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.23E-01
	Lead	1490	mg/kg	1490	mg/kg	M	4.96E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	1.33E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	1.66E-02
	(Total)												1.26E+00
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.66E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.26E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.43E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.94E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	6.28E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.72E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.61E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	2.31E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.20E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	7.33E-03
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	7.16E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	2.86E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	(Total)												8.71E-01
												Total of Routes	2.14E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.1B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.16E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	8.78E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	9.98E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.36E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.39E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.12E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.59E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	8.98E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.80E-03
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	3.49E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	1.03E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	2.56E-02
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	6.67E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.22E-02
	Barium	3770	mg/kg	3770	mg/kg	M	7.53E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.08E-02
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	6.51E-06	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	6.51E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	4.01E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.34E-01
	Lead	1490	mg/kg	1490	mg/kg	M	2.97E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	7.90E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.65E-04
	Nickel	157	mg/kg	157	mg/kg	M	3.13E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.57E-03
	Thallium	4	mg/kg	4	mg/kg	M	7.98E-07	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	9.98E-03
	Vanadium	87	mg/kg	87	mg/kg	M	1.74E-05	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	2.48E-03
	Zinc	1950	mg/kg	1950	mg/kg	M	3.89E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.30E-03
	(Total)												7.75E-01
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	6.01E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	4.56E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	7.04E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.28E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.24E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.12E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	8.36E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	7.98E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.66E-03
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.60E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	1.04E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												3.16E-01
												Total of Routes	1.09E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.1C RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.08E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	8.20E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	9.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.27E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.10E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.04E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.22E+00
	Dieldrin	450	µg/kg	450	µg/kg	M	8.38E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.68E-02
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	3.26E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	9.58E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	2.39E-01
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	6.22E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.07E-01
	Barium	3770	mg/kg	3770	mg/kg	M	7.02E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.00E-01
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	6.07E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	6.07E-02
	Chromium	2010	mg/kg	2010	mg/kg	M	3.74E-03	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.25E+00
	Lead	1490	mg/kg	1490	mg/kg	M	2.78E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	7.38E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.27E-03
	Nickel	157	mg/kg	157	mg/kg	M	2.92E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.46E-02
	Thallium	4	mg/kg	4	mg/kg	M	7.45E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	9.32E-02
	Vanadium	87	mg/kg	87	mg/kg	M	1.62E-04	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	2.32E-02
	Zinc	1950	mg/kg	1950	mg/kg	M	3.63E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.21E-02
	(Total)												7.24E+00
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	3.93E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	2.98E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.39E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.61E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.49E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	4.09E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.04E+00
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	5.48E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	5.23E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.74E-02
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.70E-07	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	6.80E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												2.07E+00
												Total of Routes	9.31E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.3 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	1300	µg/kg	1300	µg/kg	M	3.43E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	3.43E-06
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	1.59E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	2.51E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	7.40E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.70E+00
	Dioxin TEQ	20.1	µg/kg	20.1	µg/kg	M	2.66E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	1.90E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.34E-03
	Barium	16700	mg/kg	16700	mg/kg	M	4.41E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.30E-02
	Chromium	172	mg/kg	172	mg/kg	M	4.54E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-02
	Lead	40100	mg/kg	40100	mg/kg	M	1.06E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.78E+00
Dermal	Acetophenone	1300	µg/kg	1300	µg/kg	M	2.27E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.27E-06
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	1.36E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	2.15E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	9.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	6.84E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.42E+00
	Dioxin TEQ	20.1	µg/kg	20.1	µg/kg	M	1.05E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	3.77E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.26E-03
	Barium	16700	mg/kg	16700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	172	mg/kg	172	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	40100	mg/kg	40100	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.42E+00
												Total of Routes	7.20E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.4 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	9400	µg/kg	9400	µg/kg	M	6.44E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	6.44E-05
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	6.85E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	8.22E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	5.34E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	2.53E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	3.90E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	1.23E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	6.16E+00
	Dioxin TEQ	2.6	µg/kg	2.6	µg/kg	M	8.90E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	7.67E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.56E-02
	Barium	14500	mg/kg	14500	mg/kg	M	9.93E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.42E-01
	Chromium	86.1	mg/kg	86.1	mg/kg	M	5.90E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.97E-02
	Lead	13000	mg/kg	13000	mg/kg	M	8.90E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												6.35E+00
Dermal	Acetophenone	9400	µg/kg	9400	µg/kg	M	4.25E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	4.25E-05
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	5.88E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	7.05E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	4.58E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	2.17E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	3.35E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	1.14E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.70E+00
	Dioxin TEQ	2.6	µg/kg	2.6	µg/kg	M	3.53E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	1.52E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.06E-03
	Barium	14500	mg/kg	14500	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	13000	mg/kg	13000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												5.70E+00
												Total of Routes	1.21E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.5 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 Ferry Blvd
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Trichloroethene	330	µg/kg	330	µg/kg	M	2.52E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.40E-04
	Acetophenone	7000	µg/kg	7000	µg/kg	M	5.34E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	5.34E-05
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	1.53E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	1.30E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.37E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	2.98E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	7.63E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	8.40E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.20E+00
	Dioxin TEQ	4	µg/kg	4	µg/kg	M	1.53E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	5.95E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.98E-02
	Barium	9290	mg/kg	9290	mg/kg	M	7.09E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.01E-01
	Chromium	136	mg/kg	136	mg/kg	M	1.04E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	3.46E-02
	Lead	41700	mg/kg	41700	mg/kg	M	3.18E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												4.35E+00
	Trichloroethene	330	µg/kg	330	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
Dermal	Acetophenone	7000	µg/kg	7000	µg/kg	M	3.53E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	3.53E-05
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	1.31E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	1.11E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.18E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	2.55E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	6.55E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	7.76E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.88E+00
	Dioxin TEQ	4	µg/kg	4	µg/kg	M	6.04E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	1.18E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.93E-03
	Barium	9290	mg/kg	9290	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	136	mg/kg	136	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	41700	mg/kg	41700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.88E+00
												Total of Routes	8.24E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.6 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	180	µg/kg	180	µg/kg	M	1.18E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.18E-06
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	3.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	1.90E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.51E+00
	Dioxin TEQ	0.6	µg/kg	0.6	µg/kg	M	1.97E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	4.98E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.66E-02
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	3.10E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	3.10E-02
	Chromium	86.8	mg/kg	86.8	mg/kg	M	5.69E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.90E-02
	Lead	46000	mg/kg	46000	mg/kg	M	3.02E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												9.57E+00
Dermal	Acetophenone	180	µg/kg	180	µg/kg	M	7.79E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	7.79E-07
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	3.04E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	1.76E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.78E+00
	Dioxin TEQ	0.6	µg/kg	0.6	µg/kg	M	7.79E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	9.87E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.29E-03
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	2.05E-07	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	8.19E-03
	Chromium	86.8	mg/kg	86.8	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	46000	mg/kg	46000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												8.79E+00
												Total of Routes	1.84E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.7 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lot Behind 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	3.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	9.26E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.63E+00
	Dieldrin	120	µg/kg	120	µg/kg	M	5.05E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.01E-03
	Dioxin TEQ	2.5	µg/kg	2.5	µg/kg	M	5.26E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	3.62E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.21E-02
	Barium	10500	mg/kg	10500	mg/kg	M	4.42E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.31E-02
	Chromium	105	mg/kg	105	mg/kg	M	4.42E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.47E-02
	Lead	9130	mg/kg	9130	mg/kg	M	3.84E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												4.72E+00
Dermal	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	2.64E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	8.55E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.28E+00
	Dieldrin	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	2.5	µg/kg	2.5	µg/kg	M	2.08E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	7.16E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.39E-03
	Barium	10500	mg/kg	10500	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	105	mg/kg	105	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	9130	mg/kg	9130	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												4.28E+00
												Total of Routes	9.00E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.8A RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	3.03E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.58E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.80E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	4.43E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.36E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	2.08E-06	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	4.16E-03
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.89E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.45E+00
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	8.59E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.86E-03
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	2.37E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.94E-06	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	7.35E-03
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	3.39E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.13E-02
	Barium	12900	mg/kg	12900	mg/kg	M	5.83E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	8.33E-02
	Chromium	148	mg/kg	148	mg/kg	M	6.69E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.23E-02
	Lead	35400	mg/kg	35400	mg/kg	M	1.60E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	1.98E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.41E-03
	Nickel	580	µg/kg	580	µg/kg	M	2.62E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.31E-02
	Vanadium	77	µg/kg	77	µg/kg	M	3.48E-05	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	4.97E-03
	Zinc	4730	mg/kg	4730	mg/kg	M	2.14E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	7.13E-03
	(Total)												1.60E+00
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.57E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	1.34E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	1.45E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	2.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	7.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	2.49E-07	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	4.98E-04
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	1.62E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.08E-01
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	5.68E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	4.06E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.35E-03
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												8.10E-01
												Total of Routes	2.41E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.8B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	2.83E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.40E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.62E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	4.13E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.27E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.94E-05	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	3.88E-02
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.70E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.35E+01
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	8.02E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.67E-02
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	2.22E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.74E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	6.86E-02
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	3.16E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.05E-01
	Barium	12900	mg/kg	12900	mg/kg	M	5.44E-02	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	7.78E-01
	Chromium	148	mg/kg	148	mg/kg	M	6.24E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.08E-01
	Lead	35400	mg/kg	35400	mg/kg	M	1.49E-01	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	1.85E-03	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.32E-02
	Nickel	580	µg/kg	580	µg/kg	M	2.45E-03	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.22E-01
	Vanadium	77	µg/kg	77	µg/kg	M	3.25E-04	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	4.64E-02
	Zinc	4730	mg/kg	4730	mg/kg	M	2.00E-02	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	6.65E-02
	(Total)												1.50E+01
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.03E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	8.75E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	9.52E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.51E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	4.61E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.63E-06	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	3.26E-03
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	1.06E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.29E+00
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	3.72E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.66E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.86E-03
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												5.30E+00
												Total of Routes	2.03E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.9 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	2.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	2.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	2.84E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	3.91E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.96E-02
	Dioxin TEQ	0.031	µg/kg	0.031	µg/kg	M	1.52E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	9.39E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.13E-03
	(Total)												2.27E-02
Dermal	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	2.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	2.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	2.43E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	3.62E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.81E-02
	Dioxin TEQ	0.031	µg/kg	0.031	µg/kg	M	6.01E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	1.86E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.20E-04
	(Total)												1.87E-02
												Total of Routes	4.14E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.10 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	8.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	1.19E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	1.68E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.42E+00
	Dieldrin	980	µg/kg	980	µg/kg	M	4.03E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	8.05E-03
	Dioxin TEQ	16.8	µg/kg	16.8	µg/kg	M	3.45E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	8.10E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.70E-02
	Barium	17000	mg/kg	17000	mg/kg	M	6.99E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	9.98E-02
	Chromium	596	mg/kg	596	mg/kg	M	2.45E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	8.16E-02
	Lead	24700	mg/kg	24700	mg/kg	M	1.02E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	1.36E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	1.70E-02
	(Total)												8.66E+00
Dermal	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	1.13E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	7.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	1.02E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	1.56E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	7.78E+00
	Dieldrin	980	µg/kg	980	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	16.8	µg/kg	16.8	µg/kg	M	1.37E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	1.60E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.34E-03
	Barium	17000	mg/kg	17000	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	596	mg/kg	596	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	24700	mg/kg	24700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	(Total)												7.79E+00
												Total of Routes	1.64E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.11 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Trichloroethene	120	µg/kg	120	µg/kg	M	2.47E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.22E-05
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	7.40E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	5.14E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.03E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.52E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	1.77E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.84E-01
	Dioxin TEQ	0.45	µg/kg	0.45	µg/kg	M	4.62E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	1.27E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.24E-02
	Barium	10900	mg/kg	10900	mg/kg	M	2.24E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	3.20E-02
	Chromium	221	mg/kg	221	mg/kg	M	4.54E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-02
	Lead	12900	mg/kg	12900	mg/kg	M	2.65E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	12900	mg/kg	12900	mg/kg	M	2.65E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	8.84E-03
	(Total)												9.82E-01
Dermal	Trichloroethene	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	6.35E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	4.41E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	8.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	3.88E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	1.63E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.16E-01
	Dioxin TEQ	0.45	µg/kg	0.45	µg/kg	M	1.83E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	2.52E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.39E-03
	Barium	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	221	mg/kg	221	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												8.25E-01
												Total of Routes	1.81E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.12 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	2.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	2.91E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	3.52E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	2.03E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.01E-01
	Dioxin TEQ	0.087	µg/kg	0.087	µg/kg	M	3.83E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	12	mg/kg	12	mg/kg	M	1.06E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.52E-03
	Chromium	53.6	mg/kg	53.6	mg/kg	M	4.72E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.57E-03
	Lead	3680	mg/kg	3680	mg/kg	M	3.24E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.06E-01
Dermal	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	1.74E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	2.49E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	3.02E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	1.87E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.36E-02
	Dioxin TEQ	0.087	µg/kg	0.087	µg/kg	M	1.52E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	12	mg/kg	12	mg/kg	M	2.09E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.97E-04
	Chromium	53.6	mg/kg	53.6	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	3680	mg/kg	3680	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												9.43E-02
												Total of Routes	2.01E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13A RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	1.17E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	9.30E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	1.27E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	1.37E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	2.40E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.20E-02
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	1.35E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.48E-03
	Chromium	92.3	mg/kg	92.3	mg/kg	M	4.52E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-03
	Lead	1210	mg/kg	1210	mg/kg	M	5.92E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.80E-02
Dermal	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	1.01E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	7.98E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	1.09E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	1.18E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	2.22E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.11E-02
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	2.66E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.88E-04
	Chromium	92.3	mg/kg	92.3	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1210	mg/kg	1210	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.20E-02
												Total of Routes	2.99E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.30E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	7.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.59E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.89E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	3.06E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.53E-01
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	7.66E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.24E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.08E-02
	Barium	768	mg/kg	768	mg/kg	M	4.52E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.46E-03
	Lead	662	mg/kg	662	mg/kg	M	3.90E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	1.04E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	7.41E-04
	(Total)												1.71E-01
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	6.72E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	5.50E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	3.67E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	8.25E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	2.02E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.71E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.55E-02
	Toxicity Equivalency						0.00E+00	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.88E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.29E-03
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	(Total)												8.68E-02
												Total of Routes	2.58E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13C RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.21E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	9.90E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	6.60E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.48E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.63E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	2.86E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.43E+00
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	7.15E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.02E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.01E-01
	Barium	768	mg/kg	768	mg/kg	M	4.22E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.03E-02
	Lead	662	mg/kg	662	mg/kg	M	3.64E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	9.68E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	6.91E-03
	(Total)												1.60E+00
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	4.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.60E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	5.40E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.12E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.60E-01
	Toxicity Equivalency						0.00E+00	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.54E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.47E-03
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	(Total)												5.69E-01
												Total of Routes	2.17E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.14 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	300	µg/kg	300	µg/kg	M	1.29E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.29E-06
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	1.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	2.20E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.10E+01
	Dioxin TEQ	0.47	µg/kg	0.47	µg/kg	M	1.01E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	6.93E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.31E-02
	Barium	8110	mg/kg	8110	mg/kg	M	3.49E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.99E-02
	Chromium	76.5	mg/kg	76.5	mg/kg	M	3.29E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.10E-02
	Lead	43400	mg/kg	43400	mg/kg	M	1.87E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	18400	mg/kg	18400	mg/kg	M	7.92E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	2.64E-02
	(Total)												1.11E+01
Dermal	Acetophenone	300	µg/kg	300	µg/kg	M	8.52E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	8.52E-07
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	1.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	2.03E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.01E+01
	Dioxin TEQ	0.47	µg/kg	0.47	µg/kg	M	4.01E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	1.37E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.57E-03
	Barium	8110	mg/kg	8110	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	43400	mg/kg	43400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	18400	mg/kg	18400	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												1.01E+01
												Total of Routes	2.12E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.15 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aroclor, Total (Conservative)	1200	µg/kg	1200	µg/kg	M	8.45E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.23E-02
	Lead	27000	mg/kg	27000	mg/kg	M	1.90E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												4.23E-02
Dermal	Aroclor, Total (Conservative)	1200	µg/kg	1200	µg/kg	M	7.81E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.91E-02
	Lead	27000	mg/kg	27000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.91E-02
												Total of Routes	8.13E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.17 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	1.27E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	4.11E-08	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.05E-03
	Arsenic	10	mg/kg	10	mg/kg	M	9.78E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.26E-04
	Chromium	337	mg/kg	337	mg/kg	M	3.30E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.10E-03
	Lead	10900	mg/kg	10900	mg/kg	M	1.07E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.48E-03
Dermal	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	1.09E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	3.80E-08	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.90E-03
	Arsenic	10	mg/kg	10	mg/kg	M	1.94E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.46E-05
	Chromium	337	mg/kg	337	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.96E-03
												Total of Routes	5.44E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.20A RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	9.69E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	7.93E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.41E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	6.78E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	6.08E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.04E-01
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	3.43E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	2.01E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.69E-03
	Barium	19700	mg/kg	19700	mg/kg	M	1.73E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	2.48E-02
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	8.89E-07	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	8.89E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	7.11E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.37E-03
	Lead	7990	mg/kg	7990	mg/kg	M	7.04E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	4.61E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	3.30E-04
	Nickel	165	µg/kg	165	µg/kg	M	1.45E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	7.27E-04
	Zinc	2780	mg/kg	2780	mg/kg	M	2.45E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	8.16E-04
	(Total)												3.40E-01
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	5.02E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	4.11E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.48E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	7.31E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	3.52E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	3.39E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.70E-01
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	8.22E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	2.40E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.01E-04
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	3.55E-09	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	1.42E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												1.71E-01
												Total of Routes	5.11E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.20B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	9.04E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	7.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	9.86E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	6.33E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	5.67E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.84E+00
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	3.21E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.87E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.25E-02
	Barium	19700	mg/kg	19700	mg/kg	M	1.62E-02	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	2.31E-01
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	8.30E-06	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	8.30E-03
	Chromium	80.7	mg/kg	80.7	mg/kg	M	6.63E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.21E-02
	Lead	7990	mg/kg	7990	mg/kg	M	6.57E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	4.31E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	3.08E-03
	Nickel	165	µg/kg	165	µg/kg	M	1.36E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	6.78E-03
	Zinc	2780	mg/kg	2780	mg/kg	M	2.28E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	7.62E-03
	(Total)												3.18E+00
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	3.29E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.69E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.59E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.79E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.30E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	2.22E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.11E+00
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	5.39E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.57E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.25E-03
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	2.32E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	9.30E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												1.12E+00
												Total of Routes	4.30E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.21 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: One Beacon Point Road
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	7.34E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	6.85E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.87E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	1.71E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	4.45E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	1.17E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.87E-02
	Dioxin TEQ	0.77	µg/kg	0.77	µg/kg	M	1.88E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	1.91E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.36E-04
	Chromium	4270	mg/kg	4270	mg/kg	M	2.09E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	6.96E-02
	Lead	14800	mg/kg	14800	mg/kg	M	7.24E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	7220	mg/kg	7220	mg/kg	M	3.53E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	2.52E-03
	(Total)												1.32E-01
Dermal	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	6.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	5.88E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.04E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	1.47E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	3.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	1.08E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.42E-02
	Dioxin TEQ	0.77	µg/kg	0.77	µg/kg	M	7.46E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	3.78E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.26E-04
	Chromium	4270	mg/kg	4270	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	14800	mg/kg	14800	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	7220	mg/kg	7220	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	(Total)												5.44E-02
												Total of Routes	1.86E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.22 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Airport Property North of Marine Basin
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	2.95E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	2.47E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	2.12E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	2.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	8.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	1.78E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	3.56E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.19E-03
	Lead	8130	mg/kg	8130	mg/kg	M	5.57E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.19E-03
Dermal	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	2.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	2.12E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	1.82E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	2.17E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	7.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	1.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	7.05E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.35E-04
	Lead	8130	mg/kg	8130	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												2.35E-04
												Total of Routes	1.42E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.23A RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.76E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.76E-07
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.53E-07	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	2.54E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	5.64E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	4.46E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.23E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.76E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	8.92E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	2.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	9.86E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.93E-02
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	2.35E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.32E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.38E-04
	Barium	13100	mg/kg	13100	mg/kg	M	3.08E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.39E-03
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.77E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	5.90E-04
	Lead	17300	mg/kg	17300	mg/kg	M	4.06E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	7.54E-06	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.38E-05
	Nickel	238	µg/kg	238	µg/kg	M	5.59E-06	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	2.79E-04
	(Total)												5.51E-02
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	7.03E-09	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	7.03E-08
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	7.92E-08	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	1.32E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	2.92E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	2.31E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	2.19E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.95E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	4.63E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	1.14E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	5.51E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.75E-02
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	5.62E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.57E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.25E-05
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	(Total)												2.76E-02
												Total of Routes	8.27E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.23B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.64E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.64E-06
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.42E-06	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	2.37E-05
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	5.26E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	4.16E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	3.95E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.51E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	8.33E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	9.21E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.60E-01
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	2.19E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.23E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.09E-03
	Barium	13100	mg/kg	13100	mg/kg	M	2.87E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.10E-02
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.65E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	5.51E-03
	Lead	17300	mg/kg	17300	mg/kg	M	3.79E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	7.04E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.03E-04
	Nickel	238	µg/kg	238	µg/kg	M	5.22E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	2.61E-03
	(Total)												5.14E-01
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	4.60E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	4.60E-07
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	5.19E-07	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	8.64E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.91E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.52E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.44E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.28E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	3.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	7.50E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.61E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.80E-01
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	3.68E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.03E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.44E-04
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	(Total)												1.81E-01
												Total of Routes	6.95E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.24A RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.55E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.55E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	2.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	2.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	2.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	2.14E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	9.86E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.96E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.48E-01
	Dieldrin	40	µg/kg	40	µg/kg	M	3.29E-09	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	6.58E-05
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	6.16E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	3.45E-07	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	8.63E-04
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	9.70E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.23E-03
	Barium	9930	mg/kg	9930	mg/kg	M	8.16E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.17E-02
	Chromium	156	mg/kg	156	mg/kg	M	1.28E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	4.27E-03
	Lead	11700	mg/kg	11700	mg/kg	M	9.62E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	2.57E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.84E-04
	Nickel	439	µg/kg	439	µg/kg	M	3.61E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.80E-03
	Zinc	7270	mg/kg	7270	mg/kg	M	5.98E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.99E-03
	(Total)												1.72E-01
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	1.02E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.02E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	1.15E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	1.19E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.11E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	5.12E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.65E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.26E-02
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	1.48E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	1.16E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.87E-04
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												8.30E-02
												Total of Routes	2.55E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.24B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.38E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.38E-06
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	2.07E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	2.15E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.92E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.99E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	9.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.76E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.38E+00
	Dieldrin	40	µg/kg	40	µg/kg	M	3.07E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	6.14E-04
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	5.75E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	3.22E-06	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	8.05E-03
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	9.05E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.02E-02
	Barium	9930	mg/kg	9930	mg/kg	M	7.62E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.09E-01
	Chromium	156	mg/kg	156	mg/kg	M	1.20E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	3.99E-02
	Lead	11700	mg/kg	11700	mg/kg	M	8.98E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	2.40E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.72E-03
	Nickel	439	µg/kg	439	µg/kg	M	3.37E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.68E-02
	Zinc	7270	mg/kg	7270	mg/kg	M	5.58E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.86E-02
	(Total)												1.61E+00
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	6.66E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	6.66E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	7.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	7.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	6.98E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	7.26E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	3.35E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.08E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.41E-01
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	9.67E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	7.60E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.53E-03
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												5.44E-01
												Total of Routes	2.15E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 8.1A RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	6.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.03E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	5.2E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.82E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.34E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	8.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.90E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.33E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	5.3E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	8.55E-07
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.1E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.12E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	6.1E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.0E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.95E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	3.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.88E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.32E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	4.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.27E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.72E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	6.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.06E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.23E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	8.2E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.24E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	7.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.18E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.95E-05
										Total of Routes	4.82E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.1B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.90E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	3.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.20E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.50E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.40E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.10E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.66E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	3.1E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.93E-07
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	1.2E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.20E-05
	Antimony	51.4	mg/kg	51.4	mg/kg	M	3.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.43E-06
	Barium	3770	mg/kg	3770	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	2.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	2.7E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.68E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.14E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	2.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.76E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.70E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.28E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.9E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.87E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.10E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	8.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.21E-06
										Total of Routes	3.60E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.1C RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	9.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.76E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	7.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.13E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	8.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.83E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.93E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	3.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.56E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	8.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.79E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	7.2E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.15E-06
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.19E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	8.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	5.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.00E-06
	Barium	3770	mg/kg	3770	mg/kg	M	6.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	5.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	3.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	6.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	2.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	6.4E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	1.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.87E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.46E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	2.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.87E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	2.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.12E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.89E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.34E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.01E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	4.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.04E-07
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.72E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.5E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.11E-05
										Total of Routes	4.98E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.3 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	1300	µg/kg	1300	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.27E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.27E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	9.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.54E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.76E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.28E-05
	Dioxin TEQ(2)	20.1	µg/kg	20.1	µg/kg	M	9.5E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.42E-04
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	6.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-06
	Barium	16700	mg/kg	16700	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	3.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.04E-04
Dermal	Acetophenone	1300	µg/kg	1300	µg/kg	M	8.1E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.38E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.38E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	4.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.55E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	7.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.61E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.36E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.88E-05
	Dioxin TEQ(2)	20.1	µg/kg	20.1	µg/kg	M	3.8E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	5.63E-05
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	16700	mg/kg	16700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.12E-04
										Total of Routes	3.17E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.4 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	9400	µg/kg	9400	µg/kg	M	2.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.79E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.9E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.39E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.61E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.02E-06
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.81E-05
	Dioxin TEQ(2)	2.6	µg/kg	2.6	µg/kg	M	3.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.77E-05
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.11E-06
	Barium	14500	mg/kg	14500	mg/kg	M	3.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	13000	mg/kg	13000	mg/kg	M	3.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.66E-04
Dermal	Acetophenone	9400	µg/kg	9400	µg/kg	M	1.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.5E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.6E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.67E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.73E-07
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.14E-05
	Dioxin TEQ(2)	2.6	µg/kg	2.6	µg/kg	M	1.3E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.89E-05
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	5.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.14E-07
	Barium	14500	mg/kg	14500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	13000	mg/kg	13000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.24E-04
										Total of Routes	2.90E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.5 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 -280 FERRY BLVD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 Ferry Blvd
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	330	µg/kg	330	µg/kg	M	9.0E-08	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.60E-08
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	5.5E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.6E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.58E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	1.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.76E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.99E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	3.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.00E-05
	Dioxin TEQ(2)	4	µg/kg	4	µg/kg	M	5.5E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.18E-05
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.19E-06
	Barium	9290	mg/kg	9290	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	41700	mg/kg	41700	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.96E-04
Dermal	Trichloroethene	330	µg/kg	330	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	4.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.41E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.0E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.90E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.07E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	9.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.66E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.3E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.71E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	2.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.54E-05
	Dioxin TEQ(2)	4	µg/kg	4	µg/kg	M	2.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.24E-05
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	4.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.31E-07
	Barium	9290	mg/kg	9290	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	41700	mg/kg	41700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.32E-04
										Total of Routes	3.28E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.6 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	180	µg/kg	180	µg/kg	M	4.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.23E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.36E-04
	Dioxin TEQ(2)	0.6	µg/kg	0.6	µg/kg	M	7.0E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.05E-05
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.67E-06
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	2.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	46000	mg/kg	46000	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.50E-04
Dermal	Acetophenone	180	µg/kg	180	µg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.92E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.25E-04
	Dioxin TEQ(2)	0.6	µg/kg	0.6	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.17E-06
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	3.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.28E-07
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	7.3E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	46000	mg/kg	46000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.31E-04
										Total of Routes	2.81E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.7 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lot Behind 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.01E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.61E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	1.8E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.89E-07
	Dioxin TEQ(2)	2.5	µg/kg	2.5	µg/kg	M	1.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.82E-05
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	1.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.94E-06
	Barium	10500	mg/kg	10500	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.73E-05
Dermal	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	9.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.87E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.11E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	2.5	µg/kg	2.5	µg/kg	M	7.4E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.12E-05
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	2.6E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.84E-07
	Barium	10500	mg/kg	10500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.33E-05
										Total of Routes	1.71E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.8A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.45E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	9.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.01E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.11E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	4.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.39E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	7.1E-07	mg/kg-day	3.0E-01	1/(mg/kg-day)	2.14E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.98E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	2.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	8.1E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.22E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	1.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.74E-06
	Barium	12900	mg/kg	12900	mg/kg	M	2.0E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	2.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	5.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	6.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	µg/kg	580	µg/kg	M	9.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	µg/kg	77	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	7.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.53E-04
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.93E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	4.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.35E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	5.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.64E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.75E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.76E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	8.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.71E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	5.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	1.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.92E-05
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.09E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.55E-05
										Total of Routes	1.99E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.8B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-06
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.50E-05
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-06
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	3.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.59E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.92E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.7E-06	mg/kg-day	3.0E-01	1/(mg/kg-day)	4.99E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.63E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	6.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	1.9E-09	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.85E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.07E-06
	Barium	12900	mg/kg	12900	mg/kg	M	4.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	5.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	1.3E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	µg/kg	580	µg/kg	M	2.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	µg/kg	77	µg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	1.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.57E-04
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	8.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.44E-07
	Benzo(a)pyrene	5700		5700	µg/kg	M	7.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.48E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	8.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.96E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.42E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	3.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.79E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.81E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	3.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.78E-05
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.42E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.46E-05
										Total of Routes	4.32E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.9 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.63E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.63E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	1.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.40E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.80E-07
	Dioxin TEQ(2)	0.031	µg/kg	0.031	µg/kg	M	5.4E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.12E-08
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.03E-07
	(Total)										1.67E-06
Dermal	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.69E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.69E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	8.7E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.35E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.58E-07
	Dioxin TEQ(2)	0.031	µg/kg	0.031	µg/kg	M	2.1E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.22E-08
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	6.6E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.96E-08
	(Total)										1.08E-06
										Total of Routes	2.75E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.10 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.43E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	4.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.11E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	6.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.20E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	1.4E-07	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.30E-06
	Dioxin TEQ(2)	16.8	µg/kg	16.8	µg/kg	M	1.2E-09	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.85E-04
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	2.9E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.34E-06
	Barium	17000	mg/kg	17000	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	8.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	3.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.15E-04
Dermal	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.94E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	5.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	16.8	µg/kg	16.8	µg/kg	M	4.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.32E-05
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	5.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.59E-07
	Barium	17000	mg/kg	17000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.88E-04
										Total of Routes	5.02E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.11 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	120	µg/kg	120	µg/kg	M	8.8E-09	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.52E-09
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.93E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.68E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.18E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	6.3E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.26E-05
	Dioxin TEQ(2)	0.45	µg/kg	0.45	µg/kg	M	1.7E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.48E-06
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	4.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.81E-06
	Barium	10900	mg/kg	10900	mg/kg	M	8.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.38E-05
Dermal	Trichloroethene	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.65E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.15E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.30E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.01E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	5.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-05
	Dioxin TEQ(2)	0.45	µg/kg	0.45	µg/kg	M	6.5E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.81E-07
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	9.0E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.35E-06
	Barium	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.56E-05
										Total of Routes	3.95E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.12 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	7.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.28E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.18E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	7.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-06
	Dioxin TEQ(2)	0.087	µg/kg	0.087	µg/kg	M	1.4E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.05E-07
	Arsenic	12	mg/kg	12	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.66E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	1.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	1.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.91E-06
Dermal	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	6.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.53E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	8.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.50E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.88E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	6.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.34E-06
	Dioxin TEQ(2)	0.087	µg/kg	0.087	µg/kg	M	5.4E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.13E-08
	Arsenic	12	mg/kg	12	mg/kg	M	7.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.12E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.13E-06
										Total of Routes	5.04E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13A RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	4.2E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.06E-08
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	3.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.42E-07
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	4.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.32E-08
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	4.9E-09	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.57E-09
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	8.6E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.71E-07
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	4.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.21E-07
	Chromium	92.3	mg/kg	92.3	mg/kg	M	1.6E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1210	mg/kg	1210	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.20E-06
Dermal	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	3.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.63E-08
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.08E-07
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.85E-08
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	4.2E-09	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.06E-09
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	7.9E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.58E-07
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	9.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.43E-07
	Chromium	92.3	mg/kg	92.3	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1210	mg/kg	1210	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.67E-07
										Total of Routes	1.77E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	4.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.24E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.65E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	5.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.98E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.73E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.10E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	2.6E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.94E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.67E-06
	Barium	768	mg/kg	768	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	3.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.81E-06
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.68E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	1.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.38E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.18E-08
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.06E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	6.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.05E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	5.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.3E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.43E-08
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.99E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.36E-06
										Total of Routes	1.12E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13C RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.57E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	8.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.19E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.29E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.27E-07
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	2.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.90E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.1E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.19E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.89E-06
	Barium	768	mg/kg	768	mg/kg	M	3.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	8.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.82E-05
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.75E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.25E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	4.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.26E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	9.6E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.92E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	1.0E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.54E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.27E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.50E-06
										Total of Routes	2.37E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.14 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	300	µg/kg	300	µg/kg	M	4.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	4.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.14E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.57E-04
	Dioxin TEQ(2)	0.47	µg/kg	0.47	µg/kg	M	3.6E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	5.42E-06
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	2.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.71E-06
	Barium	8110	mg/kg	8110	mg/kg	M	1.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	1.2E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	6.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	2.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.66E-04
Dermal	Acetophenone	300	µg/kg	300	µg/kg	M	3.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	3.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.70E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.2E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-04
	Dioxin TEQ(2)	0.47	µg/kg	0.47	µg/kg	M	1.4E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.15E-06
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	4.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.35E-07
	Barium	8110	mg/kg	8110	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.48E-04
										Total of Routes	3.14E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.15 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Aroclor, Total (Conservative)	1200	µg/kg	1200	µg/kg	M	3.0E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.04E-07
	Lead	27000	mg/kg	27000	mg/kg	M	6.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.04E-07
Dermal	Aroclor, Total (Conservative)	1200	µg/kg	1200	µg/kg	M	2.8E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.58E-07
	Lead	27000	mg/kg	27000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.58E-07
										Total of Routes	1.16E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	4.5E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.32E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.94E-08
	Arsenic	10	mg/kg	10	mg/kg	M	3.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.24E-08
	Chromium	337	mg/kg	337	mg/kg	M	1.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	3.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.15E-07
Dermal	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	3.9E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.85E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.4E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.71E-08
	Arsenic	10	mg/kg	10	mg/kg	M	6.9E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.04E-08
	Chromium	337	mg/kg	337	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.60E-08
										Total of Routes	1.81E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.20A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	3.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.42E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.7E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.98E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.64E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.53E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.70E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.17E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	1.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.77E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	6.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.03E-06
	Barium	19700	mg/kg	19700	mg/kg	M	5.9E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	3.0E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	µg/kg	165	µg/kg	M	5.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	8.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.59E-05
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	1.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.26E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	1.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.03E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.37E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	2.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.83E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.80E-08
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.2E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.33E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.23E-06
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	8.2E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.24E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	1.2E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										8.24E-06
										Total of Routes	3.41E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.20B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	7.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.66E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	6.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.63E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	8.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.17E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.23E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.96E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	4.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	9.72E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	2.7E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.12E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.41E-06
	Barium	19700	mg/kg	19700	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	7.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	5.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	5.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	µg/kg	165	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.04E-05
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	2.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.06E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.68E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.25E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.00E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.44E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.81E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	4.6E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	6.92E-06
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	2.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.35E-05
										Total of Routes	7.39E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.21 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: One Beacon Point Road
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.79E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-07
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	6.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.46E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.16E-07
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	4.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.39E-07
	Dioxin TEQ(2)	0.77	µg/kg	0.77	µg/kg	M	6.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.01E-06
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	6.8E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-07
	Chromium	4270	mg/kg	4270	mg/kg	M	7.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	7220	mg/kg	7220	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.64E-06
Dermal	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.53E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.31E-07
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	5.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.83E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.96E-08
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	3.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.75E-07
	Dioxin TEQ(2)	0.77	µg/kg	0.77	µg/kg	M	2.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.00E-07
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	1.3E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-08
	Chromium	4270	mg/kg	4270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	7220	mg/kg	7220	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.51E-06
										Total of Routes	8.15E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.22 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Airport Property North of Marine Basin
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.68E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.43E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	7.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.54E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	9.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.61E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	6.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.64E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.91E-07
	Lead	8130	mg/kg	8130	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.12E-05
Dermal	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	9.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.59E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	7.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.52E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	6.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.75E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	7.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.67E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	5.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	2.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.78E-08
	Lead	8130	mg/kg	8130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.49E-06
										Total of Routes	2.07E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.23A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	6.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	5.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.41E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.12E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.06E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.40E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	3.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.23E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.52E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.76E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	8.1E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.21E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	4.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.76E-08
	Barium	13100	mg/kg	13100	mg/kg	M	1.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	6.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	2.6E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	µg/kg	238	µg/kg	M	1.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.69E-06
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	2.4E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	2.7E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.32E-08
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.79E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	7.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.49E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	6.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.88E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	1.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.16E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.87E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	1.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.78E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	1.9E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.89E-07
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	5.4E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.10E-09
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.58E-06
										Total of Routes	5.26E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.23B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	4.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.29E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.61E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.19E-07
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	7.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.21E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.29E-07
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	7.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.58E-06
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	1.9E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.82E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.58E-07
	Barium	13100	mg/kg	13100	mg/kg	M	2.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	µg/kg	238	µg/kg	M	4.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										8.61E-06
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	3.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	4.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.48E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.99E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.99E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	2.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.90E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	6.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.69E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.1E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.19E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	3.2E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.73E-07
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	8.8E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.33E-08
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.58E-06
										Total of Routes	1.12E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.24A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	8.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.55E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.76E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	7.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.14E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	7.3E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.35E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	3.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.0E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.03E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	1.1E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.80E-08
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	2.1E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.17E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	3.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.99E-07
	Barium	9930	mg/kg	9930	mg/kg	M	2.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	4.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	8.8E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	µg/kg	439	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.34E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	3.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.99E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	3.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	3.8E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.77E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	1.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.28E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	5.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.13E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	5.1E-14	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.59E-09
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	4.0E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.97E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.60E-06
										Total of Routes	4.93E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.24B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.25E-07
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	7.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.76E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.4E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.73E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	2.6E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.21E-08
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	4.9E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.40E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	2.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	7.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.16E-06
	Barium	9930	mg/kg	9930	mg/kg	M	6.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	1.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	7.7E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	µg/kg	439	µg/kg	M	2.9E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	4.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.79E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	5.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	6.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.72E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	6.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.89E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	6.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.37E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	6.2E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.54E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	2.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.10E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	9.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.86E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	8.3E-14	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.24E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	6.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.78E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.61E-06
										Total of Routes	1.04E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 9.1A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER CONTACT WITH SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.03E-07	--	4.32E-07	9.35E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.82E-06	--	3.27E-06	7.09E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.34E-07	--	3.72E-07	8.06E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.90E-07	--	5.06E-07	1.10E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.91E-07	--	1.64E-07	3.55E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.33E-05	--	1.23E-05	2.56E-05	Aroclor, Total	Skin/Eyes/Immune	9.32E-01	--	8.61E-01	1.79E+00
			Dieldrin	8.55E-07	--	--	8.55E-07	Dieldrin	Liver	2.99E-03	--	--	2.99E-03
			Dioxin TEQ	3.12E-06	--	1.24E-06	4.35E-06	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	4.27E-02	--	--	4.27E-02
			Arsenic	5.95E-06	--	1.18E-06	7.13E-06	Arsenic	Skin	3.70E-02	--	7.33E-03	4.44E-02
			Cadmium	--	--	--	--	Cadmium	Blood	1.08E-02	--	2.86E-03	1.37E-02
			Chromium	--	--	--	--	Chromium	None	2.23E-01	--	--	2.23E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Thallium	--	--	--	--	Thallium	None	1.66E-02	--	--	1.66E-02
			(Total)	2.88E-05	0.00E+00	1.95E-05	4.82E-05	(Total)		1.26E+00	0.00E+00	8.71E-01	2.14E+00
						Total Risk Across Soil	4.82E-05					Total Hazard Index Across Soil	2.14E+00
						Total Risk Across All Media and All Exposure Routes	4.82E-05					Total Hazard Index Across All Media and All Exposure Routes	2.14E+00

Total Skin HI =	1.84E+00
Total Eye/Immune HI =	1.79E+00
Total Liver HI =	2.99E-03
Total Blood HI =	5.64E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.1B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.90E-07	--	1.50E-07	4.40E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.20E-06	--	1.14E-06	3.34E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.50E-07	--	1.30E-07	3.79E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.40E-07	--	1.76E-07	5.16E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.10E-07	--	5.70E-08	1.67E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	7.66E-06	--	4.28E-06	1.19E-05	Aroclor, Total	Skin/Eyes/Immune	5.59E-01	--	3.12E-01	8.71E-01
			Dieldrin	4.93E-07	--	--	4.93E-07	Dieldrin	Liver	1.80E-03	--	--	1.80E-03
			Dioxin TEQ	1.80E-06	--	4.30E-07	2.23E-06	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	2.56E-02	--	--	2.56E-02
			Arsenic	3.43E-06	--	4.10E-07	3.84E-06	Arsenic	Skin	2.22E-02	--	2.66E-03	2.49E-02
			Barium	--	--	--	--	Barium	Kidney	1.08E-02	--	--	1.08E-02
			Cadmium	--	--	--	--	Cadmium	Blood	6.51E-03	--	1.04E-03	7.55E-03
			Chromium	--	--	--	--	Chromium	None	1.34E-01	--	--	1.34E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.65E-04	--	--	5.65E-04
			Nickel	--	--	--	--	Nickel	Body Weight	1.57E-03	--	--	1.57E-03
			Thallium	--	--	--	--	Thallium	None	9.98E-03	--	--	9.98E-03
			Vanadium	--	--	--	--	Vanadium	Hair	2.48E-03	--	--	2.48E-03
			Zinc	--	--	--	--	Zinc	Blood	1.30E-03	--	--	1.30E-03
			(Total)	1.66E-05	0.00E+00	6.78E-06	2.33E-05	(Total)		7.75E-01	0.00E+00	3.16E-01	1.09E+00
						Total Risk Across Soil	2.33E-05					Total Hazard Index Across Soil	1.09E+00
						Total Risk Across All Media and All Exposure Routes	2.33E-05					Total Hazard Index Across All Media and All Exposure Routes	1.09E+00

Total Skin HI =	8.96E-01
Total Eye/Immune HI =	8.71E-01
Total Liver HI =	1.80E-03
Total Blood HI =	3.45E-02
Total Kidney HI =	1.08E-02
Total CNS HI =	5.65E-04
Total Hair HI =	2.48E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.1C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.76E-07	--	2.46E-07	9.22E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	5.13E-06	--	1.87E-06	7.00E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.83E-07	--	2.12E-07	7.95E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.93E-07	--	2.89E-07	1.08E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.56E-07	--	9.34E-08	3.50E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.79E-05	--	7.01E-06	2.49E-05	Aroclor, Total	Skin/Eyes/Immune	5.22E+00	--	2.04E+00	7.26E+00
			Dieldrin	1.15E-06	--	--	1.15E-06	Dieldrin	Liver	1.68E-02	--	--	1.68E-02
			Dioxin TEQ	4.19E-06	--	7.04E-07	4.90E-06	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	2.39E-01	--	--	2.39E-01
			Arsenic	8.00E-06	--	6.72E-07	8.67E-06	Arsenic	Skin	2.07E-01	--	1.74E-02	2.25E-01
			Barium	--	--	--	--	Barium	Kidney	1.00E-01	--	--	1.00E-01
			Cadmium	--	--	--	--	Cadmium	Blood	6.07E-02	--	6.80E-03	6.75E-02
			Chromium	--	--	--	--	Chromium	None	1.25E+00	--	--	1.25E+00
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.27E-03	--	--	5.27E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.46E-02	--	--	1.46E-02
			Thallium	--	--	--	--	Thallium	None	9.32E-02	--	--	9.32E-02
			Vanadium	--	--	--	--	Vanadium	Hair	2.32E-02	--	--	2.32E-02
			Zinc	--	--	--	--	Zinc	Blood	1.21E-02	--	--	1.21E-02
			(Total)	3.87E-05	0.00E+00	1.11E-05	4.98E-05	(Total)		7.24E+00	0.00E+00	2.07E+00	9.31E+00
						Total Risk Across Soil	4.98E-05					Total Hazard Index Across Soil	9.31E+00
						Total Risk Across All Media and All Exposure Routes	4.98E-05					Total Hazard Index Across All Media and All Exposure Routes	9.31E+00

Total Skin HI =	7.49E+00
Total Eye/Immune HI =	7.26E+00
Total Liver HI =	1.68E-02
Total Blood HI =	3.19E-01
Total Kidney HI =	1.00E-01
Total CNS HI =	5.27E-03
Total Hair HI =	2.32E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.3 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	3.43E-06	--	2.27E-06	5.70E-06
			Benzo(a)anthracene	6.27E-07	--	5.38E-07	1.16E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.27E-06	--	5.38E-06	1.16E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.13E-07	--	3.55E-07	7.68E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.54E-07	--	5.61E-07	1.22E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.76E-07	--	2.36E-07	5.12E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	5.28E-05	--	4.88E-05	1.02E-04	Aroclor, Total	Skin/Eyes/Immune	3.70E+00	--	3.42E+00	7.12E+00
			Dioxin TEQ	1.42E-04	--	5.63E-05	1.99E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-06	--	2.02E-07	1.22E-06	Arsenic	Skin	6.34E-03	--	1.26E-03	7.60E-03
			Barium	--	--	--	--	Barium	Kidney	6.30E-02	--	--	6.30E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	2.04E-04	0.00E+00	1.12E-04	3.17E-04	(Total)		3.78E+00	0.00E+00	3.42E+00	7.20E+00
						Total Risk Across Soil	3.17E-04					Total Hazard Index Across Soil	7.20E+00
						Total Risk Across All Media and All Exposure Routes	3.17E-04					Total Hazard Index Across All Media and All Exposure Routes	7.20E+00

Total Skin HI = 7.12E+00
Total Eye/Immune HI = 7.12E+00
Total General HI = 5.70E-06

Existing dioxin CSF used for risk calculation.

TABLE 9.4 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	6.44E-05	--	4.25E-05	1.07E-04
			Benzo(a)anthracene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-05	--	1.84E-05	3.98E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.39E-06	--	1.20E-06	2.59E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.61E-07	--	5.67E-07	1.23E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.02E-06	--	8.73E-07	1.89E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.81E-05	--	8.14E-05	1.69E-04	Aroclor, Total	Skin/Eyes/Immune	6.16E+00	--	5.70E+00	1.19E+01
			Dioxin TEQ	4.77E-05	--	1.89E-05	6.66E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.11E-06	--	8.14E-07	4.92E-06	Arsenic	Skin	2.56E-02	--	5.06E-03	3.06E-02
			Barium	--	--	--	--	Barium	Kidney	1.42E-01	--	--	1.42E-01
			Chromium	--	--	--	--	Chromium	None	1.97E-02	--	--	1.97E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.66E-04	0.00E+00	1.24E-04	2.90E-04	(Total)		6.35E+00	0.00E+00	5.70E+00	1.21E+01
						Total Risk Across Soil	2.90E-04					Total Hazard Index Across Soil	1.21E+01
						Total Risk Across All Media and All Exposure Routes	2.90E-04					Total Hazard Index Across All Media and All Exposure Routes	1.21E+01

Total Skin HI =	1.19E+01
Total Eye/Immune HI =	1.19E+01
Total Kidney HI =	1.42E-01
Total General HI =	1.07E-04

Existing dioxin CSF used for risk calculation.

TABLE 9.5 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Trichloroethene	3.60E-08	--	--	3.60E-08	Trichloroethene	Liver/Kidney	8.40E-04	--	--	8.40E-04
			Acetophenone	--	--	--	--	Acetophenone	General	5.34E-05	--	3.53E-05	8.87E-05
			Benzo(a)anthracene	3.98E-06	--	3.41E-06	7.39E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.38E-05	--	2.90E-05	6.28E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.58E-06	--	3.07E-06	6.65E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.76E-06	--	6.66E-06	1.44E-05	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.99E-06	--	1.71E-06	3.70E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.00E-05	--	5.54E-05	1.15E-04	Aroclor, Total	Skin/Eyes/Immune	4.20E+00	--	3.88E+00	8.08E+00
			Dioxin TEQ	8.18E-05	--	3.24E-05	1.14E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.19E-06	--	6.31E-07	3.82E-06	Arsenic	Skin	1.98E-02	--	3.93E-03	2.38E-02
			Barium	--	--	--	--	Barium	Kidney	1.01E-01	--	--	1.01E-01
			Chromium	--	--	--	--	Chromium	None	3.46E-02	--	--	3.46E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.96E-04	0.00E+00	1.32E-04	3.28E-04	(Total)		4.35E+00	0.00E+00	3.88E+00	8.24E+00
						Total Risk Across Soil	3.28E-04					Total Hazard Index Across Soil	8.24E+00
						Total Risk Across All Media and All Exposure Routes	3.28E-04					Total Hazard Index Across All Media and All Exposure Routes	8.24E+00

Total Skin HI =	8.10E+00
Total Eye/Immune HI =	8.08E+00
Total Kidney HI =	1.02E-01
Total General HI =	8.87E-05
Total Liver HI =	8.40E-04

Existing dioxin CSF used for risk calculation.

TABLE 9.6 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.18E-06	--	7.79E-07	1.96E-06
			Benzo(a)pyrene	9.23E-07	--	7.92E-07	1.71E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.36E-04	--	1.25E-04	2.61E-04	Aroclor, Total	Skin/Eyes/Immune	9.51E+00	--	8.78E+00	1.83E+01
			Dioxin TEQ	1.05E-05	--	4.17E-06	1.47E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.67E-06	--	5.28E-07	3.20E-06	Arsenic	Skin	1.66E-02	--	3.29E-03	1.99E-02
			Cadmium	--	--	--	--	Cadmium	Blood	3.10E-02	--	8.19E-03	3.92E-02
			Chromium	--	--	--	--	Chromium	None	1.90E-02	--	--	1.90E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.50E-04	0.00E+00	1.31E-04	2.81E-04	(Total)		9.57E+00	0.00E+00	8.79E+00	1.84E+01
						Total Risk Across Soil	2.81E-04					Total Hazard Index Across Soil	1.84E+01
						Total Risk Across All Media and All Exposure Routes	2.81E-04					Total Hazard Index Across All Media and All Exposure Routes	1.84E+01

Total Skin HI =	1.83E+01
Total Eye/Immune HI =	1.83E+01
Total General HI =	1.96E-06
Total Blood HI =	3.92E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.7 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	8.01E-07	--	6.87E-07	1.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.61E-05	--	6.11E-05	1.27E-04	Aroclor, Total	Skin/Eyes/Immune	4.63E+00	--	4.28E+00	8.90E+00
			Dieldrin	2.89E-07	--	--	2.89E-07	Dieldrin	Liver	1.01E-03	--	--	1.01E-03
			Dioxin TEQ	2.82E-05	--	1.12E-05	3.93E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.94E-06	--	3.84E-07	2.32E-06	Arsenic	Skin	1.21E-02	--	2.39E-03	1.44E-02
			Barium	--	--	--	--	Barium	Kidney	6.31E-02	--	--	6.31E-02
			Chromium	--	--	--	--	Chromium	None	1.47E-02	--	--	1.47E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	9.73E-05	0.00E+00	7.33E-05	1.71E-04	(Total)		4.72E+00	0.00E+00	4.28E+00	9.00E+00
						Total Risk Across Soil	1.71E-04					Total Hazard Index Across Soil	9.00E+00
						Total Risk Across All Media and All Exposure Routes	1.71E-04					Total Hazard Index Across All Media and All Exposure Routes	9.00E+00

Total Skin HI =	8.92E+00
Total Eye/Immune HI =	8.90E+00
Total Kidney HI =	6.31E-02
Total Liver HI =	1.01E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.8A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.58E-07	--	3.93E-07	1.15E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.45E-06	--	3.35E-06	9.79E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	7.01E-07	--	3.64E-07	1.07E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	1.11E-06	--	5.75E-07	1.68E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.39E-07	--	1.76E-07	5.15E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			4,4'-DDT	2.14E-07	--	1.71E-07	3.85E-07	4,4'-DDT	Liver	4.16E-03	--	4.98E-04	4.66E-03
			Aroclor, Total (Conservative)	1.98E-05	--	1.11E-05	3.09E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.45E+00	--	8.08E-01	2.25E+00
			Endrin Ketone	--	--	--	--	Endrin Ketone	Liver, CNS	2.86E-03	--	--	2.86E-03
			Dioxin TEQ	1.22E-04	--	2.92E-05	1.51E-04	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	7.35E-03	--	--	7.35E-03
			Arsenic	1.74E-06	--	2.09E-07	1.95E-06	Arsenic	Skin	1.13E-02	--	1.35E-03	1.27E-02
			Barium	--	--	--	--	Barium	Kidney	8.33E-02	--	--	8.33E-02
			Chromium	--	--	--	--	Chromium	None	2.23E-02	--	--	2.23E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.41E-03	--	--	1.41E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.31E-02	--	--	1.31E-02
			Vanadium	--	--	--	--	Vanadium	Hair	4.97E-03	--	--	4.97E-03
			Zinc	--	--	--	--	Zinc	Blood	7.13E-03	--	--	7.13E-03
			(Total)	1.53E-04	0.00E+00	4.55E-05	1.99E-04	(Total)		1.60E+00	0.00E+00	8.10E-01	2.41E+00
						Total Risk Across Soil	1.99E-04					Total Hazard Index Across Soil	2.41E+00
						Total Risk Across All Media and All Exposure Routes	1.99E-04					Total Hazard Index Across All Media and All Exposure Routes	2.41E+00

Total Skin HI =	2.27E+00
Total Eye/Immune HI =	2.25E+00
Total Kidney HI =	8.33E-02
Total Liver HI =	7.52E-03
Total Blood HI =	1.45E-02
Total CNS HI =	4.28E-03
Total Body Weight HI =	1.31E-02
Total Hair HI =	4.97E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.8B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.77E-06	--	6.44E-07	2.41E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.50E-05	--	5.48E-06	2.05E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.64E-06	--	5.96E-07	2.23E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.59E-06	--	9.42E-07	3.53E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	7.92E-07	--	2.88E-07	1.08E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			4,4'-DDT	4.99E-07	--	2.79E-07	7.79E-07	4,4'-DDT	Liver	3.88E-02	--	3.26E-03	4.21E-02
			Aroclor, Total (Conservative)	4.63E-05	--	1.81E-05	6.44E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.35E+01	--	5.29E+00	1.88E+01
			Endrin Ketone	--	--	--	--	Endrin Ketone	Liver, CNS	2.67E-02	--	--	2.67E-02
			Dioxin TEQ	2.85E-04	--	4.78E-05	3.33E-04	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	6.86E-02	--	--	6.86E-02
			Arsenic	4.07E-06	--	3.42E-07	4.41E-06	Arsenic	Skin	1.05E-01	--	8.86E-03	1.14E-01
			Barium	--	--	--	--	Barium	Kidney	7.78E-01	--	--	7.78E-01
			Chromium	--	--	--	--	Chromium	None	2.08E-01	--	--	2.08E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.32E-02	--	--	1.32E-02
			Nickel	--	--	--	--	Nickel	Body Weight	1.22E-01	--	--	1.22E-01
			Vanadium	--	--	--	--	Vanadium	Hair	4.64E-02	--	--	4.64E-02
			Zinc	--	--	--	--	Zinc	Blood	6.65E-02	--	--	6.65E-02
			(Total)	3.57E-04	0.00E+00	7.46E-05	4.32E-04	(Total)		1.50E+01	0.00E+00	5.30E+00	2.03E+01
						Total Risk Across Soil	4.32E-04					Total Hazard Index Across Soil	2.03E+01
						Total Risk Across All Media and All Exposure Routes	4.32E-04					Total Hazard Index Across All Media and All Exposure Routes	2.03E+01

Total Skin HI =	1.89E+01
Total Eye/Immune HI =	1.88E+01
Total Kidney HI =	7.78E-01
Total Liver HI =	6.88E-02
Total Blood HI =	1.35E-01
Total CNS HI =	3.99E-02
Total Body Weight HI =	1.22E-01
Total Hair HI =	4.64E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.9 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.63E-08	--	5.69E-08	1.23E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.63E-07	--	5.69E-07	1.23E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.40E-08	--	6.35E-08	1.37E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	2.80E-07	--	2.58E-07	5.38E-07	Aroclor, Total	Skin/Eyes/Immune	1.96E-02	--	1.81E-02	3.77E-02
			Dioxin TEQ	8.12E-08	--	3.22E-08	1.13E-07	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	5.03E-07	--	9.96E-08	6.03E-07	Arsenic	Skin	3.13E-03	--	6.20E-04	3.75E-03
			(Total)	1.67E-06	0.00E+00	1.08E-06	2.75E-06	(Total)		2.27E-02	0.00E+00	1.87E-02	4.14E-02
						Total Risk Across Soil	2.75E-06					Total Hazard Index Across Soil	4.14E-02
						Total Risk Across All Media and All Exposure Routes	2.75E-06					Total Hazard Index Across All Media and All Exposure Routes	4.14E-02

Total Skin HI = 4.14E-02
Total Eye/Immune HI = 3.77E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.10 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.43E-07	--	2.94E-07	6.37E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-06	--	1.84E-06	3.98E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.11E-07	--	2.67E-07	5.77E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Aroclor, Total	1.20E-04	--	1.11E-04	2.32E-04	Aroclor, Total	Skin/Eyes/Immune	8.42E+00	--	7.78E+00	1.62E+01
			Dieldrin	2.30E-06	--	--	2.30E-06	Dieldrin	Liver	8.05E-03	--	--	8.05E-03
			Dioxin TEQ	1.85E-04	--	7.32E-05	2.58E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.34E-06	--	8.59E-07	5.20E-06	Arsenic	Skin	2.70E-02	--	5.34E-03	3.23E-02
			Barium	--	--	--	--	Barium	Kidney	9.98E-02	--	--	9.98E-02
			Chromium	--	--	--	--	Chromium	None	8.16E-02	--	--	8.16E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Thallium	--	--	--	--	Thallium	None	1.70E-02	--	--	1.70E-02
			(Total)	3.15E-04	0.00E+00	1.88E-04	5.02E-04	(Total)		8.66E+00	0.00E+00	7.79E+00	1.64E+01
							Total Risk Across Soil 5.02E-04						Total Hazard Index Across Soil 1.64E+01
							Total Risk Across All Media and All Exposure Routes 5.02E-04						Total Hazard Index Across All Media and All Exposure Routes 1.64E+01

Total Skin HI = 1.62E+01
Total Eye/Immune HI = 1.62E+01
Total Kidney HI = 9.98E-02
Total Liver HI = 8.05E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.11 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 -600 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Trichloroethene	3.52E-09	--	--	3.52E-09	Trichloroethene	Liver/Kidney	8.22E-05	--	--	8.22E-05
			Benzo(a)anthracene	1.93E-07	--	1.65E-07	3.58E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	1.15E-06	2.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.68E-07	--	2.30E-07	4.98E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.18E-07	--	1.01E-07	2.19E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.26E-05	--	1.17E-05	2.43E-05	Aroclor, Total	Skin/Eyes/Immune	8.84E-01	--	8.16E-01	1.70E+00
			Dioxin TEQ	2.48E-06	--	9.81E-07	3.46E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.81E-06	--	1.35E-06	8.16E-06	Arsenic	Skin	4.24E-02	--	8.39E-03	5.08E-02
			Barium	--	--	--	--	Barium	Kidney	3.20E-02	--	--	3.20E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	8.84E-03	--	--	8.84E-03
			(Total)	2.38E-05	0.00E+00	1.56E-05	3.95E-05	(Total)		9.82E-01	0.00E+00	8.25E-01	1.81E+00
						Total Risk Across Soil	3.95E-05					Total Hazard Index Across Soil	1.81E+00
						Total Risk Across All Media and All Exposure Routes	3.95E-05					Total Hazard Index Across All Media and All Exposure Routes	1.81E+00

Total Skin HI =	1.75E+00
Total Eye/Immune HI =	1.70E+00
Total Kidney HI =	3.21E-02
Total Liver HI =	8.22E-05
Total Blood HI =	8.84E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.12 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	5.28E-07	--	4.53E-07	9.81E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	7.58E-08	--	6.50E-08	1.41E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	9.18E-08	--	7.88E-08	1.71E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	1.45E-06	--	1.34E-06	2.78E-06	Aroclor, Total	Skin/Eyes/Immune	1.01E-01	--	9.36E-02	1.95E-01
			Dioxin TEQ	2.05E-07	--	8.13E-08	2.86E-07	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	5.66E-07	--	1.12E-07	6.78E-07	Arsenic	Skin	3.52E-03	--	6.97E-04	4.22E-03
			Chromium	--	--	--	--	Chromium	None	1.57E-03	--	--	1.57E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	2.91E-06	0.00E+00	2.13E-06	5.04E-06	(Total)		1.06E-01	0.00E+00	9.43E-02	2.01E-01
						Total Risk Across Soil	5.04E-06					Total Hazard Index Across Soil	2.01E-01
						Total Risk Across All Media and All Exposure Routes	5.04E-06					Total Hazard Index Across All Media and All Exposure Routes	2.01E-01

Total Skin HI = 1.99E-01
Total Eye/Immune HI = 1.95E-01

TABLE 9.13A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.06E-08	--	2.63E-08	5.69E-08	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.42E-07	--	2.08E-07	4.50E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.32E-08	--	2.85E-08	6.16E-08	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.57E-09	--	3.06E-09	6.64E-09	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	1.71E-07	--	1.58E-07	3.29E-07	Aroclor, Total	Skin/Eyes/Immune	1.20E-02	--	1.11E-02	2.31E-02
			Arsenic	7.21E-07	--	1.43E-07	8.63E-07	Arsenic	Skin	4.48E-03	--	8.88E-04	5.37E-03
			Chromium	--	--	--	--	Chromium	None	1.51E-03	--	--	1.51E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.20E-06	0.00E+00	5.67E-07	1.77E-06	(Total)		1.80E-02	0.00E+00	1.20E-02	2.99E-02
						Total Risk Across Soil	1.77E-06					Total Hazard Index Across Soil	2.99E-02
						Total Risk Across All Media and All Exposure Routes	1.77E-06					Total Hazard Index Across All Media and All Exposure Routes	2.99E-02

Total Skin HI = 2.84E-02
Total Eye/Immune HI = 2.31E-02

TABLE 9.13B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.24E-07	--	1.68E-07	4.93E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.65E-06	--	1.38E-06	4.03E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.77E-07	--	9.18E-08	2.69E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.98E-07	--	2.06E-07	6.05E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	9.73E-08	--	5.05E-08	1.48E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	2.10E-06	--	1.17E-06	3.27E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.53E-01	--	8.55E-02	2.39E-01
			Toxicity Equivalency	3.94E-07	--	9.43E-08	4.88E-07	Toxicity Equivalency	N/A	--	--	--	--
			Arsenic	1.67E-06	--	1.99E-07	1.87E-06	Arsenic	Skin	1.08E-02	--	1.29E-03	1.21E-02
			Barium	--	--	--	--	Barium	Kidney	6.46E-03	--	--	6.46E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	7.41E-04	--	--	7.41E-04
			(Total)	7.81E-06	0.00E+00	3.36E-06	1.12E-05	(Total)		1.71E-01	0.00E+00	8.68E-02	2.58E-01
							Total Risk Across Soil 1.12E-05						Total Hazard Index Across Soil 2.58E-01
							Total Risk Across All Media and All Exposure Routes 1.12E-05						Total Hazard Index Across All Media and All Exposure Routes 2.58E-01

Total Skin HI =	2.51E-01
Total Eye/Immune HI =	2.39E-01
Total Kidney HI =	6.46E-03
Total CNS HI =	7.41E-04

TABLE 9.13C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.57E-07	--	2.75E-07	1.03E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.19E-06	--	2.25E-06	8.45E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.13E-07	--	1.50E-07	5.63E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	9.29E-07	--	3.38E-07	1.27E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.27E-07	--	8.26E-08	3.10E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.90E-06	--	1.92E-06	6.82E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.43E+00	--	5.60E-01	1.99E+00
			Toxicity Equivalency	9.19E-07	--	1.54E-07	1.07E-06	Toxicity Equivalency	N/A	--	--	--	--
			Arsenic	3.89E-06	--	3.27E-07	4.21E-06	Arsenic	Skin	1.01E-01	--	8.47E-03	1.09E-01
			Barium	--	--	--	--	Barium	Kidney	6.03E-02	--	--	6.03E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	6.91E-03	--	--	6.91E-03
			(Total)	1.82E-05	0.00E+00	5.50E-06	2.37E-05	(Total)		1.60E+00	0.00E+00	5.69E-01	2.17E+00
						Total Risk Across Soil	2.37E-05					Total Hazard Index Across Soil	2.17E+00
						Total Risk Across All Media and All Exposure Routes	2.37E-05					Total Hazard Index Across All Media and All Exposure Routes	2.17E+00

Total Skin HI =	2.10E+00
Total Eye/Immune HI =	1.99E+00
Total Kidney HI =	6.03E-02
Total CNS HI =	6.91E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.14 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.29E-06	--	8.52E-07	2.14E-06
			Benzo(a)pyrene	3.14E-07	--	2.70E-07	5.84E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.57E-04	--	1.45E-04	3.02E-04	Aroclor, Total	Skin/Eyes/Immune	1.10E+01	--	1.01E+01	2.11E+01
			Dioxin TEQ	5.42E-06	--	2.15E-06	7.57E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.71E-06	--	7.35E-07	4.45E-06	Arsenic	Skin	2.31E-02	--	4.57E-03	2.77E-02
			Barium	--	--	--	--	Barium	Kidney	4.99E-02	--	--	4.99E-02
			Chromium	--	--	--	--	Chromium	None	1.10E-02	--	--	1.10E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	2.64E-02	--	--	2.64E-02
			(Total)	1.66E-04	0.00E+00	1.48E-04	3.14E-04	(Total)		1.11E+01	0.00E+00	1.01E+01	2.12E+01
						Total Risk Across Soil	3.14E-04					Total Hazard Index Across Soil	2.12E+01
						Total Risk Across All Media and All Exposure Routes	3.14E-04					Total Hazard Index Across All Media and All Exposure Routes	2.12E+01

Total Skin HI =	2.12E+01
Total Eye/Immune HI =	2.11E+01
Total Kidney HI =	4.99E-02
Total General HI =	2.14E-06
Total Blood HI =	2.64E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.15 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total	6.04E-07	--	5.58E-07	1.16E-06	Aroclor, Total	Skin/Eyes/Immune	4.23E-02	--	3.91E-02	8.13E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	6.04E-07	0.00E+00	5.58E-07	1.16E-06	(Total)		4.23E-02	0.00E+00	3.91E-02	8.13E-02
							Total Risk Across Soil 1.16E-06						Total Hazard Index Across Soil 8.13E-02
							Total Risk Across All Media and All Exposure Routes 1.16E-06						Total Hazard Index Across All Media and All Exposure Routes 8.13E-02

Total Skin HI = 8.13E-02
Total Eye/Immune HI = 8.13E-02

Existing dioxin CSF used for risk calculation.

TABLE 9.17 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	3.32E-08	--	2.85E-08	6.16E-08	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	2.94E-08	--	2.71E-08	5.65E-08	Aroclor, Total	Skin/Eyes/Immune	2.05E-03	--	1.90E-03	3.95E-03
			Arsenic	5.24E-08	--	1.04E-08	6.28E-08	Arsenic	Skin	3.26E-04	--	6.46E-05	3.91E-04
			Chromium	--	--	--	--	Chromium	None	1.10E-03	--	--	1.10E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.15E-07	0.00E+00	6.60E-08	1.81E-07	(Total)		3.48E-03	0.00E+00	1.96E-03	5.44E-03
						Total Risk Across Soil	1.81E-07					Total Hazard Index Across Soil	5.44E-03
						Total Risk Across All Media and All Exposure Routes	1.81E-07					Total Hazard Index Across All Media and All Exposure Routes	5.44E-03

Total Skin HI = 4.34E-03
Total Eye/Immune HI = 3.95E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.20A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.42E-07	--	1.26E-07	3.68E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.98E-06	--	1.03E-06	3.01E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.64E-07	--	1.37E-07	4.02E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.53E-07	--	1.83E-07	5.36E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.70E-07	--	8.80E-08	2.58E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.17E-06	--	2.33E-06	6.49E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	3.04E-01	--	1.70E-01	4.74E-01
			Dioxin TEQ	1.77E-05	--	4.23E-06	2.19E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.03E-06	--	1.24E-07	1.16E-06	Arsenic	Skin	6.69E-03	--	8.01E-04	7.49E-03
			Barium	--	--	--	--	Barium	Kidney	2.48E-02	--	--	2.48E-02
			Cadmium	--	--	--	--	Cadmium	Blood	8.89E-04	--	1.42E-04	1.03E-03
			Chromium	--	--	--	--	Chromium	None	2.37E-03	--	--	2.37E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.30E-04	--	--	3.30E-04
			Nickel	--	--	--	--	Nickel	Body Weight	7.27E-04	--	--	7.27E-04
			Zinc	--	--	--	--	Zinc	Blood	8.16E-04	--	--	8.16E-04
			(Total)	2.59E-05	0.00E+00	8.24E-06	3.41E-05	(Total)		3.40E-01	0.00E+00	1.71E-01	5.11E-01
						Total Risk Across Soil	3.41E-05					Total Hazard Index Across Soil	5.11E-01
						Total Risk Across All Media and All Exposure Routes	3.41E-05					Total Hazard Index Across All Media and All Exposure Routes	5.11E-01

Total Skin HI =	4.81E-01
Total Eye/Immune HI =	4.74E-01
Total Kidney HI =	2.48E-02
Total Blood HI =	1.85E-03
Total CNS HI =	3.30E-04
Total Body Weight HI =	7.27E-04

Existing dioxin CSF used for risk calculation.

TABLE 9.20B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.66E-07	--	2.06E-07	7.72E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	4.63E-06	--	1.68E-06	6.31E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	6.17E-07	--	2.25E-07	8.42E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	8.23E-07	--	3.00E-07	1.12E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.96E-07	--	1.44E-07	5.40E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	9.72E-06	--	3.81E-06	1.35E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	2.84E+00	--	1.11E+00	3.95E+00
			Dioxin TEQ	4.12E-05	--	6.92E-06	4.81E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.41E-06	--	2.02E-07	2.61E-06	Arsenic	Skin	6.25E-02	--	5.25E-03	6.77E-02
			Barium	--	--	--	--	Barium	Kidney	2.31E-01	--	--	2.31E-01
			Cadmium	--	--	--	--	Cadmium	Blood	8.30E-03	--	9.30E-04	9.23E-03
			Chromium	--	--	--	--	Chromium	None	2.21E-02	--	--	2.21E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.08E-03	--	--	3.08E-03
			Nickel	--	--	--	--	Nickel	Body Weight	6.78E-03	--	--	6.78E-03
			Zinc	--	--	--	--	Zinc	Blood	7.62E-03	--	--	7.62E-03
			(Total)	6.04E-05	0.00E+00	1.35E-05	7.39E-05	(Total)		3.18E+00	0.00E+00	1.12E+00	4.30E+00
						Total Risk Across Soil	7.39E-05					Total Hazard Index Across Soil	4.30E+00
						Total Risk Across All Media and All Exposure Routes	7.39E-05					Total Hazard Index Across All Media and All Exposure Routes	4.30E+00

Total Skin HI =	4.01E+00
Total Eye/Immune HI =	3.95E+00
Total Kidney HI =	2.31E-01
Total Blood HI =	1.68E-02
Total CNS HI =	3.08E-03
Total Body Weight HI =	6.78E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.21 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.91E-07	--	1.64E-07	3.55E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.53E-07	--	1.31E-07	2.84E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	4.46E-07	--	3.83E-07	8.29E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.16E-07	--	9.96E-08	2.16E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.39E-07	--	7.75E-07	1.61E-06	Aroclor, Total	Skin/Eyes/Immune	5.87E-02	--	5.42E-02	1.13E-01
			Dioxin TEQ	1.01E-06	--	4.00E-07	1.41E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-07	--	2.02E-08	1.22E-07	Arsenic	Skin	6.36E-04	--	1.26E-04	7.62E-04
			Chromium	--	--	--	--	Chromium	None	6.96E-02	--	--	6.96E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	2.52E-03	--	--	2.52E-03
			(Total)	4.64E-06	0.00E+00	3.51E-06	8.15E-06	(Total)		1.32E-01	0.00E+00	5.44E-02	1.86E-01
						Total Risk Across Soil	8.15E-06					Total Hazard Index Across Soil	1.86E-01
						Total Risk Across All Media and All Exposure Routes	8.15E-06					Total Hazard Index Across All Media and All Exposure Routes	1.86E-01

Total Skin HI =	1.14E-01
Total Eye/Immune HI =	1.13E-01
Total CNS HI =	2.52E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.22 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.68E-07	--	6.59E-07	1.43E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.43E-06	--	5.52E-06	1.19E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.54E-07	--	4.75E-07	1.03E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	6.61E-07	--	5.67E-07	1.23E-06	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.14E-06	--	1.84E-06	3.98E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.64E-07	--	3.98E-07	8.63E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Arsenic	1.91E-07	--	3.78E-08	2.29E-07	Arsenic	Skin	1.19E-03	--	2.35E-04	1.42E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.12E-05	0.00E+00	9.49E-06	2.07E-05	(Total)		1.19E-03	0.00E+00	2.35E-04	1.42E-03
						Total Risk Across Soil	2.07E-05					Total Hazard Index Across Soil	1.42E-03
						Total Risk Across All Media and All Exposure Routes	2.07E-05					Total Hazard Index Across All Media and All Exposure Routes	1.42E-03

Total Skin HI = 1.42E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.23A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.76E-07	--	7.03E-08	2.46E-07
			Acenaphthylene	--	--	--	--	Acenaphthylene	N/A	2.54E-06	--	1.32E-06	3.86E-06
			Benzo(a)anthracene	1.41E-07	--	7.32E-08	2.14E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.12E-06	--	5.79E-07	1.70E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.06E-07	--	5.49E-08	1.61E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	9.40E-08	--	4.88E-08	1.43E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.23E-07	--	1.16E-07	3.39E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.52E-08	--	2.87E-08	8.39E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	6.76E-07	--	3.78E-07	1.05E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.93E-02	--	2.75E-02	7.69E-02
			Dioxin TEQ	1.21E-06	--	2.89E-07	1.50E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.76E-08	--	8.10E-09	7.57E-08	Arsenic	Skin	4.38E-04	--	5.25E-05	4.91E-04
			Barium	--	--	--	--	Barium	Kidney	4.39E-03	--	--	4.39E-03
			Chromium	--	--	--	--	Chromium	None	5.90E-04	--	--	5.90E-04
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.38E-05	--	--	5.38E-05
			Nickel	--	--	--	--	Nickel	Body Weight	2.79E-04	--	--	2.79E-04
			(Total)	3.69E-06	0.00E+00	1.58E-06	5.26E-06	(Total)		5.51E-02	0.00E+00	2.76E-02	8.27E-02
						Total Risk Across Soil	5.26E-06					Total Hazard Index Across Soil	8.27E-02
						Total Risk Across All Media and All Exposure Routes	5.26E-06					Total Hazard Index Across All Media and All Exposure Routes	8.27E-02

Total Skin HI =	7.74E-02
Total Eye/Immune HI =	7.69E-02
Total Kidney HI =	4.39E-03
Total General HI =	2.46E-07
Total CNS HI =	5.38E-05
Total Body Weight HI =	2.79E-04

Existing dioxin CSF used for risk calculation.

TABLE 9.23B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.64E-06	--	4.60E-07	2.10E-06
			Acenaphthylene	--	--	--	--	Acenaphthylene	N/A	2.37E-05	--	8.64E-06	3.24E-05
			Benzo(a)anthracene	3.29E-07	--	1.20E-07	4.49E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.61E-06	--	9.48E-07	3.55E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.47E-07	--	8.99E-08	3.37E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	2.19E-07	--	7.99E-08	2.99E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.21E-07	--	1.90E-07	7.11E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.29E-07	--	4.69E-08	1.76E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	1.58E-06	--	6.19E-07	2.20E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.60E-01	--	1.80E-01	6.41E-01
			Dioxin TEQ	2.82E-06	--	4.73E-07	3.29E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.58E-07	--	1.33E-08	1.71E-07	Arsenic	Skin	4.09E-03	--	3.44E-04	4.43E-03
			Barium	--	--	--	--	Barium	Kidney	4.10E-02	--	--	4.10E-02
			Chromium	--	--	--	--	Chromium	None	5.51E-03	--	--	5.51E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.03E-04	--	--	5.03E-04
			Nickel	--	--	--	--	Nickel	Body Weight	2.61E-03	--	--	2.61E-03
			(Total)	8.61E-06	0.00E+00	2.58E-06	1.12E-05	(Total)		5.14E-01	0.00E+00	1.81E-01	6.95E-01
						Total Risk Across Soil	1.12E-05					Total Hazard Index Across Soil	6.95E-01
						Total Risk Across All Media and All Exposure Routes	1.12E-05					Total Hazard Index Across All Media and All Exposure Routes	6.95E-01

Total Skin HI =	6.45E-01
Total Eye/Immune HI =	6.41E-01
Total Kidney HI =	4.10E-02
Total General HI =	2.10E-06
Total CNS HI =	5.03E-04
Total Body Weight HI =	2.61E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.24A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.55E-07	--	1.02E-07	3.56E-07
			Benzo(a)anthracene	5.55E-08	--	2.88E-08	8.44E-08	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	5.76E-07	--	2.99E-07	8.75E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.14E-08	--	2.67E-08	7.81E-08	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.35E-08	--	2.77E-08	8.12E-08	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.47E-08	--	1.28E-08	3.75E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	2.03E-06	--	1.13E-06	3.16E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.48E-01	--	8.26E-02	2.31E-01
			Dieldrin	1.80E-08	--	--	--	Dieldrin	Liver	6.58E-05	--	--	6.58E-05
			Dioxin TEQ	3.17E-08	--	7.59E-09	3.93E-08	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.63E-04	--	--	8.63E-04
			Arsenic	4.99E-07	--	5.97E-08	5.58E-07	Arsenic	Skin	3.23E-03	--	3.87E-04	3.62E-03
			Barium	--	--	--	--	Barium	Kidney	1.17E-02	--	--	1.17E-02
			Chromium	--	--	--	--	Chromium	None	4.27E-03	--	--	4.27E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.84E-04	--	--	1.84E-04
			Nickel	--	--	--	--	Nickel	Body Weight	1.80E-03	--	--	1.80E-03
			Zinc	--	--	--	--	Zinc	Blood	1.99E-03	--	--	1.99E-03
			(Total)	3.34E-06	0.00E+00	1.60E-06	4.92E-06	(Total)		1.72E-01	0.00E+00	8.30E-02	2.55E-01
						Total Risk Across Soil	4.92E-06					Total Hazard Index Across Soil	2.55E-01
						Total Risk Across All Media and All Exposure Routes	4.92E-06					Total Hazard Index Across All Media and All Exposure Routes	2.55E-01

Total Skin HI =	2.34E-01
Total Eye/Immune HI =	2.31E-01
Total Kidney HI =	1.17E-02
Total General HI =	3.56E-07
Total Blood HI =	2.85E-03
Total CNS HI =	1.84E-04
Total Body Weight HI =	1.80E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.24B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.38E-06	--	6.66E-07	3.04E-06
			Benzo(a)anthracene	1.30E-07	--	4.72E-08	1.77E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	4.89E-07	1.83E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.20E-07	--	4.37E-08	1.64E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	1.25E-07	--	4.54E-08	1.70E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.76E-08	--	2.10E-08	7.86E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.73E-06	--	1.86E-06	6.59E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.38E+00	--	5.41E-01	1.92E+00
			Dieldrin	4.21E-08	--	--	--	Dieldrin	Liver	6.14E-04	--	--	6.14E-04
			Dioxin TEQ	7.40E-08	--	1.24E-08	8.64E-08	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.05E-03	--	--	8.05E-03
			Arsenic	1.16E-06	--	9.78E-08	1.26E-06	Arsenic	Skin	3.02E-02	--	2.53E-03	3.27E-02
			Barium	--	--	--	--	Barium	Kidney	1.09E-01	--	--	1.09E-01
			Chromium	--	--	--	--	Chromium	None	3.99E-02	--	--	3.99E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.72E-03	--	--	1.72E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.68E-02	--	--	1.68E-02
			Zinc	--	--	--	--	Zinc	Blood	1.86E-02	--	--	1.86E-02
			(Total)	7.79E-06	0.00E+00	2.61E-06	1.04E-05	(Total)		1.61E+00	0.00E+00	5.44E-01	2.15E+00
						Total Risk Across Soil	1.04E-05					Total Hazard Index Across Soil	2.15E+00
						Total Risk Across All Media and All Exposure Routes	1.04E-05					Total Hazard Index Across All Media and All Exposure Routes	2.15E+00

Total Skin HI =	1.95E+00
Total Eye/Immune HI =	1.92E+00
Total Kidney HI =	1.09E-01
Total General HI =	3.04E-06
Total Blood HI =	2.66E-02
Total CNS HI =	1.72E-03
Total Body Weight HI =	1.68E-02

Existing dioxin CSF used for risk calculation.

TABLE 10.1A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	3.82E-06	--	3.27E-06	7.09E-06						
			Dibenzo(a,h)anthracene	5.90E-07	--	5.06E-07	1.10E-06						
			Aroclor, Total	1.33E-05	--	1.23E-05	2.56E-05	Aroclor, Total	Skin/Eyes/Immune	9.32E-01	--	8.61E-01	1.79E+00
			Dioxin TEQ	3.12E-06	--	1.24E-06	4.35E-06						
			Arsenic	5.95E-06	--	1.18E-06	7.13E-06						
			(Total)	2.68E-05	0.00E+00	1.85E-05	4.53E-05	(Total)		9.32E-01	0.00E+00	8.61E-01	1.79E+00
						Total Risk Across Soil	4.53E-05					Total Hazard Index Across Soil	1.79E+00
						Total Risk Across All Media and All Exposure Routes	4.53E-05					Total Hazard Index Across All Media and All Exposure Routes	1.79E+00

Total Skin HI = 1.79E+00
Total Eye/Immune HI = 1.79E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.1B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.20E-06	--	1.14E-06	3.34E-06						
			Aroclor, Total	7.66E-06	--	4.28E-06	1.19E-05						
			Dioxin TEQ	1.80E-06	--	4.30E-07	2.23E-06						
			Arsenic	3.43E-06	--	4.10E-07	3.84E-06						
			(Total)	1.51E-05	0.00E+00	6.26E-06	2.14E-05	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	2.14E-05					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	2.14E-05					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.1C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	5.13E-06	--	1.87E-06	7.00E-06						
			Dibenzo(a,h)anthracene	7.93E-07	--	2.89E-07	1.08E-06						
			Aroclor, Total	1.79E-05	--	7.01E-06	2.49E-05	Aroclor, Total	Skin/Eyes/Immune	5.22E+00	--	2.04E+00	7.26E+00
			Dieldrin	1.15E-06	--	--	1.15E-06						
			Dioxin TEQ	4.19E-06	--	7.04E-07	4.90E-06						
			Arsenic	8.00E-06	--	6.72E-07	8.67E-06						
								Chromium	None	1.25E+00	--	--	1.25E+00
			(Total)	3.71E-05	0.00E+00	1.05E-05	4.77E-05	(Total)		6.46E+00	0.00E+00	2.04E+00	8.51E+00
						Total Risk Across Soil	4.77E-05					Total Hazard Index Across Soil	8.51E+00
						Total Risk Across All Media and All Exposure Routes	4.77E-05					Total Hazard Index Across All Media and All Exposure Routes	8.51E+00

Total Skin HI = 7.26E+00
Total Eye/Immune HI = 7.26E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.3 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.27E-07	--	5.38E-07	1.16E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.27E-06	--	5.38E-06	1.16E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.54E-07	--	5.61E-07	1.22E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	5.28E-05	--	4.88E-05	1.02E-04	Aroclor, Total	Skin/Eyes/Immune	3.70E+00	--	3.42E+00	7.12E+00
			Dioxin TEQ	1.42E-04	--	5.63E-05	1.99E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-06	--	2.02E-07	1.22E-06	Arsenic	Skin	6.34E-03	--	1.26E-03	7.60E-03
			(Total)	2.04E-04	0.00E+00	1.12E-04	3.15E-04	(Total)		3.70E+00	0.00E+00	3.42E+00	7.12E+00
						Total Risk Across Soil	3.15E-04					Total Hazard Index Across Soil	7.12E+00
						Total Risk Across All Media and All Exposure Routes	3.15E-04					Total Hazard Index Across All Media and All Exposure Routes	7.12E+00

Total Skin HI = 7.12E+00
Total Eye/Immune HI = 7.12E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.4 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-05	--	1.84E-05	3.98E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.39E-06	--	1.20E-06	2.59E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.61E-07	--	5.67E-07	1.23E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.02E-06	--	8.73E-07	1.89E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.81E-05	--	8.14E-05	1.69E-04	Aroclor, Total	Skin/Eyes/Immune	6.16E+00	--	5.70E+00	1.19E+01
			Dioxin TEQ	4.77E-05	--	1.89E-05	6.66E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.11E-06	--	8.14E-07	4.92E-06	Arsenic	Skin	2.56E-02	--	5.06E-03	3.06E-02
			(Total)	1.66E-04	0.00E+00	1.24E-04	2.90E-04	(Total)		6.19E+00	0.00E+00	5.70E+00	1.19E+01
						Total Risk Across Soil	2.90E-04					Total Hazard Index Across Soil	1.19E+01
						Total Risk Across All Media and All Exposure Routes	2.90E-04					Total Hazard Index Across All Media and All Exposure Routes	1.19E+01

Total Skin HI = 1.19E+01
Total Eye/Immune HI = 1.19E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.5 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.98E-06	--	3.41E-06	7.39E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.38E-05	--	2.90E-05	6.28E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.58E-06	--	3.07E-06	6.65E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.76E-06	--	6.66E-06	1.44E-05	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.99E-06	--	1.71E-06	3.70E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.00E-05	--	5.54E-05	1.15E-04	Aroclor, Total	Skin/Eyes/Immune	4.20E+00	--	3.88E+00	8.08E+00
			Dioxin TEQ	8.18E-05	--	3.24E-05	1.14E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.19E-06	--	6.31E-07	3.82E-06	Arsenic	Skin	1.98E-02	--	3.93E-03	2.38E-02
			(Total)	1.96E-04	0.00E+00	1.32E-04	3.28E-04	(Total)		4.22E+00	0.00E+00	3.88E+00	8.10E+00
						Total Risk Across Soil	3.28E-04					Total Hazard Index Across Soil	8.10E+00
						Total Risk Across All Media and All Exposure Routes	3.28E-04					Total Hazard Index Across All Media and All Exposure Routes	8.10E+00

Total Skin HI = 8.10E+00
Total Eye/Immune HI = 8.08E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.6 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	9.23E-07	--	7.92E-07	1.71E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.36E-04	--	1.25E-04	2.61E-04	Aroclor, Total	Skin/Eyes/Immune	9.51E+00	--	8.78E+00	1.83E+01
			Dioxin TEQ	1.05E-05	--	4.17E-06	1.47E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.67E-06	--	5.28E-07	3.20E-06	Arsenic	Skin	1.66E-02	--	3.29E-03	1.99E-02
			(Total)	1.50E-04	0.00E+00	1.31E-04	2.81E-04	(Total)		9.52E+00	0.00E+00	8.79E+00	1.83E+01
						Total Risk Across Soil	2.81E-04					Total Hazard Index Across Soil	1.83E+01
						Total Risk Across All Media and All Exposure Routes	2.81E-04					Total Hazard Index Across All Media and All Exposure Routes	1.83E+01

Total Skin HI = 1.83E+01
Total Eye/Immune HI = 1.83E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.7 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	8.01E-07	--	6.87E-07	1.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.61E-05	--	6.11E-05	1.27E-04	Aroclor, Total	Skin/Eyes/Immune	4.63E+00	--	4.28E+00	8.90E+00
			Dioxin TEQ	2.82E-05	--	1.12E-05	3.93E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.94E-06	--	3.84E-07	2.32E-06	Arsenic	Skin	1.21E-02	--	2.39E-03	1.44E-02
			(Total)	9.70E-05	0.00E+00	7.33E-05	1.70E-04	(Total)		4.64E+00	0.00E+00	4.28E+00	8.92E+00
						Total Risk Across Soil	1.70E-04					Total Hazard Index Across Soil	8.92E+00
						Total Risk Across All Media and All Exposure Routes	1.70E-04					Total Hazard Index Across All Media and All Exposure Routes	8.92E+00

Total Skin HI = 8.92E+00
Total Eye/Immune HI = 8.90E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.8A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.58E-07	--	3.93E-07	1.15E-06						
			Benzo(a)pyrene	6.45E-06	--	3.35E-06	9.79E-06						
			Benzo(b)fluoranthene	7.01E-07	--	3.64E-07	1.07E-06						
			Dibenzo(a,h)anthracene	1.11E-06	--	5.75E-07	1.68E-06						
			Aroclor, Total (Conservative)	1.98E-05	--	1.11E-05	3.09E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.45E+00	--	8.08E-01	2.25E+00
			Dioxin TEQ	1.22E-04	--	2.92E-05	1.51E-04						
			Arsenic	1.74E-06	--	2.09E-07	1.95E-06						
			(Total)	1.53E-04	0.00E+00	4.52E-05	1.98E-04	(Total)		1.45E+00	0.00E+00	8.08E-01	2.25E+00
						Total Risk Across Soil	1.98E-04					Total Hazard Index Across Soil	2.25E+00
						Total Risk Across All Media and All Exposure Routes	1.98E-04					Total Hazard Index Across All Media and All Exposure Routes	2.25E+00

Total Skin HI = 2.25E+00
Total Eye/Immune HI = 2.25E+00

TABLE 10.8B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.77E-06	--	6.44E-07	2.41E-06						
			Benzo(a)pyrene	1.50E-05	--	5.48E-06	2.05E-05						
			Benzo(b)fluoranthene	1.64E-06	--	5.96E-07	2.23E-06						
			Dibenzo(a,h)anthracene	2.59E-06	--	9.42E-07	3.53E-06						
			Indeno(1,2,3-cd)pyrene	7.92E-07	--	2.88E-07	1.08E-06						
			Aroclor, Total (Conservative)	4.63E-05	--	1.81E-05	6.44E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.35E+01	--	5.29E+00	1.88E+01
			Dioxin TEQ	2.85E-04	--	4.78E-05	3.33E-04						
			Arsenic	4.07E-06	--	3.42E-07	4.41E-06						
			(Total)	3.57E-04	0.00E+00	7.43E-05	4.31E-04	(Total)		1.35E+01	0.00E+00	5.29E+00	1.88E+01
						Total Risk Across Soil	4.31E-04					Total Hazard Index Across Soil	1.88E+01
						Total Risk Across All Media and All Exposure Routes	4.31E-04					Total Hazard Index Across All Media and All Exposure Routes	1.88E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.9 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	6.63E-07	--	5.69E-07	1.23E-06						
			(Total)	6.63E-07	0.00E+00	5.69E-07	1.23E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	1.23E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	1.23E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

TABLE 10.10 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.14E-06	--	1.84E-06	3.98E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.20E-04	--	1.11E-04	2.32E-04	Aroclor, Total	Skin/Eyes/Immune	8.42E+00	--	7.78E+00	1.62E+01
			Dieldrin	2.30E-06	--	--	2.30E-06	Dieldrin	Liver	8.05E-03	--	--	8.05E-03
			Dioxin TEQ	1.85E-04	--	7.32E-05	2.58E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.34E-06	--	8.59E-07	5.20E-06	Arsenic	Skin	2.70E-02	--	5.34E-03	3.23E-02
			(Total)	3.14E-04	0.00E+00	1.87E-04	5.01E-04	(Total)		8.46E+00	0.00E+00	7.79E+00	1.62E+01
						Total Risk Across Soil	5.01E-04					Total Hazard Index Across Soil	1.62E+01
						Total Risk Across All Media and All Exposure Routes	5.01E-04					Total Hazard Index Across All Media and All Exposure Routes	1.62E+01

Total Skin HI = 1.62E+01
Total Eye/Immune HI = 1.62E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.11 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 -600 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.34E-06	--	1.15E-06	2.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.26E-05	--	1.17E-05	2.43E-05	Aroclor, Total	Skin/Eyes/Immune	8.84E-01	--	8.16E-01	1.70E+00
			Dioxin TEQ	2.48E-06	--	9.81E-07	3.46E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.81E-06	--	1.35E-06	8.16E-06	Arsenic	Skin	4.24E-02	--	8.39E-03	5.08E-02
			(Total)	2.33E-05	0.00E+00	1.51E-05	3.84E-05	(Total)		9.26E-01	0.00E+00	8.25E-01	1.75E+00
						Total Risk Across Soil	3.84E-05					Total Hazard Index Across Soil	1.75E+00
						Total Risk Across All Media and All Exposure Routes	3.84E-05					Total Hazard Index Across All Media and All Exposure Routes	1.75E+00

Total Skin HI =	1.75E+00
Total Eye/Immune HI =	1.70E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.12 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total	1.45E-06	--	1.34E-06	2.78E-06						
			(Total)	1.45E-06	0.00E+00	1.34E-06	2.78E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	2.78E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	2.78E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

TABLE 10.13B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.65E-06	--	1.38E-06	4.03E-06						
			Aroclor, Total (Conservative)	2.10E-06	--	1.17E-06	3.27E-06						
			Arsenic	1.67E-06	--	1.99E-07	1.87E-06						
			(Total)	6.42E-06	0.00E+00	2.75E-06	9.17E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
							Total Risk Across Soil						Total Hazard Index Across Soil
							9.17E-06						0.00E+00
							Total Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							9.17E-06						0.00E+00

TABLE 10.13C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.57E-07	--	2.75E-07	1.03E-06						
			Benzo(a)pyrene	6.19E-06	--	2.25E-06	8.45E-06						
			Dibenzo(a,h)anthracene	9.29E-07	--	3.38E-07	1.27E-06						
			Aroclor, Total (Conservative)	4.90E-06	--	1.92E-06	6.82E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.43E+00	--	5.60E-01	1.99E+00
			Toxicity Equivalency	9.19E-07	--	1.54E-07	1.07E-06						
			Arsenic	3.89E-06	--	3.27E-07	4.21E-06						
			(Total)	1.76E-05	0.00E+00	5.27E-06	2.29E-05	(Total)		1.43E+00	0.00E+00	5.60E-01	1.99E+00
						Total Risk Across Soil	2.29E-05					Total Hazard Index Across Soil	1.99E+00
						Total Risk Across All Media and All Exposure Routes	2.29E-05					Total Hazard Index Across All Media and All Exposure Routes	1.99E+00

Total Skin HI = 1.99E+00
Total Eye/Immune HI = 1.99E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.14 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total	1.57E-04	--	1.45E-04	3.02E-04	Aroclor, Total	Skin/Eyes/Immune	1.10E+01	--	1.01E+01	2.11E+01
			Dioxin TEQ	5.42E-06	--	2.15E-06	7.57E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.71E-06	--	7.35E-07	4.45E-06	Arsenic	Skin	2.31E-02	--	4.57E-03	2.77E-02
			(Total)	1.66E-04	0.00E+00	1.48E-04	3.14E-04	(Total)		1.10E+01	0.00E+00	1.01E+01	2.12E+01
						Total Risk Across Soil	3.14E-04					Total Hazard Index Across Soil	2.12E+01
						Total Risk Across All Media and All Exposure Routes	3.14E-04					Total Hazard Index Across All Media and All Exposure Routes	2.12E+01

Total Skin HI = 2.12E+01
Total Eye/Immune HI = 2.11E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.15 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total	6.04E-07	--	5.58E-07	1.16E-06						
			(Total)	6.04E-07	0.00E+00	5.58E-07	1.16E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	1.16E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	1.16E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

TABLE 10.20A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.98E-06	--	1.03E-06	3.01E-06						
			Aroclor, Total (Conservative)	4.17E-06	--	2.33E-06	6.49E-06						
			Dioxin TEQ	1.77E-05	--	4.23E-06	2.19E-05						
			Arsenic	1.03E-06	--	1.24E-07	1.16E-06						
			(Total)	2.48E-05	0.00E+00	7.71E-06	3.26E-05	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	3.26E-05					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	3.26E-05					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.20B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	4.63E-06	--	1.68E-06	6.31E-06						
			Dibenzo(a,h)anthracene	8.23E-07	--	3.00E-07	1.12E-06						
			Aroclor, Total (Conservative)	9.72E-06	--	3.81E-06	1.35E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	2.84E+00	--	1.11E+00	3.95E+00
			Dioxin TEQ	4.12E-05	--	6.92E-06	4.81E-05						
			Arsenic	2.41E-06	--	2.02E-07	2.61E-06						
			(Total)	5.88E-05	0.00E+00	1.29E-05	7.17E-05	(Total)		2.84E+00	0.00E+00	1.11E+00	3.95E+00
						Total Risk Across Soil	7.17E-05					Total Hazard Index Across Soil	3.95E+00
						Total Risk Across All Media and All Exposure Routes	7.17E-05					Total Hazard Index Across All Media and All Exposure Routes	3.95E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.21 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.79E-06	--	1.53E-06	3.32E-06						
			Aroclor, Total	8.39E-07	--	7.75E-07	1.61E-06						
			Dioxin TEQ	1.01E-06	--	4.00E-07	1.41E-06						
			(Total)	3.63E-06	0.00E+00	2.71E-06	6.34E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	6.34E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	6.34E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.22 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.68E-07	--	6.59E-07	1.43E-06						
			Benzo(a)pyrene	6.43E-06	--	5.52E-06	1.19E-05						
			Benzo(b)fluoranthene	5.54E-07	--	4.75E-07	1.03E-06						
			Benzo(k)fluoranthene	6.61E-07	--	5.67E-07	1.23E-06						
			Dibenzo(a,h)anthracene	2.14E-06	--	1.84E-06	3.98E-06						
			(Total)	1.06E-05	0.00E+00	9.05E-06	1.96E-05	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
							Total Risk Across Soil						Total Hazard Index Across Soil
							1.96E-05						0.00E+00
							Total Risk Across All Media and All Exposure Routes						Total Hazard Index Across All Media and All Exposure Routes
							1.96E-05						0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.23A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.12E-06	--	5.79E-07	1.70E-06						
			Aroclor, Total (Conservative)	6.76E-07	--	3.78E-07	1.05E-06						
			Dioxin TEQ	1.21E-06	--	2.89E-07	1.50E-06						
			(Total)	3.00E-06	0.00E+00	1.25E-06	4.25E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	4.25E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	4.25E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.23B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.61E-06	--	9.48E-07	3.55E-06						
			Aroclor, Total (Conservative)	1.58E-06	--	6.19E-07	2.20E-06						
			Dioxin TEQ	2.82E-06	--	4.73E-07	3.29E-06						
			(Total)	7.00E-06	0.00E+00	2.04E-06	9.04E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	9.04E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	9.04E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.24A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total (Conservative)	2.03E-06	--	1.13E-06	3.16E-06						
			(Total)	2.03E-06	0.00E+00	1.13E-06	3.16E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
						Total Risk Across Soil	3.16E-06					Total Hazard Index Across Soil	0.00E+00
						Total Risk Across All Media and All Exposure Routes	3.16E-06					Total Hazard Index Across All Media and All Exposure Routes	0.00E+00

TABLE 10.24B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.34E-06	--	4.89E-07	1.83E-06						
			Aroclor, Total (Conservative)	4.73E-06	--	1.86E-06	6.59E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.38E+00	--	5.41E-01	1.92E+00
			Arsenic	1.16E-06	--	9.78E-08	1.26E-06						
			(Total)	7.24E-06	0.00E+00	2.44E-06	9.68E-06	(Total)		1.38E+00	0.00E+00	5.41E-01	1.92E+00
							Total Risk Across Soil	9.68E-06					Total Hazard Index Across Soil	1.92E+00
							Total Risk Across All Media and All Exposure Routes	9.68E-06					Total Hazard Index Across All Media and All Exposure Routes	1.92E+00

Existing dioxin CSF used for risk calculation.

Appendix B-2

Sample Lists By Property

TABLE 2.1
SAMPLE LIST
LOCKWOOD AVENUE PROPERTY

MATRIX	SAMPLE NUMBER
SOIL	DBL-008
SOIL	DBL-009
SOIL	DBL-010
SOIL	DBL-011
SOIL	DBL-012
SOIL	DBL-020
SOIL	DBL-023
SOIL	OU3-B2-SB02-0002
SOIL	OU3-B2-SB02-0204-MAX
SOIL	OU3-B2-SB02-0406-MAX
SOIL	OU3-B2-SB02-0608
SOIL	OU3-B2-SB02-0810
SOIL	OU3-B2-SB02-1012
SOIL	OU3-B2-SB02-1214
SOIL	OU3-B2-SB02-1416
SOIL	OU3-B2-SB03-0002
SOIL	OU3-B2-SB03-0204
SOIL	OU3-B2-SB03-0406
WETLAND	OU3-B2-SB03-0608-MAX
SOIL	OU3-B2-SB03-0810
SOIL	OU3-B2-SB03-1012
WETLAND	OU3-B2-SB03-1214
SOIL	OU3-B2-SB03-1416
SOIL	OU3-B2-SB05-0002
SOIL	OU3-B2-SB05-0204
WETLAND	OU3-B2-SB05-0608
SOIL	OU3-B2-SB05-0810
SOIL	OU3-B2-SB05-1012
WETLAND	OU3-B2-SB05-1214-MAX
SOIL	OU3-B2-SB05-1416
SOIL	OU3-B2-SB06-0002
WETLAND	OU3-B2-SB06-0204
WETLAND	OU3-B2-SB06-0406
SOIL	OU3-B2-SB06-0608
WETLAND	OU3-B2-SB06-0810-MAX
SOIL	OU3-B2-SB06-1012
SOIL	OU3-B2-SB06-1214
SOIL	OU3-B2-SB09-0002
WETLAND	OU3-B2-SB09-0204
WETLAND	OU3-B2-SB09-0406
WETLAND	OU3-B2-SB09-0608-MAX
SOIL	OU3-B2-SB09-0810
SOIL	OU3-B2-SB09-1012
SOIL	OU3-B2-SB09-1214
SOIL	OU3-B2-SB09-1416
SOIL	OU6-SO-DBL-104-0002
SOIL	OU6-SO-DBL-104-0204
SOIL	OU6-SO-DBL-104-0406

TABLE 2.1
SAMPLE LIST
LOCKWOOD AVENUE PROPERTY

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-DBL-104-0608
SOIL	OU6-SO-DBL-104-0810
SOIL	OU6-SO-DBL-106-0002
SOIL	OU6-SO-DBL-106-0204
SOIL	RM-SD-DB01-03
SOIL	RM-SD-DB02-03
SOIL	RM-SD-DB03-03
SOIL	RM-SD-DB07-03
WETLAND	RM-SD-DB10-03-MAX

TABLE 2.2
SAMPLE LIST
200 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-FB200-101-0002
SOIL	OU6-SO-FB200-101-0204
SOIL	OU6-SO-FB200-101-0406
SOIL	OU6-SO-FB200-101-0608
SOIL	OU6-SO-FB200-101-0810
SOIL	OU6-SO-SPIM-103-0204
SOIL	OU6-SO-SPIM-103-0406
SOIL	OU6-SO-SPIM-103-0608

TABLE 2.3
SAMPLE LIST
230 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	OU3-A2-SB04A-0810
SOIL	OU3-A2-SB04A-1012
SOIL	OU3-A2-SB04A-1214-MAX
SOIL	OU3-A2-SB04A-1416
SOIL	OU3-A2-SS04-0002
SOIL	OU3-A2-SS04-0204
SOIL	OU6-SO-FBSWL-101-0002
SOIL	OU6-SO-FBSWL-101-0204
SOIL	OU6-SO-FBSWL-101-0406
SOIL	OU6-SO-FBSWL-102-0002
SOIL	OU6-SO-FBSWL-102-0204
SOIL	OU6-SO-FBSWL-102-0406
SOIL	OU6-SO-FBSWL-103-0002-MAX
SOIL	OU6-SO-FBSWL-103-0204
SOIL	OU6-SO-FBSWL-103-0406
SOIL	OU6-SO-SPVM-101-0002
SOIL	OU6-SO-SPVM-101-0204
SOIL	OU6-SO-SPVM-101-0406
SOIL	OU6-SO-SPVM-102-0002
SOIL	OU6-SO-SPVM-102-0204
SOIL	OU6-SO-SPVM-102-0406
SOIL	OU6-SO-SPVM-102-0810
SOIL	SPD-10
SOIL	SPD-10-AEF98
SOIL	SPD-10-SA6648
SOIL	SPD-5

TABLE 2.4
SAMPLE LIST
250 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	DPS-2
SOIL	DPS3
SOIL	DPS3-AEF91
SOIL	DPS3-SA6638
SOIL	DPS-4
SOIL	DPS-5
SOIL	DPS6
SOIL	DPS6-AEF92
SOIL	DPS6-SA6639
SOIL	OU3-A2-SS03-0002
SOIL	OU6-SO-SPDPS-101-0002
SOIL	OU6-SO-SPDPS-101-0204
SOIL	OU6-SO-SPDPS-101-0406
SOIL	OU6-SO-SPDPS-101-0608
SOIL	OU6-SO-SPDPS-101-0810
SOIL	OU6-SO-SPDPS-101-1012
SOIL	OU6-SO-SPDPS-102-0002
SOIL	OU6-SO-SPDPS-102-0204
SOIL	OU6-SO-SPDPS-102-0406
SOIL	OU6-SO-SPDPS-102-0608
SOIL	OU6-SO-SPDPS-102-0810
SOIL	OU6-SO-SPDPS-102-1012
SOIL	OU6-SO-SPDPS-102-1214
SOIL	SDFB-002
SOIL	SDFB-003
SOIL	SPDPS 001-MAX
SOIL	SPDPS-002-MAX
SOIL	SPDPS-003
SOIL	SPDPS-005
SOIL	SP-SO-SB3-0002
SOIL/PAVEMENT	SP-SO-SB3-0204
SOIL	SP-SO-SB3-0204A
SOIL	SP-SO-SB3-0204B
SOIL/PAVEMENT	SP-SO-SB3-1012-MAX
SOIL	SP-SO-SB3-1214
SOIL	SP-SO-SB3-1416
SOIL	SP-SO-SB4-0204
SOIL	SP-SO-SB4-0406
SOIL	SP-SO-SB4-0608
SOIL	SP-SO-SB4-0806
SOIL/PAVEMENT	SP-SO-SB4-0810-MAX
SOIL	SP-SO-SB4-1012
SOIL/PAVEMENT	SP-SO-SB4-1214
SOIL	SP-SO-SB4-1214A
SOIL	SP-SO-SB4-1214B
SOIL	SP-SO-SB8-0002
SOIL	SP-SO-SB8-0204
SOIL	SP-SO-SB8-0204B

TABLE 2.4
SAMPLE LIST
250 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	SP-SO-SB8-0406
SOIL	SP-SO-SB8-0608
SOIL	SP-SO-SB8-0810
SOIL	SP-SO-SB8-1012
SOIL/PAVEMENT	SP-SO-SB8-1214-MAX
SOIL	SP-SO-SB9-0002
SOIL	SP-SO-SB9-0204
SOIL	SP-SO-SB9-0406
SOIL	SP-SO-SB9-0608
SOIL	SP-SO-SB9-0810
SOIL/PAVEMENT	SP-SO-SB9-1012-MAX
SOIL	SP-SO-SB9-1214

TABLE 2.5
SAMPLE LIST
280 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	OU3-A2-SB01-0002
SOIL	OU3-A2-SB01-0204
SOIL	OU3-A2-SB01-0406
SOIL	OU3-A2-SB01-0608
SOIL	OU3-A2-SB01-0810
SOIL	OU3-A2-SB01-1012
SOIL	OU3-A2-SB01-1214
SOIL	OU3-A2-SB01-1416
SOIL	OU3-A2-SB03-0002
SOIL	OU3-A2-SB03-0204
SOIL	OU3-A2-SB03-0406
SOIL	OU3-A2-SB03-0608
SOIL	OU3-A2-SB03-0810
SOIL	OU3-A2-SB03-1012
SOIL	OU3-A2-SB03-1214
SOIL	OU3-A2-SB03-1416
SOIL	OU6-SO-SPHM-101-0002
SOIL	OU6-SO-SPHM-101-0204-MAX
SOIL	OU6-SO-SPHM-101-0406
SOIL	OU6-SO-SPHM-101-0608
SOIL	OU6-SO-SPHM-101-0810
SOIL	OU6-SO-SPHM-101-1012
SOIL	OU6-SO-SPHM-101-1214
SOIL	OU6-SO-SPHM-102-0002
SOIL	OU6-SO-SPHM-102-0204
SOIL	OU6-SO-SPHM-102-0406
SOIL	OU6-SO-SPHM-102-0608
SOIL	OU6-SO-SPHM-102-0810
SOIL	OU6-SO-SPHM-102-1012
SOIL	OU6-SO-SPHM-103-0002
SOIL	OU6-SO-SPHM-103-0204
SOIL	OU6-SO-SPHM-103-0406
SOIL	SPD-3
SOIL	SPD4
SOIL	SPHM B+200
SOIL	SPHM B+300
SOIL	SPHM B+370
SOIL	SPHM-002
SOIL/PAVEMENT	SP-SO-SB2-0002-MAX
SOIL/PAVEMENT	SP-SO-SB2-0204
SOIL	SP-SO-SB2-0204A
SOIL	SP-SO-SB2-0204B
SOIL/PAVEMENT	SP-SO-SB2-0406
SOIL	SP-SO-SB2-0406A
SOIL	SP-SO-SB2-0406B
SOIL	SP-SO-SB2-0810
SOIL	SP-SO-SB2-1012

TABLE 2.6
SAMPLE LIST
300 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL	FB E+1550
SOIL/PAVEMENT	OU3-A2-SS02-0002-MAX
SOIL	OU6-SO-SPSC-101-0002
SOIL	OU6-SO-SPSC-101-0204
SOIL	OU6-SO-SPSC-101-0406
SOIL	OU6-SO-SPSC-101-0608
SOIL	OU6-SO-SPSC-101-0810
SOIL	OU6-SO-SPSC-102-0002
SOIL	OU6-SO-SPSC-102-0002-071102-MAX
SOIL	OU6-SO-SPSC-102-0204
SOIL	OU6-SO-SPSC-102-0406
SOIL	OU6-SO-SPSC-102-0608
SOIL	OU6-SO-SPSC-102-0810
SOIL	OU6-SO-SPSC-104-0002
SOIL	OU6-SO-SPSC-104-0204
SOIL	OU6-SO-SPSC-104-0406
SOIL	SPHM A+100
SOIL	SPHM A+175
SOIL	SPHM AA+200
SOIL	SPHM AA+300
SOIL	SPSC A+150
SOIL	SPSC A+250
SOIL	SPSC A+300
SOIL	SPSC B+00
SOIL	SPSC D+00
SOIL	SP-SO-MW112B-0002
SOIL	SP-SO-MW112B-0204
SOIL	SP-SO-MW112B-0406
SOIL	SP-SO-MW112B-0608
SOIL/PAVEMENT	SP-SO-MW112B-0810
SOIL	SP-SO-MW112B-0810A
SOIL	SP-SO-MW112B-0810B
SOIL	SP-SO-MW112B-1012
SOIL	SP-SO-MW112B-1214
SOIL	SP-SO-MW112B-1416

TABLE 2.7
SAMPLE LIST
LOT BEHIND 326 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
SOIL/PAVEMENT	OU3-A3-SB01-0002
SOIL	OU3-A3-SB01-0204
SOIL/PAVEMENT	OU3-A3-SB01-0406
SOIL	OU3-A3-SB01-0608
SOIL	OU3-A3-SB01-0810
SOIL/PAVEMENT	OU3-A3-SB01-1012-MAX
SOIL	OU3-A3-SB01-1214
SOIL	OU3-A3-SB01-1416
SOIL	OU6-SO-SPBG2-102-0002
SOIL	OU6-SO-SPBG2-102-0204
SOIL	OU6-SO-SPBG2-102-0406
SOIL	OU6-SO-SPBG2-102-0608
SOIL	OU6-SO-SPBG2-102-0810
SOIL	OU6-SO-SPBG2-102-1012
SOIL	OU6-SO-SPBG2-103-0002
SOIL	OU6-SO-SPBG2-103-0204
SOIL	OU6-SO-SPBG2-103-0406
SOIL	OU6-SO-SPBG2-103-0608
SOIL	OU6-SO-SPBG2-104-0002
SOIL	OU6-SO-SPBG2-104-0204
SOIL	OU6-SO-SPBG2-104-0406
SOIL	OU6-SO-SPBG2-104-0608
SOIL	OU6-SO-SPBG2-105-0002
SOIL	OU6-SO-SPBG2-105-0204
SOIL	OU6-SO-SPBG2-105-0406
SOIL	OU6-SO-SPDA-101-0002
SOIL	OU6-SO-SPDA-101-0204
SOIL	OU6-SO-SPDA-101-0406
SOIL	OU6-SO-SPDA-101-0608
SOIL	SPBG2 A+050
SOIL	SPBG2 A+267
SOIL	SPBG2 B+150
SOIL	SPDA E222,S132 (0.0-2.5)
SOIL	SPDA E222,S132 (10.0-11.3)
SOIL	SPDA E222,S132 (11.3-13.5)
SOIL	SPDA E222,S132 (14.0-15.3)
SOIL	SPDA E222,S132 (8.0-10.0)

TABLE 2.8
SAMPLE LIST
VACANT LOT AT HOUSATONIC AVENUE

MATRIX	SAMPLE NUMBER
SOIL	OU3-A3-SB02-0002
SOIL	OU3-A3-SB02-0204
SOIL	OU3-A3-SB02-0406-MAX
SOIL	OU3-A3-SB02-0608-MAX
SOIL	OU3-A3-SB02-0810
SOIL	OU3-A3-SB02-1012
SOIL	OU3-A3-SB02-1214
SOIL	OU3-A3-SB02-1416-MAX
SOIL	OU6-SO-SPDA-104-0002
SOIL	OU6-SO-SPDA-104-0204
SOIL	OU6-SO-SPDA-104-0406
SOIL	OU6-SO-SPDA-104-0608
SOIL	OU6-SO-SPDA-104-0810
SOIL	SPD G4
SOIL	SPD H3
SOIL	SPDA E228,N0 (0.0-0.6)
SOIL	SPDA E228,N0 (0.6-2.2)
SOIL	SPDA E228,N0 (4.0-5.9)
SOIL	SPDA E275,S130 (0.0-0.2)
SOIL	SPDA E325,S38 (0.5-1.1)
SOIL	SPDA E325,S38 (1.1-1.5)
SOIL	SPDA E325,S38 (1.5-1.8)
SOIL	SPDA E325,S38 (10.0-10.7)
SOIL	SPDA E325,S38 (4.0-5.1)
SOIL	SPDA E325,S38 (5.1-5.9)
SOIL	SPDA E325,S38 (5.9-6.8)
SOIL	SPDA E325,S38 (8.0-8.6)
SOIL	SPDA E325,S38 (8.6-10.0)
SOIL	SPDAC E275,S130 (0.4-1.5)_A102102
SOIL	SPDAC E275,S130 (0.4-1.5)_A102103
SOIL	SPDAC E275,S130 (3.1-3.7)
SOIL	SPDAC E275,S130 (9.5-10.0)
SOIL	SPDAC E325,S38 (0.0-1.0)-MAX
SOIL	SPDAC,E325,S38(0.0-1.0)-MAX
SOIL	SPDAC,E325,S38(0.0-1.0)-SAB560
SOIL	SPDAC,E325,S38(0.0-1.0)-SAB561
SOIL	SPDAC-E275, S130(0.4-1.5)-MAX
SOIL	SPDAC-E275,S130(0.4-1.5)-MAX

TABLE 2.9
SAMPLE LIST
326 FERRY BOULEVARD

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-SPBG1-201-0002
Soil	OU6-SO-SPBG1-201-0204-MAX
Soil	OU6-SO-SPBG1-201-0406
Soil	OU6-SO-SPBG1-201-0608
Soil	OU6-SO-SPBG1-201-0810
Soil	OU6-SO-SPBG1-201-1012

TABLE 2.10
SAMPLE LIST
576 EAST BROADWAY

MATRIX	SAMPLE NUMBER
SOIL	MF E+080
SOIL	MF E+100
SOIL	MFP-1
SOIL	MFP-1-AEF94
SOIL	MFP-1-SA6641
SOIL	MFP-2
SOIL	MFP-2-AEF95
SOIL	MFP-2-SA6642
SOIL	MFP-4
SOIL	MFP-5
SOIL	MFP-5-AEF96
SOIL	MFP-5-SA6643
SOIL	MF-SO-SB6-0002-MAX
SOIL	MF-SO-SB6-0204
SOIL	MF-SO-SB6-0608
SOIL	MF-SO-SB6-0810
SOIL	MF-SO-SB6-1012-MAX
SOIL	MF-SO-SB6-1214
SOIL	MF-SO-SB6-1416
SOIL	OU3-A1-SB03-0002
SOIL	OU3-A1-SB03-0204
SOIL	OU3-A1-SB03-0406
SOIL	OU3-A1-SB03-0608-MAX
SOIL	OU3-A1-SB03-0810-MAX
SOIL	OU3-A1-SB03-1012
SOIL	OU3-A1-SB03-1214
SOIL	OU3-A1-SB03-1416-MAX
SOIL	OU3-A1-SB11-0002
SOIL	OU3-A1-SB11-0204-MAX
SOIL	OU3-A1-SB11-0406
SOIL	OU3-A1-SB11-0608
SOIL	OU3-A1-SB11-0810
SOIL	OU3-A1-SB11-1012
SOIL	OU3-A1-SB11-1214
SOIL	OU3-A1-SB11-1416
SOIL	OU6-SO-PP-101-0002
SOIL	OU6-SO-PP-101-0204
SOIL	OU6-SO-PP-101-0406
SOIL	OU6-SO-PP-101-0608
SOIL	OU6-SO-PP-101-0810
SOIL	PP CD+00
SOIL	PP DDE+00
SOIL	PP DDE+100
SOIL	PP DE+00
SOIL	PP DE+050
SOIL	PP DE+100
SOIL	PP EF+100

TABLE 2.11
SAMPLE LIST
600 EAST BROADWAY

MATRIX	SAMPLE NUMBER
SOIL	MF A+400
SOIL	MFP-6
SOIL	MFP-6-AEF61
SOIL	MFP-6-AEF62
SOIL	MFP-6-MACB44
SOIL	MFP-6-MACB45
SOIL	MFP-6-MAX
SOIL	MFP-6-SA6644
SOIL	MFP-6-SA6645
SOIL	MF-SO-MW101D-0002
SOIL	MF-SO-MW101D-0204
SOIL	MF-SO-MW101D-0204A
SOIL	MF-SO-MW101D-0204B
SOIL	MF-SO-MW101D-0406
SOIL	MF-SO-MW101D-0406A
SOIL	MF-SO-MW101D-0406B
SOIL	MF-SO-MW101D-0608
SOIL	MF-SO-MW101D-0810
SOIL	MF-SO-MW101D-0810A
SOIL	MF-SO-MW101D-0810B
SOIL	MF-SO-MW101D-1012
SOIL	MF-SO-MW101D-1416
SOIL	MF-SO-MW102-0002
SOIL	MF-SO-MW102-0204
SOIL	MF-SO-MW102-0406-MAX
SOIL	MF-SO-MW102-0608
SOIL	MF-SO-MW102-0608A
SOIL	MF-SO-MW102-0608B
SOIL	MF-SO-MW102-0810
SOIL	MF-SO-MW102-1012
SOIL	MF-SO-MW102-1214
SOIL	MF-SO-MW102-7806
SOIL	MF-SO-MW103-0002
SOIL	MF-SO-MW103-0204
SOIL	MF-SO-MW103-0405
SOIL	MF-SO-MW103-0608
SOIL	MF-SO-MW103-0810-MAX
SOIL	MF-SO-MW103-1012
SOIL	MF-SO-MW103-1214
SOIL	MF-SO-MW103-1416
SOIL	MF-SO-SB2-0001
SOIL	MF-SO-SB2-0204
SOIL	MF-SO-SB2-0406
SOIL	MF-SO-SB2-0608
SOIL	MF-SO-SB2-0810
SOIL	MF-SO-SB2-1012
SOIL	MF-SO-SB2-1214
SOIL	MF-SO-SB2-1416

TABLE 2.11
SAMPLE LIST
600 EAST BROADWAY

MATRIX	SAMPLE NUMBER
SOIL	MF-SO-SB4-0002
SOIL	MF-SO-SB4-0204
SOIL	MF-SO-SB4-0204A
SOIL	MF-SO-SB4-0204B
SOIL	MF-SO-SB4-0406
SOIL	MF-SO-SB4-0608
SOIL	MF-SO-SB4-1012
SOIL	MF-SO-SB4-1214
SOIL	MF-SO-SB4-1416
SOIL	MF-SO-SB4-1416A
SOIL	MF-SO-SB4-1416B
SOIL	MF-SO-SB7-0002
SOIL	MF-SO-SB7-0204
SOIL	MF-SO-SB7-0406
SOIL	MF-SO-SB7-0608
SOIL	MF-SO-SB7-0810
SOIL	MF-SO-SB7-1012
SOIL	MF-SO-SB7-1214
SOIL	MF-SO-SB7-1416-MAX
SOIL	MF-SO-TP2-0203
SOIL	MF-SO-TP2-0506
SOIL	OU3-A1-SS01-0002-MAX
SOIL	OU3-A1-SS01-0204
SOIL	OU6-SO-MF-104-0002
SOIL	OU6-SO-MF-104-0204
SOIL	OU6-SO-MF-104-0406
SOIL	OU6-SO-MF-104-0608
SOIL	OU6-SO-MF-104-0810
SOIL	OU6-SO-MF-104-1012
SOIL	OU6-SO-PP-103-0002
SOIL	OU6-SO-PP-103-0204
SOIL	OU6-SO-PP-103-0406
SOIL	OU6-SO-PP-103-0608
SOIL	OU6-SO-PP-103-0810
SOIL	OU6-SO-PP-103-1214
SOIL	OU6-SO-PP-104-0002-MAX
SOIL	OU6-SO-PP-104-0204
SOIL	OU6-SO-PP-104-0406
SOIL	OU6-SO-PP-104-0608
SOIL	OU6-SO-PP-104-0810
SOIL	OU6-SO-PP-104-1012

TABLE 2.12
SAMPLE LIST
VACANT DOT LOT ABUTTING I-95

MATRIX	SAMPLE NUMBER
Soil	EB W+100
Soil	OU2-SO-503-0002
Soil	OU2-SO-503-0204-MAX
Soil	OU2-SO-503-0406
Soil	OU2-SO-503-0608
Soil	OU2-SO-503-0810
SOIL	OU2-SO-503-1012
SOIL	OU3-A1-SB07-0002
SOIL	OU3-A1-SB07-0204
SOIL	OU3-A1-SB07-0406
SOIL	OU3-A1-SB07-0608
SOIL	OU3-A1-SB07-0810
SOIL	OU3-A1-SB07-1012
SOIL	OU3-A1-SB07-1214-MAX
SOIL	OU3-A1-SB07-1416-MAX
SOIL	OU3-A1-SS05-0002
SOIL	OU3-A1-SS05-0204
SOIL	OU6-SO-VPA95-105-0204-MAX
SOIL	OU6-SO-VPA95-105-0406
SOIL	OU6-SO-VPA95-105-0608
SOIL	OU6-SO-VPA95-106-0002
SOIL	OU6-SO-VPA95-106-0204
SOIL	OU6-SO-VPA95-106-0406
SOIL	OU6-SO-VPA95-107-0002
SOIL	OU6-SO-VPA95-107-0204

TABLE 2.13B
SAMPLE LIST
CT RIGHT-OF-WAY RESIDENTIAL PORTION

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-FB189-204-0002
Soil	OU6-SO-FB189-204-0204
Soil	OU6-SO-FB189-204-0406
Soil	OU6-SO-FB191-201-0002-MAX
Soil	OU6-SO-FB191-201-0204
Soil	OU6-SO-FB191-201-0406
Soil	OU6-SO-FB191-201-0608
Soil	OU6-SO-FB191-201-0810
Soil	OU6-SO-FB191-201-1214

TABLE 2.13A
SAMPLE LIST
CT RIGHT OF WAY

MATRIX	SAMPLE NUMBER
SOIL	OU3-A1-SB02-0002
SOIL	OU3-A1-SB02-0204
SOIL	OU3-A1-SB02-0406
SOIL	OU3-A1-SB02-0608
SOIL	OU3-A1-SB02-0810
SOIL	OU3-A1-SB02-1012-MAX
SOIL	OU3-A1-SB02-1214
SOIL	OU3-A1-SB02-1416
WETLAND	OU3-A1-SD04-0002
WETLAND	OU3-A1-SD04-0204
SOIL	OU6-SO-FB189-204-0002
SOIL	OU6-SO-FB189-204-0204
SOIL	OU6-SO-FB189-204-0406
SOIL	OU6-SO-FB191-201-0002-MAX
SOIL	OU6-SO-FB191-201-0204
SOIL	OU6-SO-FB191-201-0406
SOIL	OU6-SO-FB191-201-0608
SOIL	OU6-SO-FB191-201-0810
SOIL	OU6-SO-FB191-201-1214
SOIL	OU6-SO-FBROW-105-0002
SOIL	OU6-SO-FBROW-105-0204
SOIL	OU6-SO-FBROW-105-0406
SOIL	OU6-SO-FBROW-105-0608
SOIL	OU6-SO-FBROW-105-0810

TABLE 2.14
SAMPLE LIST
304 EAST MAIN STREET

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-ES304-104-0002
SOIL	OU6-SO-ES304-104-0204
SOIL	OU6-SO-ES304-104-0406
SOIL	OU6-SO-ES304-104-0608
SOIL	OU6-SO-ES304-104-0810
Soil	OU6-SO-ES304-201-0002
Soil	OU6-SO-ES304-201-0204
Soil	OU6-SO-ES304-201-0406
Soil	OU6-SO-ES304-201-0608
Soil	OU6-SO-ES304-201-0810
Soil	OU6-SO-ES304-201-1012
SOIL	OU6-SO-ES340-105-0002
SOIL	OU6-SO-ES340-105-0204
SOIL	OU6-SO-ES340-105-0406
SOIL	OU6-SO-ES340-105-0608
SOIL	OU6-SO-ES340-105-0810

TABLE 2.15
SAMPLE LIST
340 EAST MAIN STREET

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-ES340-103-0002
SOIL	OU6-SO-ES340-103-0204
SOIL	OU6-SO-ES340-103-0406
SOIL	OU6-SO-ES340-103-0608
SOIL	OU6-SO-ES340-103-0810
SOIL	OU6-SO-ES340-104-0002
SOIL	OU6-SO-ES340-104-0204
SOIL	OU6-SO-ES340-104-0406
SOIL	OU6-SO-ES340-104-0608
SOIL	OU6-SO-ES340-104-0810
SOIL	OU6-SO-ES340-106-0002
SOIL	OU6-SO-ES340-106-0204
SOIL	OU6-SO-ES340-106-0406
SOIL	OU6-SO-ES340-106-0608
Soil	OU6-SO-ES340-201-0002
Soil	OU6-SO-ES340-201-0204
Soil	OU6-SO-ES340-201-0406
Soil	OU6-SO-ES340-201-0608
Soil	OU6-SO-ES340-202-0002
Soil	OU6-SO-ES340-202-0204
Soil	OU6-SO-ES340-202-0406
Soil	OU6-SO-ES340-202-0608
Soil	OU6-SO-ES340-202-0810

TABLE 2.16
SAMPLE LIST
380 EAST MAIN STREET

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-ES380-106-0001.5-MAX

TABLE 2.17
SAMPLE LIST
250 EAST MAIN STREET

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-DI-210-0002
Soil	OU6-SO-DI-210-0204
Soil	OU6-SO-DI-210-0406
Soil	OU6-SO-DI-210-0608
Soil	OU6-SO-DI-210-0810
Soil	OU6-SO-ES304-203-0002
Soil	OU6-SO-ES304-203-0204
Soil	OU6-SO-ES304-203-0406
Soil	OU6-SO-ES304-203-0608
Soil	OU6-SO-ES304-203-0810

TABLE 2.18
SAMPLE LIST
DPW LOT

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-DPW-102-0002
SOIL	OU6-SO-DPW-102-0204
SOIL	OU6-SO-DPW-102-0406
SOIL	OU6-SO-DPW-102-0608
SOIL	OU6-SO-DPW-102-0810
SOIL	OU6-SO-DPW-102-1012
SOIL	OU6-SO-DPW-104-0002
SOIL	OU6-SO-DPW-104-0204
SOIL	OU6-SO-DPW-104-0406
SOIL	OU6-SO-DPW-104-0608
SOIL	OU6-SO-DPW-104-0810
SOIL	OU6-SO-DPW-104-1012

TABLE 2.19
SAMPLE LIST
251 EAST MAIN STREET

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-ES251-203-0002
Soil	OU6-SO-ES251-203-0204
Soil	OU6-SO-ES251-203-0406
Soil	OU6-SO-ES251-203-0608

TABLE 2.20
SAMPLE LIST
BEACON POINT AREA

MATRIX	SAMPLE NUMBER
SOIL	BPM A+09
SOIL	BPM A+50
SOIL	BPM B+50
SOIL	OU3-D-SB02-0002
SOIL	OU3-D-SB02-0204
SOIL	OU3-D-SB02-0406
SOIL	OU3-D-SB02-0608
SOIL	OU3-D-SB02-0810
SOIL	OU3-D-SB02-1012
SOIL	OU3-D-SB02-1214
SOIL	OU3-D-SB02-1416
SOIL	OU3-D-SB03-0002
SOIL	OU3-D-SB03-0204
SOIL	OU3-D-SB03-0406
SOIL	OU3-D-SB03-0608
SOIL	OU3-D-SB03-0810-MAX
SOIL	OU3-D-SB03-1012
SOIL	OU3-D-SB03-1214
SOIL	OU3-D-SB03-1416
SOIL	OU3-D-SB04-0002
SOIL	OU3-D-SB04-0204
SOIL	OU3-D-SB04-0406
SOIL	OU3-D-SB04-0810
SOIL	OU3-D-SB04-1012
SOIL/PAVEMENT	OU3-D-SB04-1214
SOIL/PAVEMENT	OU3-D-SB04-1416-MAX
SOIL	OU3-D-SB06-0002
SOIL	OU3-D-SB06-0204
SOIL	OU3-D-SB06-0406
SOIL	OU3-D-SB06-0608-MAX
SOIL	OU3-D-SB06-0810
SOIL	OU3-D-SB06-1012
SOIL	OU3-D-SB06-1214
SOIL	OU3-D-SB06-1416
SOIL	OU3-D-SB08-0002
SOIL	OU3-D-SB08-0204
SOIL	OU3-D-SB08-0406
SOIL	OU3-D-SB08-0608-MAX
SOIL	OU3-D-SB08-0810
SOIL	OU3-D-SB08-1012
SOIL	OU3-D-SB08-1214
SOIL	OU3-D-SB08-1416
Soil	OU6-SO-BPA-210-0002
Soil	OU6-SO-BPA-210-0204
Soil	OU6-SO-BPA-210-0406
Soil	OU6-SO-BPA-210-0608
Soil	OU6-SO-BPA-210-0810
Soil	OU6-SO-BPA-210-1012

TABLE 2.20
SAMPLE LIST
BEACON POINT AREA

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-BPA-210-1214
Soil	OU6-SO-BPA-210-1416

TABLE 2.21
SAMPLE LIST
ONE BEACON POINT ROAD

MATRIX	SAMPLE NUMBER
SOIL	BPM B+150
SOIL	OU6-SO-BPM-101-0002
SOIL	OU6-SO-BPM-101-0204
SOIL	OU6-SO-BPM-101-0406
SOIL	OU6-SO-BPM-101-0608
SOIL	OU6-SO-BPM-101-0810
SOIL	OU6-SO-BPM-102-0002
SOIL	OU6-SO-BPM-102-0204
SOIL	OU6-SO-BPM-102-0406
SOIL	OU6-SO-BPM-102-0608

TABLE 2.22
SAMPLE LIST
AIRPORT PROPERTY NORTH OF MARINE BASIN

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-BA2-205-0002
Soil	OU6-SO-BA2-205-0204
Soil	OU6-SO-BA2-205-0406
Soil	OU6-SO-BA2-205-0608
Soil	OU6-SO-BA2-205-0810
Soil	OU6-SO-BA2-205-1012
Soil	OU6-SO-BA2-205-1214
Soil	OU6-SO-BA2-205A-0002-MAX
Soil	OU6-SO-BA2-205A-0204
Soil	OU6-SO-BA2-205A-0406
Soil	OU6-SO-BA2-208-0002
Soil	OU6-SO-BA2-208-0204
Soil	OU6-SO-BA2-208-0406
Soil	OU6-SO-BA2-212-0002
Soil	OU6-SO-BA2-212-0204
Soil	OU6-SO-BA2-213-0002
Soil	OU6-SO-BA2-213-0204
Soil	OU6-SO-BA2-218-0002
Soil	OU6-SO-BA2-218-0204
Soil	OU6-SO-BA2-218-0406
Soil	OU6-SO-BA2-218-0608
Soil	OU6-SO-BA2-219-0002-MAX
Soil	OU6-SO-BA2-219-0204
Soil	OU6-SO-BA2-219-0406
Soil	OU6-SO-BA2-219-0608
Soil	OU6-SO-BA2-222-0002
Soil	OU6-SO-BA2-222-0204
Soil	OU6-SO-BA2-222-0406

TABLE 2.23
SAMPLE LIST
WOOSTER PARK

MATRIX	SAMPLE NUMBER
SOIL	OU6-SO-WP-102-0002
SOIL	OU6-SO-WP-102-0204
Soil	OU6-SO-WP-201-0002-MAX
Soil	OU6-SO-WP-201-0204
Soil	OU6-SO-WP-201-0406
SOIL	WP-OB-B+50

TABLE 2.24
SAMPLE LIST
THIRD AVENUE PROPERTY

MATRIX	SAMPLE NUMBER
Soil	OU6-SO-3A35-201-0002
Soil	OU6-SO-3A35-201-0204
Soil	OU6-SO-3A35-201-0406
Soil	OU6-SO-3A35-201-0608
Soil	OU6-SO-3A35-202-0002
Soil	OU6-SO-3A35-202-0204
Soil	OU6-SO-3A35-202-0406-MAX
Soil	OU6-SO-3A35-202-0608
Soil	OU6-SO-3A35-202-0810
Soil	OU6-SO-3A35-202-1012

Appendix B-3

PCB, Copper, and Lead Screening/CLP Correlation

RAYMARK OU6 SITE
STRATFORD CONNECTICUT
PCB DATA RESULTS
SCREENING VS LABORATORY DATA

PCBs in soil samples were determined by either a quick screening procedure or by an EPA-approved method performed in a fixed laboratory. The PCB screening was performed according to the EPA Region I Standard Operating Procedure, which is based on a quick solvent extraction following by gas chromatographic analysis using an electron capture detector (GC/ECD). PCBs were identified and reported as Aroclors. PCB screening results were reported on a wet basis prior to 2002 and on a dry weight basis for samples analyzed after 2002.

The analysis of PCBs in a fixed laboratory was performed following the method described in the EPA Contract Laboratory Program (CLP), statement of works OLM01, OLM03, and OLM04. These procedures were modified to include Aroclors 1262 and 1268. All the PCB results from this CLP procedure are reported on a dry weight basis.

Because the soil samples for PCBs were collected over a 10-year period for different purposes, an evaluation of the results was performed to determine whether the screening and CLP results could be used interchangeably for both the identification of the nature and extent of contamination and risk assessment.

The results were evaluated using a linear regression method to determine the statistical correlation between the screening and CLP fixed-laboratory data sets for the individual Aroclor reported. The linear regression analysis involved a point-by-point comparison of the data pair generated by the two methods. The CLP results were plotted along the x-axis and the screening results plotted along the y-axis. A linear regression was performed and the correlation coefficient was calculated. A correlation coefficient close to 1 indicates a linear relationship. For this statistical evaluation the results for individual Aroclors were correlated and one half of the reporting limit value was used as a proxy for non-detected values. A poor statistical correlation was found between the PCB screening results and the results from the CLP method based on the linear regression statistical analysis.

There are several factors that explain the poor statistical correlation of the screening and CLP data sets. Screening and CLP methods are based on the same analytical principles (solvent extraction and GC/ECD analysis); however, there are several significant method differences that contribute to poor statistical correlation. The main factors are:

- The reporting limits for the screening and CLP methods are different. The reporting limits for the screening procedure are higher than the reporting limits of the CLP method. To assume a one-to-one correlation, it is necessary to assign a value to the results reported as non-detected.

- The statistical correlation was performed using either a value of zero or one half the reporting limits for non-detected results. Since the reporting limits of both sets of data are different, this approach introduced a non-linear correlation factor. This non-linear factor is accentuated because a significant number of data pairs have both results non-detected, or one value in the pair is non-detected for the Aroclors correlated.

- Only a subset of the commercial Aroclors was reported by the screening procedure, mainly Aroclors 1260, Aroclor 1262, and Aroclors 1268. The Aroclors reported by the CLP method includes the following: 1016, 1221, 1232, 1242, 1248, 1254, and 1260. This CLP method was modified for the Raymark samples to include also Aroclors 1262 and 1268. The total PCB value may be higher if other non-Raymark Aroclors were reported for the CLP analysis.

- The identification of PCBs as Aroclors is based on comparing the fingerprint patterns of the samples against commercial Aroclor standards. This identification was very difficult for Raymark soil samples because the soil samples contained mixes of Aroclors. The differences in the composition of Aroclors 1268, 1262, and 1260 are very small and consequently, the fingerprint patterns for these Aroclors are very similar. Raymark samples frequently contained mixes of these Aroclors and this fact, combined with the weathering or PCB degradation that occurs in the environment, resulted in complicated fingerprint patterns that did not match any of the individual Aroclor standards. The same pattern may have been reported as Aroclor 1268 by one analyst and a mix of Aroclor 1268 and Aroclor 1262 by another.

- Matrix interferences by phthalates, pesticides, and other chlorinated compounds may have resulted in biased higher data results in either data set, especially when the statistical correlation was based on the concentration of individual Aroclors.

- Some screening data results are reported on a wet weight basis, while all the CLP data results are reported on a dry weight basis. All results should be in either wet or dry weight basis to perform a comparison.

Based on the statistical analysis performed it is not possible to use the PCB data results from the screening and CLP analytical methods with the same amount of confidence. However, the screening results were very useful to make an on site determination whether Raymark waste was present at the sampling location.

When the field screening results were directly compared to the split sample results from the fixed laboratory obtained from the CLP method, the screening PCB results met the data quality objective to determine the presence of Raymark waste.

As discussed in Section 1.4 of this RI report, a benchmark limit of 1,000 µg/kg (1 ppm) for total PCBs was established in 1993 for the Raymark site. Currently, the definition of Raymark waste has been modified to state that the action level must be greater than 1 ppm for PCBs Aroclor 1268.

Out of the 998 screening and CLP data set pairs compared, 93 percent of the screening results for total PCBs, used to determine whether a sample met the PCB definition of Raymark waste or not, agreed with the total PCB results from the CLP confirmation method, as shown in Table 1-1. Three percent of the screening results were false positives, with total PCB screening concentrations reported above 1,000 µg/kg and CLP results at values below 1,000 µg/kg. Four percent of the screening results were false negatives, with total PCB screening results below 1,000 µg/kg and CLP confirmation results above the limit.

Considering only the data for Aroclor 1268 obtained from samples collected after June 2002, the percent of data pairs in agreement between screening and CLP results is higher than the 93 percent mentioned above for total PCBs. Out of 197 data set pairs compared for Aroclor 1268 results from screening and CLP analyses, 96 percent of the screening results used to determine

whether the sample contained Aroclor 1268 at above or below the bench mark (1,000 µg/kg) were correctly confirmed by the CLP method, as shown in Table 1-2. The false positives hits were approximately 1 percent and the false negative screened PCB results were approximately 2 percent.

The PCB screening procedure provided real-time results necessary to make site decisions about the presence or absence of Raymark waste in the properties sampled. The results were used to determine whether the sample contained total PCBs or Aroclor 1268 at concentrations above or below 1,000 µg/kg. The high agreement between screening and CLP data results for PCBs confirmed that the data could be used for decisions on the nature and extent of PCB contamination; however, the PCB screening data should only be used qualitatively for the risk assessment.

Table 1-1
Total PCBs for Raymark Waste Criterion Screening vs. CLP Results
Draft Final Remedial Investigation
Raymark OU6
Stratford, Connecticut

SAMP_DATE > 6/1/02	RESULT_PAIRS	RW_LNSN	RW_LYSY	RW_LYSN	RW_LNSY	DETECT_LNSN	DETECT_LYSY	DETECT_LYSN	DETECT_LNSY
No	801	677	64	35	25	410	135	203	53
Yes	197	171	15	6	5	102	48	37	10
Total	998	848	79	41	30	512	183	240	63
		Agree->	927	Disagree->	71	Agree->	695	Disagree->	303
		Percent->	92.9	Percent->	7.1	Percent->	69.6	Percent->	30.4

Notes:

Statistics are for Total Aroclor for samples analyzed by both lab and screening methods. Total Aroclor calculated for each sample by summing aroclors analyzed by both methods. Non-detected aroclor results were assigned a zero value prior to summing.

RW_LNSN: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = No, Screening = No)
RW_LYSY: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = Yes, Screening = Yes)
RW_LYSN: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = Yes, Screening = No)
RW_LNSY: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = No, Screening = Yes)
DETECT_LNSN: Result is a Positive Detect? (Lab = No, Screening = No)
DETECT_LYSY: Result is a Positive Detect? (Lab = Yes, Screening = Yes)
DETECT_LYSN: Result is a Positive Detect? (Lab = Yes, Screening = No)
DETECT_LNSY: Result is a Positive Detect? (Lab = No, Screening = Yes)

Table 1-2
Aroclor 1268 for Raymark Waste Criterion Screening vs. CLP Results
Draft Final Remedial Investigation
Raymark OU6
Stratford, Connecticut

SAMP_DATE > 6/1/02	RESULT_PAIRS	RW_LNSN	RW_LYSY	RW_LYSN	RW_LNSY	DETECT_LNSN	DETECT_LYSY	DETECT_LYSN	DETECT_LNSY
No	801	677	64	35	25	410	135	203	53
Yes	197	171	15	6	5	102	48	37	10
Total	998	848	79	41	30	512	183	240	63
		Agree->	927	Disagree->	71	Agree->	695	Disagree->	303
		Percent->	92.9	Percent->	7.1	Percent->	69.6	Percent->	30.4

Notes:

Statistics are for Total Aroclor for samples analyzed by both lab and screening methods. Total Aroclor calculated for each sample by summing aroclors analyzed by both methods. Non-detected aroclor results were assigned a zero value prior to summing.

RW_LNSN: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = No, Screening = No)
RW_LYSY: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = Yes, Screening = Yes)
RW_LYSN: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = Yes, Screening = No)
RW_LNSY: Result Exceeds Raymark Waste Criterion of 1,000 µg/kg? (Lab = No, Screening = Yes)
DETECT_LNSN: Result is a Positive Detect? (Lab = No, Screening = No)
DETECT_LYSY: Result is a Positive Detect? (Lab = Yes, Screening = Yes)
DETECT_LYSN: Result is a Positive Detect? (Lab = Yes, Screening = No)
DETECT_LNSY: Result is a Positive Detect? (Lab = No, Screening = Yes)

RAYMARK OU6 SITE
STRATFORD CONNECTICUT
LEAD AND COPPER DATA RESULTS
SCREENING VS LABORATORY DATA

Analysis for lead and copper in soil samples was determined by either a field X-Ray Flourescence (XRF) screening procedure or by an EPA-approved method performed in a fixed laboratory.

The screening was performed using portable XRF instruments using one of the following procedures: "EPA Region I Standard Operating Procedure for Elemental Analysis using the X-Met 920 Field X-Ray Fluorescence Analyzer", "USEPA Environmental Response Team Standard Operating Procedure for Metal Analysis Using a Spectrace 9000 Field Portable X-Ray Fluorescence", or the EPA Region I Standard Operating Procedure for Environmental Metals Screening with the Niton 732 XRF Analyzer". The lead reporting limit was 100 mg/kg and the copper reporting limit was 200 mg/kg. Lead and copper results were reported on a dry weight basis.

The lead and copper analysis in a fixed laboratory was performed by laboratories under the EPA Contract Laboratory Program (CLP) according to several statement of works: ILM01, or ILM03, or ILM04. Inductively coupled plasma atomic emission spectrometry (ICP-AES), also called (ICP), was used for the lead and copper analysis by the CLP method. Prior to ICP instrumental analysis, the soil samples are solubilized or digested using strong oxidant acids. The CLP contract required detection for lead was 0.6 mg/kg and for copper was 5 mg/kg. All CLP results were reported on a dry weight basis.

The lead and copper results collected over a 10-year period were evaluated statistically to determine whether the screening and CLP results could be used interchangeably for both the identification of the nature and extent of contamination and risk assessment. A linear regression method was use to determine the statistical correlation between the XRF screening and CLP fixed-laboratory data sets.

The linear regression statistic analysis involved a point-by-point comparison of the lead and copper data pair generated by XRF screening and the CLP methods. The CLP results were

plotted along the x-axis and the XRF screening results plotted along the y-axis. One half of the reporting limit value was used for non-detected results of lead and copper. A linear regression was performed and the correlation coefficient was calculated. A correlation coefficient close to 1 indicates a linear relationship. Copper data analyzed by XRF screening and by the CLP method exhibited a linear relationship with a correlation coefficient of $r = 0.8599$ ($r^2 = 0.7397$) with one outlier as shown in Figure 1-1. Lead data analyzed by XRF screening and by the CLP method also exhibited a linear relationship with a correlation coefficient of $r = 0.8856$ ($r^2 = 0.7842$) with six outliers as shown in Figure 1-2.

Based on this statistical analysis it is possible to use the lead and copper results obtained from the XRF screening with the same level of confidence as the results obtained using the CLP method. EPA deemed the copper and lead screening data acceptable for use quantitatively in the remedial investigation risk assessment. Therefore, both CLP and XRF screening data are used in this remedial investigation to determine the nature and extent of the Raymark waste contamination and for risk assessment purposes, as discussed in Section 2.0.

The lead and copper mean statistic values from the XRF screening data set are slightly higher than the mean values calculated from the CLP method. This is because XRF reporting limits are higher than the reporting limits obtained by ICP with the CLP method and half the detection limit value was used as a proxy for non-detected results for statistic analysis. The higher XRF detection limits did not affect the assessment of whether a sample contained Raymark waste, but they may have resulted in slightly higher exposure point concentrations for human risk assessment than actual conditions.

FIGURE 1-1
LINEAR REGRESSION - COPPER
RAYMARK OU6
STRATFORD, CONNECTICUT

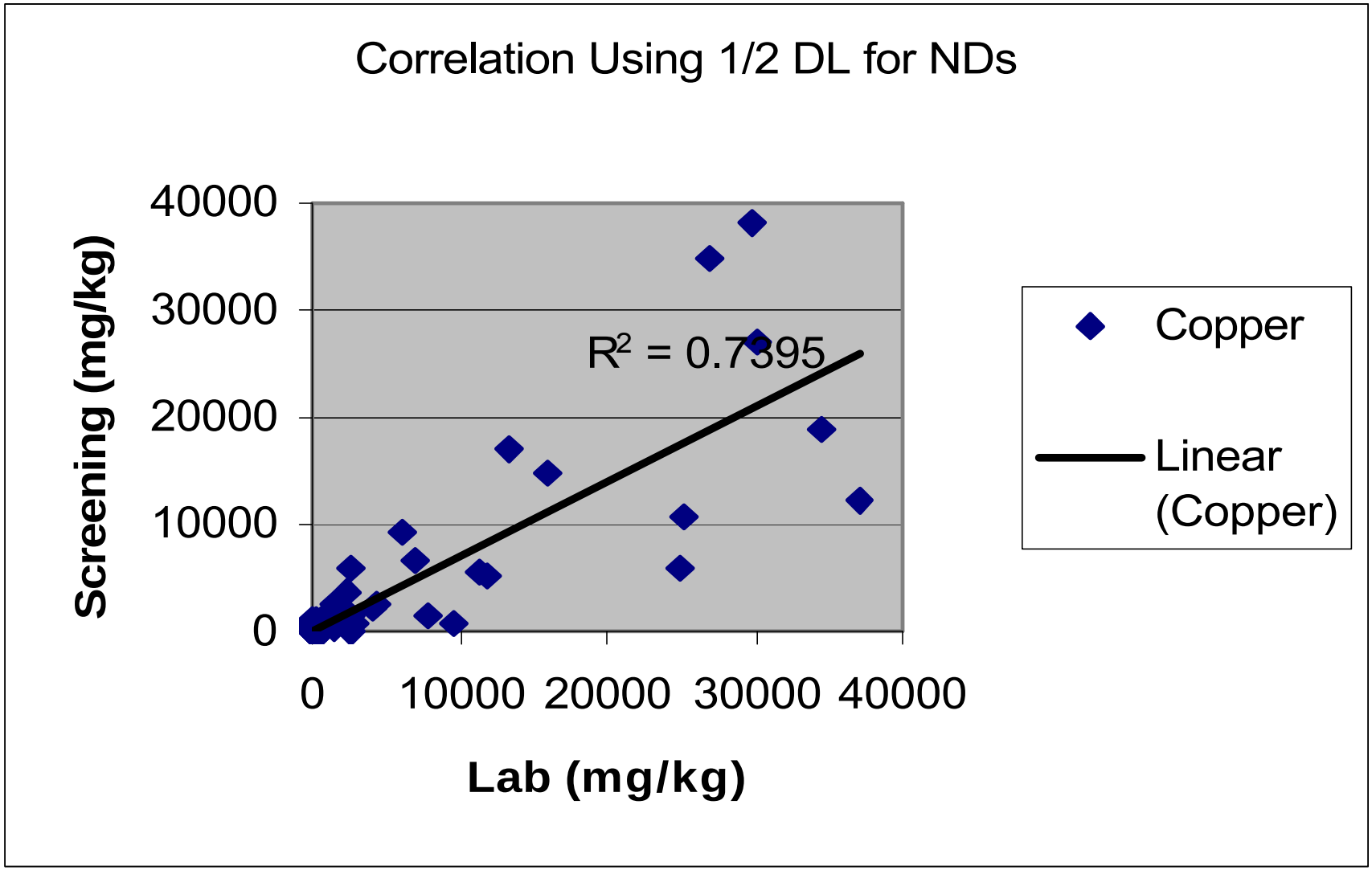
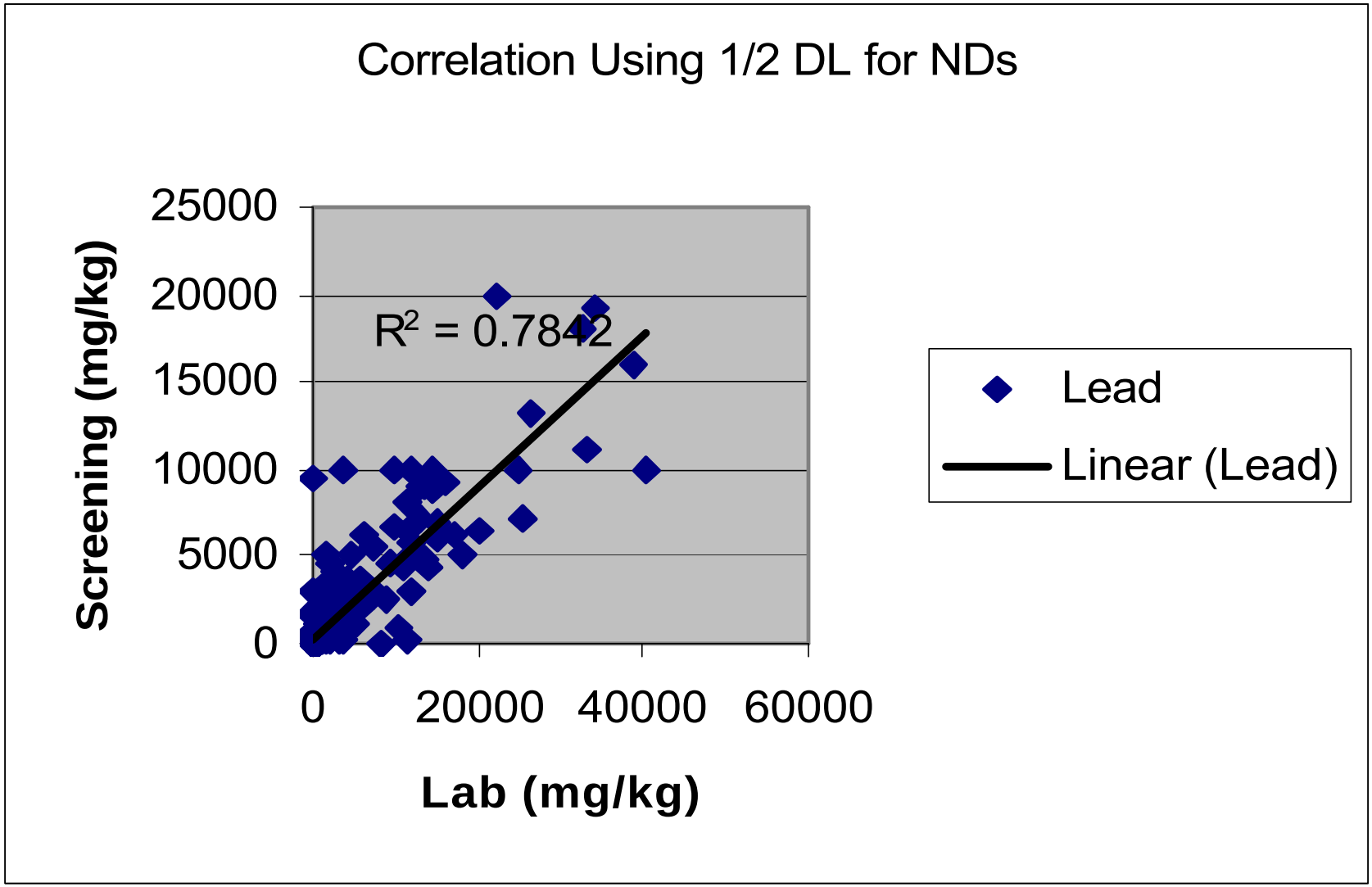


FIGURE 1-1
LINEAR REGRESSION - LEAD
RAYMARK OU6
STRATFORD, CONNECTICUT



Appendix B-4

Dioxin and Furan Toxicity Equivalent Factors

TABLE 1
DIOXIN AND FURAN TOXICITY EQUIVALENT FACTORS[a]
RAYMARK –OU6
STRAFFORD, CONNECTICUT

Compound	TEF
Dioxins	
Mono-, Di-, and Trichlorodibenzo-p-dioxins	0
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1
Other TCDDs	0
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDDs)	1
Other PeCDDs	0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxins (HxCDDs)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxins (HxCDDs)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxins (HxCDDs)	0.1
Other HxCDDs	0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
Other HpCDDs	0
Octachlorodibenzo-p-dioxin (OCDD)	0.0001
Furans	
Mono-, Di-, and Trichlorodibenzo-p-furans	0
2,3,7,8-Tetrachlorodibenzo-p-furan (TCDF)	0.1
Other TCDFs	0
1,2,3,7,8-Pentachlorodibenzo-p-furan (PeCDF)	0.05
2,3,4,7,8-Pentachlorodibenzo-p-furans (PeCDF)	0.5
Other PeCDFs	0
1,2,3,4,7,8-Hexachlorodibenzo-p-furans (HxCDFs)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-furans (HxCDFs)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-furans (HxCDFs)	0.1
2,3,4,6,7,8-Hexachlorodibenzo-p-furans (HxCDFs)	0.1
Other HxCDFs	0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-furans (HpCDFs)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzo-p-furans (HpCDFs)	0.01
Other HpCDFs	0
Octachlorodibenzo-p-furan (OCDF)	0.0001

[a]Van de Berg et al., "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife, " Environmental Health Perspectives 106: pp, 775-792, December, 1998.

Appendix B-5

Statistics And Exposure Point Concentrations

RAYMARK OU6 SITE
STRATFORD CONNECTICUT
STATISTICS AND EXPOSURE POINT CONCENTRATIONS

1.0 INTRODUCTION

This appendix presents the methodology for statistical analysis of environmental data collected at the site. Tables 1 through 4 are referenced statistical tables.

The statistical methods presented were used to develop summary statistics (e.g., range, mean, standard deviation, 95% Upper Confidence Limits) which describe environmental contaminant concentrations at the facility.

The statistical methods presented were based on:

1. EPA Publication 9285.7-081. "Supplemental Guidance to RAGS: Calculating the Concentration Term." May 1992.

2. Gilbert, Richard O., Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Company. New York, New York. 1987.

3. Cochran, William G. and Snedecor, George W. Statistical Methods. The Iowa State University Press. 1980.

2.0 LIMIT OF DETECTION

In the chemical analysis of environmental samples, some analytes may be present at concentrations which are below the sample quantitation limit (SQL) of the analytical procedure. The results are generally reported as not detected (rather than zero), and the appropriate limit of detection is given. The nondetects were replaced with the SQL divided by two prior to statistical analysis. Clearly, if all the observations are nondetect results, no statistical analysis is warranted. In addition, field duplicate results were processed prior to use in statistical analysis. The maximum value was used for solid matrix duplicates.

3.0 STATISTICAL METHODS

3.1 The Shapiro and Wilk "W-Test"

The data must be analyzed to determine whether they were drawn from an underlying normal, lognormal or undetermined distribution. A number of statistical evaluations may be used to determine which, if either, of the distributions are exhibited by a given data set. As recommended by the EPA, the Shapiro and Wilk "W-test" (for sample sets ≤50) and the Shapiro-Francia "W-test" (for sample sets >50) will be used to determine whether the data are normally or lognormally distributed (EPA, 1992).

The null hypothesis (H_0) that is tested is that the population has a normal (or lognormal when the data is log-transformed) distribution.

The alternate hypothesis (HA) is that the population does not have a normal (or lognormal when the data is log-transformed) distribution.

The equation for the W statistic is:

$$W = \left[\frac{b}{S_R \sqrt{n-1}} \right]^2$$

where

$$b = \sum_{i=1}^{k} a_i \left(x_{[n+1]} - x \right) = \sum_{i=1}^{k} b_i$$

and the coefficients a_1, a_2,a_3,..,a_k are found in Table 1.

A "W" statistic (W_{calc}) is computed for a data set (or a log transformed data set) and compared to a test statistic (W_{test}). The test statistic is determined at the 5% significance level from Table 2. If $W_{calc} > W_{test}$, then the null hypothesis is not rejected (i.e. the data are assumed to be normally distributed [or lognormally distributed if log transformed data are tested]). If W_{calc}

$<W_{test}$, then the null hypothesis is rejected and the alternative hypothesis is accepted (i.e., the data are not assumed to be normally distributed [or not log-normally distributed if log transformed data are tested]).

3.2 Representative Concentration for a Normal Distribution (Upper One-sided 95% Confidence Limit for the Arithmetic Mean)

The 100(1-α) Upper Confidence Limit ($UCL_{100(1-\alpha)}$) of the population mean ($\bar{x}$) is often used as a descriptive statistic for environmental data. When α = 0.05, the 95 percent upper confidence limit (one-tailed test) may be calculated as follows:

$$UCL_{0.95} = \bar{x} + t_{0.95,n-1} \frac{S_x}{\sqrt{n}}$$

$$\bar{X} = \frac{1}{n}\sum_{i=1}^{n} x_i = \textit{arithmetic mean}$$

$$S_x = \sqrt{\frac{\sum_{i=1}^{n}(x_i - \bar{x})^2}{n-1}} = \textit{the sample standard deviation}$$

where: $t_{0.95,n-1} = \textit{Value from t - distribution (Table 4)}$

It should be noted that the 95 percent confidence interval for a second sample of size n drawn from the same population will most likely not be the same as that for the first sample. In theory if an interval estimate is calculated for the means of a very large set of samples of size n, the true population mean will be within 95 percent of this limit.

3.3 Representative Concentration for a Lognormal Distribution (Upper One-sided 95% Confidence Limit for the Geometric Mean)

The following formula may be used to calculate the upper 95% confidence interval ($UCL_{95\%}$) for the geometric mean (x_g):

$$UCL_{0.95} = \exp\left[\bar{y} + 0.5(S_y)^2 + \frac{S_y\left(H_{0.95,n}\right)}{\sqrt{n}}\right]$$

where: $\bar{y}1$ = arithmetic mean of the log-transformed data, y = ln(x)

S_y = standard deviation of y

$H_{0.95,n}$ = factor for sample size n (Table 3)

CLIENT Raymark OU6	JOB NUMBER
SUBJECT Check - UCL Calculations	
BASED ON	DRAWING NUMBER
BY Gary Glennon / CHECKED BY	APPROVED BY / DATE 10/5/03

$n = 81$ $s = 2.334$

$n_1 = 51$ $s_1 = 2.00$ $H_1 = 3.533$ $H_2 = 3.295$

$n_2 = 101$ $s_2 = 2.50$ $H_3 = 4.228$ $H_4 = 3.920$

$$H_{interpol1} = (((H_2 - H_1)/(n_2 - n_1)) \times (n - n_1)) + H_1$$
$$= (((3.295 - 3.533)/(81-51)) \times (81-51)) + 3.533$$
$$= 3.3902$$

$$H_{interpol2} = (((H_4 - H_3)/(n_2 - n_1)) \times (n - n_1)) + H_3$$
$$= (((3.920 - 4.228)/(81-51)) \times (81-51)) + 4.228$$
$$= 4.0432$$

$$H = (((H_{interpol2} - H_{interpol1})/(s_2 - s_1)) \times (s - s_1)) + H_{interpol1}$$
$$= (((4.0432 - 3.3902)/(2.5-2)) \times (2.334-2)) +$$
$$= 3.8264$$

Interpolation of t

$df = 80$

$df_1 = 60$ $t_1 = 1.671$ $t = 1.671 + \frac{20}{60}(1.658 - 1.67$

$df_2 = 120$ $t_2 = 1.658$ $= 1.667$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 2 OF

CLIENT		JOB NUMBER	
SUBJECT			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

Calculation of UCL - Normal

$\bar{x} = 2317$
$t = 1.667$
$s = 4498$
$n = 81$

$$UCL\text{-}Normal = \bar{x} + t(s/\sqrt{n})$$
$$= 2317 + 1.667(4498/\sqrt{81})$$
$$= 3150.13 \cong 3150 \checkmark$$

Calculation of UCL Lognormal

$\bar{x} = 5.74$

$H = 3.8264$

$s = 2.334$

$n = 81$

$$UCL\text{-}Lognormal = e^{(\bar{x} + 0.5s^2 + sH/\sqrt{n-1})}$$
$$= e^{(5.74 + 0.5(2.334)^2 + (2.334)(3.8264)/\sqrt{81-1})}$$
$$= 12865.1 \cong 12900 \checkmark$$

TABLE 3.1
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
MORGAN FRANCIS PROPERTY

Scenario Timeframe:
Medium:
Exposure Medium:
Exposure Point: MORGAN FRANCIS PROPERTY

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of ~~Normal~~ Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Trichloroethene	ug/kg	31	140	120		ug/kg	120	Max	W-Test()	31	Mean-N	W-Test()
Benzo(a)anthracene	ug/kg	1200	4800	3600		ug/kg	3600	Max	W-Test()	1200	Mean-N	W-Test()
Benzo(a)pyrene	ug/kg	1000	3700	2500	J	ug/kg	2500	Max	W-Test()	1000	Mean-N	W-Test()
Benzo(b)fluoranthene	ug/kg	1300	5900	5000		ug/kg	5000	Max	W-Test()	1300	Mean-N	W-Test()
Indeno(1,2,3-cd)pyrene	ug/kg	960	3900	2200	J	ug/kg	2200	Max	W-Test()	960	Mean-N	W-Test()
Aroclor, Total (Conserv	ug/kg	13000	86000	97525		ug/kg	86000	95% UCL-T	W-Test()	86000	95% UCL-T	W-Test()
Aroclor-1254	ug/kg	670	1500	8400	*J	ug/kg	1500	95% UCL-T	W-Test()	1500	95% UCL-T	W-Test()
Aroclor-1262	ug/kg	5100	79000	36000	*J	ug/kg	36000	Max	W-Test()	5100	Mean-N	W-Test()
Aroclor-1268	ug/kg	6300	120000	50000	*J	ug/kg	50000	Max	W-Test()	6300	Mean-N	W-Test()
Toxicity Equivalency	ug/kg	0.3	0.45	1.03	J	ug/kg	0.45	95% UCL-N	W-Test()	0.45	95% UCL-N	W-Test()
Arsenic	mg/kg	34.1	61.9	263	J	mg/kg	61.9	95% UCL-T	W-Test()	61.9	95% UCL-T	W-Test()
Barium	mg/kg	4330	35800	10900		mg/kg	10900	Max	W-Test()	4330	Mean-N	W-Test()
Chromium	mg/kg	106	221	240		mg/kg	221	95% UCL-T	W-Test()	221	95% UCL-T	W-Test()
Lead	mg/kg	2320	12900	25600	J	mg/kg	12900	95% UCL-T	W-Test()	12900	95% UCL-T	W-Test()
Zinc	mg/kg	2600	12900	24000	J	mg/kg	12900	95% UCL-T	W-Test()	12900	95% UCL-T	W-Test()
Asbestos	%	19	150	85		%	85	Max	W-Test()	19	Mean-N	W-Test()

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

TABLE 3
VALUES OF $H_{0.95}$ FOR COMPUTING A ONE-SIDE
UPPER 95% CONFIDENCE LIMIT ON A LOGNORMAL MEAN

n1 n2

Sy/n	3	5	7	10	12	15	21	31	51	101	201	301	401	601
0.10	2.750	2.035	1.886	1.802	1.775	1.749	1.722	1.701	1.684	1.670	1.662	1.659	1.658	1.656
0.20	3.295	2.198	1.992	1.881	1.843	1.809	1.771	1.742	1.718	1.697	1.685	1.680	1.677	1.674
0.30	4.109	2.402	2.125	1.977	1.927	1.882	1.833	1.793	1.761	1.733	1.716	1.709	1.705	1.700
0.40	5.220	2.651	2.282	2.089	2.026	1.968	1.905	1.856	1.813	1.770	1.755	1.746	1.740	1.734
0.50	6.495	2.947	2.465	2.220	2.141	2.068	1.989	1.928	1.876	1.830	1.802	1.790	1.784	1.776
0.60	7.807	3.287	2.673	2.368	2.271	2.181	2.085	2.010	1.946	1.891	1.857	1.843	1.835	1.825
0.70	9.120	3.662	2.904	2.532	2.414	2.306	2.191	2.102	2.025	1.960	1.919	1.902	1.892	1.881
0.80	10.430	4.062	3.155	2.710	2.570	2.443	2.307	2.202	2.112	2.035	1.988	1.968	1.957	1.944
0.90	11.740	4.478	3.420	2.902	2.738	2.589	2.432	2.310	2.206	2.117	2.062	2.040	2.027	2.012
1.00	13.050	4.905	3.698	3.103	2.915	2.744	2.564	2.423	2.306	2.205	2.143	2.117	2.102	2.085
1.25	16.330	6.001	4.426	3.639	3.389	3.163	2.923	2.737	2.580	2.447	2.364	2.330	2.310	2.288
1.50	19.600	7.120	5.184	4.207	3.896	3.612	3.311	3.077	2.881	2.713	2.609	2.566	2.542	2.514
1.75	22.870	8.250	5.960	4.795	4.422	4.081	3.719	3.437	3.200	2.997	2.872	2.820	2.791	2.757
2.00	26.140	9.387	6.747	5.396	4.962	4.564	4.141	3.912	3.533	3.295	3.148	3.088	3.053	3.013
2.50	32.690	11.673	8.339	6.621	6.067	5.557	5.013	4.588	4.228	3.920	3.729	3.650	3.605	3.553
3.00	39.230	13.970	9.945	7.864	7.191	6.570	5.907	5.388	4.947	4.569	4.334	4.238	4.183	4.119
3.50	45.770	16.270	11.560	9.118	8.326	7.596	6.815	6.201	5.681	5.233	4.956	4.842	4.776	4.700
4.00	52.310	18.580	13.180	10.380	9.469	8.630	7.731	7.024	6.424	5.908	5.588	5.456	5.380	5.293
4.50	58.850	20.880	14.800	11.640	10.620	9.669	8.652	7.854	7.174	6.590	6.227	6.077	5.991	5.892
5.00	65.390	23.190	16.430	12.910	11.770	10.710	9.579	8.688	7.929	7.277	6.871	6.704	6.608	6.497
6.00	78.470	27.810	19.680	15.450	14.080	12.810	11.440	10.360	9.449	8.661	8.170	7.968	7.852	7.718
7.00	91.550	32.430	22.940	18.000	16.390	14.900	13.310	12.050	10.980	10.050	9.479	9.242	9.106	8.949
8.00	104.600	37.060	26.200	20.550	18.710	17.010	15.180	13.740	12.510	11.450	10.790	10.520	10.370	10.190
9.00	117.700	41.680	29.460	23.100	21.030	19.110	17.050	15.430	14.050	12.850	12.110	11.810	11.630	11.430
10.00	130.800	46.310	32.730	25.660	23.350	21.220	18.930	17.130	15.590	14.260	13.430	13.100	12.900	12.670

S = 2.334

95th PERCENTILE OF STUDENT's t-DISTRIBUTION WITH n DEGREES OF FREEDOM

	n	t	
	1	6.314	
	2	2.92	
	3	2.353	
	4	2.132	
	5	2.015	
	6	1.943	
	7	1.895	
	8	1.86	
	9	1.833	
	10	1.812	
	11	1.796	
	12	1.782	
	13	1.771	
	14	1.761	
	15	1.753	
	16	1.746	
	17	1.74	
	18	1.734	
	19	1.729	
	20	1.725	
	21	1.721	
	22	1.717	
	23	1.714	
	24	1.711	
	25	1.708	
	26	1.706	
	27	1.703	
	28	1.701	
	29	1.699	
	30	1.697	
	40	1.684	
df_1 →	60	1.671	← t_1
df_2 →	120	1.658	← t_2
	2000	1.645	

$df = 80$

parameter	nsample	lab_result	qual	halfndres	units
Lead	MF A+400	9130		9130	MG/KG
Lead	MFP-6	11600		11600	MG/KG
Lead	MFP-6-MAX	11900		11900	MG/KG
Lead	MF-SO-MW101D-0002	9		9	MG/KG
Lead	MF-SO-MW101D-0204	930		930	MG/KG
Lead	MF-SO-MW101D-0204A	1600		1600	MG/KG
Lead	MF-SO-MW101D-0204B	260		260	MG/KG
Lead	MF-SO-MW101D-0406	105		105	MG/KG
Lead	MF-SO-MW101D-0406A	200		200	MG/KG
Lead	MF-SO-MW101D-0406B	10		10	MG/KG
Lead	MF-SO-MW101D-0608	130	J	130	MG/KG
Lead	MF-SO-MW101D-0810	19.75		19.75	MG/KG
Lead	MF-SO-MW101D-0810A	35		35	MG/KG
Lead	MF-SO-MW101D-0810B	9	U	4.5	MG/KG
Lead	MF-SO-MW101D-1012	20		20	MG/KG
Lead	MF-SO-MW101D-1416	30	U	15	MG/KG
Lead	MF-SO-MW102-0002	170		170	MG/KG
Lead	MF-SO-MW102-0204	2600		2600	MG/KG
Lead	MF-SO-MW102-0406-M	7450		7450	MG/KG
Lead	MF-SO-MW102-0608	3555		3555	MG/KG
Lead	MF-SO-MW102-0608A	6600		6600	MG/KG
Lead	MF-SO-MW102-0608B	510		510	MG/KG
Lead	MF-SO-MW102-0810	1200		1200	MG/KG
Lead	MF-SO-MW102-1012	24		24	MG/KG
Lead	MF-SO-MW102-1214	30	U	15	MG/KG
Lead	MF-SO-MW103-0002	30	U	15	MG/KG
Lead	MF-SO-MW103-0204	30	U	15	MG/KG
Lead	MF-SO-MW103-0405	140		140	MG/KG
Lead	MF-SO-MW103-0608	25600	J	25600	MG/KG
Lead	MF-SO-MW103-0810-M	14900	J	14900	MG/KG
Lead	MF-SO-MW103-1012	7800		7800	MG/KG
Lead	MF-SO-MW103-1214	30	U	15	MG/KG
Lead	MF-SO-MW103-1416	18.2	J	18.2	MG/KG
Lead	MF-SO-SB2-0001	25		25	MG/KG
Lead	MF-SO-SB2-0204	1000		1000	MG/KG
Lead	MF-SO-SB2-0406	1200		1200	MG/KG
Lead	MF-SO-SB2-0608	678		678	MG/KG
Lead	MF-SO-SB2-0810	150		150	MG/KG
Lead	MF-SO-SB2-1012	86		86	MG/KG
Lead	MF-SO-SB2-1214	47		47	MG/KG
Lead	MF-SO-SB2-1416	72.5		72.5	MG/KG
Lead	MF-SO-SB4-0002	28		28	MG/KG
Lead	MF-SO-SB4-0204A	57		57	MG/KG
Lead	MF-SO-SB4-0204B	420		420	MG/KG
Lead	MF-SO-SB4-0406	11600	J	11600	MG/KG
Lead	MF-SO-SB4-0608	67		67	MG/KG

parameter	nsample	lab_result	qual	halfndres	units
Lead	MF-SO-SB4-1012	1600		1600	MG/KG
Lead	MF-SO-SB4-1214	3220		3220	MG/KG
Lead	MF-SO-SB4-1416	502.5		502.5	MG/KG
Lead	MF-SO-SB4-1416A	780		780	MG/KG
Lead	MF-SO-SB4-1416B	10	U	5	MG/KG
Lead	MF-SO-SB7-0002	30	U	15	MG/KG
Lead	MF-SO-SB7-0204	30	U	15	MG/KG
Lead	MF-SO-SB7-0406	1690		1690	MG/KG
Lead	MF-SO-SB7-0608	120		120	MG/KG
Lead	MF-SO-SB7-0810	980		980	MG/KG
Lead	MF-SO-SB7-1012	1400		1400	MG/KG
Lead	MF-SO-SB7-1214	3000		3000	MG/KG
Lead	MF-SO-SB7-1416-MAX	3980		3980	MG/KG
Lead	MF-SO-TP2-0203	960		960	MG/KG
Lead	MF-SO-TP2-0506	1290		1290	MG/KG
Lead	OU3-A1-SS01-0002-MA	3580		3580	MG/KG
Lead	OU3-A1-SS01-0204	2040		2040	MG/KG
Lead	OU6-SO-MF-104-0002	88	J	88	MG/KG
Lead	OU6-SO-MF-104-0204	1620		1620	MG/KG
Lead	OU6-SO-MF-104-0406	100	U	50	MG/KG
Lead	OU6-SO-MF-104-0608	51	J	51	MG/KG
Lead	OU6-SO-MF-104-0810	100	U	50	MG/KG
Lead	OU6-SO-MF-104-1012	100	U	50	MG/KG
Lead	OU6-SO-PP-103-0002	85		85	MG/KG
Lead	OU6-SO-PP-103-0204	2410		2410	MG/KG
Lead	OU6-SO-PP-103-0406	9805		9805	MG/KG
Lead	OU6-SO-PP-103-0608	16850		16850	MG/KG
Lead	OU6-SO-PP-103-0810	6130		6130	MG/KG
Lead	OU6-SO-PP-103-1214	158		158	MG/KG
Lead	OU6-SO-PP-104-0002-M	256		256	MG/KG
Lead	OU6-SO-PP-104-0204	553		553	MG/KG
Lead	OU6-SO-PP-104-0406	1900		1900	MG/KG
Lead	OU6-SO-PP-104-0608	273		273	MG/KG
Lead	OU6-SO-PP-104-0810	133		133	MG/KG
Lead	OU6-SO-PP-104-1012	40	U	20	MG/KG

parameter	n	AvgUse	stdevUse	avgloguse	stdevloguse	units
Lead	81	2317.10432098765	4497.89565640282	5.74095948601288	2.333623704	MG/KG

FRACTION	PARAMETER	CasNo	Units	Detects	Count	UCL_N	UCL_T
M	Lead	7439921	MG/KG	68	81	3150	12900

Appendix B-6

Sample Intake and Risk Calculations

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA/Raymark OU6 - Comm. Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Commercial worker - Ingestion - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY:	APPROVED BY: / DATE: 10/15/03

For Aroclors in Soil - 230 Ferry Boulevard

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	280
FRW =	Fraction of Raymark waste	(unitless)	0.27
IR =	Ingestion Rate, Soil	(mg/day)	100
OABS =	Oral Absorption Factor, chem-specific	(unitless)	1
EF =	Exposure Frequency	(days/year)	250
ED =	Exposure Duration	(years)	25
CF =	Conversion Factor	(kg/mg)	1.0E-06
BW =	Body weight	(kg)	70
AT =	Averaging Time	(days)	
	cancer- 70 yr x 365 days/year		25550
	non-cancer- ED x 365 days/year		9125

Cancer Intake = $\frac{280 \times 0.27 \times 100 \times 1 \times 1 \times 250 \times 25 \times 1.0E-06}{70 \times 25550}$ = 2.64E-05 mg/kg·day

CR = Intake x CSF = 2.64E-05 x 2.0E+00 = 5.28E-05

Non-Cancer Intake = $\frac{280 \times 0.27 \times 100 \times 1 \times 1 \times 250 \times 25 \times 1.0E-06}{70 \times 9125}$ = 7.40E-05 mg/kg·day

HQ = $\frac{\text{Intake}}{RFD} = \frac{7.40E-05}{2.00E-05}$ = 3.70E+00

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA/Raymark OU6 - Comm. Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Commercial Worker - Ingestion - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY:	APPROVED BY: / DATE: 10/15/03

For Arsenic in Soil - 230 Ferry Boulevard

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

Where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	7.2
FRW =	Fraction of Raymark Waste	(unitless)	0.27
IR =	Ingestion Rate, Soil	(mg/day)	100
OABS =	Oral Absorption Factor, chem-specific	(unitless)	1
EF =	Exposure Frequency	(days/year)	250
ED =	Exposure Duration	(years)	25
CF =	Conversion Factor	(kg/mg)	1.0E-06
BW =	Body Weight	(kg)	70
AT =	Averaging Time	(days)	
	cancer- 70 yr x 365 days/year		25550
	non-cancer- ED x 365 days/year		9,125

Cancer Intake = $\frac{7.2 \times 0.27 \times 100 \times 1 \times 1 \times 250 \times 25}{70 \times 25550}$ = 6.79E-07 mg/kg·day

CR = Intake x CSF = 6.79E-07 x 1.5E+00 = 1.02E-06

Non-Cancer Intake = $\frac{7.2 \times 0.27 \times 100 \times 1 \times 1 \times 250 \times 25}{70 \times 9125}$ = 1.90E-06 mg/kg·day

HQ = $\frac{\text{Intake}}{RfD} = \frac{1.90E-06}{3.00E-04}$ = 6.33E-03

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT	JOB NUMBER
EPA / Raymark OU6 - Comm. Prop.	N4106 - 0720

SUBJECT: Sample Calculations of Intake - Commercial Worker - Dermal - RME

BASED ON	DRAWING NUMBER
RAGS Part A	

BY	CHECKED BY	APPROVED BY	DATE
L. Terzis			10/15/03

For Aroclors in Soil: 230 Ferry Boulevard

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

Where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	280
FRW =	Fraction of Raymark waste	(unitless)	0.27
CF =	Conversion Factor	(kg/mg)	1.0E-06
SA =	Skin Surface Area Available	(cm^2/day)	3,300
SSAF =	Soil to Skin Adherence Factor	(mg/cm^2)	0.2
DABS =	Dermal Absorption Factor, chem-specific	(unitless)	0.14
EF =	Exposure Frequency	(days/yr)	250
ED =	Exposure Duration	(years)	25
BW =	Body weight	(kg)	
AT =	Averaging Time	(days)	
	cancer 70 yrs x 365 days/year		25,550
	non-cancer ED x 365 days/year		9,125

Cancer Intake = $\frac{280 \times 0.27 \times 1.0E-06 \times 3,300 \times 0.2 \times 0.14 \times 250 \times 25}{70 \times 25,550}$ = 2.44E-05 mg/kg·day

CR = Intake x CSF = 2.44E-05 x 2.0E+00 = 4.88E-05

Non-Cancer Intake = $\frac{280 \times 0.27 \times 1.0E-06 \times 3,300 \times 0.2 \times 0.14 \times 250 \times 25}{70 \times 9,125}$ = 6.84E-05 mg/kg·day

HQ = $\frac{\text{Intake}}{RfD} = \frac{6.84E-05}{2.00E-05}$ = 3.42+00

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Comm. Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculations of Intake - Commercial Worker - Dermal - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY:	APPROVED BY: / DATE: 10/15/03

For Arsenic in Soil - 230 Ferry Boulevard

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

Where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	7.2
FRW =	Fraction of Raymark waste	(unitless)	0.27
CF =	Conversion Factor	(kg/mg)	1.0E-06
SA =	Skin Surface Area Available	(cm^2/day)	3,300
SSAF =	Soil to Skin Adherence Factor	(mg/cm^2)	0.2
DABS =	Dermal Absorption Factor, chem-specific	(unitless)	0.03
EF =	Exposure Frequency	(days/yr)	250
ED =	Exposure Duration	(years)	25
BW =	Body weight	(kg)	
AT =	Averaging Time	(days)	
	cancer 70 yrs x 365 days/year		25,550
	non-cancer ED x 365 days/year		9,125

Cancer Intake = $\frac{7.2 \times 0.27 \times 1.0E-06 \times 3,300 \times 0.2 \times 0.03 \times 250 \times 25}{70 \times 25,550}$ = 1.34E-07 mg/kg·day

CR = Intake x CSF = 1.34E-07 x 1.5E+00 = 2.01E-07

Non-Cancer Intake = $\frac{7.2 \times 0.27 \times 1.0E-06 \times 3,300 \times 0.2 \times 0.03 \times 250 \times 25}{70 \times 9,125}$ = 3.77E-07 mg/kg·day

$$HQ = \frac{\text{Intake}}{RfD} = \frac{3.77E-07}{3.00E-04} = 1.26E-03$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Commercial Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Adult Recreational Ingestion, RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: C. Woods	APPROVED BY: / DATE: 1/29/04

For Aroclors in Soil - Wooster Park

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

Where:

			Values
EPC	= Exposure Point Concentration in Soil	(mg/kg)	42
FRW	= Fraction of Raymark Waste	(unitless)	0.04
IR	= Ingestion Rate, Soil	(mg/day)	100
OABS	= Oral Absorption Factor, chem-specific	(unitless)	1
EF	= Exposure Frequency	(days/year)	150
ED	= Exposure Duration	(years)	24
CF	= Conversion Factor	(kg/mg)	1.0E-06
BW	= Body Weight	(kg)	70
AT	= Averaging Time	(days)	
	cancer = 70 yr × 365	days/year	25,550
	non-cancer = ED × 365	days/year	8,760

$$\text{Cancer Intake} = \frac{42 \times 0.04 \times 100 \times 1 \times 1 \times 150 \times 24 \times 1.0E-06}{70 \times 25550} = 3.38\,E^{-07} \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 3.38\,E^{-07} \times 2.0E+00 = 6.76\,E^{-07}$$

$$\text{Non-Cancer Intake} = \frac{42 \times 0.04 \times 100 \times 1 \times 1 \times 150 \times 24 \times 1.0E-06}{70 \times 8760} = 9.86\,E^{-07} \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{9.86\,E^{-07}}{2.00\,E^{-05}} = 4.93\,E^{-02}$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Commercial Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Adult Recreational - Ingestion - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: C. Woods	APPROVED BY: / DATE: 7/29/04

For Arsenic in Soils - Wooster Park

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

where:

				Values
EPC	=	Exposure Point Concentration in Soil	(mg/kg)	5.6
FRW	=	Fraction of Raymark Waste	(unitless)	0.04
IR	=	Ingestion Rate of Soil	(mg/day)	100
OABS	=	Oral Absorption Factor, chem-specific	(unitless)	1
EF	=	Exposure Frequency	(days/year)	150
ED	=	Exposure Duration	(years)	24
CF	=	Conversion Factor	(kg/mg)	1.0E-06
BW	=	Body Weight	(kg)	70
AT	=	Averaging Time	(days)	
		cancer = 70 yr x 365 days/year		25,550
		non-cancer = ED x 365 days/year		8,760

$$\text{Cancer Intake} = \frac{5.6 \times 0.04 \times 100 \times 1 \times 1 \times 150 \times 24 \times 1.0E-06}{70 \times 25{,}550} = 4.51E-08 \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 4.51E-08 \times 1.5E+00 = 6.76E-08$$

$$\text{Non-Cancer Intake} = \frac{5.6 \times 0.04 \times 100 \times 1 \times 1 \times 150 \times 24 \times 1.0E-06}{70 \times 8760} = 1.31E-07 \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{1.31E-07}{3.00E-04} = 4.37E-04$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Comm. Prop.		JOB NUMBER: N4106-0720	
SUBJECT: Sample Calculation of Intakes - Adult Recreational - Dermal - RME			
BASED ON: RAGS PART A		DRAWING NUMBER:	
BY: L. Terzis	CHECKED BY: C. Woods	APPROVED BY:	DATE: 1/29/04

For Aroclors in Soil: Wooster Park.

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	42
FRW =	Fraction of Raymark Waste	(unitless)	0.04
CF =	Conversion Factor	(kg/mg)	1.0E-06
SA =	Skin Surface Area Available	(cm^2/day)	5,700
SSAF =	Soil to Skin Adherence Factor	(mg/cm^2)	0.07
DABS =	Dermal Absorption Factor, chem-specific	(unitless)	0.14
EF =	Exposure Frequency	(days/year)	150
ED =	Exposure Duration	(years)	24
BW =	Body weight	(kg)	70
AT =	Averaging Time	(days)	
	cancer = 70 yr x 365 days/year		25,550
	non-cancer = ED x 365 days/year		8,760

Cancer Intake = $\frac{42 \times 0.04 \times 1.0E-06 \times 5700 \times 0.07 \times 0.14 \times 150 \times 24}{70 \times 25550}$ = 1.89E-07 mg/kg·day

CR = Intake x CSF = 1.89E-07 mg/kg·day x 2.0E+00 = 3.78E-07

Non-Cancer Intake = $\frac{42 \times 0.04 \times 1.0E-06 \times 5700 \times 0.07 \times 0.14 \times 150 \times 24}{70 \times 8760}$ = 5.5E-07 mg/kg·day

$$HQ = \frac{\text{Intake}}{RfD} = \frac{5.5E-07}{2.00E-05} = 2.75E-02$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Comm. Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Adult Recreational - Dermal - RME	
BASED ON: RAGS PART A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: CWoods	APPROVED BY: / DATE: 1/29/04

For Arsenic in Soil - Wooster Park.

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

where:

			Values
EPC =	Exposure Point Concentration in Soil	(mg/kg)	5.6
FRW =	Fraction of Raymark Waste	(unitless)	0.04
CF =	Conversion Factor	(kg/mg)	1.0E-06
SA =	Skin Surface Area Available	(cm^2/day)	5700
SSAF =	Soil to Skin Adherence Factor	(mg/cm^2)	0.07
DABS =	Dermal Absorption Factor, chem-specific	(unitless)	0.03
EF =	Exposure Frequency	(days/year)	150
ED =	Exposure Duration	(years)	24
BW =	Body weight	(kg)	70
AT =	Averaging Time	(days)	
	cancer = 70 yr x 365 days/year		25550
	non-cancer = ED x 365 days/year		8760

$$\text{Cancer Intake} = \frac{5.6 \times 0.04 \times 1.0E-06 \times 5700 \times 0.07 \times 0.03 \times 150 \times 24}{70 \times 25550} = 5.4\ E^{-09}\ \text{mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 5.4\ E^{-09} \times 1.5\ E^{+00} = 8.1\ E^{-09}$$

$$\text{Non-Cancer Intake} = \frac{5.6 \times 0.04 \times 1.0E-06 \times 5700 \times 0.07 \times 0.03 \times 150 \times 24}{70 \times 8760} = 1.57E^{-08}\ \text{mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{1.57E-08}{3.00E-04} = 5.25\ E-05$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Commercial Prop.		JOB NUMBER: N4106-0720	
SUBJECT: Sample Calculation of Intakes - Child Recreational - Ingestion - RME			
BASED ON: RAGS Part A		DRAWING NUMBER:	
BY: L. Terzis	CHECKED BY: C Woods	APPROVED BY:	DATE: 1/29/04

For Aroclors in Soil: Wooster Park

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

where:

				Values
EPC	=	Exposure Point Concentration in Soil	(mg/kg)	42
FRW	=	Fraction of Raymark Waste	(unitless)	0.04
IR	=	Ingestion Rate of Soil	(mg/day)	200
OABS	=	Oral Absorption Factor, chem-specific	(unitless)	1
EF	=	Exposure Frequency	(days/year)	150
ED	=	Exposure Duration	(years)	6
CF	=	Conversion Factor	(kg/mg)	1.0E-06
BW	=	Body Weight	(kg)	15
AT	=	Averaging Time	(days)	
		cancer = 70 yr x 365 days/year		25,550
		non-cancer = ED x 365 days/year		2,190

$$\text{Cancer Intake} = \frac{42 \times 0.04 \times 200 \times 1 \times 1 \times 150 \times 6 \times 1.0E-06}{15 \times 25,550} = 7.89 \times 10^{-7} \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 7.89 \times 10^{-7} \times 2.0E+00 = 1.58E-06$$

$$\text{Non-Cancer Intake} = \frac{42 \times 0.04 \times 200 \times 1 \times 1 \times 150 \times 6 \times 1.0E-06}{15 \times 2,190} = 9.21E-06 \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{9.21E-06}{2.00E-05} = 4.6E-01$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6- Commercial Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Child Recreational Ingestion, RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: C Woods	APPROVED BY: / DATE: 1/29/04

For Arsenic in Soils: Wooster Park

$$\text{Intake}_{oral} = \frac{EPC \times FRW \times IR \times OABS \times EF \times ED \times CF}{BW \times AT}$$

Where:

			Values
EPC	= Exposure Point Concentration in Soil	(mg/kg)	5.6
FRW	= Fraction of Raymark Waste	(unitless)	0.04
IR	= Ingestion Rate, Soil	(mg/day)	200
OABS	= Oral Absorption Factor, chem-specific	(unitless)	1
EF	= Exposure Frequency	(days/year)	150
ED	= Exposure Duration	(years)	6
CF	= Conversion Factor	(kg/mg)	1.0E-06
BW	= Body Weight	(kg)	
AT	= Averaging Time	(days)	
	cancer = 70 yr × 365	days/year	25,550
	non-cancer = ED × 365	days/year	2,190

$$\text{Cancer Intake} = \frac{5.6 \times 0.04 \times 200 \times 1 \times 1 \times 150 \times 6 \times 1.0E^{-6}}{\times 25,550} = 1.05E-07 \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 1.05E^{-07} \times 1.5E^{+00} = 1.58E^{-07}$$

$$\text{Non-Cancer Intake} = \frac{5.6 \times 0.04 \times 200 \times 1 \times 1 \times 150 \times 6 \times 1.0E^{-06}}{\times 2,190} = 1.23E-06 \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{1.23E^{-06}}{3.00E^{-04}} = 4.09E^{-03}$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Commercial Prop.	JOB NUMBER: N4106-0720
SUBJECT: Sample Calculation of Intakes - Child Recreational Dermal - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: CWoods	APPROVED BY: / DATE: 1/21/04

For Aroclors in Soil: Wooster Park

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

where:

			Values
EPC	= Exposure Point Concentration in Soil	(mg/kg)	42
FRW	= Fraction of Raymark Waste	(unitless)	0.04
CF	= Conversion Factor	(kg/mg)	1.0E-06
SA	= Skin Surface Area Available	(cm^2/day)	2,800
SSAF	= Soil to Skin Adherence Factor	(mg/cm^2)	0.2
DABS	= Dermal Absorption Factor, chem-specific	(unitless)	0.14
EF	= Exposure Frequency	(days/year)	150
ED	= Exposure Duration	(years)	6
BW	= Body Weight	(kg)	15
AT	= Averaging Time	(days)	
	cancer = 70 yr x 365 days/year		25,550
	non-cancer = ED x 365 days/year		2,190

$$\text{Cancer Intake} = \frac{42 \times 0.04 \times 1.0E\text{-}06 \times 2800 \times 0.2 \times 0.14 \times 150 \times 6}{15 \times 25{,}550} = 3.09E\text{-}07 \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 3.09E\text{-}07 \times 2.0E+00 = 6.19E\text{-}07$$

$$\text{Non-Cancer Intake} = \frac{42 \times 0.04 \times 1.0E\text{-}06 \times 2800 \times 0.2 \times 0.14 \times 150 \times 6}{15 \times 2{,}190} = 3.61E\text{-}06 \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{3.61E\text{-}06}{2.00E\text{-}05} = 1.8E\text{-}01$$

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT: EPA / Raymark OU6 - Commercial Prop.	JOB NUMBER: NH106-0720
SUBJECT: Sample Calculation of Intakes - Child Recreational Dermal - RME	
BASED ON: RAGS Part A	DRAWING NUMBER:
BY: L. Terzis / CHECKED BY: CWoods	APPROVED BY: / DATE: 1/29/04

For Arsenic in Soil : Wooster Park

$$\text{Intake}_{\text{dermal}} = \frac{EPC \times FRW \times CF \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$$

where:

			Values
EPC	= Exposure Point Concentration in Soil	(mg/kg)	5.6
FRW	= Fraction of Raymark Waste	(unitless)	0.04
CF	= Conversion Factor	(kg/mg)	1.0E-06
SA	= Skin Surface Area Available	(cm^2/day)	2,800
SSAF	= Soil to Skin Adherence Factor	(mg/cm^2)	0.2
DABS	= Dermal Absorption Factor, chem-specific	(unitless)	0.03
EF	= Exposure Frequency	(days/year)	150
ED	= Exposure Duration	(years)	6
BW	= Body Weight	(kg)	15
AT	= Averaging Time	(days)	
	cancer = 70 yr x 365 days/year		25,550
	non-cancer = ED x 365 days/year		2,190

$$\text{Cancer Intake} = \frac{5.6 \times 0.04 \times 1.0E-06 \times 2800 \times 0.2 \times 0.03 \times 150 \times 6}{15 \times 25550} = 8.84E-09 \text{ mg/kg·day}$$

$$CR = \text{Intake} \times CSF = 8.84E-09 \times 1.5E+00 = 1.33E-08$$

$$\text{Non-Cancer Intake} = \frac{5.6 \times 0.04 \times 1.0E-06 \times 2800 \times 0.2 \times 0.03 \times 150 \times 6}{15 \times 2190} = 1.03E-07 \text{ mg/kg·day}$$

$$HQ = \frac{\text{Intake}}{RfD} = \frac{1.03E-07}{3.00E-04} = 3.44E-04$$

Appendix B-7

Brief Summaries of Toxicological Profiles

RAYMARK OU6 SITE
STRATFORD CONNECTICUT
TOXICITY SUMMARIES FOR CHEMICALS OF POTENTIAL CONCERN

1.0 INTRODUCTION

This appendix contains brief summaries of the toxicological profiles for the identified COPCs. These profiles present a summary of the available literature on carcinogenic and non-carcinogenic effects associated with human exposure to the chemical. For more in depth information see www.epa.gov/iris/indes.html or www.atsdr.cdc.gov/toxpro2.html.

1.1 Asbestos

Asbestos is poorly absorbed from the gastrointestinal tract and therefore displays low acute oral toxicity. However, respiratory exposure leads to pulmonary fibrosis called asbestosis, which symptoms include breathlessness, chest pain, cough, decreased lung function, and cyanosis. Occupational exposures to asbestos have resulted in higher incidences of lung cancer, especially in combination with cigarette smoking; the latent period is 15 to 30 years. An additional effect of asbestos exposure is the development of pleural or peritoneal mesotheliomas; the latent period is 3.5 to 30.0 years.

1.2 Polychlorinated Biphenyls (PCBs)

PCBs are a group of synthetic organic chemicals that contain 209 individual compounds (known as congeners). Mixtures of PCBs, or Aroclors, were manufactured for use in industry as coolants and lubricants in electrical equipment before their manufacture in the United States was ended in 1977. Some PCB congeners are considered dioxin-like.

Studies in animals have demonstrated immunological, reproductive, and neurological effects from PCB exposure. Studies in mice, monkeys, guinea pigs, and rabbits have shown PCBs to be immunosuppressive. For non-carcinogenic risk, only two PCB commercial Aroclor formulations, Aroclor 1016 and Aroclor 1254, have oral RfDs available. The oral RfD for Aroclor 1016 is 7.00E-05 mg/kg/day and the oral RfD for Aroclor 1254 is 2.00E-05 mg/kg/day.

EPA considers PCBs to be a probable human carcinogen based on evidence of the ability of PCBs to cause cancer in animal studies. Data on humans exposed to PCBs suggest an association between PCB exposure and human cancer, but lack of data on exposure dose, exposure length, PCB types and other chemicals people were exposed to precludes identifying a cause and effect relationship based only on human studies.

1.3 Dioxins

The term "dioxins" refers to a group of 30 chemical compounds that share chemical structure and similar biological mechanisms of action. These compounds are members of three closely related families of chemicals: the chlorinated dibenzo-p-dioxins (CDDs), chlorinated dibenzofurans (CDFs), and certain polychlorinated biphenyls (PCBs). Dioxins are produced through combustion, chlorine bleaching of pulp and paper, certain types of chemical manufacturing and processing, and other industrial processes.

Dioxins enter the ecological food web by being deposited from the atmosphere, either directly from air-emissions or indirectly by processes that return dioxins already in the environment to the atmosphere. Dioxins are highly persistent in the environment and can accumulate in the tissues of animals.

Dioxins are potent animal toxicants with a potential to produce a broad spectrum of adverse effects in humans. Dioxins can alter the fundamental growth and development of cells in ways that have the potential to lead to many kinds of impacts, including adverse effects upon reproduction and development; suppression of the immune system; chloracne (a severe acne-like condition that sometimes persists for many years); and cancer. The most studied and one of the most toxic dioxins is 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD).

EPA characterizes 2,3,7,8-TCDD as a "human carcinogen", class A, based on evidence of animal and human studies and characterizes other dioxins as "likely human carcinogens", class B2. Risk estimates for dioxins were evaluated through the use of dioxin TEQs as described in Section 2.7.2.1. Dioxin TEQs are used in conjunction with the toxicity value for 2,3,7,8-TCDD of 1.5 E+5 $(mg/kg/day)^{-1}$ from IRIS (EPA, 2003) in determining cancer risk. Use of this cancer slope factor for dioxins may underestimate risks from exposure to dioxins. EPA has recently

prepared a Draft Dioxin Reassessment (EPA, 2000), which recommends a CSF for dioxins of 1.0E+6 $(mg/kg/day)^{-1}$.

1.4 Polyaromatic Hydrocarbons (PAHs)

The non-carcinogenic PAHs appear to affect the liver, kidneys, and blood of exposed laboratory animals. Considered exposure routes include ingestion and inhalation, and exposure has resulted in anemia and mild liver lesions, and occasionally renal disease. The effects vary for the individual compounds. RfDs are available for several PAHs.

Benzo(a)pyrene is the most widely studied chemical among the carcinogenic PAHs. It is used as the basis for defining the toxicity of other potentially carcinogenic PAHs. Benzo(a)pyrene is widely distributed in the tissues of treated rats and mice, but is primarily found in high fat tissues. While the carcinogenicity of complex mixtures containing PAHs (such as coal tar, coke oven emissions, and cigarette smoke) is suggested, the carcinogenicity cannot be attributed solely to PAHs. The carcinogenicity of benzo(a)pyrene is based largely on the results of animal studies in which the animals were exposed to large doses of purified compound via atypical routes of exposure. EPA has determined that the oral CSF for benzo(a)pyrene is 7.3 $(mg/kg/day)^{-1}$. Oral CSFs for other carcinogenic PAHs were determined by multiplying the oral CSF for benzo(a)pyrene by the estimated order of potential potency for the PAH.

1.5 Acetophenone

Acetophenone is used as a specialty solvent for plastics and resins. Little is known of its toxicity. Effects on human beings have been examined as a result of its use as a sedative with fairly high dosage. A slight depression on pulse and hemoglobin levels was observed. Skin contact may result in irritation. Its vapors are not expected to present a problem unless it is heated.

An RfD for chronic oral exposure has been calculated by EPA based on an animal NOAEL. The NOAEL was determined from an epidemiological study of small rat populations.

Acetophenone has not been tested for carcinogenicity, teratogenicity or for reproductive effects.

1.6 Trichloroethene

Trichloroethene (TCE) also known as trichloroethylene, is an industrial solvent used primarily in metal degreasing and cleaning operations.

Human and animal data indicate that exposure to TCE can result in toxic effects on a number of organs and systems, including the liver, kidney, blood, skin, immune system, reproductive system, nervous system, and cardiovascular system. TCE can be absorbed through the lungs, mucous membranes, gastrointestinal tract, and the skin. In humans, acute inhalation exposure to TCE causes central nervous system symptoms such as headache, dizziness, nausea, and unconsciousness. Reference Doses (RfDs) and Reference Concentrations (RfCs) for subchronic and chronic oral and inhalation exposure to TCE are presently under review by EPA.

Epidemiologic studies have been inadequate to determine if a correlation exists between exposure to TCE and increased cancer risk. Although U.S. EPA's Science Advisory Board recommended a weight-of-evidence classification of C-B2 continuum (C = possible human carcinogen; B2 = probable human carcinogen), the agency has not adopted a current position on the weight-of-evidence classification. In an earlier evaluation, TCE was assigned to weight-of-evidence Group B2, probable human carcinogen, based on tumorigenic responses in rats and mice for both oral and inhalation exposure and on inadequate data in humans.

1.7 4,4'-DDT

From 1946-1972, 4,4'-DDT was one of the most widely used insecticides in the USA and other countries. Because of concerns about damage to the environment and the potential harm to human health, EPA banned all uses of 4,4'-DDT in 1972 except for use by Public Health Service officials for control of diseases of public health importance and in drugs for controlling body lice. The most significant source of exposure to individuals in the U.S. is occupational.

4,4'-DDT has caused chronic effects on the nervous system, liver, kidneys, and immune systems in experimental animals. The main effect on the liver seen in animal studies was localized liver damage. Dose levels at which effects were observed in test animals were very much higher than those which may be typically encountered by humans. An RfD for chronic oral exposure has been calculated by EPA based on an animal NOAEL. The NOAEL was

determined from an epidemiological study of rat populations. 4,4'-DDT-induced liver effects have been observed in mice, hamsters, and dogs.

EPA's Weight-of-Evidence Characterization for 4,4'-DDT is B2, probable human carcinogen. Liver tumors were observed in several rat and mouse studies evaluating 4,4'-DDT. Additionally, 4,4'-DDT is structurally similar to other probable carcinogens, such as 4,4'-DDD and 4,4'-DDE.

1.8 Dieldrin

Dieldrin is an insecticide which from 1950-1970 was a popular pesticide for crops like corn and cotton. Because of concerns about damage to the environment and the potential harm to human health, EPA banned all uses of dieldrin in 1974 except to control termites. In 1987, EPA banned all uses. Exposure to dieldrin happens mostly from eating contaminated foods, such as root crops, fish, or seafood. Dieldrin builds up in the body after years of exposure and can damage the nervous system.

Exposure to dieldrin mainly affects the central nervous system. Ingestion of high levels of dieldrin results in convulsions and death. These levels are many thousands of times higher than the average exposure. Ingesting moderate levels of dieldrin over a longer period may also cause convulsions. The effects of exposure to low levels of dieldrin over a long time are unknown. Some workers who made or applied dieldrin had nervous system effects with excitation leading to convulsions. Lesser effects in some workers included headaches, dizziness, vomiting, irritability, and uncontrolled muscle movements. Workers removed from the source of exposure rapidly recovered from most of these effects.

1.9 Endrin Ketone

The following toxicity profile for the pesticide endrin ketone is based on the toxicity profile of endrin, since endrin ketone is a breakdown product of endrin.

Endrin is a persistent insecticide used mainly on field crops, such as cotton and grains; however, the manufacture of endrin has been discontinued and it is no longer registered for use in the U.S.

Endrin's primary toxic effect in humans is as a convulsant. Acute exposure to endrin by ingestion has caused death, mainly through accidental ingestion, with the central nervous system being the primary target. An RfD for chronic oral exposure has been calculated by EPA based on an animal NOAEL. The NOAEL was determined from an epidemiological study of dog populations. Dogs receiving endrin experienced occasional convulsions, slightly increased relative liver weights, and mild hisopathological effects in the liver.

The EPA's Weight-of-Evidence Characterization for endrin is Class D, not classifiable as to carcinogenicity for humans. Human and animal carcinogenicity data are inadequate to determine the relationship between endrin exposure and cancer.

1.10 Antimony

Acute intoxication from ingestion of large doses of antimony induces GI disturbances, dehydration, and cardiac effects in humans. Chronic effects from occupational exposure include irritation of the respiratory tract, pneumoconiosis, eruptions of the skin called "antimony spots," allergic contact dermatitis, and cardiac effects, including abnormalities of the electrocardiograph (ECG) and myocardial changes. Cardiac effects were also observed in rats and rabbits exposed by inhalation for six weeks and in animals (dogs, and possibly other species) treated by intravenous injection.

The EPA published an RfD for chronic oral exposure to antimony from in a lifetime study in rats. The heart is considered a likely target organ for chronic oral exposure of humans.

1.11 Arsenic

Arsenic is found in nature at low levels. Inorganic arsenic compounds are mainly used to preserve wood. They are also used to make insecticides and weed killers.

Inorganic arsenic is a human poison. Organic arsenic is less harmful. High levels of inorganic arsenic in food or water can be fatal. Arsenic damages many tissues including nerves, stomach and intestines, and skin. Breathing high levels can give you a sore throat and irritated lungs. Lower levels of exposure to inorganic arsenic may cause nausea, vomiting, diarrhea, decreased production of red and white blood cells, abnormal heart rhythm, blood vessel damage, and a

"pins and needles" sensation in hands and feet. Long term exposure to inorganic arsenic may lead to a darkening of the skin and the appearance of small "corns" or "warts" on the palms, soles, and torso. Direct skin contact may cause redness and swelling.

EPA has classified arsenic is a human carcinogen of Class A. Breathing inorganic arsenic increases the risk of lung cancer. Ingesting inorganic arsenic increases the risk of skin cancer and tumors of the bladder, kidney, liver, and lung.

1.12 Barium

Increased blood pressure has been observed in experimental animals (rats) routinely exposed to barium in drinking water. Barium is also toxic to the nervous system, the muscular system, and gastrointestinal system when ingested at high concentrations. The soluble barium salts are more toxic than the insoluble barium salts. This is probably due to the fact that the soluble barium salts are more likely to be absorbed than the insoluble barium salts.

1.13 Cadmium

Cadmium is a naturally occurring metal that is used in various chemical forms in metallurgical and other industrial processes, and in the production of pigments.

Environmental exposure can occur via the diet and drinking water. Cadmium is transported in the blood and widely distributed in the body but accumulates primarily in the liver and kidneys. Acute oral exposure to large amount of cadmium has caused fatalities in humans. Exposure to lower amounts may cause gastrointestinal irritation, vomiting, abdominal pain, and diarrhea. Longer term exposure to cadmium primarily affects the kidneys, resulting in tubular proteinosis although other conditions such as "itai-itai" disease may involve the skeletal system. Cadmium involvement in hypertension is not fully understood. Inhalation exposure to cadmium and cadmium compounds may result in effects including headache, chest pains, muscular weakness, pulmonary edema, and death. The target organ for cadmium toxicity via oral exposure is the kidney. For inhalation exposure, both the lungs and kidneys are target organs for cadmium-induced toxicity. EPA publishes both an RfD and an RfC based on animal studies.

An inhalation cancer slope factor has been determined for cadmium based on respiratory tract cancer associated with occupational exposure. Based on limited evidence from multiple occupational exposure studies and adequate animal data, cadmium is placed in weight-of-evidence group B1 - probable human carcinogen.

1.14 Chromium

Animal studies show that hexavalent chromium (chromium VI) is generally more toxic than trivalent chromium (chromium III), but neither oxidation state is very toxic by the oral route. The respiratory and dermal toxicity of chromium are well-documented. Compounds of both chromium VI and chromium III have induced developmental effects in experimental animals that include neural tube defects, malformations, and fetal deaths. EPA publishes both an RfD and an RfC.

The inhalation of chromium compounds has been associated with the development of cancer in workers in the chromate industry. The relative risk for developing lung cancer has been calculated for those exposed to be as much as 30 times that of controls. There is also evidence for an increased risk of developing nasal, pharyngeal, and gastrointestinal carcinomas. Based on sufficient evidence for humans and animals, chromium VI has been placed in the EPA weight-of-evidence classification A, human carcinogen. Chromium III is not classified as a carcinogen by EPA.

1.15 Lead

Unborn children and young children are particularly sensitive to the adverse effects of exposure to lead. Exposure to a fetus through its mother may cause premature births, lower birth weight, and decreased mental ability of the infant. Lead exposure is dangerous for young children because they absorb lead at a greater rate than adults, retain more of the lead they ingest, and are more sensitive to its effects. The fate of lead in the body depends in part on the amount and rate of previous exposures, the age of the receptor, nutritional status, and the rate of exposure. The principal effects of acute oral exposure are colic, anemia, and, in severe cases, acute encephalopathy (particularly in children). Long-term exposure may result in neurological and hematological effects. Effects include decreased intelligence and decreased growth. Some of the effects on the blood and subtle neurobehavioral changes in children occur at levels so low

as to be considered non-threshold effects. For this reason, EPA does not support development of an RfD. Rather, exposures to lead are evaluated through models designed to predict blood lead levels.

Rat and mouse studies have shown increases in renal tumors, but the human studies have yielded inconclusive results that failed to account for the presence of other potentially carcinogenic materials. EPA has classified lead as a B2 carcinogen based on the results of animal studies; however, no CSF has been accepted by EPA.

1.16 Manganese

Manganese is an essential trace element in humans that can elicit a variety of serious toxic responses upon prolonged exposure to elevated concentrations either orally or by inhalation. The central nervous system is the primary target. Initial symptoms are headache, insomnia, disorientation, anxiety, lethargy, and memory loss. These symptoms progress with continued exposure and eventually include motor disturbances, tremors, and difficulty in walking, symptoms similar to those seen with Parkinsonism. These motor difficulties are often irreversible. Effects on reproduction (decreased fertility, impotence) have been observed in humans with inhalation exposure and in animals with oral exposure at the same or similar doses that initiate the central nervous system effects. An increased incidence of coughs, colds, dyspnea during exercise, bronchitis, and altered lung ventilatory parameters have also been seen in humans and animals with inhalation exposure. EPA publishes both an RfD and an RfC.

1.17 Nickel

Most nickel is used for production of stainless steel and other nickel alloys with high corrosion and temperature resistance.

The major adverse effects of nickel in man are dermatitis, chemical pneumonitis, and lung and nasal cancers. Nickel metal is a well-known cause of contact dermatitis in sensitized individuals. The EPA has not published an oral RfD or an inhalation RfC for exposure to nickel; however, chronic effects such as rhinitis, sinusitis, nasal septal perforations and asthma have been reported in nickel refinery and nickel plating workers.

The EPA's Weight-of-Evidence Characterization for Nickel is B2, probable human carcinogen. Human carcinogenicity data are inadequate for determining the relationship between nickel exposure and excess cancer in humans. Cancer rates have been reported as close to normal (not in excess) in stainless steel welding and nickel using industries, with the exception of those involving exposure to chromium. However, an animal inhalation study of sufficient quality found nickel to be carcinogenic in animals in the lung.

1.18 Thallium

Thallium, a naturally occurring elemental metal, is commonly found in minerals and as thallium salts. It can also be released into the environment from industrial sources. Atmospheric thallium contaminates surface soils by deposition allowing for the exposure of humans by oral, dermal, or inhalation routes.

The primary targets of thallium toxicity are the nervous, integumentary, and reproductive systems. In humans, acute exposures produce paresthesia, retrobulbar neuritis, ataxia, delirium, tremors, and hallucinations. This implies central, peripheral, and autonomic nervous system involvement. Human and animal chronic exposures result in alterations of the brain, spinal cord, and peripheral. In both humans and animals, alopecia is the most common indicator of long-term thallium poisoning. An increased incidence of congenital malformations was found in children of parents exposed to thallium through the consumption of home-grown fruits and vegetables. However, a causal relationship between these effects and thallium exposure could not be confirmed. In animal studies, thallium compounds produced testicular effects in male rats and slight fetal toxicity and significant impairment of learning ability in the offspring of treated female rats. Reference doses (RfDs) have been calculated for subchronic and chronic oral exposure to several thallium compounds based on a single study performed on rats.

1.19 Vanadium

The principle use of vanadium is as an alloying addition to iron and steel, particularly in high strength steels, and to a lesser extent, in tool steels and castings. It also occurs in nature as a white-to-gray metal and is often found as crystals. Vanadium is mostly combined with other metals to make alloys.

Vanadium compounds are poorly absorbed through the digestive system, but slightly more readily absorbed through the lungs.

The major effects from breathing high levels of vanadium are on the lungs, throat, and eyes. Similar effects have been seen in animal studies. No other significant health effects of vanadium have been found in humans. The health effects in humans ingesting vanadium are not known. The chronic RfD for vanadium published by EPA is based on a main effect of decreased hair cystine due to vanadium exposure. The RfD is based on a study of rat populations. The only significant change reported was a decrease in the amount of cystine in the hair of animals ingesting vanadium. The RfD was derived from the NOAEL in this study. The NOAEL and main effect observed in this study are supported by a subchronic feeding study as well.

There is no evidence that any vanadium compound is carcinogenic; however, very few adequate studies are available for evaluation. No increase in tumors was noted in a long-term animal study where the animals were exposed to vanadium in drinking water.

1.20 Zinc

Zinc is a nutritionally required trace element. Distribution of absorbed zinc is primarily to the liver, with subsequent redistribution to bone, muscle, and kidney. Highest tissue concentrations are found in the prostate. The half-life of zinc absorbed from the gastro- intestinal (GI) tracts of humans in normal zinc homeostasis is approximately 162 to 500 days.

Orally, zinc exhibits a low order of acute toxicity. Animals dosed with 100 times dietary requirement showed no evidence of toxicity. In humans, acute poisoning from foods or beverages prepared in galvanized containers is characterized by GI upset. Chronic oral toxicity in animals is associated with poor growth, GI inflammation, arthritis, lameness, and anemia, possibly secondary to copper deficiency.

Appendix B-8

Relative Order of Potency for PAHs

TABLE 1
ESTIMATED ORDERS OF POTENTIAL POTENCY FOR CARCINOGENIC PAHs[1]
RAYMARK OU6
STRATFORD, CONNECTICUT

`

Chemical	Weight-of-Evidence	Order of Potential Potency
Benzo(a)anthracene	B2	0.1
Benzo(b)fluoranthene	B2	0.1
Benzo(k)fluoranthene	B2	0.01
Benzo(a)pyrene	B2	1.0
Chrysene	B2	0.001
Dibenzo(a,h)anthracene	B2	1.0
Indeno(1,2,3-cd)pyrene	B2	0.1

1 USEPA, July 1993; USEPA Region I, 1994.

Appendix B-9

Alternative Calculation of Cancer Risks from Dioxin

TABLE 8.1A RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	6.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.03E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	5.2E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.82E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.34E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	8.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.90E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.33E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	5.3E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	8.55E-07
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.1E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.08E-05
	Antimony	51.4	mg/kg	51.4	mg/kg	M	6.1E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.0E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.95E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	3.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.64E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.32E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	4.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.27E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.72E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	6.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.06E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.23E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	8.2E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	8.23E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	7.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.18E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.65E-05
										Total of Routes	7.29E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.1B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.90E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	3.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.20E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.50E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.40E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.10E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.66E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	3.1E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.93E-07
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	1.2E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.80E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	3.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.43E-06
	Barium	3770	mg/kg	3770	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	2.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	2.7E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.66E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.14E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	2.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.76E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.70E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.28E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.9E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.30E-07
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.10E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	8.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.78E-06
										Total of Routes	2.33E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Existing dioxin CSF used for risk calculation.

TABLE 8.1C RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	9.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.76E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	7.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.13E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	8.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.83E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.93E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	3.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.56E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	8.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.79E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	7.2E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.15E-06
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	2.8E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.79E-05
	Antimony	51.4	mg/kg	51.4	mg/kg	M	8.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	5.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.00E-06
	Barium	3770	mg/kg	3770	mg/kg	M	6.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	5.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	3.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	6.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	2.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	6.4E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	1.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.24E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.46E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	2.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.87E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	2.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.12E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.89E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.34E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.01E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.35	µg/kg	0.35	µg/kg	M	4.7E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	4.69E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.72E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.5E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.51E-05
										Total of Routes	7.75E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.3 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	1300	µg/kg	1300	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.27E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.27E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	9.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.54E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.76E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.28E-05
	Dioxin TEQ(2)	20.1	µg/kg	20.1	µg/kg	M	9.5E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	9.48E-04
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	6.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-06
	Barium	16700	mg/kg	16700	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	3.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.01E-03
Dermal	Acetophenone	1300	µg/kg	1300	µg/kg	M	8.1E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.38E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.38E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	4.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.55E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	7.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.61E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.36E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.88E-05
	Dioxin TEQ(2)	20.1	µg/kg	20.1	µg/kg	M	3.8E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	3.76E-04
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	16700	mg/kg	16700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.32E-04
										Total of Routes	1.44E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.4 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	9400	µg/kg	9400	µg/kg	M	2.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.79E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.9E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.39E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.61E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.02E-06
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.81E-05
	Dioxin TEQ(2)	2.6	µg/kg	2.6	µg/kg	M	3.2E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	3.18E-04
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.11E-06
	Barium	14500	mg/kg	14500	mg/kg	M	3.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	13000	mg/kg	13000	mg/kg	M	3.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.36E-04
Dermal	Acetophenone	9400	µg/kg	9400	µg/kg	M	1.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.5E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.6E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.67E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.73E-07
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.14E-05
	Dioxin TEQ(2)	2.6	µg/kg	2.6	µg/kg	M	1.3E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.26E-04
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	5.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.14E-07
	Barium	14500	mg/kg	14500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	13000	mg/kg	13000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.31E-04
										Total of Routes	6.67E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.5 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 Ferry Blvd
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	330	µg/kg	330	µg/kg	M	9.0E-08	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.60E-08
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	5.5E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.6E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.58E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	1.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.76E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.99E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	3.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.00E-05
	Dioxin TEQ(2)	4	µg/kg	4	µg/kg	M	5.5E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	5.45E-04
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.19E-06
	Barium	9290	mg/kg	9290	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	41700	mg/kg	41700	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.59E-04
Dermal	Trichloroethene	330	µg/kg	330	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	4.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.41E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.0E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.90E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.07E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	9.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.66E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.3E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.71E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	2.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.54E-05
	Dioxin TEQ(2)	4	µg/kg	4	µg/kg	M	2.2E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.16E-04
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	4.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.31E-07
	Barium	9290	mg/kg	9290	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	41700	mg/kg	41700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.16E-04
										Total of Routes	9.75E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.6 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	180	µg/kg	180	µg/kg	M	4.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.23E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.36E-04
	Dioxin TEQ(2)	0.6	µg/kg	0.6	µg/kg	M	7.0E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	7.02E-05
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.67E-06
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	2.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	46000	mg/kg	46000	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.10E-04
Dermal	Acetophenone	180	µg/kg	180	µg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.92E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.25E-04
	Dioxin TEQ(2)	0.6	µg/kg	0.6	µg/kg	M	2.8E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.78E-05
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	3.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.28E-07
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	7.3E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	46000	mg/kg	46000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.55E-04
										Total of Routes	3.64E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.7 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lot Behind 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.01E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.61E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	1.8E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.89E-07
	Dioxin TEQ(2)	2.5	µg/kg	2.5	µg/kg	M	1.9E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.88E-04
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	1.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.94E-06
	Barium	10500	mg/kg	10500	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.57E-04
Dermal	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	9.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.87E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.11E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	2.5	µg/kg	2.5	µg/kg	M	7.4E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	7.44E-05
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	2.6E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.84E-07
	Barium	10500	mg/kg	10500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.37E-04
										Total of Routes	3.94E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.8A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.45E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	9.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.01E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.11E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	4.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.39E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	7.1E-07	mg/kg-day	3.0E-01	1/(mg/kg-day)	2.14E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.98E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	2.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	8.1E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	8.14E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	1.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.74E-06
	Barium	12900	mg/kg	12900	mg/kg	M	2.0E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	2.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	5.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	6.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	9.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	7.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										8.45E-04
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.93E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	4.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.35E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	5.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.64E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.75E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.76E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	8.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.71E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	5.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	1.9E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.95E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.09E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.11E-04
										Total of Routes	1.06E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.8B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-06
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.50E-05
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-06
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	3.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.59E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.92E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.7E-06	mg/kg-day	3.0E-01	1/(mg/kg-day)	4.99E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.63E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	6.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	1.9E-09	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.90E-03
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.07E-06
	Barium	12900	mg/kg	12900	mg/kg	M	4.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	5.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	1.3E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	2.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	1.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.97E-03
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	8.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.44E-07
	Benzo(a)pyrene	5700		5700	µg/kg	M	7.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.48E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	8.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.96E-07
	Dibenzo(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.42E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	3.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.79E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.81E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ(2)	10.5	µg/kg	10.5	µg/kg	M	3.2E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	3.19E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.42E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.46E-04
										Total of Routes	2.32E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.9 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.63E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.63E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	1.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.40E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.80E-07
	Dioxin TEQ(2)	0.031	µg/kg	0.031	µg/kg	M	5.4E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	5.42E-07
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.03E-07
	(Total)										2.13E-06
Dermal	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.69E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.69E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	8.7E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.35E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.58E-07
	Dioxin TEQ(2)	0.031	µg/kg	0.031	µg/kg	M	2.1E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.14E-07
	Arsenic	9.6	mg/kg	9.6	mg/kg	M	6.6E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.96E-08
	(Total)										1.26E-06
										Total of Routes	3.39E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.10 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.43E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	4.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.11E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	6.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.20E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	1.4E-07	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.30E-06
	Dioxin TEQ(2)	16.8	µg/kg	16.8	µg/kg	M	1.2E-09	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.23E-03
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	2.9E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.34E-06
	Barium	17000	mg/kg	17000	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	8.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	3.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.36E-03
Dermal	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.94E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	5.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	16.8	µg/kg	16.8	µg/kg	M	4.9E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	4.88E-04
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	5.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.59E-07
	Barium	17000	mg/kg	17000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.03E-04
										Total of Routes	1.97E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.11 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	120	µg/kg	120	µg/kg	M	8.8E-09	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.52E-09
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.93E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.68E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.18E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	6.3E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.26E-05
	Dioxin TEQ(2)	0.45	µg/kg	0.45	µg/kg	M	1.7E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.65E-05
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	4.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.81E-06
	Barium	10900	mg/kg	10900	mg/kg	M	8.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.79E-05
Dermal	Trichloroethene	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.65E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.15E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.30E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.01E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	5.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-05
	Dioxin TEQ(2)	0.45	µg/kg	0.45	µg/kg	M	6.5E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	6.54E-06
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	9.0E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.35E-06
	Barium	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.12E-05
										Total of Routes	5.91E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.12 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	7.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.28E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.18E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	7.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-06
	Dioxin TEQ(2)	0.087	µg/kg	0.087	µg/kg	M	1.4E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.37E-06
	Arsenic	12	mg/kg	12	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.66E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	1.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	1.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.08E-06
Dermal	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	6.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.53E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	8.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.50E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.88E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	6.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.34E-06
	Dioxin TEQ(2)	0.087	µg/kg	0.087	µg/kg	M	5.4E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	5.42E-07
	Arsenic	12	mg/kg	12	mg/kg	M	7.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.12E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.59E-06
										Total of Routes	6.66E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.13B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	4.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.24E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.65E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	5.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.98E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.73E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.10E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	2.6E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.63E-06
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.67E-06
	Barium	768	mg/kg	768	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	3.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.00E-05
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.68E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	1.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.38E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.18E-08
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.06E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	6.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.05E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	5.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.3E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	6.29E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.99E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.89E-06
										Total of Routes	1.39E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF used for risk calculation.

TABLE 8.13C RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.57E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	8.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.19E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.29E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.27E-07
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	2.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.90E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.1E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	6.13E-06
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.89E-06
	Barium	768	mg/kg	768	mg/kg	M	3.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	8.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.34E-05
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.75E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.25E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	4.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.26E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	9.6E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.92E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	1.0E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.03E-06
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.27E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.38E-06
										Total of Routes	2.98E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF used for risk calculation.

TABLE 8.14 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	300	µg/kg	300	µg/kg	M	4.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	4.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.14E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.57E-04
	Dioxin TEQ(2)	0.47	µg/kg	0.47	µg/kg	M	3.6E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	3.61E-05
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	2.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.71E-06
	Barium	8110	mg/kg	8110	mg/kg	M	1.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	1.2E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	6.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	2.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.97E-04
Dermal	Acetophenone	300	µg/kg	300	µg/kg	M	3.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	3.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.70E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.2E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-04
	Dioxin TEQ(2)	0.47	µg/kg	0.47	µg/kg	M	1.4E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.43E-05
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	4.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.35E-07
	Barium	8110	mg/kg	8110	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.60E-04
										Total of Routes	3.57E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.17 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	4.5E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.32E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.94E-08
	Arsenic	10	mg/kg	10	mg/kg	M	3.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.24E-08
	Chromium	337	mg/kg	337	mg/kg	M	1.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	3.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.15E-07
Dermal	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	3.9E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.85E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.4E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.71E-08
	Arsenic	10	mg/kg	10	mg/kg	M	6.9E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.04E-08
	Chromium	337	mg/kg	337	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.60E-08
										Total of Routes	1.81E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.20A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	3.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.42E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.7E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.98E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.64E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.53E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.70E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.17E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	1.2E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.18E-04
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	6.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.03E-06
	Barium	19700	mg/kg	19700	mg/kg	M	5.9E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	3.0E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	5.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	8.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.26E-04
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	1.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.26E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	1.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.03E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.37E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	2.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.83E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.80E-08
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.2E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.33E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	2.8E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.82E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	8.2E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.24E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	1.2E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.22E-05
										Total of Routes	1.58E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.20B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	7.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.66E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	6.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.63E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	8.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.17E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.23E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.96E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	4.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	9.72E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	2.7E-10	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.75E-04
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.41E-06
	Barium	19700	mg/kg	19700	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	7.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	5.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	5.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.94E-04
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	2.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.06E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.68E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.25E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.00E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.44E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.81E-06
	Dioxin TEQ(2)	7.8	µg/kg	7.8	µg/kg	M	4.6E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	4.62E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	2.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.27E-05
										Total of Routes	3.47E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.21 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: One Beacon Point Road
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.79E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-07
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	6.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.46E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.16E-07
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	4.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.39E-07
	Dioxin TEQ(2)	0.77	µg/kg	0.77	µg/kg	M	6.7E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	6.73E-06
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	6.8E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-07
	Chromium	4270	mg/kg	4270	mg/kg	M	7.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	7220	mg/kg	7220	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.04E-05
Dermal	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.53E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.31E-07
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	5.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.83E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.96E-08
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	3.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.75E-07
	Dioxin TEQ(2)	0.77	µg/kg	0.77	µg/kg	M	2.7E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.66E-06
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	1.3E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-08
	Chromium	4270	mg/kg	4270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	7220	mg/kg	7220	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.77E-06
										Total of Routes	1.61E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.22 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Airport Property North of Marine Basin
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.68E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.43E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	7.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.54E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	9.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.61E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	6.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.64E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.91E-07
	Lead	8130	mg/kg	8130	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.12E-05
Dermal	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	9.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.59E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	7.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.52E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	6.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.75E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	7.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.67E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	5.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	2.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.78E-08
	Lead	8130	mg/kg	8130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.49E-06
										Total of Routes	2.07E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.23A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	6.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	5.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.41E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.12E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.06E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.40E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	3.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.23E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.52E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.76E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	8.1E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	8.05E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	4.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.76E-08
	Barium	13100	mg/kg	13100	mg/kg	M	1.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	6.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	2.6E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	1.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.05E-05
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	2.4E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	2.7E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.32E-08
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.79E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	7.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.49E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	6.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.88E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	1.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.16E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.87E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	1.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.78E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	1.9E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.93E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	5.4E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.10E-09
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.21E-06
										Total of Routes	1.37E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.23B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	4.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.29E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.61E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.19E-07
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	7.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.21E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.29E-07
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	7.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.58E-06
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	1.9E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.88E-05
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.58E-07
	Barium	13100	mg/kg	13100	mg/kg	M	2.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	4.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.46E-05
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	3.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	4.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.48E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.99E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.99E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	2.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.90E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	6.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.69E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.1E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.19E-07
	Dioxin TEQ(2)	2	µg/kg	2	µg/kg	M	3.2E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	3.16E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	8.8E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.33E-08
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										5.26E-06
										Total of Routes	2.98E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.24A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	8.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.55E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.76E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	7.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.14E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	7.3E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.35E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	3.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.0E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.03E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	1.1E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.80E-08
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	2.1E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.11E-07
	Antimony	4.2	mg/kg	4.2	mg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	3.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.99E-07
	Barium	9930	mg/kg	9930	mg/kg	M	2.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	4.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	8.8E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	1.2E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.52E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	3.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.99E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	3.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	3.8E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.77E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	1.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.28E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	5.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.13E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	5.1E-14	mg/kg-day	1.0E+06	1/(mg/kg-day)	5.06E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	4.0E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.97E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.64E-06
										Total of Routes	5.16E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.24B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.25E-07
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	7.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.76E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.4E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.73E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	2.6E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.21E-08
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	4.9E-13	mg/kg-day	1.0E+06	1/(mg/kg-day)	4.93E-07
	Antimony	4.2	mg/kg	4.2	mg/kg	M	2.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	7.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.16E-06
	Barium	9930	mg/kg	9930	mg/kg	M	6.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	1.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	7.7E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	2.9E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	4.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										8.21E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	5.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	6.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.72E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	6.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.89E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	6.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.37E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	6.2E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.54E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	2.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.10E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	9.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.86E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ(2)	0.015	µg/kg	0.015	µg/kg	M	8.3E-14	mg/kg-day	1.0E+06	1/(mg/kg-day)	8.28E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	6.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.78E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.68E-06
										Total of Routes	1.09E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.
(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 9.1A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER CONTACT WITH SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.03E-07	--	4.32E-07	9.35E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.82E-06	--	3.27E-06	7.09E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.34E-07	--	3.72E-07	8.06E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.90E-07	--	5.06E-07	1.10E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.91E-07	--	1.64E-07	3.55E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.33E-05	--	1.23E-05	2.56E-05	Aroclor, Total	Skin/Eyes/Immune	9.32E-01	--	8.61E-01	1.79E+00
			Dieldrin	8.55E-07	--	--	8.55E-07	Dieldrin	Liver	2.99E-03	--	--	2.99E-03
			Dioxin TEQ	2.08E-05	--	8.23E-06	2.90E-05	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	4.27E-02	--	--	4.27E-02
			Arsenic	5.95E-06	--	1.18E-06	7.13E-06	Arsenic	Skin	3.70E-02	--	7.33E-03	4.44E-02
			Cadmium	--	--	--	--	Cadmium	Blood	1.08E-02	--	2.86E-03	1.37E-02
			Chromium	--	--	--	--	Chromium	None	2.23E-01	--	--	2.23E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Thallium	--	--	--	--	Thallium	None	1.66E-02	--	--	1.66E-02
			(Total)	4.64E-05	0.00E+00	2.65E-05	7.29E-05	(Total)		1.26E+00	0.00E+00	8.71E-01	2.14E+00
						Total Risk Across Soil	7.29E-05					Total Hazard Index Across Soil	2.14E+00
						Total Risk Across All Media and All Exposure Routes	7.29E-05					Total Hazard Index Across All Media and All Exposure Routes	2.14E+00

Total Skin HI =	1.84E+00
Total Eye/Immune HI =	1.79E+00
Total Liver HI =	2.99E-03
Total Blood HI =	5.64E-02

TABLE 9.1B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.90E-07	--	1.50E-07	4.40E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.20E-06	--	1.14E-06	3.34E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.50E-07	--	1.30E-07	3.79E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.40E-07	--	1.76E-07	5.16E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.10E-07	--	5.70E-08	1.67E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	7.66E-06	--	4.28E-06	1.19E-05	Aroclor, Total	Skin/Eyes/Immune	5.59E-01	--	3.12E-01	8.71E-01
			Dieldrin	4.93E-07	--	--	4.93E-07	Dieldrin	Liver	1.80E-03	--	--	1.80E-03
			Dioxin TEQ	1.20E-05	--	2.87E-06	1.48E-05	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	2.56E-02	--	--	2.56E-02
			Arsenic	3.43E-06	--	4.10E-07	3.84E-06	Arsenic	Skin	2.22E-02	--	2.66E-03	2.49E-02
			Barium	--	--	--	--	Barium	Kidney	1.08E-02	--	--	1.08E-02
			Cadmium	--	--	--	--	Cadmium	Blood	6.51E-03	--	1.04E-03	7.55E-03
			Chromium	--	--	--	--	Chromium	None	1.34E-01	--	--	1.34E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.65E-04	--	--	5.65E-04
			Nickel	--	--	--	--	Nickel	Body Weight	1.57E-03	--	--	1.57E-03
			Thallium	--	--	--	--	Thallium	None	9.98E-03	--	--	9.98E-03
			Vanadium	--	--	--	--	Vanadium	Hair	2.48E-03	--	--	2.48E-03
			Zinc	--	--	--	--	Zinc	Blood	1.30E-03	--	--	1.30E-03
			(Total)	2.68E-05	0.00E+00	9.21E-06	3.60E-05	(Total)		7.75E-01	0.00E+00	3.16E-01	1.09E+00
						Total Risk Across Soil	3.60E-05					Total Hazard Index Across Soil	1.09E+00
						Total Risk Across All Media and All Exposure Routes	3.60E-05					Total Hazard Index Across All Media and All Exposure Routes	1.09E+00

Total Skin HI =	8.96E-01
Total Eye/Immune HI =	8.71E-01
Total Liver HI =	1.80E-03
Total Blood HI =	3.45E-02
Total Kidney HI =	1.08E-02
Total CNS HI =	5.65E-04
Total Hair HI =	2.48E-03

TABLE 9.1C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.76E-07	--	2.46E-07	9.22E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	5.13E-06	--	1.87E-06	7.00E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.83E-07	--	2.12E-07	7.95E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.93E-07	--	2.89E-07	1.08E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.56E-07	--	9.34E-08	3.50E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.79E-05	--	7.01E-06	2.49E-05	Aroclor, Total	Skin/Eyes/Immune	5.22E+00	--	2.04E+00	7.26E+00
			Dieldrin	1.15E-06	--	--	1.15E-06	Dieldrin	Liver	1.68E-02	--	--	1.68E-02
			Dioxin TEQ	2.79E-05	--	4.69E-06	3.26E-05	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	2.39E-01	--	--	2.39E-01
			Arsenic	8.00E-06	--	6.72E-07	8.67E-06	Arsenic	Skin	2.07E-01	--	1.74E-02	2.25E-01
			Barium	--	--	--	--	Barium	Kidney	1.00E-01	--	--	1.00E-01
			Cadmium	--	--	--	--	Cadmium	Blood	6.07E-02	--	6.80E-03	6.75E-02
			Chromium	--	--	--	--	Chromium	None	1.25E+00	--	--	1.25E+00
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.27E-03	--	--	5.27E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.46E-02	--	--	1.46E-02
			Thallium	--	--	--	--	Thallium	None	9.32E-02	--	--	9.32E-02
			Vanadium	--	--	--	--	Vanadium	Hair	2.32E-02	--	--	2.32E-02
			Zinc	--	--	--	--	Zinc	Blood	1.21E-02	--	--	1.21E-02
			(Total)	6.24E-05	0.00E+00	1.51E-05	7.75E-05	(Total)		7.24E+00	0.00E+00	2.07E+00	9.31E+00
						Total Risk Across Soil	7.75E-05					Total Hazard Index Across Soil	9.31E+00
						Total Risk Across All Media and All Exposure Routes	7.75E-05					Total Hazard Index Across All Media and All Exposure Routes	9.31E+00

Total Skin HI =	7.49E+00
Total Eye/Immune HI =	7.26E+00
Total Liver HI =	1.68E-02
Total Blood HI =	3.19E-01
Total Kidney HI =	1.00E-01
Total CNS HI =	5.27E-03
Total Hair HI =	2.32E-02

TABLE 9.3 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	3.43E-06	--	2.27E-06	5.70E-06
			Benzo(a)anthracene	6.27E-07	--	5.38E-07	1.16E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.27E-06	--	5.38E-06	1.16E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.13E-07	--	3.55E-07	7.68E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.54E-07	--	5.61E-07	1.22E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.76E-07	--	2.36E-07	5.12E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	5.28E-05	--	4.88E-05	1.02E-04	Aroclor, Total	Skin/Eyes/Immune	3.70E+00	--	3.42E+00	7.12E+00
			Dioxin TEQ	9.48E-04	--	3.76E-04	1.32E-03	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-06	--	2.02E-07	1.22E-06	Arsenic	Skin	6.34E-03	--	1.26E-03	7.60E-03
			Barium	--	--	--	--	Barium	Kidney	6.30E-02	--	--	6.30E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.01E-03	0.00E+00	4.32E-04	1.44E-03	(Total)		3.78E+00	0.00E+00	3.42E+00	7.20E+00
						Total Risk Across Soil	1.44E-03					Total Hazard Index Across Soil	7.20E+00
						Total Risk Across All Media and All Exposure Routes	1.44E-03					Total Hazard Index Across All Media and All Exposure Routes	7.20E+00

Total Skin HI =	7.12E+00
Total Eye/Immune HI =	7.12E+00
Total General HI =	5.70E-06

TABLE 9.4 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	6.44E-05	--	4.25E-05	1.07E-04
			Benzo(a)anthracene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-05	--	1.84E-05	3.98E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.39E-06	--	1.20E-06	2.59E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.61E-07	--	5.67E-07	1.23E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.02E-06	--	8.73E-07	1.89E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.81E-05	--	8.14E-05	1.69E-04	Aroclor, Total	Skin/Eyes/Immune	6.16E+00	--	5.70E+00	1.19E+01
			Dioxin TEQ	3.18E-04	--	1.26E-04	4.44E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.11E-06	--	8.14E-07	4.92E-06	Arsenic	Skin	2.56E-02	--	5.06E-03	3.06E-02
			Barium	--	--	--	--	Barium	Kidney	1.42E-01	--	--	1.42E-01
			Chromium	--	--	--	--	Chromium	None	1.97E-02	--	--	1.97E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	4.36E-04	0.00E+00	2.31E-04	6.67E-04	(Total)		6.35E+00	0.00E+00	5.70E+00	1.21E+01
						Total Risk Across Soil	6.67E-04					Total Hazard Index Across Soil	1.21E+01
						Total Risk Across All Media and All Exposure Routes	6.67E-04					Total Hazard Index Across All Media and All Exposure Routes	1.21E+01

Total Skin HI =	1.19E+01
Total Eye/Immune HI =	1.19E+01
Total Kidney HI =	1.42E-01
Total General HI =	1.07E-04

TABLE 9.5 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Trichloroethene	3.60E-08	--	--	3.60E-08	Trichloroethene	Liver/Kidney	8.40E-04	--	--	8.40E-04
			Acetophenone	--	--	--	--	Acetophenone	General	5.34E-05	--	3.53E-05	8.87E-05
			Benzo(a)anthracene	3.98E-06	--	3.41E-06	7.39E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.38E-05	--	2.90E-05	6.28E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.58E-06	--	3.07E-06	6.65E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.76E-06	--	6.66E-06	1.44E-05	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.99E-06	--	1.71E-06	3.70E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.00E-05	--	5.54E-05	1.15E-04	Aroclor, Total	Skin/Eyes/Immune	4.20E+00	--	3.88E+00	8.08E+00
			Dioxin TEQ	5.45E-04	--	2.16E-04	7.61E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.19E-06	--	6.31E-07	3.82E-06	Arsenic	Skin	1.98E-02	--	3.93E-03	2.38E-02
			Barium	--	--	--	--	Barium	Kidney	1.01E-01	--	--	1.01E-01
			Chromium	--	--	--	--	Chromium	None	3.46E-02	--	--	3.46E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	6.59E-04	0.00E+00	3.16E-04	9.75E-04	(Total)		4.35E+00	0.00E+00	3.88E+00	8.24E+00
						Total Risk Across Soil	9.75E-04					Total Hazard Index Across Soil	8.24E+00
						Total Risk Across All Media and All Exposure Routes	9.75E-04					Total Hazard Index Across All Media and All Exposure Routes	8.24E+00

Total Skin HI =	8.10E+00
Total Eye/Immune HI =	8.08E+00
Total Kidney HI =	1.02E-01
Total General HI =	8.87E-05
Total Liver HI =	8.40E-04

TABLE 9.6 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.18E-06	--	7.79E-07	1.96E-06
			Benzo(a)pyrene	9.23E-07	--	7.92E-07	1.71E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.36E-04	--	1.25E-04	2.61E-04	Aroclor, Total	Skin/Eyes/Immune	9.51E+00	--	8.78E+00	1.83E+01
			Dioxin TEQ	7.02E-05	--	2.78E-05	9.81E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.67E-06	--	5.28E-07	3.20E-06	Arsenic	Skin	1.66E-02	--	3.29E-03	1.99E-02
			Cadmium	--	--	--	--	Cadmium	Blood	3.10E-02	--	8.19E-03	3.92E-02
			Chromium	--	--	--	--	Chromium	None	1.90E-02	--	--	1.90E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	2.10E-04	0.00E+00	1.55E-04	3.64E-04	(Total)		9.57E+00	0.00E+00	8.79E+00	1.84E+01
							Total Risk Across Soil 3.64E-04						Total Hazard Index Across Soil 1.84E+01
							Total Risk Across All Media and All Exposure Routes 3.64E-04						Total Hazard Index Across All Media and All Exposure Routes 1.84E+01

Total Skin HI =	1.83E+01
Total Eye/Immune HI =	1.83E+01
Total General HI =	1.96E-06
Total Blood HI =	3.92E-02

TABLE 9.7 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	8.01E-07	--	6.87E-07	1.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.61E-05	--	6.11E-05	1.27E-04	Aroclor, Total	Skin/Eyes/Immune	4.63E+00	--	4.28E+00	8.90E+00
			Dieldrin	2.89E-07	--	--	2.89E-07	Dieldrin	Liver	1.01E-03	--	--	1.01E-03
			Dioxin TEQ	1.88E-04	--	7.44E-05	2.62E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.94E-06	--	3.84E-07	2.32E-06	Arsenic	Skin	1.21E-02	--	2.39E-03	1.44E-02
			Barium	--	--	--	--	Barium	Kidney	6.31E-02	--	--	6.31E-02
			Chromium	--	--	--	--	Chromium	None	1.47E-02	--	--	1.47E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	2.57E-04	0.00E+00	1.37E-04	3.94E-04	(Total)		4.72E+00	0.00E+00	4.28E+00	9.00E+00
						Total Risk Across Soil	3.94E-04					Total Hazard Index Across Soil	9.00E+00
						Total Risk Across All Media and All Exposure Routes	3.94E-04					Total Hazard Index Across All Media and All Exposure Routes	9.00E+00

Total Skin HI =	8.92E+00
Total Eye/Immune HI =	8.90E+00
Total Kidney HI =	6.31E-02
Total Liver HI =	1.01E-03

TABLE 9.8A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.58E-07	--	3.93E-07	1.15E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.45E-06	--	3.35E-06	9.79E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	7.01E-07	--	3.64E-07	1.07E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	1.11E-06	--	5.75E-07	1.68E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.39E-07	--	1.76E-07	5.15E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			4,4'-DDT	2.14E-07	--	1.71E-07	3.85E-07	4,4'-DDT	Liver	4.16E-03	--	4.98E-04	4.66E-03
			Aroclor, Total (Conservative)	1.98E-05	--	1.11E-05	3.09E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.45E+00	--	8.08E-01	2.25E+00
			Endrin Ketone	--	--	--	--	Endrin Ketone	Liver, CNS	2.86E-03	--	--	2.86E-03
			Dioxin TEQ	8.14E-04	--	1.95E-04	1.01E-03	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	7.35E-03	--	--	7.35E-03
			Arsenic	1.74E-06	--	2.09E-07	1.95E-06	Arsenic	Skin	1.13E-02	--	1.35E-03	1.27E-02
			Barium	--	--	--	--	Barium	Kidney	8.33E-02	--	--	8.33E-02
			Chromium	--	--	--	--	Chromium	None	2.23E-02	--	--	2.23E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.41E-03	--	--	1.41E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.31E-02	--	--	1.31E-02
			Vanadium	--	--	--	--	Vanadium	Hair	4.97E-03	--	--	4.97E-03
			Zinc	--	--	--	--	Zinc	Blood	7.13E-03	--	--	7.13E-03
			(Total)	8.45E-04	0.00E+00	2.11E-04	1.06E-03	(Total)		1.60E+00	0.00E+00	8.10E-01	2.41E+00
						Total Risk Across Soil	1.06E-03					Total Hazard Index Across Soil	2.41E+00
						Total Risk Across All Media and All Exposure Routes	1.06E-03					Total Hazard Index Across All Media and All Exposure Routes	2.41E+00

Total Skin HI =	2.27E+00
Total Eye/Immune HI =	2.25E+00
Total Kidney HI =	8.33E-02
Total Liver HI =	7.52E-03
Total Blood HI =	1.45E-02
Total CNS HI =	4.28E-03
Total Body Weight HI =	1.31E-02
Total Hair HI =	4.97E-03

TABLE 9.8B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.77E-06	--	6.44E-07	2.41E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.50E-05	--	5.48E-06	2.05E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.64E-06	--	5.96E-07	2.23E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.59E-06	--	9.42E-07	3.53E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	7.92E-07	--	2.88E-07	1.08E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			4,4'-DDT	4.99E-07	--	2.79E-07	7.79E-07	4,4'-DDT	Liver	3.88E-02	--	3.26E-03	4.21E-02
			Aroclor, Total (Conservative)	4.63E-05	--	1.81E-05	6.44E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.35E+01	--	5.29E+00	1.88E+01
			Endrin Ketone	--	--	--	--	Endrin Ketone	Liver, CNS	2.67E-02	--	--	2.67E-02
			Dioxin TEQ	1.90E-03	--	3.19E-04	2.22E-03	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	6.86E-02	--	--	6.86E-02
			Arsenic	4.07E-06	--	3.42E-07	4.41E-06	Arsenic	Skin	1.05E-01	--	8.86E-03	1.14E-01
			Barium	--	--	--	--	Barium	Kidney	7.78E-01	--	--	7.78E-01
			Chromium	--	--	--	--	Chromium	None	2.08E-01	--	--	2.08E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.32E-02	--	--	1.32E-02
			Nickel	--	--	--	--	Nickel	Body Weight	1.22E-01	--	--	1.22E-01
			Vanadium	--	--	--	--	Vanadium	Hair	4.64E-02	--	--	4.64E-02
			Zinc	--	--	--	--	Zinc	Blood	6.65E-02	--	--	6.65E-02
			(Total)	1.97E-03	0.00E+00	3.46E-04	2.32E-03	(Total)		1.50E+01	0.00E+00	5.30E+00	2.03E+01
						Total Risk Across Soil	2.32E-03					Total Hazard Index Across Soil	2.03E+01
						Total Risk Across All Media and All Exposure Routes	2.32E-03					Total Hazard Index Across All Media and All Exposure Routes	2.03E+01

Total Skin HI =	1.89E+01
Total Eye/Immune HI =	1.88E+01
Total Kidney HI =	7.78E-01
Total Liver HI =	6.88E-02
Total Blood HI =	1.35E-01
Total CNS HI =	3.99E-02
Total Body Weight HI =	1.22E-01
Total Hair HI =	4.64E-02

TABLE 9.9 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.63E-08	--	5.69E-08	1.23E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.63E-07	--	5.69E-07	1.23E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.40E-08	--	6.35E-08	1.37E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	2.80E-07	--	2.58E-07	5.38E-07	Aroclor, Total	Skin/Eyes/Immune	1.96E-02	--	1.81E-02	3.77E-02
			Dioxin TEQ	5.42E-07	--	2.14E-07	7.56E-07	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	5.03E-07	--	9.96E-08	6.03E-07	Arsenic	Skin	3.13E-03	--	6.20E-04	3.75E-03
			(Total)	2.13E-06	0.00E+00	1.26E-06	3.39E-06	(Total)		2.27E-02	0.00E+00	1.87E-02	4.14E-02
						Total Risk Across Soil	3.39E-06					Total Hazard Index Across Soil	4.14E-02
						Total Risk Across All Media and All Exposure Routes	3.39E-06					Total Hazard Index Across All Media and All Exposure Routes	4.14E-02

Total Skin HI = 4.14E-02
Total Eye/Immune HI = 3.77E-02

TABLE 9.10 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.43E-07	--	2.94E-07	6.37E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-06	--	1.84E-06	3.98E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	3.11E-07	--	2.67E-07	5.77E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Aroclor, Total	1.20E-04	--	1.11E-04	2.32E-04	Aroclor, Total	Skin/Eyes/Immune	8.42E+00	--	7.78E+00	1.62E+01
			Dieldrin	2.30E-06	--	--	2.30E-06	Dieldrin	Liver	8.05E-03	--	--	8.05E-03
			Dioxin TEQ	1.23E-03	--	4.88E-04	1.72E-03	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.34E-06	--	8.59E-07	5.20E-06	Arsenic	Skin	2.70E-02	--	5.34E-03	3.23E-02
			Barium	--	--	--	--	Barium	Kidney	9.98E-02	--	--	9.98E-02
			Chromium	--	--	--	--	Chromium	None	8.16E-02	--	--	8.16E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Thallium	--	--	--	--	Thallium	None	1.70E-02	--	--	1.70E-02
			(Total)	1.36E-03	0.00E+00	6.03E-04	1.97E-03	(Total)		8.66E+00	0.00E+00	7.79E+00	1.64E+01
						Total Risk Across Soil	1.97E-03					Total Hazard Index Across Soil	1.64E+01
						Total Risk Across All Media and All Exposure Routes	1.97E-03					Total Hazard Index Across All Media and All Exposure Routes	1.64E+01

Total Skin HI =	1.62E+01
Total Eye/Immune HI =	1.62E+01
Total Kidney HI =	9.98E-02
Total Liver HI =	8.05E-03

TABLE 9.11 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Trichloroethene	3.52E-09	--	--	3.52E-09	Trichloroethene	Liver/Kidney	8.22E-05	--	--	8.22E-05
			Benzo(a)anthracene	1.93E-07	--	1.65E-07	3.58E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	1.15E-06	2.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.68E-07	--	2.30E-07	4.98E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.18E-07	--	1.01E-07	2.19E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.26E-05	--	1.17E-05	2.43E-05	Aroclor, Total	Skin/Eyes/Immune	8.84E-01	--	8.16E-01	1.70E+00
			Dioxin TEQ	1.65E-05	--	6.54E-06	2.31E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.81E-06	--	1.35E-06	8.16E-06	Arsenic	Skin	4.24E-02	--	8.39E-03	5.08E-02
			Barium	--	--	--	--	Barium	Kidney	3.20E-02	--	--	3.20E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	8.84E-03	--	--	8.84E-03
			(Total)	3.79E-05	0.00E+00	2.12E-05	5.91E-05	(Total)		9.82E-01	0.00E+00	8.25E-01	1.81E+00
						Total Risk Across Soil	5.91E-05					Total Hazard Index Across Soil	1.81E+00
						Total Risk Across All Media and All Exposure Routes	5.91E-05					Total Hazard Index Across All Media and All Exposure Routes	1.81E+00

Total Skin HI =	1.75E+00
Total Eye/Immune HI =	1.70E+00
Total Kidney HI =	3.21E-02
Total Liver HI =	8.22E-05
Total Blood HI =	8.84E-03

TABLE 9.12 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	5.28E-07	--	4.53E-07	9.81E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	7.58E-08	--	6.50E-08	1.41E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	9.18E-08	--	7.88E-08	1.71E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	1.45E-06	--	1.34E-06	2.78E-06	Aroclor, Total	Skin/Eyes/Immune	1.01E-01	--	9.36E-02	1.95E-01
			Dioxin TEQ	1.37E-06	--	5.42E-07	1.91E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	5.66E-07	--	1.12E-07	6.78E-07	Arsenic	Skin	3.52E-03	--	6.97E-04	4.22E-03
			Chromium	--	--	--	--	Chromium	None	1.57E-03	--	--	1.57E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	4.08E-06	0.00E+00	2.59E-06	6.66E-06	(Total)		1.06E-01	0.00E+00	9.43E-02	2.01E-01
							Total Risk Across Soil 6.66E-06						Total Hazard Index Across Soil 2.01E-01
							Total Risk Across All Media and All Exposure Routes 6.66E-06						Total Hazard Index Across All Media and All Exposure Routes 2.01E-01

Total Skin HI = 1.99E-01
Total Eye/Immune HI = 1.95E-01

TABLE 9.13B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.24E-07	--	1.68E-07	4.93E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.65E-06	--	1.38E-06	4.03E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.77E-07	--	9.18E-08	2.69E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.98E-07	--	2.06E-07	6.05E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	9.73E-08	--	5.05E-08	1.48E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	2.10E-06	--	1.17E-06	3.27E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.53E-01	--	8.55E-02	2.39E-01
			Toxicity Equivalency	2.63E-06	--	6.29E-07	3.25E-06	Toxicity Equivalency	N/A	--	--	--	--
			Arsenic	1.67E-06	--	1.99E-07	1.87E-06	Arsenic	Skin	1.08E-02	--	1.29E-03	1.21E-02
			Barium	--	--	--	--	Barium	Kidney	6.46E-03	--	--	6.46E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	7.41E-04	--	--	7.41E-04
			(Total)	1.00E-05	0.00E+00	3.89E-06	1.39E-05	(Total)		1.71E-01	0.00E+00	8.68E-02	2.58E-01
						Total Risk Across Soil	1.39E-05					Total Hazard Index Across Soil	2.58E-01
						Total Risk Across All Media and All Exposure Routes	1.39E-05					Total Hazard Index Across All Media and All Exposure Routes	2.58E-01

Total Skin HI =	2.51E-01
Total Eye/Immune HI =	2.39E-01
Total Kidney HI =	6.46E-03
Total CNS HI =	7.41E-04

TABLE 9.13C RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.57E-07	--	2.75E-07	1.03E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.19E-06	--	2.25E-06	8.45E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.13E-07	--	1.50E-07	5.63E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	9.29E-07	--	3.38E-07	1.27E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.27E-07	--	8.26E-08	3.10E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.90E-06	--	1.92E-06	6.82E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.43E+00	--	5.60E-01	1.99E+00
			Toxicity Equivalency	6.13E-06	--	1.03E-06	7.16E-06	Toxicity Equivalency	N/A	--	--	--	--
			Arsenic	3.89E-06	--	3.27E-07	4.21E-06	Arsenic	Skin	1.01E-01	--	8.47E-03	1.09E-01
			Barium	--	--	--	--	Barium	Kidney	6.03E-02	--	--	6.03E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	6.91E-03	--	--	6.91E-03
			(Total)	2.34E-05	0.00E+00	6.38E-06	2.98E-05	(Total)		1.60E+00	0.00E+00	5.69E-01	2.17E+00
						Total Risk Across Soil	2.98E-05					Total Hazard Index Across Soil	2.17E+00
						Total Risk Across All Media and All Exposure Routes	2.98E-05					Total Hazard Index Across All Media and All Exposure Routes	2.17E+00

Total Skin HI =	2.10E+00
Total Eye/Immune HI =	1.99E+00
Total Kidney HI =	6.03E-02
Total CNS HI =	6.91E-03

TABLE 9.14 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.29E-06	--	8.52E-07	2.14E-06
			Benzo(a)pyrene	3.14E-07	--	2.70E-07	5.84E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.57E-04	--	1.45E-04	3.02E-04	Aroclor, Total	Skin/Eyes/Immune	1.10E+01	--	1.01E+01	2.11E+01
			Dioxin TEQ	3.61E-05	--	1.43E-05	5.04E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.71E-06	--	7.35E-07	4.45E-06	Arsenic	Skin	2.31E-02	--	4.57E-03	2.77E-02
			Barium	--	--	--	--	Barium	Kidney	4.99E-02	--	--	4.99E-02
			Chromium	--	--	--	--	Chromium	None	1.10E-02	--	--	1.10E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	2.64E-02	--	--	2.64E-02
			(Total)	1.97E-04	0.00E+00	1.60E-04	3.57E-04	(Total)		1.11E+01	0.00E+00	1.01E+01	2.12E+01
						Total Risk Across Soil	3.57E-04					Total Hazard Index Across Soil	2.12E+01
						Total Risk Across All Media and All Exposure Routes	3.57E-04					Total Hazard Index Across All Media and All Exposure Routes	2.12E+01

Total Skin HI =	2.12E+01
Total Eye/Immune HI =	2.11E+01
Total Kidney HI =	4.99E-02
Total General HI =	2.14E-06
Total Blood HI =	2.64E-02

TABLE 9.17 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	3.32E-08	--	2.85E-08	6.16E-08	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	2.94E-08	--	2.71E-08	5.65E-08	Aroclor, Total	Skin/Eyes/Immune	2.05E-03	--	1.90E-03	3.95E-03
			Arsenic	5.24E-08	--	1.04E-08	6.28E-08	Arsenic	Skin	3.26E-04	--	6.46E-05	3.91E-04
			Chromium	--	--	--	--	Chromium	None	1.10E-03	--	--	1.10E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.15E-07	0.00E+00	6.60E-08	1.81E-07	(Total)		3.48E-03	0.00E+00	1.96E-03	5.44E-03
						Total Risk Across Soil	1.81E-07					Total Hazard Index Across Soil	5.44E-03
						Total Risk Across All Media and All Exposure Routes	1.81E-07					Total Hazard Index Across All Media and All Exposure Routes	5.44E-03

Total Skin HI = 4.34E-03
Total Eye/Immune HI = 3.95E-03

TABLE 9.20A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.42E-07	--	1.26E-07	3.68E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.98E-06	--	1.03E-06	3.01E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.64E-07	--	1.37E-07	4.02E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.53E-07	--	1.83E-07	5.36E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.70E-07	--	8.80E-08	2.58E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.17E-06	--	2.33E-06	6.49E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	3.04E-01	--	1.70E-01	4.74E-01
			Dioxin TEQ	1.18E-04	--	2.82E-05	1.46E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.03E-06	--	1.24E-07	1.16E-06	Arsenic	Skin	6.69E-03	--	8.01E-04	7.49E-03
			Barium	--	--	--	--	Barium	Kidney	2.48E-02	--	--	2.48E-02
			Cadmium	--	--	--	--	Cadmium	Blood	8.89E-04	--	1.42E-04	1.03E-03
			Chromium	--	--	--	--	Chromium	None	2.37E-03	--	--	2.37E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.30E-04	--	--	3.30E-04
			Nickel	--	--	--		Nickel	Body Weight	7.27E-04	--	--	7.27E-04
			Zinc	--	--	--	--	Zinc	Blood	8.16E-04	--	--	8.16E-04
			(Total)	1.26E-04	0.00E+00	3.22E-05	1.58E-04	(Total)		3.40E-01	0.00E+00	1.71E-01	5.11E-01
						Total Risk Across Soil	1.58E-04					Total Hazard Index Across Soil	5.11E-01
						Total Risk Across All Media and All Exposure Routes	1.58E-04					Total Hazard Index Across All Media and All Exposure Routes	5.11E-01

Total Skin HI =	4.81E-01
Total Eye/Immune HI =	4.74E-01
Total Kidney HI =	2.48E-02
Total Blood HI =	1.85E-03
Total CNS HI =	3.30E-04
Total Body Weight HI =	7.27E-04

TABLE 9.20B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.66E-07	--	2.06E-07	7.72E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	4.63E-06	--	1.68E-06	6.31E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	6.17E-07	--	2.25E-07	8.42E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	8.23E-07	--	3.00E-07	1.12E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.96E-07	--	1.44E-07	5.40E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			(Conservative)	9.72E-06	--	3.81E-06	1.35E-05	(Conservative)	Skin/Eyes/Immune	2.84E+00	--	1.11E+00	3.95E+00
			Dioxin TEQ	2.75E-04	--	4.62E-05	3.21E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.41E-06	--	2.02E-07	2.61E-06	Arsenic	Skin	6.25E-02	--	5.25E-03	6.77E-02
			Barium	--	--	--	--	Barium	Kidney	2.31E-01	--	--	2.31E-01
			Cadmium	--	--	--	--	Cadmium	Blood	8.30E-03	--	9.30E-04	9.23E-03
			Chromium	--	--	--	--	Chromium	None	2.21E-02	--	--	2.21E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.08E-03	--	--	3.08E-03
			Nickel	--	--	--		Nickel	Body Weight	6.78E-03	--	--	6.78E-03
			Zinc	--	--	--	--	Zinc	Blood	7.62E-03	--	--	7.62E-03
			(Total)	2.94E-04	0.00E+00	5.27E-05	3.47E-04	(Total)		3.18E+00	0.00E+00	1.12E+00	4.30E+00
						Total Risk Across Soil	3.47E-04					Total Hazard Index Across Soil	4.30E+00
						Total Risk Across All Media and All Exposure Routes	3.47E-04					Total Hazard Index Across All Media and All Exposure Routes	4.30E+00

Total Skin HI =	4.01E+00
Total Eye/Immune HI =	3.95E+00
Total Kidney HI =	2.31E-01
Total Blood HI =	1.68E-02
Total CNS HI =	3.08E-03
Total Body Weight HI =	6.78E-03

TABLE 9.21 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.91E-07	--	1.64E-07	3.55E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.53E-07	--	1.31E-07	2.84E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	4.46E-07	--	3.83E-07	8.29E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.16E-07	--	9.96E-08	2.16E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.39E-07	--	7.75E-07	1.61E-06	Aroclor, Total	Skin/Eyes/Immune	5.87E-02	--	5.42E-02	1.13E-01
			Dioxin TEQ	6.73E-06	--	2.66E-06	9.39E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-07	--	2.02E-08	1.22E-07	Arsenic	Skin	6.36E-04	--	1.26E-04	7.62E-04
			Chromium	--	--	--	--	Chromium	None	6.96E-02	--	--	6.96E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	2.52E-03	--	--	2.52E-03
			(Total)	1.04E-05	0.00E+00	5.77E-06	1.61E-05	(Total)		1.32E-01	0.00E+00	5.44E-02	1.86E-01
						Total Risk Across Soil	1.61E-05					Total Hazard Index Across Soil	1.86E-01
						Total Risk Across All Media and All Exposure Routes	1.61E-05					Total Hazard Index Across All Media and All Exposure Routes	1.86E-01

Total Skin HI =	1.14E-01
Total Eye/Immune HI =	1.13E-01
Total CNS HI =	2.52E-03

TABLE 9.22 RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.68E-07	--	6.59E-07	1.43E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.43E-06	--	5.52E-06	1.19E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.54E-07	--	4.75E-07	1.03E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	6.61E-07	--	5.67E-07	1.23E-06	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.14E-06	--	1.84E-06	3.98E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.64E-07	--	3.98E-07	8.63E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Arsenic	1.91E-07	--	3.78E-08	2.29E-07	Arsenic	Skin	1.19E-03	--	2.35E-04	1.42E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.12E-05	0.00E+00	9.49E-06	2.07E-05	(Total)		1.19E-03	0.00E+00	2.35E-04	1.42E-03
						Total Risk Across Soil	2.07E-05					Total Hazard Index Across Soil	1.42E-03
						Total Risk Across All Media and All Exposure Routes	2.07E-05					Total Hazard Index Across All Media and All Exposure Routes	1.42E-03

Total Skin HI = 1.42E-03

TABLE 9.23A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.76E-07	--	7.03E-08	2.46E-07
			Acenaphthylene	--	--	--		Acenaphthylene	N/A	2.54E-06	--	1.32E-06	3.86E-06
			Benzo(a)anthracene	1.41E-07	--	7.32E-08	2.14E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.12E-06	--	5.79E-07	1.70E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.06E-07	--	5.49E-08	1.61E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	9.40E-08	--	4.88E-08	1.43E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.23E-07	--	1.16E-07	3.39E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.52E-08	--	2.87E-08	8.39E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	6.76E-07	--	3.78E-07	1.05E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.93E-02	--	2.75E-02	7.69E-02
			Dioxin TEQ	8.05E-06	--	1.93E-06	9.98E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.76E-08	--	8.10E-09	7.57E-08	Arsenic	Skin	4.38E-04	--	5.25E-05	4.91E-04
			Barium	--	--	--	--	Barium	Kidney	4.39E-03	--	--	4.39E-03
			Chromium	--	--	--	--	Chromium	None	5.90E-04	--	--	5.90E-04
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.38E-05	--	--	5.38E-05
			Nickel	--	--	--		Nickel	Body Weight	2.79E-04	--	--	2.79E-04
			(Total)	1.05E-05	0.00E+00	3.21E-06	1.37E-05	(Total)		5.51E-02	0.00E+00	2.76E-02	8.27E-02
						Total Risk Across Soil	1.37E-05					Total Hazard Index Across Soil	8.27E-02
						Total Risk Across All Media and All Exposure Routes	1.37E-05					Total Hazard Index Across All Media and All Exposure Routes	8.27E-02

Total Skin HI =	7.74E-02
Total Eye/Immune HI =	7.69E-02
Total Kidney HI =	4.39E-03
Total General HI =	2.46E-07
Total CNS HI =	5.38E-05
Total Body Weight HI =	2.79E-04

TABLE 9.23B RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.64E-06	--	4.60E-07	2.10E-06
			Acenaphthylene	--	--	--		Acenaphthylene	N/A	2.37E-05	--	8.64E-06	3.24E-05
			Benzo(a)anthracene	3.29E-07	--	1.20E-07	4.49E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.61E-06	--	9.48E-07	3.55E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.47E-07	--	8.99E-08	3.37E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	2.19E-07	--	7.99E-08	2.99E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.21E-07	--	1.90E-07	7.11E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.29E-07	--	4.69E-08	1.76E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	1.58E-06	--	6.19E-07	2.20E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.60E-01	--	1.80E-01	6.41E-01
			Dioxin TEQ	1.88E-05	--	3.16E-06	2.19E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.58E-07	--	1.33E-08	1.71E-07	Arsenic	Skin	4.09E-03	--	3.44E-04	4.43E-03
			Barium	--	--	--	--	Barium	Kidney	4.10E-02	--	--	4.10E-02
			Chromium	--	--	--	--	Chromium	None	5.51E-03	--	--	5.51E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.03E-04	--	--	5.03E-04
			Nickel	--	--	--		Nickel	Body Weight	2.61E-03	--	--	2.61E-03
			(Total)	2.46E-05	0.00E+00	5.26E-06	2.98E-05	(Total)		5.14E-01	0.00E+00	1.81E-01	6.95E-01
						Total Risk Across Soil	2.98E-05					Total Hazard Index Across Soil	6.95E-01
						Total Risk Across All Media and All Exposure Routes	2.98E-05					Total Hazard Index Across All Media and All Exposure Routes	6.95E-01

Total Skin HI =	6.45E-01
Total Eye/Immune HI =	6.41E-01
Total Kidney HI =	4.10E-02
Total General HI =	2.10E-06
Total CNS HI =	5.03E-04
Total Body Weight HI =	2.61E-03

TABLE 9.24A RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL

REASONABLE MAXIMUM EXPOSURE

RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.55E-07	--	1.02E-07	3.56E-07
			Benzo(a)anthracene	5.55E-08	--	2.88E-08	8.44E-08	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	5.76E-07	--	2.99E-07	8.75E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.14E-08	--	2.67E-08	7.81E-08	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.35E-08	--	2.77E-08	8.12E-08	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.47E-08	--	1.28E-08	3.75E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	2.03E-06	--	1.13E-06	3.16E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.48E-01	--	8.26E-02	2.31E-01
			Dieldrin	1.80E-08	--	--	1.80E-08	Dieldrin	Liver	6.58E-05	--	--	6.58E-05
			Dioxin TEQ	2.11E-07	--	5.06E-08	2.62E-07	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.63E-04	--	--	8.63E-04
			Arsenic	4.99E-07	--	5.97E-08	5.58E-07	Arsenic	Skin	3.23E-03	--	3.87E-04	3.62E-03
			Barium	--	--	--	--	Barium	Kidney	1.17E-02	--	--	1.17E-02
			Chromium	--	--	--	--	Chromium	None	4.27E-03	--	--	4.27E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.84E-04	--	--	1.84E-04
			Nickel	--	--	--		Nickel	Body Weight	1.80E-03	--	--	1.80E-03
			Zinc	--	--	--	--	Zinc	Blood	1.99E-03	--	--	1.99E-03
			(Total)	3.52E-06	0.00E+00	1.64E-06	5.16E-06	(Total)		1.72E-01	0.00E+00	8.30E-02	2.55E-01
						Total Risk Across Soil	5.16E-06					Total Hazard Index Across Soil	2.55E-01
						Total Risk Across All Media and All Exposure Routes	5.16E-06					Total Hazard Index Across All Media and All Exposure Routes	2.55E-01

Total Skin HI =	2.34E-01
Total Eye/Immune HI =	2.31E-01
Total Kidney HI =	1.17E-02
Total General HI =	3.56E-07
Total Blood HI =	2.85E-03
Total CNS HI =	1.84E-04
Total Body Weight HI =	1.80E-03

TABLE 9.24B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.38E-06	--	6.66E-07	3.04E-06
			Benzo(a)anthracene	1.30E-07	--	4.72E-08	1.77E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	4.89E-07	1.83E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.20E-07	--	4.37E-08	1.64E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	1.25E-07	--	4.54E-08	1.70E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.76E-08	--	2.10E-08	7.86E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.73E-06	--	1.86E-06	6.59E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.38E+00	--	5.41E-01	1.92E+00
			Dieldrin	4.21E-08	--	--	4.21E-08	Dieldrin	Liver	6.14E-04	--	--	6.14E-04
			Dioxin TEQ	4.93E-07	--	8.28E-08	5.76E-07	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.05E-03	--	--	8.05E-03
			Arsenic	1.16E-06	--	9.78E-08	1.26E-06	Arsenic	Skin	3.02E-02	--	2.53E-03	3.27E-02
			Barium	--	--	--	--	Barium	Kidney	1.09E-01	--	--	1.09E-01
			Chromium	--	--	--	--	Chromium	None	3.99E-02	--	--	3.99E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.72E-03	--	--	1.72E-03
			Nickel	--	--	--		Nickel	Body Weight	1.68E-02	--	--	1.68E-02
			Zinc	--	--	--	--	Zinc	Blood	1.86E-02	--	--	1.86E-02
			(Total)	8.21E-06	0.00E+00	2.68E-06	1.09E-05	(Total)		1.61E+00	0.00E+00	5.44E-01	2.15E+00
						Total Risk Across Soil	1.09E-05					Total Hazard Index Across Soil	2.15E+00
						Total Risk Across All Media and All Exposure Routes	1.09E-05					Total Hazard Index Across All Media and All Exposure Routes	2.15E+00

Total Skin HI =	1.95E+00
Total Eye/Immune HI =	1.92E+00
Total Kidney HI =	1.09E-01
Total General HI =	3.04E-06
Total Blood HI =	2.66E-02
Total CNS HI =	1.72E-03
Total Body Weight HI =	1.68E-02

Appendix B-10

Lead Evaluations

Table 1
Calculations of Blood Lead Concentrations (PbBs) Lockwood Avenue Property
Raymark OU6, Stratford Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	785	785	785	785
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.34	0.34	0.34	0.34
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.8**	**2.3**	**1.8**	**2.3**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**7.6**	**9.0**	**7.6**	**9.0**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.5%**	**1.2%**	**0.5%**	**1.2%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 2
Calculations of Blood Lead Concentrations (PbBs) 200 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario: Using Equation 1, GSDi = Hom	Using Equation 1, GSDi = Het	Using Equation 2, GSDi = Hom	Using Equation 2, GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	213	213	213	213
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.07	0.07	0.07	0.07
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.4**	**1.9**	**1.4**	**1.9**
$PbB_{fetal,\ 0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**4.9**	**6.3**	**4.9**	**6.3**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.6%**	**0.2%**	**0.6%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 3
Calculations of Blood Lead Concentrations (PbBs) 230 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario: Using Equation 1, GSDi = Hom	Using Equation 1, GSDi = Het	Using Equation 2, GSDi = Hom	Using Equation 2, GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	6620	6620	6620	6620
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.27	0.27	0.27	0.27
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**4.3**	**4.8**	**4.3**	**4.8**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**34.6**	**36.0**	**34.6**	**36.0**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**8.7%**	**11.5%**	**8.7%**	**11.5%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 4
Calculations of Blood Lead Concentrations (PbBs) 250 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	3700	3700	3700	3700
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.70	0.70	0.70	0.70
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**5.7**	**6.2**	**5.7**	**6.2**
$PbB_{fetal,\ 0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**21.1**	**22.5**	**21.1**	**22.5**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**16.5%**	**19.7%**	**16.5%**	**19.7%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S.D}) + PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 5
Calculations of Blood Lead Concentrations (PbBs) 280 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario: Using Equation 1, GSDi = Hom	Using Equation 1, GSDi = Het	Using Equation 2, GSDi = Hom	Using Equation 2, GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	8670	8670	8670	8670
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.78	0.78	0.78	0.78
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**12.5**	**13.0**	**12.5**	**13.0**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**44.1**	**45.5**	**44.1**	**45.5**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**56.8%**	**59.0%**	**56.8%**	**59.0%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 6
Calculations of Blood Lead Concentrations (PbBs) 300 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	5480	5480	5480	5480
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.67	0.67	0.67	0.67
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**7.4**	**7.9**	**7.4**	**7.9**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**29.3**	**30.7**	**29.3**	**30.7**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**28.1%**	**31.4%**	**28.1%**	**31.4%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 7
Calculations of Blood Lead Concentrations (PbBs) Lot Behind 326 Ferry Blvd
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee
Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	1930	1930	1930	1930
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.43	0.43	0.43	0.43
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**2.8**	**3.3**	**2.8**	**3.3**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**12.9**	**14.3**	**12.9**	**14.3**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**2.2%**	**3.9%**	**2.2%**	**3.9%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 10
Calculations of Blood Lead Concentrations (PbBs) 576 East Broadway
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	3790	3790	3790	3790
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.42	0.42	0.42	0.42
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**4.0**	**4.5**	**4.0**	**4.5**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**21.5**	**22.9**	**21.5**	**22.9**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**7.1%**	**9.7%**	**7.1%**	**9.7%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 11
Calculations of Blood Lead Concentrations (PbBs) 600 East Broadway
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	2320	2320	2320	2320
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.21	0.21	0.21	0.21
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**2.2**	**2.7**	**2.2**	**2.7**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**14.7**	**16.1**	**14.7**	**16.1**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**1.0%**	**2.1%**	**1.0%**	**2.1%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 12
Calculations of Blood Lead Concentrations (PbBs) Vacant DOT Lot abutting I-95
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	991	991	991	991
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.09	0.09	0.09	0.09
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.5**	**2.0**	**1.5**	**2.0**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**8.5**	**9.9**	**8.5**	**9.9**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.7%**	**0.2%**	**0.7%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 13
Calculations of Blood Lead Concentrations (PbBs) CT Right of Way
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	401	401	401	401
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.05	0.05	0.05	0.05
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.4**	**1.9**	**1.4**	**1.9**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**5.8**	**7.2**	**5.8**	**7.2**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.6%**	**0.2%**	**0.6%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 14
Calculations of Blood Lead Concentrations (PbBs) 304 East Main Street
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee
Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	5910	5910	5910	5910
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.44	0.44	0.44	0.44
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**5.7**	**6.2**	**5.7**	**6.2**
$PbB_{fetal,\ 0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**31.3**	**32.7**	**31.3**	**32.7**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**16.6%**	**19.8%**	**16.6%**	**19.8%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 15
Calculations of Blood Lead Concentrations (PbBs) 340 East Main Street
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee
Version date 05/19/03

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario: Using Equation 1, GSDi = Hom	Using Equation 1, GSDi = Het	Using Equation 2, GSDi = Hom	Using Equation 2, GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	4140	4140	4140	4140
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.72	0.72	0.72	0.72
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**6.3**	**6.8**	**6.3**	**6.8**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**23.1**	**24.5**	**23.1**	**24.5**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**20.7%**	**23.9%**	**20.7%**	**23.9%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 16
Calculations of Blood Lead Concentrations (PbBs) 380 East Main Street
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	1500	1500	1500	1500
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.01	0.01	0.01	0.01
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.4**	**1.9**	**1.4**	**1.9**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**10.9**	**12.3**	**10.9**	**12.3**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.6%**	**0.2%**	**0.6%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 17
Calculations of Blood Lead Concentrations (PbBs) 250 East Main Street
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	2730	2730	2730	2730
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.01	0.01	0.01	0.01
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.4**	**1.9**	**1.4**	**1.9**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**16.6**	**18.0**	**16.6**	**18.0**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.6%**	**0.2%**	**0.6%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 18
Calculations of Blood Lead Concentrations (PbBs) DPW Lot
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario: Using Equation 1, GSDi = Hom	Using Equation 1, GSDi = Het	Using Equation 2, GSDi = Hom	Using Equation 2, GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	398	398	398	398
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.16	0.16	0.16	0.16
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.5**	**2.0**	**1.5**	**2.0**
$PbB_{fetal,\ 0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**5.8**	**7.2**	**5.8**	**7.2**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.7%**	**0.2%**	**0.7%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S.D}) + PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,\ 0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 21
Calculations of Blood Lead Concentrations (PbBs) 1 Beacon Point Road
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	2210	2210	2210	2210
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.12	0.12	0.12	0.12
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.8**	**2.3**	**1.8**	**2.3**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**14.2**	**15.6**	**14.2**	**15.6**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.5%**	**1.2%**	**0.5%**	**1.2%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Table 22
Calculations of Blood Lead Concentrations (PbBs) Airport Property North of Marine Basin
Raymark OU6, Stratford, Connecticut

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/03

Exposure Variable	PbB Equation[1]		Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario			
					Using Equation 1		Using Equation 2	
	1*	2**			GSDi = Hom	GSDi = Het	GSDi = Hom	GSDi = Het
PbS	X	X	Soil lead concentration	µg/g or ppm	989	989	989	989
$R_{fetal/maternal}$	X	X	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	X	X	Biokinetic Slope Factor	µg/dL per µg/day	0.4	0.4	0.4	0.4
GSD_i	X	X	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	X	X	Baseline PbB	µg/dL	1.4	1.9	1.4	1.9
IR_S	X		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	--	--
FRW	X	X	Fraction of property covered by Raymark Waste	--	0.07	0.07	0.07	0.07
IR_{S+D}		X	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	0.050	0.050
W_S		X	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	1.0	1.0
K_{SD}		X	Mass fraction of soil in dust	--	--	--	0.7	0.7
$AF_{S,D}$	X	X	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S,D}$	X	X	Exposure frequency (same for soil and dust)	days/yr	250	250	250	250
$AT_{S,D}$	X	X	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**			**µg/dL**	**1.5**	**2.0**	**1.5**	**2.0**
$PbB_{fetal,0.95}$	**95th percentile PbB among fetuses of adult workers**			**µg/dL**	**8.5**	**9.9**	**8.5**	**9.9**
PbB_t	**Target PbB level of concern (e.g., 10 µg/dL)**			**µg/dL**	**10.0**	**10.0**	**10.0**	**10.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**			**%**	**0.2%**	**0.7%**	**0.2%**	**0.7%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

***Equation 1, based on Eq. 1, 2 in USEPA (1996).**

PbB_{adult} =	$(PbS*BKSF*IR_{S+D}*FRW*AF_{S,D}*EF_S/AT_{S,D}) + PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

****Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).**

PbB_{adult} =	$PbS*BKSF*([(IR_{S+D})*FRW*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*FRW*(1-W_S)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal,0.95}$ =	$PbB_{adult} * (GSD_i^{1.645} * R)$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 260
User Name: Robert Jupin
Date: 4/20/2004
Site Name: Raymark
Operable Unit: OU6
Run Mode: Site Risk Assessment

Soil/Dust Data
Average concentration of lead in soil adjusted for FRW at the Lockwood Avenue Property = 267 mg/kg.
==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 196.900 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000
Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	267.000	196.900
1-2	267.000	196.900
2-3	267.000	196.900
3-4	267.000	196.900
4-5	267.000	196.900
5-6	267.000	196.900
6-7	267.000	196.900

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

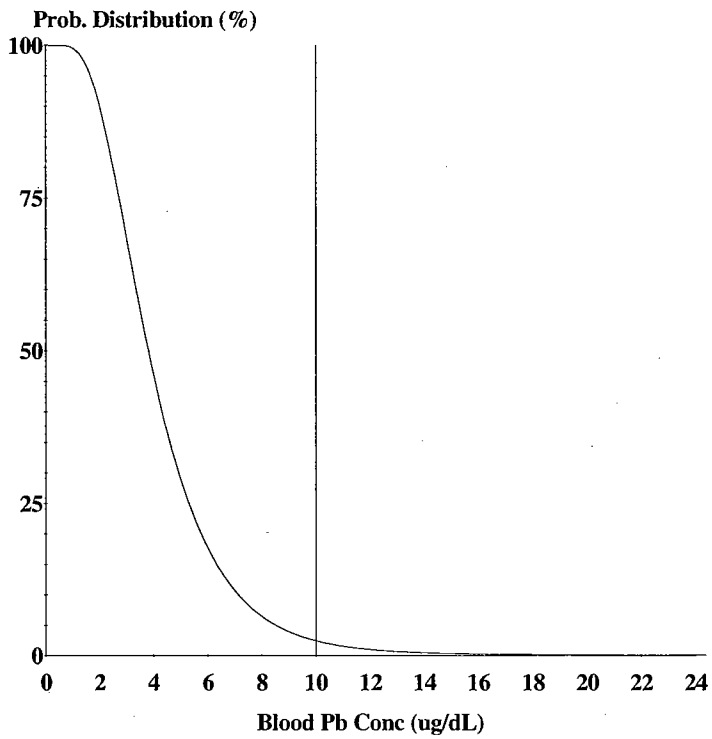
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

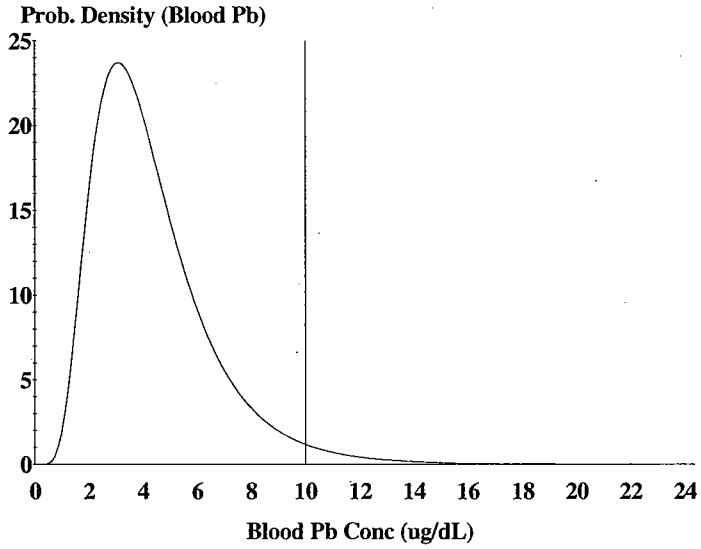
Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.517	0.000	0.364
1-2	0.034	2.603	0.000	0.901
2-3	0.062	2.958	0.000	0.948
3-4	0.067	2.882	0.000	0.979
4-5	0.067	2.839	0.000	1.039
5-6	0.093	3.019	0.000	1.105
6-7	0.093	3.347	0.000	1.128

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	5.304	8.206	4.4
1-2	8.333	11.871	4.9
2-3	8.434	12.403	4.6
3-4	8.547	12.475	4.4
4-5	6.475	10.419	3.7
5-6	5.875	10.093	3.2
6-7	5.570	10.138	2.9



Cutoff = 10.000 ug/dl
Geo Mean = 3.989
GSD = 1.600
% Above = 2.528

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Lockwood Avenue Property
Pb LI = 267 mg/kg



Cutoff = 10.000 ug/dl
Geo Mean = 3.989
GSD = 1.600
% Above = 2.528
% Below = 97.472

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Lockwood Avenue Property
Pb [] = 267 mg/kg

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 254
User Name: [illegible]
Date: 10/14/03
Site Name:
Operable Unit:
Run Mode: Research

Vacant Lot at Housatonic Ave.

==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 1994.500 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000
Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)

.5-1	2835.000	1994.500
1-2	2835.000	1994.500
2-3	2835.000	1994.500
3-4	2835.000	1994.500
4-5	2835.000	1994.500
5-6	2835.000	1994.500
6-7	2835.000	1994.500

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

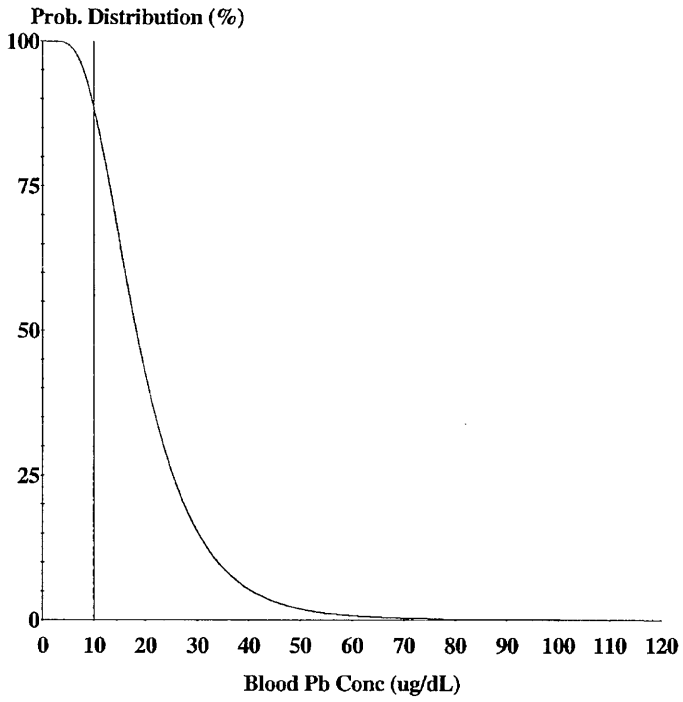
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

Year	Air (ug/dL)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	1.724	0.000	0.249
1-2	0.034	1.691	0.000	0.585
2-3	0.062	2.001	0.000	0.641
3-4	0.067	2.022	0.000	0.687
4-5	0.067	2.193	0.000	0.803
5-6	0.093	2.431	0.000	0.890
6-7	0.093	2.760	0.000	0.930

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	37.722	39.716	20.1
1-2	56.220	58.530	23.1
2-3	59.253	61.957	22.0
3-4	62.269	65.044	21.6
4-5	51.959	55.022	18.7
5-6	49.136	52.551	16.2
6-7	47.706	51.489	14.5



Cutoff = 10.000 ug/dl
Geo Mean = 19.037
GSD = 1.600
% Above = 91.462

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode – Research
Comment = Vacant Lot at Housatonic Ave.

Pb [ ] = 2835 mg/kg

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 260
User Name: Tetra Tech
Date: 4/20/2004
Site Name: Raymark
Operable Unit: OU6
Run Mode: Site Risk Assessment

Soil/Dust Data
Average concentration of lead in soil adjusted for FRW at CT Right-of-Way = 212 mg/kg.
==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 158.400 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000
Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	212.000	158.400
1-2	212.000	158.400
2-3	212.000	158.400
3-4	212.000	158.400
4-5	212.000	158.400
5-6	212.000	158.400
6-7	212.000	158.400

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

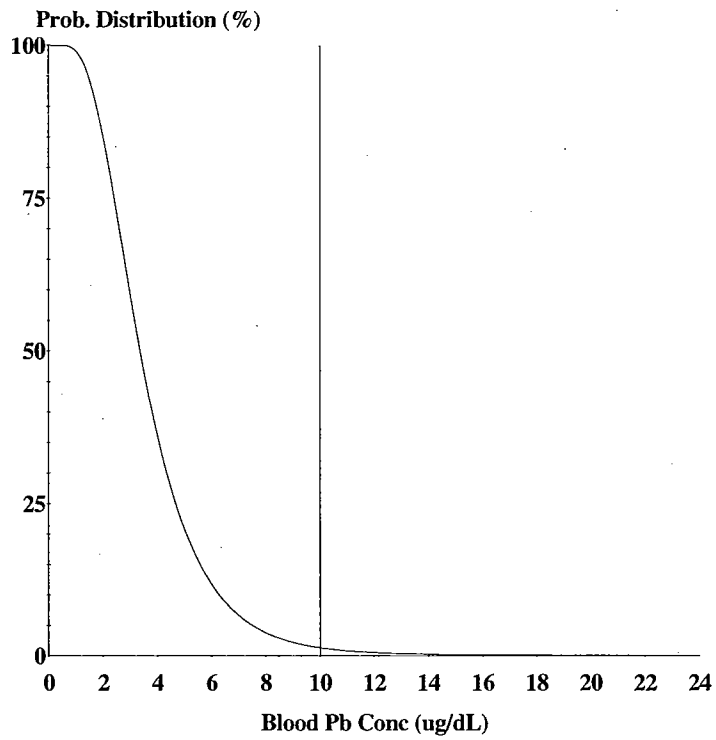
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.546	0.000	0.368
1-2	0.034	2.639	0.000	0.913
2-3	0.062	2.994	0.000	0.959
3-4	0.067	2.912	0.000	0.989
4-5	0.067	2.859	0.000	1.046
5-6	0.093	3.036	0.000	1.111
6-7	0.093	3.363	0.000	1.134

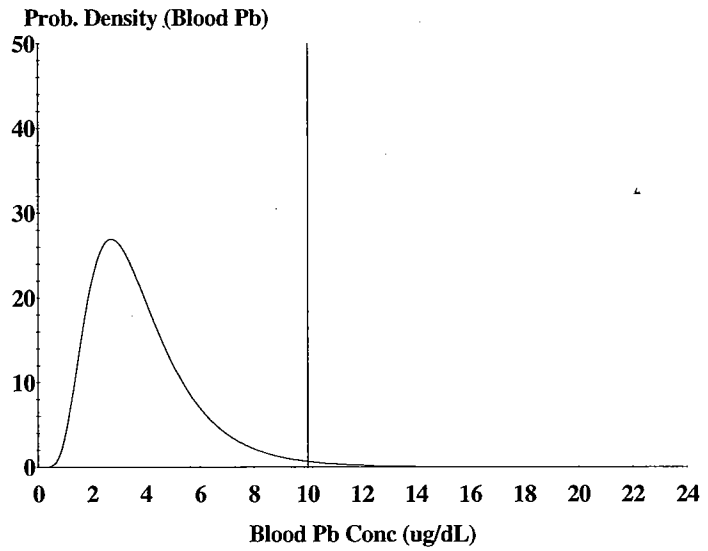
Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	4.286	7.222	3.9
1-2	6.750	10.337	4.3
2-3	6.820	10.835	4.0
3-4	6.900	10.869	3.8
4-5	5.209	9.180	3.2
5-6	4.720	8.961	2.8
6-7	4.472	9.062	2.6



Cutoff = 10.000 ug/dl
Geo Mean = 3.514
GSD = 1.600
% Above = 1.303

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = CT Right-of-Way

Pb [] = 212 mg/kg



Cutoff = 10.000 ug/dl
Geo Mean = 3.514
GSD = 1.600
% Above = 1.303
% Below = 98.697

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = CT Right-of-Way
Pb[C] = 212 mg/kg

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 255
User Name: Robert Jupin
Date: 1/26/2004
Site Name: Raymark
Operable Unit: OU6
Run Mode: Site Risk Assessment

Soil/Dust Data
Average concentration of lead in soil adjusted for FRM at Beacon Point Area = 462 mg/kg.
==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 333.400 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	462.000	333.400
1-2	462.000	333.400
2-3	462.000	333.400
3-4	462.000	333.400
4-5	462.000	333.400
5-6	462.000	333.400
6-7	462.000	333.400

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

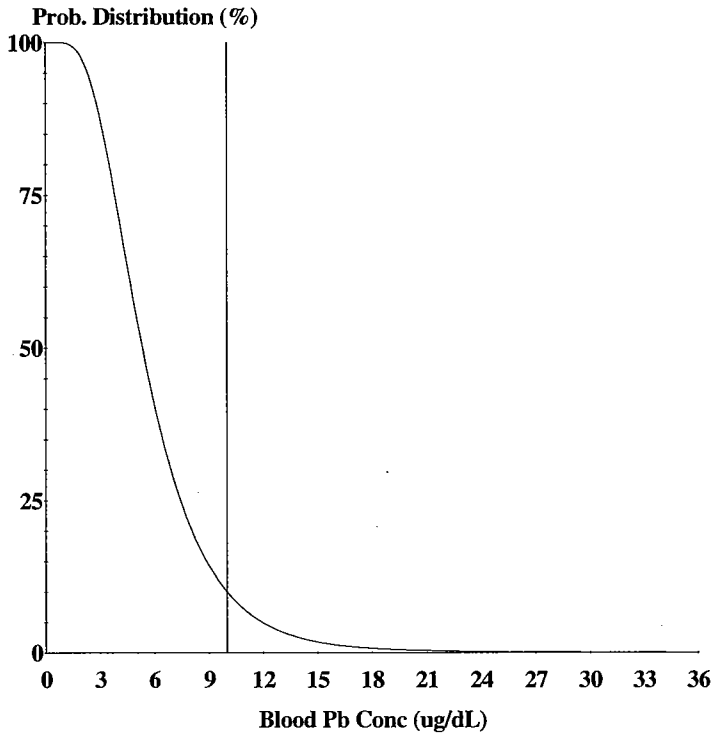
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

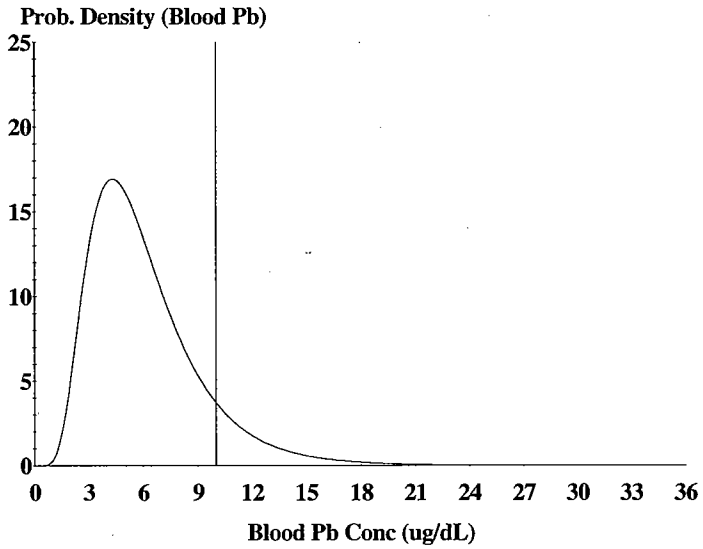
Year	Air (ug/dL)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.421	0.000	0.350
1-2	0.034	2.484	0.000	0.860
2-3	0.062	2.840	0.000	0.910
3-4	0.067	2.781	0.000	0.945
4-5	0.067	2.772	0.000	1.015
5-6	0.093	2.962	0.000	1.084
6-7	0.093	3.291	0.000	1.109

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	8.736	11.528	6.2
1-2	13.621	16.999	7.0
2-3	13.870	17.683	6.5
3-4	14.126	17.919	6.2
4-5	10.828	14.682	5.2
5-6	9.870	14.009	4.4
6-7	9.380	13.874	4.0



Cutoff = 10.000 ug/dl
Geo Mean = 5.591
GSD = 1.600
% Above = 10.801

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Beacon Park Area
Pb [ ] = 462 mg/Kg



Cutoff = 10.000 ug/dl
Geo Mean = 5.591
GSD = 1.600
% Above = 10.801
% Below = 89.199

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Beacon Park Area
Pb [ ] = 462 mg/kg

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 255
User Name: Robert Jupin
Date: 1/26/2004
Site Name: Raymark
Operable Unit: OU6
Run Mode: Site Risk Assessment

Soil/Dust Data
Average concentration of lead in soil adjusted for FRM at Wooster Park = 170 mg/kg.
==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 129.000 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	170.000	129.000
1-2	170.000	129.000
2-3	170.000	129.000
3-4	170.000	129.000
4-5	170.000	129.000
5-6	170.000	129.000
6-7	170.000	129.000

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

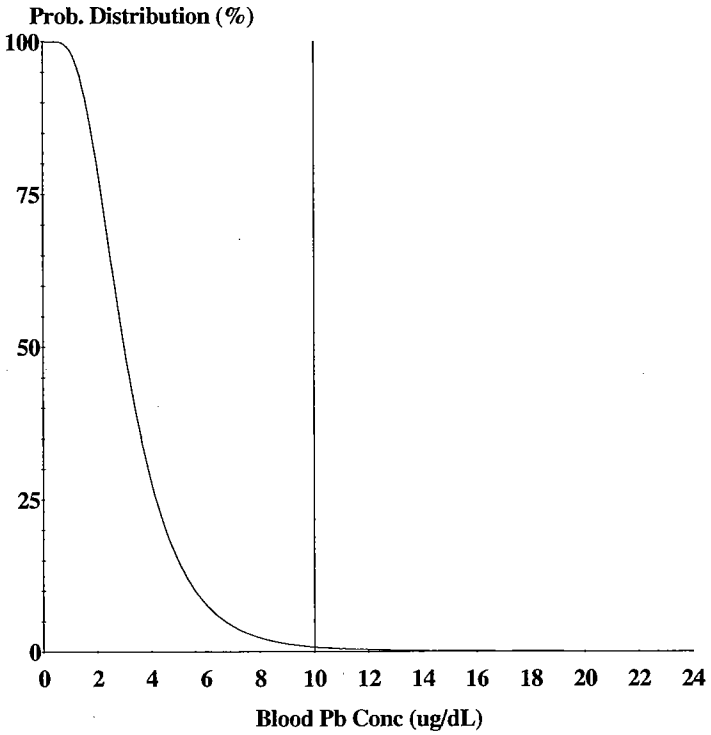
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

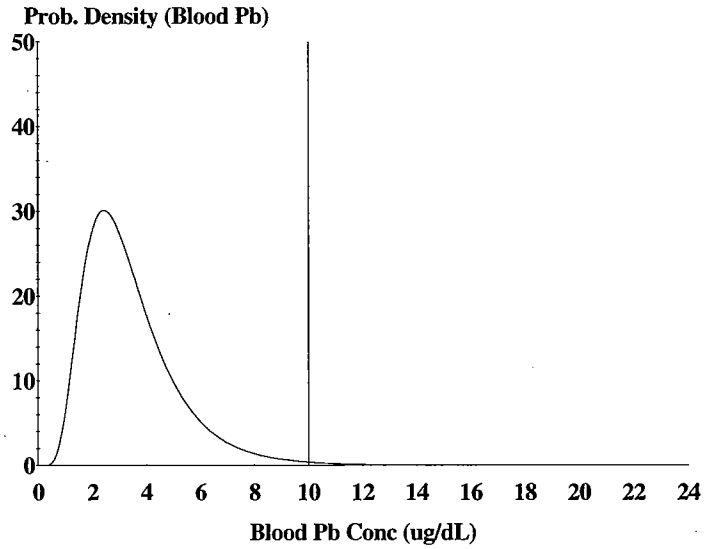
Year	Air (ug/dL)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.569	0.000	0.372
1-2	0.034	2.668	0.000	0.923
2-3	0.062	3.022	0.000	0.968
3-4	0.067	2.936	0.000	0.997
4-5	0.067	2.874	0.000	1.052
5-6	0.093	3.049	0.000	1.116
6-7	0.093	3.375	0.000	1.138

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	3.494	6.456	3.5
1-2	5.512	9.137	3.8
2-3	5.561	9.613	3.6
3-4	5.619	9.620	3.4
4-5	4.230	8.223	2.9
5-6	3.830	8.088	2.5
6-7	3.626	8.233	2.3



Cutoff = 10.000 ug/dl
Geo Mean = 3.143
GSD = 1.600
% Above = 0.690

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Wooster Park
PbEC = 170 mg/kg



Cutoff = 10.000 ug/dl
Geo Mean = 3.143
GSD = 1.600
% Above = 0.690
% Below = 99.310

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Wooster Park
Pb [ ] = 170 mg/kg

LEAD MODEL FOR WINDOWS Version 1.0

==========
Model Version: 1.0 Build 254
User Name: Lee Ann Linagoge
Date: 10/14/03
Site Name: 35 Third Ave
Operable Unit:
Run Mode: Research
==========
The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 79.300 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000
Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)

.5-1	99.000	79.300
1-2	99.000	79.300
2-3	99.000	79.300
3-4	99.000	79.300
4-5	99.000	79.300
5-6	99.000	79.300
6-7	99.000	79.300

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

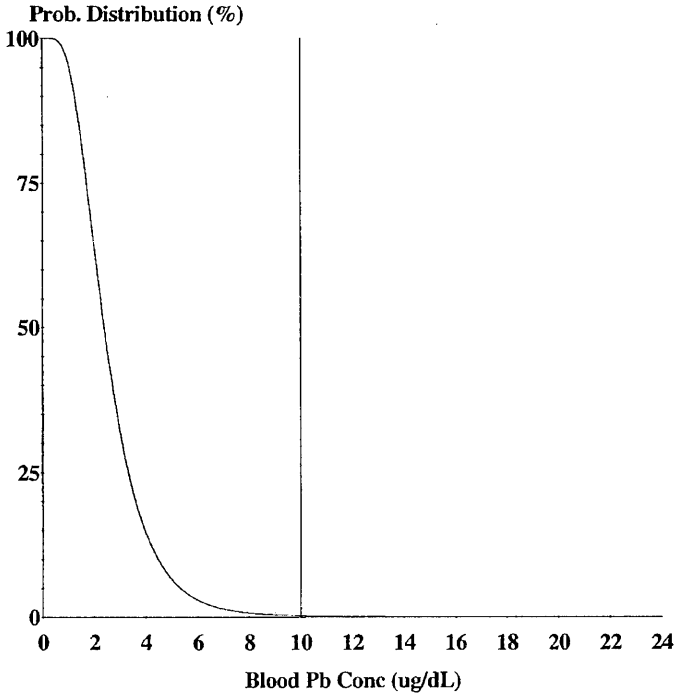
****** Maternal Contribution: Infant Model ******

Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

Year	Air (ug/dL)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.609	0.000	0.377
1-2	0.034	2.718	0.000	0.940
2-3	0.062	3.070	0.000	0.984
3-4	0.067	2.977	0.000	1.011
4-5	0.067	2.900	0.000	1.062
5-6	0.093	3.072	0.000	1.124
6-7	0.093	3.397	0.000	1.145

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	2.121	5.129	2.8
1-2	3.358	7.050	3.0
2-3	3.379	7.495	2.8
3-4	3.407	7.462	2.6
4-5	2.552	6.581	2.3
5-6	2.307	6.596	2.1
6-7	2.182	6.818	1.9



Cutoff = 10.000 ug/dl
Geo Mean = 2.501
GSD = 1.600
% Above = 0.159

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Research
Comment = 35 Third Ave

Pb[ ] = 99mg/kg

==========

Model Version: 1.0 Build 261
User Name: Cynthia Woods
Date: 5/6/05
Site Name: Third Ave
Operable Unit:
Run Mode: Research

==========

The time step used in this model run: 1 - Every 4 Hours (6 times a day).

****** Air ******

Indoor Air Pb Concentration: 30.000 percent of outdoor.
Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m^3/day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m^3)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

****** Diet ******

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

****** Drinking Water ******

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

****** Soil & Dust ******

Multiple Source Analysis Used
Average multiple source concentration: 175.900 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700
Outdoor airborne lead to indoor household dust lead concentration: 100.000
Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)

.5-1	237.000	175.900
1-2	237.000	175.900
2-3	237.000	175.900
3-4	237.000	175.900
4-5	237.000	175.900
5-6	237.000	175.900
6-7	237.000	175.900

****** Alternate Intake ******

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

****** Maternal Contribution: Infant Model ******

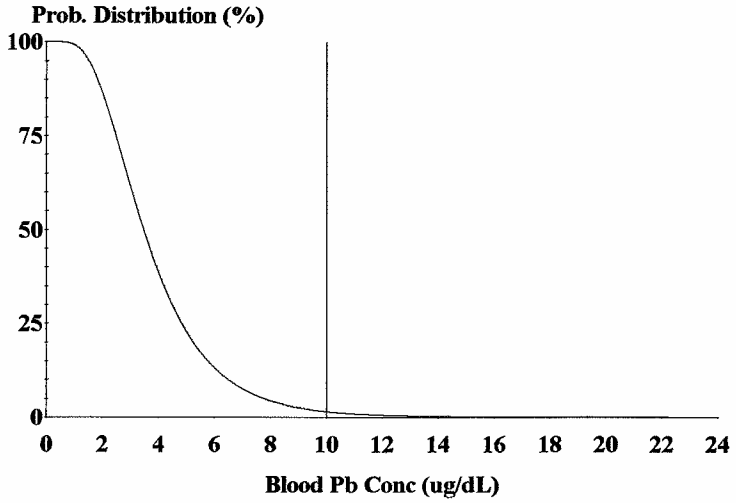
Maternal Blood Concentration: 2.500 ug Pb/dL

****
CALCULATED BLOOD LEAD AND LEAD UPTAKES:
****

Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.539	0.000	0.367
1-2	0.034	2.630	0.000	0.910
2-3	0.062	2.985	0.000	0.957
3-4	0.067	2.905	0.000	0.987
4-5	0.067	2.854	0.000	1.045
5-6	0.093	3.032	0.000	1.110
6-7	0.093	3.359	0.000	1.132

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	4.548	7.475	4.0
1-2	7.158	10.732	4.5
2-3	7.235	11.238	4.2
3-4	7.323	11.281	4.0
4-5	5.533	9.498	3.3
5-6	5.016	9.251	2.9
6-7	4.753	9.337	2.7

IEUBK Distribution Probability Percent

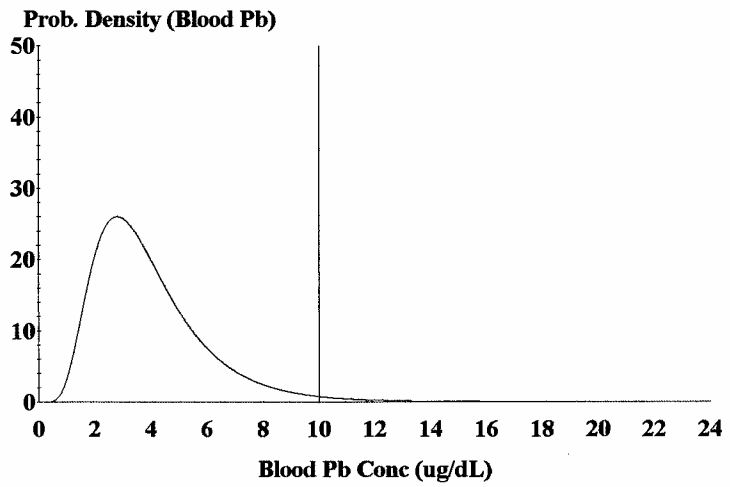


Cutoff = 10.000 ug/dl
Geo Mean = 3.636
GSD = 1.600
% Above = 1.568

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Research

Pb[ ] = 237mg/kg

IEUBK Distribution Probability Density



Cutoff = 10.000 ug/dl
Geo Mean = 3.636
GSD = 1.600
% Above = 1.568
% Below = 98.432

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Research

Pb[ ] = 237 mg/kg

Appendix B-11

Summary Statistics

TABLE 1
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	34	69	2	Undefined	2	4	Trace	30	4	95% UCL-T	1	14
Dioxins (UG/KG)												
Toxicity Equivalency	7	7	0.029	Undefined	0.061	1.5	0.001935 J	0.0983	0.098	Max		
Metals (MG/KG)												
Aluminum	21	21	10100	Lognormal	11800	12400	3220	20400	12400	95% UCL-T		
Antimony	3	16	3.3	Lognormal	4.6	7	1.1 J	11.6 J	7	95% UCL-T	8200	0
Arsenic	17	21	4.7	Lognormal	5.8	6.3	1.5 J	13.8	6.3	95% UCL-T	10	1
Barium	21	21	89.8	Lognormal	126	160	5.1	362	160	95% UCL-T	140000	0
Beryllium	10	21	0.35	Lognormal	0.44	0.47	0.15	0.89	0.47	95% UCL-T	2	0
Cadmium	11	21	0.77	Undefined	1	1.3	0.27	3.1	1.3	95% UCL-T	1000	0
Calcium	16	21	4050	Lognormal	5650	7490	1230	17300	7490	95% UCL-T		
Chromium	18	21	36.1	Lognormal	48.3	54.5	3.6 J	126	54.5	95% UCL-T	100	2
Cobalt	21	21	6.7	Normal	7.8	8.4	1.5	12.8	7.8	95% UCL-N	2500	0
Copper	31	57	169	Undefined	205	214	8.3 J	1100	214	95% UCL-T	76000	0
Iron	21	21	18100	Normal	21100	23000	3960	32800	21100	95% UCL-N		
Lead	49	74	181	Undefined	215	257	5.3 J	820	257	95% UCL-T	1000	0
Magnesium	21	21	5140	Normal	5980	6560	1140	9610	5980	95% UCL-N		
Manganese	21	21	190	Normal	223	244	41.2	366	223	95% UCL-N	47000	0
Mercury	9	21	0.19	Lognormal	0.26	0.33	0.11 J	0.83 J	0.33	95% UCL-T	610	0
Nickel	21	21	19	Normal	22.5	26.5	2.9	36.9	22.5	95% UCL-N	7500	0
Potassium	16	21	1930	Lognormal	2400	2690	560 J	5050	2690	95% UCL-T		
Selenium	4	21	0.72	Undefined	1	0.94	0.7 J	3.7 J	0.94	95% UCL-T	10000	0
Silver	6	20	0.68	Lognormal	0.9	1.1	0.38 J	1.8	1.1	95% UCL-T	10000	0
Sodium	17	21	3490	Undefined	5130	88000	304 J	14400 J	14400	Max		
Vanadium	21	21	29.4	Lognormal	34.2	36.8	7	54.3	36.8	95% UCL-T	14000	0
Zinc	21	21	135	Lognormal	168	218	10.4 J	400 J	218	95% UCL-T	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	5	17	270	Undefined	350	520	23 J	260 J	260	Max	2500000	0
4-Methylphenol	2	17	330	Lognormal	430	550	48 J	56 J	56	Max	2500000	0
Acenaphthene	6	17	310	Undefined	400	670	28 J	690 J	670	95% UCL-T	2500000	0
Acenaphthylene	13	18	740	Lognormal	1300	2000	42 J	4300 *	2000	95% UCL-T	2500000	0
Acetophenone	2	5	410	Lognormal	840	390000	25 JEB	50 JEB	50	Max		

TABLE 1
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Anthracene	13	18	700	Lognormal	1200	2100	47 J	3700	2100	95% UCL-T	2500000	0
Benzaldehyde	3	5	380	Lognormal	830	1400000	24 JEB	50 JEB	50	Max		
Benzo(a)anthracene	17	18	1600	Lognormal	2800	8000	44 J	10000	8000	95% UCL-T	7800	2
Benzo(a)pyrene	17	18	1500	Lognormal	2700	6300	51 J	13000 *	6300	95% UCL-T	1000	5
Benzo(b)fluoranthene	17	18	1800	Lognormal	3300	8900	50 J	13000 *	8900	95% UCL-T	7800	2
Benzo(g,h,i)perylene	11	17	590	Lognormal	930	1100	92 J	3400	1100	95% UCL-T	2500000	0
Benzo(k)fluoranthene	16	18	1100	Lognormal	1700	3700	51 J	5700 J	3700	95% UCL-T	78000	0
bis(2-Ethylhexyl)phthalate	8	18	350	Lognormal	470	690	35 J	910 J	690	95% UCL-T	410000	0
Butylbenzylphthalate	2	17	310	Undefined	390	540	22 J	99 J	99	Max	2500000	0
Carbazole	10	18	340	Lognormal	470	700	30 J	1300	700	95% UCL-T	290000	0
Chrysene	17	18	2000	Lognormal	3700	9800	60 J	15000 *	9800	95% UCL-T	780000	0
Dibenzo(a,h)anthracene	10	18	300	Undefined	400	610	30 J	1100 J	610	95% UCL-T	780	1
Dibenzofuran	7	17	280	Normal	360	600	31 J	640 J	360	95% UCL-N	2500000	0
Di-n-Butylphthalate	4	17	320	Undefined	430	710	22 JEB	600 J	600	Max	2500000	0
Fluoranthene	17	18	3700	Lognormal	6600	20000	100 J	23000	20000	95% UCL-T	2500000	0
Fluorene	9	18	400	Lognormal	590	880	24 J	1900	880	95% UCL-T	2500000	0
Indeno(1,2,3-cd)pyrene	16	18	600	Lognormal	950	2200	36 J	3400	2200	95% UCL-T	7800	0
Naphthalene	6	17	280	Undefined	370	550	38 J	360 J	360	Max	2500000	0
Pentachlorophenol	1	17	860	Lognormal	1100	1200	150 J	150 J	150	Max	48000	0
Phenanthrene	17	18	2400	Lognormal	4200	16000	44 J	15000	15000	Max	2500000	0
Phenol	4	13	250	Normal	290	320	77 JEB	280 JEB	280	Max	2500000	0
Pyrene	17	18	2900	Lognormal	5200	15000	99 J	20000 *	15000	95% UCL-T	2500000	0
Volatile Organic Compounds (UG/KG)												
2-Butanone	6	11	130	Undefined	340	470	2 J	1300 J	470	95% UCL-T	1000000	0
Acetone	2	11	160	Undefined	400	850	79	1500 J	850	95% UCL-T	1000000	0
Carbon Disulfide	4	10	8	Normal	10	11	3 J	14 J	10	95% UCL-N	1000000	0
Styrene	1	11	7	Normal	8	9	10 J	10 J	8	95% UCL-N	1000000	0
Toluene	3	11	8	Lognormal	12	17	1 J	28 J	17	95% UCL-T	1000000	0
Total PAH	1	1	540	< 4 Samples			541	541	540	Max		

TABLE 1
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Pesticides/PCB (UG/KG)												
4,4'-DDD	7	21	110	Undefined	280	110	0.48 J	2100 *	110	95% UCL-T	24000	0
4,4'-DDE	9	21	93	Lognormal	230	320	0.12 J	1700 *	320	95% UCL-T	17000	0
4,4'-DDT	10	20	55	Lognormal	120	270	0.35 J	730	270	95% UCL-T	17000	0
Aldrin	3	21	3.2	Undefined	5	7	0.05 J	3 J	3	Max	340	0
alpha-BHC	1	21	3.1	Undefined	5	4.6	0.36 J	0.36 J	0.36	Max	910	0
alpha-Chlordane	7	21	7.1	Undefined	15	20	0.05 J	92	20	95% UCL-T	2200	0
Aroclor, Total	15	22	6800	Undefined	17000	46000	20	130000	46000	95% UCL-T	10000	1
Aroclor, Total (Conservative)	15	22	7200	Lognormal	18000	44000	186	133410	44000	95% UCL-T	10000	1
Aroclor-1254	5	22	6500	Undefined	17000	20000	110 P	130000 *	20000	95% UCL-T	10000	1
Aroclor-1262	3	22	150	Undefined	300	200	53 J	1900 J	200	95% UCL-T	10000	0
Aroclor-1268	12	22	260	Undefined	400	730	20 J	1400	730	95% UCL-T	10000	0
delta-BHC	1	21	3.1	Undefined	5	4.4	0.74 J	0.74 J	0.74	Max	910	0
Dieldrin	7	20	98	Undefined	240	200	0.65 J	1700 *	200	95% UCL-T	360	1
Endosulfan I	1	21	3.6	Undefined	5.4	5.3	6.1	6.1	5.3	95% UCL-T	1200000	0
Endosulfan Sulfate	5	21	36	Undefined	76	81	0.8 J	490	81	95% UCL-T	1200000	0
Endrin	3	21	8.6	Undefined	16	14	0.35 J	86	14	95% UCL-T	610000	0
Endrin Aldehyde	7	20	74	Undefined	180	150	0.39 J	1200	150	95% UCL-T	610000	0
Endrin Ketone	2	21	6.5	Undefined	10	11	0.33 J	6.9	6.9	Max	610000	0
gamma-Chlordane	5	18	52	Undefined	130	88	0.38 J	840 *#	88	95% UCL-T	2200	0
Heptachlor Epoxide	3	20	2.9	Undefined	4.8	7.2	0.05 J	1 J	1	Max	630	0
Total Organic Carbon (MG/KG)												
Total Organic Carbon	5	5	49000	Lognormal	73000	120000	22500	82800	83000	Max		

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 2
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
200 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	35	46	2	Undefined	3	9	Trace	8	8	Max	1	24
Dioxins (UG/KG)												
Toxicity Equivalency	4	5	0.28	Normal	0.54	4250	0.011 J	0.665813	0.54	95% UCL-N		
Metals (MG/KG)												
Aluminum	7	7	9030	Lognormal	11200	12000	5410 J	14800	12000	95% UCL-T		
Arsenic	7	7	5.1	Normal	6.2	7.2	2.4	6.6	6.2	95% UCL-N	10	0
Barium	6	7	76.6	Normal	100	139	58.2 J	119 J	100	95% UCL-N	140000	0
Beryllium	6	6	0.41	Normal	0.57	1.2	0.1	0.69 J	0.57	95% UCL-N	2	0
Cadmium	6	7	1.6	Lognormal	2.7	5.1	0.58	4.8	4.8	Max	1000	0
Calcium	7	7	12300	Lognormal	26600	112000	1800	54600	54600	Max		
Chromium	7	7	107	Normal	169	542	23.2	208 J	169	95% UCL-N	100	3
Cobalt	7	7	7.8	Normal	9.1	9.5	5.7	9.9	9.1	95% UCL-N	2500	0
Copper	24	31	244	Undefined	333	368	33.8 J	997 J	368	95% UCL-T	76000	0
Iron	7	7	17500	Normal	19600	20100	13400	21400 J	19600	95% UCL-N		
Lead	39	46	135	Lognormal	157	168	40.1	395 J	168	95% UCL-T	1000	0
Magnesium	7	7	5520	Lognormal	7520	9400	2330 J	10700	9400	95% UCL-T		
Manganese	7	7	202	Lognormal	229	235	149	244	235	95% UCL-T	47000	0
Mercury	6	7	0.83	Lognormal	1.4	12.1	0.17	1.8 J	1.8	Max	610	0
Nickel	7	7	32.5	Normal	41.8	49.4	16.3	53.7	41.8	95% UCL-N	7500	0
Potassium	7	7	1710	Lognormal	2220	2530	804 J	3040	2530	95% UCL-T		
Selenium	1	7	0.48	Lognormal	0.69	0.86	1.1	1.1	0.86	95% UCL-T	10000	0
Silver	1	7	0.29	Normal	0.35	0.37	0.4	0.4	0.35	95% UCL-N	10000	0
Sodium	2	6	416	Undefined	788	2410	640	1250	1250	Max		
Vanadium	7	7	29	Lognormal	36.1	38.4	19.9	45.7 J	38.4	95% UCL-T	14000	0
Zinc	7	7	377	Lognormal	556	1070	95.3 J	673 J	673	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	3	5	140	Normal	250	700	64 , J	64 , J	64	Max	2500000	0
4-Chloro-3-methylphenol	2	5	220	Normal	380	2000	64 J	64 J	64	Max		
Acenaphthene	3	5	150	Lognormal	260	770	55 J	110	110	Max	2500000	0
Acenaphthylene	4	5	200	Lognormal	270	310	120	190 J	190	Max	2500000	0
Anthracene	4	5	270	Normal	310	320	210	300	300	Max	2500000	0

TABLE 2
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
200 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(a)anthracene	4	5	1200	Normal	1800	5300	990	1800	1800	Max	7800	0
Benzo(a)pyrene	4	5	910	Undefined	1200	2300	950	1100	1100	Max	1000	3
Benzo(b)fluoranthene	4	5	1300	Normal	1900	6100	1100	1800	1800	Max	7800	0
Benzo(g,h,i)perylene	4	5	600	Undefined	740	920	650	680 J	680	Max	2500000	0
Benzo(k)fluoranthene	1	5	530	Lognormal	770	930	970	970	930	95% UCL-T	78000	0
bis(2-Ethylhexyl)phthalate	1	5	390	Lognormal	480	530	260	260	260	Max	410000	0
Butylbenzylphthalate	2	5	300	Normal	460	2100	59	205	200	Max	2500000	0
Carbazole	4	5	110	Undefined	220	490	52 J	76	76	Max	290000	0
Chrysene	4	5	1200	Normal	1800	5000	1200	1700	1700	Max	780000	0
Dibenzo(a,h)anthracene	1	5	380	Normal	480	570	220	220	220	Max	780	0
Dibenzofuran	3	5	140	Normal	250	990	52 J	56	56	Max	2500000	0
Di-n-Butylphthalate	1	5	350	Normal	510	1600	82	82	82	Max	2500000	0
Fluoranthene	4	5	1700	Undefined	2400	11000	1800	2300	2300	Max	2500000	0
Fluorene	3	5	190	Normal	270	410	100 J	205	200	Max	2500000	0
Indeno(1,2,3-cd)pyrene	3	5	490	Normal	590	660	540 J	590	590	Max	7800	0
Naphthalene	3	5	140	Lognormal	250	790	55 J	77	77	Max	2500000	0
N-Nitroso-diphenylamine	3	5	400	Normal	520	660	410	520 J	520	Max	1200000	0
Phenanthrene	4	5	780	Undefined	1000	1600	850 J	1000	1000	Max	2500000	0
Phenol	1	5	320	Normal	500	10000	33 J	33 J	33	Max	2500000	0
Pyrene	4	5	1700	Normal	2500	11000	1500	2500	2500	95% UCL-N	2500000	0
Volatile Organic Compounds (UG/KG)												
2-Butanone	1	5	8	Undefined	10	10	7	7	7	Max	1000000	0
2-Hexanone	1	5	8	Lognormal	12	14	14	14	14	Max	1000000	0
4-Methyl-2-Pentanone	4	5	3	Undefined	5	8	2 J	6	6	Max	1000000	0
Acetone	1	5	41	Normal	54	65	60	60	54	95% UCL-N	1000000	0
Bromoform	1	5	7	Normal	9	10	4	4	4	Max	720000	0
Carbon Disulfide	3	5	5	Lognormal	7	10	3 , J	3 , J	3	Max	1000000	0
Ethylbenzene	2	5	6	Normal	9	19	2	7	7	Max	1000000	0
Toluene	1	5	7	Lognormal	9	9	6	6	6	Max	1000000	0
Total Xylenes	3	5	15	Undefined	30	76	7 J	43	43	Max	1000000	0

TABLE 2
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
200 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Volatile Organic Compounds (UG/KG) (cont.)												
Trichloroethene	1	5	6	Normal	9	19	2	2	2	Max	520000	0
Total PAH	2	2	12000	< 4 Samples			11602	13256	13000	Max		
Pesticides/PCB (UG/KG)												
4,4'-DDD	4	6	8.6	Normal	14	65	1.7 J	11 J	11	Max	24000	0
4,4'-DDE	6	6	4.4	Lognormal	7.3	23	0.74 J	11	11	Max	17000	0
4,4'-DDT	4	6	18	Normal	26	62	3.9 J	30	26	95% UCL-N	17000	0
alpha-Chlordane	5	6	2.1	Lognormal	3.3	4.9	0.99 J	4.7 J	4.7	Max	2200	0
Aroclor, Total	6	6	320	Undefined	560	1200	136	860	860	Max	10000	0
Aroclor, Total (Conservative)	6	6	930	Lognormal	1600	3600	316	2065	2100	Max	10000	0
Aroclor-1254	1	6	75	Lognormal	130	330	130	130	130	Max	10000	0
Aroclor-1262	5	6	160	Lognormal	310	2200	58 J	480 J	480	Max	10000	0
Aroclor-1268	5	6	160	Lognormal	290	550	65 J	460	460	Max	10000	0
beta-BHC	3	6	6.4	Normal	9.4	25	2.5	9.5 J	9.4	95% UCL-N	3200	0
Dieldrin	2	5	3.4	Lognormal	5.1	18	0.82 J	4.6	4.6	Max	360	0
Endosulfan I	1	6	3.1	Lognormal	5.5	9.6	2.3	2.3	2.3	Max	1200000	0
Endosulfan II	1	6	7.4	Lognormal	12	32	17 J	17 J	17	Max	1200000	0
Endosulfan Sulfate	2	6	7.5	Lognormal	12	20	4	11	11	Max	1200000	0
Endrin Aldehyde	3	6	5.4	Lognormal	10	28	1.8 J	6.4	6.4	Max	610000	0
Endrin Ketone	2	6	7.9	Lognormal	11	19	10 J	12	12	Max	610000	0
gamma-Chlordane	4	5	2.7	Lognormal	4.9	11	1.2 J	6.5	6.5	Max	2200	0
Heptachlor Epoxide	1	6	4.2	Lognormal	7.2	22	8.6	8.6	8.6	Max	630	0
Methoxychlor	2	6	26	Lognormal	43	110	6.1 J	27 J	27	Max	10000000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 3
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	28	38	4	Undefined	5	28	Trace	20	20	Max	1	21
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.039	< 4 Samples			0.03923115	0.03923115	0.039	Max		
Metals (MG/KG)												
Aluminum	3	3	11900	< 4 Samples			9900	15700 J	15700	Max		
Arsenic	1	3	3.4	< 4 Samples			5.4	5.4	5.4	Max	10	0
Barium	3	3	59.6	< 4 Samples			49.7 J	69.6	69.6	Max	140000	0
Beryllium	2	2	0.68	< 4 Samples			0.47	0.88	0.88	Max	2	0
Cadmium	2	3	0.64	< 4 Samples			0.58	0.98 J	0.98	Max	1000	0
Calcium	3	3	3570	< 4 Samples			2000 J	4450	4450	Max		
Chromium	3	3	52.2	< 4 Samples			17.3	112	112	Max	100	1
Cobalt	3	3	10	< 4 Samples			8.5	10.8	10.8	Max	2500	0
Copper	7	26	120	Undefined	151	154	26.8	501	154	95% UCL-T	76000	0
Iron	3	3	22000	< 4 Samples			18300 , J	29500 J	29500	Max		
Lead	28	38	136	Lognormal	180	185	33	900	185	95% UCL-T	1000	0
Magnesium	3	3	6640	< 4 Samples			4700 J	9930	9930	Max		
Manganese	3	3	270	< 4 Samples			247	290	290	Max	47000	0
Mercury	1	3	0.24	< 4 Samples			0.52 J	0.52 J	0.52	Max	610	0
Nickel	3	3	19.5	< 4 Samples			17	22.6	22.6	Max	7500	0
Potassium	3	3	2620	< 4 Samples			1950	3640 J	3640	Max		
Selenium	1	3	0.7	< 4 Samples			0.47 J	0.47 J	0.47	Max	10000	0
Sodium	2	2	8580	< 4 Samples			158	17000 J	17000	Max		
Vanadium	3	3	33.9	< 4 Samples			29	39.7	39.7	Max	14000	0
Zinc	3	3	147	< 4 Samples			51.1 J	288	288	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	2	2	66	< 4 Samples			32 J	100 J	100	Max	2500000	0
Acenaphthene	2	2	120	< 4 Samples			57 J	180 J	180	Max	2500000	0
Acenaphthylene	1	2	320	< 4 Samples			150 J	150 J	150	Max	2500000	0
Anthracene	2	2	250	< 4 Samples			160 J	340 J	340	Max	2500000	0
Benzo(a)anthracene	2	2	420	< 4 Samples			380 J	470	470	Max	7800	0
Benzo(a)pyrene	2	2	360	< 4 Samples			250 J	470	470	Max	1000	0

TABLE 3
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(b)fluoranthene	2	2	400	< 4 Samples			330 J	480	480	Max	7800	0
Benzo(g,h,i)perylene	2	2	250	< 4 Samples			170 J	330 J	330	Max	2500000	0
Benzo(k)fluoranthene	2	2	340	< 4 Samples			330 J	340 J	340	Max	78000	0
bis(2-Ethylhexyl)phthalate	1	2	180	< 4 Samples			160 J	160 J	160	Max	410000	0
Chrysene	2	2	600	< 4 Samples			580 J	620	620	Max	780000	0
Dibenzo(a,h)anthracene	1	2	320	< 4 Samples			130 J	130 J	130	Max	780	0
Dibenzofuran	2	2	87	< 4 Samples			24 J	150 J	150	Max	2500000	0
Di-n-octylphthalate	1	2	260	< 4 Samples			30 J	30 J	30	Max	2500000	0
Fluoranthene	2	2	1200	< 4 Samples			810	1600	1600	Max	2500000	0
Fluorene	2	2	240	< 4 Samples			48 J	440 J	440	Max	2500000	0
Indeno(1,2,3-cd)pyrene	2	2	220	< 4 Samples			190 J	260 J	260	Max	7800	0
N-Nitroso-diphenylamine	1	2	310	< 4 Samples			120 J	120 J	120	Max	1200000	0
Phenanthrene	2	2	1400	< 4 Samples			280 J	2500	2500	Max	2500000	0
Pyrene	2	2	1000	< 4 Samples			1000	1000	1000	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
Acetone	1	1	45	< 4 Samples			45 TB	45 TB	45	Max	1000000	0
Methylene Chloride	1	1	14	< 4 Samples			14 TB	14 TB	14	Max	760000	0
Pesticides/PCB (UG/KG)												
Aroclor, Total	2	5	180	Lognormal	410	9800	150	600	600	Max	10000	0
Aroclor, Total (Conservative)	2	5	350	Lognormal	770	340000	550	1040	1000	Max	10000	0
Aroclor-1268	2	5	180	Lognormal	410	9700	150	600	600	Max	10000	0
Dieldrin	1	3	10	< 4 Samples			20	20	20	Max	360	0
Endosulfan II	1	3	3.2	< 4 Samples			2.5 J	2.5 J	2.5	Max	1200000	0
Heptachlor	1	3	3.2	< 4 Samples			2.7	2.7	2.7	Max	1300	0
Methoxychlor	1	3	14	< 4 Samples			7.2 J	7.2 J	7.2	Max	10000000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 4
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	3	7	2	Undefined	3	5400	3	5	5	Max	1	3
Metals (MG/KG)												
Aluminum	2	2	5640	< 4 Samples			5480 J	5800 J	5800	Max		
Arsenic	1	2	1.9	< 4 Samples			2.1 J	2.1 J	2.1	Max	10	0
Barium	2	2	1080	< 4 Samples			1040	1110	1110	Max	140000	0
Beryllium	1	2	0.46	< 4 Samples			0.49 J	0.49 J	0.49	Max	2	0
Calcium	2	2	1080	< 4 Samples			1040 J	1130 J	1130	Max		
Chromium	2	2	24.5	< 4 Samples			22.1	26.8	26.8	Max	100	0
Cobalt	2	2	6.6	< 4 Samples			6.6	6.7	6.7	Max	2500	0
Copper	2	3	1230	< 4 Samples			1600 J	1980 J	1980	Max	76000	0
Iron	2	2	14000	< 4 Samples			13100 J	15000 J	15000	Max		
Lead	8	9	421	Lognormal	709	1970	60 JI	1360 J	1360	Max	1000	2
Magnesium	2	2	5530	< 4 Samples			4650 J	6410 J	6410	Max		
Manganese	2	2	164	< 4 Samples			157 J	170 J	170	Max	47000	0
Mercury	1	2	0.06	< 4 Samples			0.08 J	0.08 J	0.08	Max	610	0
Nickel	2	2	36.4	< 4 Samples			33.1	39.6	39.6	Max	7500	0
Potassium	1	2	446	< 4 Samples			554 J	554 J	554	Max		
Sodium	1	2	103	< 4 Samples			145	145	145	Max		
Vanadium	2	2	23	< 4 Samples			21.9	24.2	24.2	Max	14000	0
Zinc	2	2	204	< 4 Samples			163 J	244 J	244	Max	610000	0
Pesticides/PCB (UG/KG)												
4,4'-DDT	1	1	62	< 4 Samples			62 J	62 J	62	Max	17000	0
Aroclor, Total	2	2	7800	< 4 Samples			430	15200	15000	Max	10000	1
Aroclor, Total (Conservative)	2	2	8600	< 4 Samples			430	16805	17000	Max	10000	1
Aroclor-1262	2	2	5100	< 4 Samples			290 J	10000 J	10000	Max	10000	0
Aroclor-1268	2	2	2700	< 4 Samples			140 J	5200 J	5200	Max	10000	0
Endrin Aldehyde	1	1	52	< 4 Samples			52 J	52 J	52	Max	610000	0
Endrin Ketone	1	1	410	< 4 Samples			410 J	410 J	410	Max	610000	0
gamma-Chlordane	1	1	11	< 4 Samples			11 J	11 J	11	Max	2200	0

TABLE 4
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 5
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	6	6	5	Lognormal	8	27	Trace	10	10	Max	1	5
Metals (MG/KG)												
Aluminum	2	2	7660	< 4 Samples			5990 J	9330 J	9330	Max		
Arsenic	2	2	6.3	< 4 Samples			4.3	8.3	8.3	Max	10	0
Barium	2	2	86.3	< 4 Samples			42.7	130	130	Max	140000	0
Calcium	2	2	1950	< 4 Samples			1930 J	1970 J	1970	Max		
Chromium	2	2	15.1	< 4 Samples			13.4	16.8	16.8	Max	100	0
Cobalt	2	2	6.4	< 4 Samples			5	7.8	7.8	Max	2500	0
Copper	2	2	119	< 4 Samples			97	141 J	141	Max	76000	0
Iron	2	2	13200	< 4 Samples			10900 J	15400 J	15400	Max		
Lead	5	6	156	Normal	225	453	62.9 J	250	225	95% UCL-N	1000	0
Magnesium	2	2	2920	< 4 Samples			1820 J	4020 J	4020	Max		
Manganese	2	2	269	< 4 Samples			265 J	273 J	273	Max	47000	0
Nickel	2	2	12.2	< 4 Samples			7.1	17.3	17.3	Max	7500	0
Potassium	1	2	861	< 4 Samples			1540	1540	1540	Max		
Sodium	1	2	136	< 4 Samples			213	213	213	Max		
Vanadium	2	2	22.4	< 4 Samples			17.7	27	27	Max	14000	0
Zinc	2	2	76.3	< 4 Samples			43.6 J	109 J	109	Max	610000	0
Pesticides/PCB (UG/KG)												
alpha-Chlordane	2	2	0.84	< 4 Samples			0.69 J	1 J	1	Max	2200	0
Aroclor, Total	2	2	200	< 4 Samples			90	320	320	Max	10000	0
Aroclor, Total (Conservative)	2	2	350	< 4 Samples			243	461	460	Max	10000	0
Aroclor-1262	2	2	110	< 4 Samples			55 J	170 J	170	Max	10000	0
Aroclor-1268	2	2	92	< 4 Samples			35 J	150 J	150	Max	10000	0
Dieldrin	1	2	1.1	< 4 Samples			0.37 J	0.37 J	0.37	Max	360	0
Endosulfan II	1	2	1.5	< 4 Samples			1.1 J	1.1 J	1.1	Max	1200000	0
gamma-Chlordane	1	2	0.82	< 4 Samples			0.65 J	0.65 J	0.65	Max	2200	0
Heptachlor	1	2	0.62	< 4 Samples			0.25 J	0.25 J	0.25	Max	1300	0

TABLE 5
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 6
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	19	25	2	Undefined	2	8	Trace	10	8	95% UCL-T	1	6
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.97	< 4 Samples			0.9737265	0.9737265	0.97	Max		
Metals (MG/KG)												
Aluminum	5	5	10700	Normal	14800	24800	4010 J	16100	14800	95% UCL-N		
Arsenic	5	5	16.2	Lognormal	31.9	336	2.2	44.5	44.5	Max	10	3
Barium	5	5	252	Lognormal	461	2360	55.1	608	608	Max	140000	0
Beryllium	4	5	0.54	Normal	0.73	1	0.53	0.8 J	0.73	95% UCL-N	2	0
Cadmium	2	5	0.43	Lognormal	0.61	0.83	0.49	0.72	0.72	Max	1000	0
Calcium	5	5	4290	Lognormal	8640	22800	1660	12400	12400	Max		
Chromium	5	5	28.1	Lognormal	37.6	41.3	20.4 J	45.1	41.3	95% UCL-T	100	0
Cobalt	5	5	7.4	Normal	8.8	9.5	5.1	8.6	8.6	Max	2500	0
Copper	5	7	155	Lognormal	234	374	54.5 J	335	335	Max	76000	0
Iron	5	5	17500	Undefined	20300	21700	12300 J	19400	19400	Max		
Lead	23	25	286	Undefined	364	662	30 J	710	662	95% UCL-T	1000	0
Magnesium	5	5	4710	Normal	6540	9860	2040 J	6720	6540	95% UCL-N		
Manganese	5	5	207	Normal	257	283	145 J	263	257	95% UCL-N	47000	0
Mercury	2	5	0.24	Lognormal	0.59	12.3	0.13	0.9	0.9	Max	610	0
Nickel	5	5	22.4	Lognormal	31.7	40.1	13.1	37.3	37.3	Max	7500	0
Potassium	5	5	1470	Lognormal	2110	3070	661 J	2490	2490	Max		
Selenium	2	5	0.94	Lognormal	1.6	11.7	1.7 , J	1.7 , J	1.7	Max	10000	0
Sodium	2	5	143	Lognormal	196	232	176 J	224 J	224	Max		
Thallium	1	5	0.87	Lognormal	1.8	44.5	2.6 J	2.6 J	2.6	Max	160	0
Vanadium	5	5	34.4	Normal	41.2	44.6	23.6	41.3	41.2	95% UCL-N	14000	0
Zinc	5	5	133	Lognormal	199	249	83.2 J	252	249	95% UCL-T	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	1	3	240	< 4 Samples			170	170	170	Max	2500000	0
Acenaphthene	1	3	240	< 4 Samples			160	160	160	Max	2500000	0
Acenaphthylene	2	3	370	< 4 Samples			430	490 J	490	Max	2500000	0
Anthracene	2	3	500	< 4 Samples			410 J	880	880	Max	2500000	0
Benzo(a)anthracene	2	3	1600	< 4 Samples			1500 J	3200	3200	Max	7800	0

TABLE 6
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(a)pyrene	2	3	1500	< 4 Samples			1700 J	2500	2500	Max	1000	2
Benzo(b)fluoranthene	2	3	1900	< 4 Samples			1700 J	3800	3800	Max	7800	0
Benzo(g,h,i)perylene	2	3	1200	< 4 Samples			1500	2000 J	2000	Max	2500000	0
Benzo(k)fluoranthene	1	3	930	< 4 Samples			1500 J	1500 J	1500	Max	78000	0
Carbazole	2	3	260	< 4 Samples			170 J	400	400	Max	290000	0
Chrysene	2	3	2000	< 4 Samples			2100 J	3600	3600	Max	780000	0
Dibenzo(a,h)anthracene	2	3	470	< 4 Samples			530	670 J	670	Max	780	0
Dibenzofuran	1	3	270	< 4 Samples			250	250	250	Max	2500000	0
Fluoranthene	2	3	3400	< 4 Samples			3700 J	6300	6300	Max	2500000	0
Fluorene	2	3	360	< 4 Samples			190 J	690	690	Max	2500000	0
Indeno(1,2,3-cd)pyrene	2	3	1200	< 4 Samples			1700 , J	1700 , J	1700	Max	7800	0
Naphthalene	1	3	240	< 4 Samples			170	170	170	Max	2500000	0
Phenanthrene	2	3	2800	< 4 Samples			2300 J	5800	5800	Max	2500000	0
Phenol	1	3	550	< 4 Samples			1100	1100	1100	Max	2500000	0
Pyrene	2	3	4100	< 4 Samples			3500 J	8700	8700	Max	2500000	0
Total PAH	2	2	32000	< 4 Samples			23460	40380	40000	Max		
Pesticides/PCB (UG/KG)												
4,4'-DDD	3	4	7.8	Lognormal	13	44	4.1	14	14	Max	24000	0
4,4'-DDE	1	4	7.3	Lognormal	16	6300	17	17	17	Max	17000	0
alpha-Chlordane	1	4	3.8	Lognormal	8.6	3700	4 J	4 J	4	Max	2200	0
Aroclor, Total	4	4	610	Lognormal	1200	27000	200	1260	1300	Max	10000	0
Aroclor, Total (Conservative)	4	4	1200	Lognormal	2400	25000	455.5	2740	2700	Max	10000	0
Aroclor-1262	2	3	250	< 4 Samples			240	500	500	Max	10000	0
Aroclor-1268	4	4	420	Lognormal	720	2700	200 J	760	760	Max	10000	0
Endosulfan II	2	4	3.3	Lognormal	6.2	30	2.4 J	7	7	Max	1200000	0
Endosulfan Sulfate	1	4	4.5	Normal	8.4	150	6	6	6	Max	1200000	0
Endrin Aldehyde	3	4	13	Lognormal	28	660	4.8	32 *	32	Max	610000	0
gamma-Chlordane	1	4	3.3	Lognormal	8.2	1600	1.9 J	1.9 J	1.9	Max	2200	0

TABLE 6
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 7
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	39	39	6	Undefined	8	10	Trace	20	10	95% UCL-T	1	29
Dioxins (UG/KG)												
Toxicity Equivalency	4	4	0.17	Lognormal	0.55	3.78E+12	0.00292 J	0.6538945	0.65	Max		
Metals (MG/KG)												
Aluminum	14	14	9010	Undefined	10000	10000	6760 J	14800	10000	95% UCL-T		
Arsenic	14	14	5.9	Lognormal	7.2	7.4	3.4 J	12.2	7.4	95% UCL-T	10	1
Barium	14	14	153	Lognormal	204	256	30.9	403	256	95% UCL-T	140000	0
Beryllium	7	14	0.37	Lognormal	0.5	0.62	0.35	1	0.62	95% UCL-T	2	0
Cadmium	3	14	0.22	Lognormal	0.33	0.5	0.44 J	0.86	0.5	95% UCL-T	1000	0
Calcium	14	14	50800	Lognormal	84200	237000	1310	227000 J	227000	Max		
Chromium	14	14	24.2	Undefined	30.7	30.8	12.5	56.9	30.8	95% UCL-T	100	0
Cobalt	14	14	6	Lognormal	7	7.1	3.9	10.4 J	7.1	95% UCL-T	2500	0
Copper	17	25	88.6	Lognormal	105	112	18.8	187	112	95% UCL-T	76000	0
Iron	14	14	12900	Lognormal	13800	13900	10800	16500	13900	95% UCL-T		
Lead	39	39	201	Lognormal	244	269	18.6	710	269	95% UCL-T	1000	0
Magnesium	14	14	11900	Lognormal	19200	21000	2670	59100	21000	95% UCL-T		
Manganese	14	14	198	Lognormal	218	220	137	289	220	95% UCL-T	47000	0
Mercury	10	14	0.54	Undefined	1.3	1.1	0.082	5.9	1.1	95% UCL-T	610	0
Nickel	14	14	45	Lognormal	66.1	71.3	11.9 J	156	71.3	95% UCL-T	7500	0
Potassium	14	14	1140	Lognormal	1420	1470	521	2810	1470	95% UCL-T		
Selenium	2	14	0.77	Lognormal	1.2	1.2	1.3 J	1.5	1.2	95% UCL-T	10000	0
Silver	2	14	0.37	Undefined	0.76	0.63	0.21 J	3.2 J	0.63	95% UCL-T	10000	0
Sodium	8	14	341	Normal	444	688	378	679 J	444	95% UCL-N		
Vanadium	14	14	26.3	Undefined	30.3	30.5	19.1 J	44.8	30.5	95% UCL-T	14000	0
Zinc	14	14	97.8	Normal	116	128	30.2	162	116	95% UCL-N	610000	0
Semivolatile Organic Compounds (UG/KG)												
1,2-Dichlorobenzene	1	2	190	< 4 Samples			180 J	180 J	180	Max	1000000	0
2,4-Dimethylphenol	1	9	220	Lognormal	240	250	180	180	180	Max	2500000	0
2-Methylnaphthalene	7	13	170	Normal	220	290	39 J	220 J	220	95% UCL-N	2500000	0
4-Methylphenol	2	9	190	Undefined	240	360	44 J	63 J	63	Max	2500000	0
Acenaphthene	5	9	160	Undefined	230	360	47 J	83 J	83	Max	2500000	0
Acenaphthylene	6	13	220	Undefined	260	300	84 J	280 , J	280	Max	2500000	0

TABLE 7
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Anthracene	10	13	240	Lognormal	290	300	100 J	460	300	95% UCL-T	2500000	0
Benzo(a)anthracene	12	13	660	Lognormal	910	1200	170 J	1800 J	1200	95% UCL-T	7800	0
Benzo(a)pyrene	12	13	470	Lognormal	640	870	96 J	1100	870	95% UCL-T	1000	1
Benzo(b)fluoranthene	12	13	640	Lognormal	850	1100	160 J	1500	1100	95% UCL-T	7800	0
Benzo(g,h,i)perylene	9	13	240	Normal	280	340	71	370	280	95% UCL-N	2500000	0
Benzo(k)fluoranthene	12	13	520	Lognormal	680	840	160 J	1100	840	95% UCL-T	78000	0
bis(2-Ethylhexyl)phthalate	10	13	180	Lognormal	280	320	30 J	830	320	95% UCL-T	410000	0
Carbazole	10	13	150	Lognormal	190	230	45 J	230 J	230	Max	290000	0
Chrysene	12	13	850	Lognormal	1100	1500	210 J	2100	1500	95% UCL-T	780000	0
Dibenzo(a,h)anthracene	6	13	250	Normal	280	290	140 J	330 , J	280	95% UCL-N	780	0
Dibenzofuran	4	13	200	Normal	240	290	66	150 J	150	Max	2500000	0
Di-n-Butylphthalate	5	13	200	Normal	240	320	52 J	200 J	200	Max	2500000	0
Di-n-octylphthalate	1	13	230	Undefined	270	530	12 J	12 J	12	Max	2500000	0
Fluoranthene	12	13	1500	Normal	1900	3000	390 J	2800	1900	95% UCL-N	2500000	0
Fluorene	9	13	160	Lognormal	200	220	78 J	260 J	220	95% UCL-T	2500000	0
Indeno(1,2,3-cd)pyrene	11	13	390	Lognormal	510	650	69 J	930	650	95% UCL-T	7800	0
Naphthalene	7	13	200	Normal	240	280	66	240 J	240	95% UCL-N	2500000	0
Phenanthrene	12	13	1000	Lognormal	1400	1900	250 J	2900	1900	95% UCL-T	2500000	0
Pyrene	13	13	2100	Lognormal	3000	8600	63 J	6600 J*	6600	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
1,2-Dichlorobenzene	2	11	6	Lognormal	8	9	2 J	3 J	3	Max	1000000	0
2-Butanone	9	13	20	Undefined	26	38	6 J	36	36	Max	1000000	0
Acetone	7	13	59	Undefined	85	270	37	140 J	140	Max	1000000	0
Benzene	8	13	4	Normal	5	8	1 J	7 J	5	95% UCL-N	200000	0
Carbon Disulfide	11	13	22	Lognormal	33	69	1 J	85 J	69	95% UCL-T	1000000	0
Chlorobenzene	1	13	8	Undefined	12	11	29	29	11	95% UCL-T	1000000	0
cis-1,2-Dichloroethene	1	11	6	Undefined	8	9	2 J	2 J	2	Max		
Cyclohexane	9	11	6	Lognormal	7	8	2 J	12 J	8	95% UCL-T		
Ethylbenzene	10	13	16	Lognormal	23	49	2 J	41	41	Max	1000000	0
Isopropylbenzene	3	11	6	Undefined	8	13	0.7 J	14 J	13	95% UCL-T		
Methyl Acetate	1	11	6	Normal	8	9	2 J	2 J	2	Max		

TABLE 7
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Volatile Organic Compounds (UG/KG) (cont.)												
Methyl tert-Butyl Ether	3	11	12	Undefined	17	20	23 J	29	20	95% UCL-T		
Methylcyclohexane	10	11	8	Normal	11	17	1 J	16	11	95% UCL-N		
Toluene	10	13	14	Lognormal	21	24	3 J	50	24	95% UCL-T	1000000	0
Total Xylenes	11	13	72	Lognormal	110	780	2 J	190	190	Max	1000000	0
Pesticides/PCB (UG/KG)												
4,4'-DDD	2	14	12	Undefined	24	24	6.7 J	98 J	24	95% UCL-T	24000	0
4,4'-DDE	10	14	45	Undefined	110	95	2.2 J	530	95	95% UCL-T	17000	0
4,4'-DDT	4	14	6.9	Undefined	11	12	3.8 J	20 J	12	95% UCL-T	17000	0
alpha-Chlordane	2	14	5.5	Undefined	11	9.4	2.7	46	9.4	95% UCL-T	2200	0
Aroclor, Total	14	15	9500	Undefined	25000	15000	170	136000	15000	95% UCL-T	10000	1
Aroclor, Total (Conservative)	14	15	9900	Undefined	26000	18000	359.5	138075	18000	95% UCL-T	10000	1
Aroclor-1254	1	15	5600	Undefined	15000	7400	83000 *	83000 *	7400	95% UCL-T	10000	1
Aroclor-1262	13	15	2600	Undefined	6800	3700	100	36000 *	3700	95% UCL-T	10000	1
Aroclor-1268	13	15	1400	Undefined	3300	2400	74	17000	2400	95% UCL-T	10000	1
delta-BHC	1	14	3	Undefined	4.8	4.9	4 J	4 J	4	Max	910	0
Dieldrin	2	14	58	Undefined	160	83	2.6 J	770	83	95% UCL-T	360	1
Endosulfan II	2	14	6.1	Undefined	9.6	10	8.3 J	11 J	10	95% UCL-T	1200000	0
Endosulfan Sulfate	8	14	180	Undefined	470	440	3.8 J	2300 *#	440	95% UCL-T	1200000	0
Endrin	1	14	6.4	Undefined	9.9	11	6.4	6.4	6.4	Max	610000	0
Endrin Aldehyde	3	14	160	Undefined	440	270	6.2 #	2200 *#	270	95% UCL-T	610000	0
Endrin Ketone	4	14	7.9	Lognormal	11	14	5.1	13	13	Max	610000	0
Heptachlor Epoxide	1	14	3.3	Undefined	5.2	5.8	7.8 J	7.8 J	5.8	95% UCL-T	630	0
Methoxychlor	2	14	88	Undefined	170	230	480 J	520	230	95% UCL-T	10000000	0

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 8
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Residential) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	7	14	8	Undefined	18	1300	Trace	80	80	Max	1	5
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.015	< 4 Samples			0.0149 J	0.0149 J	0.015	Max		
Metals (MG/KG)												
Aluminum	1	1	10400	< 4 Samples			10400	10400	10400	Max		
Arsenic	1	1	5.1	< 4 Samples			5.1 J	5.1 J	5.1	Max	10	0
Barium	1	1	93.1	< 4 Samples			93.1	93.1	93.1	Max	4700	0
Beryllium	1	1	0.69	< 4 Samples			0.69 J	0.69 J	0.69	Max	2	0
Calcium	1	1	2980	< 4 Samples			2980	2980	2980	Max		
Chromium	1	1	20	< 4 Samples			20 J	20 J	20	Max	100	0
Cobalt	1	1	6.6	< 4 Samples			6.6	6.6	6.6	Max	1000	0
Copper	5	5	451	Undefined	1310	321000	43 J	2060	2060	Max	2500	0
Iron	1	1	12900	< 4 Samples			12900	12900	12900	Max		
Lead	14	14	811	Lognormal	1580	2920	36 J	6170	2920	95% UCL-T	400	4
Magnesium	1	1	3080	< 4 Samples			3080	3080	3080	Max		
Manganese	1	1	256	< 4 Samples			256	256	256	Max	1600	0
Mercury	1	1	0.16	< 4 Samples			0.16	0.16	0.16	Max	20	0
Nickel	1	1	11.2	< 4 Samples			11.2	11.2	11.2	Max	1400	0
Potassium	1	1	943	< 4 Samples			943	943	943	Max		
Silver	1	1	1.5	< 4 Samples			1.5 J	1.5 J	1.5	Max	340	0
Sodium	1	1	112	< 4 Samples			112	112	112	Max		
Vanadium	1	1	30.2	< 4 Samples			30.2	30.2	30.2	Max	470	0
Zinc	1	1	88.3	< 4 Samples			88.3	88.3	88.3	Max	20000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	1	1	20	< 4 Samples			20 J	20 J	20	Max	474000	0
Acenaphthene	1	1	130	< 4 Samples			130 J	130 J	130	Max	1000000	0
Acenaphthylene	1	1	190	< 4 Samples			190 J	190 J	190	Max	1000000	0
Anthracene	1	1	500	< 4 Samples			500	500	500	Max	1000000	0
Benzo(a)anthracene	1	1	2200	< 4 Samples			2200 J	2200 J	2200	Max	1000	1
Benzo(a)pyrene	1	1	2000	< 4 Samples			2000 J	2000 J	2000	Max	1000	1

TABLE 8
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Residential) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(b)fluoranthene	1	1	2000	< 4 Samples			2000 J	2000 J	2000	Max	1000	1
Benzo(g,h,i)perylene	1	1	880	< 4 Samples			880 J	880 J	880	Max	1000000	0
Benzo(k)fluoranthene	1	1	1800	< 4 Samples			1800 J	1800 J	1800	Max	8400	0
Butylbenzylphthalate	1	1	41	< 4 Samples			41 J	41 J	41	Max	1000000	0
Carbazole	1	1	240	< 4 Samples			240 J	240 J	240	Max	31000	0
Chrysene	1	1	2400	< 4 Samples			2400 J	2400 J	2400	Max	84000	0
Dibenzo(a,h)anthracene	1	1	370	< 4 Samples			370 J	370 J	370	Max	84	1
Dibenzofuran	1	1	100	< 4 Samples			100 J	100 J	100	Max	270000	0
Di-n-Butylphthalate	1	1	24	< 4 Samples			24 J	24 J	24	Max	1000000	0
Fluoranthene	1	1	3800	< 4 Samples			3800 *	3800 *	3800	Max	1000000	0
Fluorene	1	1	150	< 4 Samples			150 J	150 J	150	Max	1000000	0
Indeno(1,2,3-cd)pyrene	1	1	960	< 4 Samples			960 J	960 J	960	Max	840	1
Naphthalene	1	1	38	< 4 Samples			38 J	38 J	38	Max	1000000	0
Phenanthrene	1	1	2200	< 4 Samples			2200	2200	2200	Max	1000000	0
Pyrene	1	1	6200	< 4 Samples			6200 J	6200 J	6200	Max	1000000	0
Pesticides/PCB (UG/KG)												
Aroclor, Total	1	1	590	< 4 Samples			590	590	590	Max	1000	0
Aroclor, Total (Conservative)	1	1	1300	< 4 Samples			1290	1290	1300	Max	1000	1
Aroclor-1254	1	1	100	< 4 Samples			100 J	100 J	100	Max	1000	0
Aroclor-1262	1	1	230	< 4 Samples			230 J	230 J	230	Max	1000	0
Aroclor-1268	1	1	260	< 4 Samples			260 J	260 J	260	Max	1000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 9
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	28	35	3	Undefined	4	11	Trace	20	11	95% UCL-T	1	16
Metals (MG/KG)												
Aluminum	2	2	9530	< 4 Samples			9530 J	9530 J	9530	Max		
Arsenic	2	2	12.6	< 4 Samples			12.6 J	12.6 J	12.6	Max	10	2
Barium	2	2	47.6	< 4 Samples			47.6 J	47.6 J	47.6	Max	140000	0
Calcium	2	2	2630	< 4 Samples			2630 J	2630 J	2630	Max		
Chromium	2	2	16.3	< 4 Samples			16.3 J	16.3 J	16.3	Max	100	0
Copper	6	24	80.7	Undefined	94.2	105	14	201	105	95% UCL-T	76000	0
Iron	2	2	14700	< 4 Samples			14700 J	14700 J	14700	Max		
Lead	28	35	119	Undefined	168	225	11	840	225	95% UCL-T	1000	0
Magnesium	2	2	3710	< 4 Samples			3710 J	3710 J	3710	Max		
Manganese	2	2	168	< 4 Samples			168 J	168 J	168	Max	47000	0
Nickel	2	2	12.5	< 4 Samples			12.5 J	12.5 J	12.5	Max	7500	0
Potassium	2	2	1680	< 4 Samples			1680	1680	1680	Max		
Vanadium	2	2	27.1	< 4 Samples			27.1	27.1	27.1	Max	14000	0
Zinc	2	2	43.2	< 4 Samples			43.2 J	43.2 J	43.2	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	2	2	1300	< 4 Samples			1300 J	1300 J	1300	Max	2500000	0
Acenaphthene	2	2	1400	< 4 Samples			1400 J	1400 J	1400	Max	2500000	0
Benzo(a)anthracene	2	2	320	< 4 Samples			320 J	320 J	320	Max	7800	0
Benzo(a)pyrene	2	2	360	< 4 Samples			360 J	360 J	360	Max	1000	0
Benzo(b)fluoranthene	2	2	680	< 4 Samples			680 J	680 J	680	Max	7800	0
Benzo(g,h,i)perylene	2	2	290	< 4 Samples			290 J	290 J	290	Max	2500000	0
Benzo(k)fluoranthene	2	2	140	< 4 Samples			140 J	140 J	140	Max	78000	0
bis(2-Ethylhexyl)phthalate	2	2	1900	< 4 Samples			1900 J	1900 J	1900	Max	410000	0
Carbazole	2	2	180	< 4 Samples			180 J	180 J	180	Max	290000	0
Chrysene	2	2	400	< 4 Samples			400 J	400 J	400	Max	780000	0
Dibenzofuran	2	2	400	< 4 Samples			400 J	400 J	400	Max	2500000	0
Fluoranthene	2	2	670	< 4 Samples			670 J	670 J	670	Max	2500000	0
Fluorene	2	2	790	< 4 Samples			790 J	790 J	790	Max	2500000	0

TABLE 9
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (cont.)												
Indeno(1,2,3-cd)pyrene	2	2	270	< 4 Samples			270 J	270 J	270	Max	7800	0
Naphthalene	2	2	3800	< 4 Samples			3800 J	3800 J	3800	Max	2500000	0
Phenanthrene	2	2	450	< 4 Samples			450 J	450 J	450	Max	2500000	0
Pyrene	2	2	580	< 4 Samples			580 J	580 J	580	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
Benzene	2	2	1200	< 4 Samples			1200	1200	1200	Max	200000	0
Ethylbenzene	2	2	110	< 4 Samples			110	110	110	Max	1000000	0
Toluene	2	2	200	< 4 Samples			200	200	200	Max	1000000	0
Total Xylenes	2	2	560	< 4 Samples			560	560	560	Max	1000000	0
Total PAH	1	1	12000	< 4 Samples			11850	11850	12000	Max		
Pesticides/PCB (UG/KG)												
Aroclor, Total	2	3	54	< 4 Samples			58	58	58	Max	10000	0
Aroclor, Total (Conservative)	2	3	180	< 4 Samples			250.5	250.5	250	Max	10000	0
Aroclor-1262	2	3	32	< 4 Samples			26 J	26 J	26	Max	10000	0
Aroclor-1268	2	3	36	< 4 Samples			32 J	32 J	32	Max	10000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 10
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	25	33	11	Undefined	17	110	Trace	80	80	Max	1	16
Metals (MG/KG)												
Aluminum	2	2	8660	< 4 Samples			3530	13800 J	13800	Max		
Arsenic	2	2	5.1	< 4 Samples			1.7 J	8.5	8.5	Max	10	0
Barium	2	2	114	< 4 Samples			16.3 J	212	212	Max	140000	0
Beryllium	1	2	0.6	< 4 Samples			1.1 J	1.1 J	1.1	Max	2	0
Cadmium	1	2	0.46	< 4 Samples			0.81 J	0.81 J	0.81	Max	1000	0
Calcium	2	2	1700	< 4 Samples			611	2780 J	2780	Max		
Chromium	2	2	29.8	< 4 Samples			5.1 J	54.5	54.5	Max	100	0
Cobalt	2	2	8.6	< 4 Samples			3.4	13.8	13.8	Max	2500	0
Copper	5	8	145	Lognormal	250	626	13.8	516 J	516	Max	76000	0
Iron	2	2	16400	< 4 Samples			7740	25100 J	25100	Max		
Lead	27	33	497	Undefined	794	2290	3.3	4222	2290	95% UCL-T	1000	3
Magnesium	2	2	4060	< 4 Samples			1510	6600 J	6600	Max		
Manganese	2	2	266	< 4 Samples			167	365 J	365	Max	47000	0
Mercury	1	2	0.072	< 4 Samples			0.12 J	0.12 J	0.12	Max	610	0
Nickel	2	2	17.9	< 4 Samples			5.4	30.3	30.3	Max	7500	0
Potassium	2	2	1730	< 4 Samples			803	2650	2650	Max		
Vanadium	2	2	35	< 4 Samples			10.2	59.7 J	59.7	Max	14000	0
Zinc	2	2	106	< 4 Samples			14.2	197 J	197	Max	610000	0
Pesticides/PCB (UG/KG)												
4,4'-DDE	1	2	3	< 4 Samples			4.2 J	4.2 J	4.2	Max	17000	0
4,4'-DDT	1	2	7.4	< 4 Samples			13 J	13 J	13	Max	17000	0
alpha-Chlordane	1	2	6	< 4 Samples			11 J	11 J	11	Max	2200	0
Aroclor, Total	3	4	1200	Lognormal	3.30E+03	2.1E+14	430	3900	3900	Max	10000	0
Aroclor, Total (Conservative)	3	4	1700	Lognormal	4.30E+03	1.5E+16	830	5025	5000	Max	10000	0
Aroclor268	3	4	1200	Lognormal	3.30E+03	2.1E+14	430	3900 J	3900	Max	10000	0
Dieldrin	1	2	14	< 4 Samples			27 J	27 J	27	Max	360	0

TABLE 10
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Pesticides/PCB (UG/KG) (cont.)												
Endosulfan II	1	2	15	< 4 Samples			28 J	28 J	28	Max	1200000	0
Endrin Ketone	1	2	100	< 4 Samples			200 J	200 J	200	Max	610000	0
gamma-Chlordane	1	2	6.5	< 4 Samples			12 J	12 J	12	Max	2200	0
Heptachlor	1	2	2.6	< 4 Samples			4.2 J	4.2 J	4.2	Max	1300	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 11
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	80	125	3	Undefined	4	4	Trace	60	4	95% UCL-T	1	24
Dioxins (UG/KG)												
Toxicity Equivalency	3	7	0.21	Lognormal	0.38	21800	0.00113	0.00623 J	0.0062	Max		
Metals (MG/KG)												
Aluminum	18	18	8660	Normal	10600	15100	1030	14500	10600	95% UCL-N		
Arsenic	18	18	22.4	Lognormal	34.2	45	3.2 J	117	45	95% UCL-T	10	8
Barium	18	18	123	Undefined	167	208	32 J	403 J	208	95% UCL-T	140000	0
Beryllium	9	17	0.38	Lognormal	0.5	0.75	0.39	0.93 J	0.75	95% UCL-T	2	0
Cadmium	3	18	0.23	Lognormal	0.37	0.49	0.22	1.6 J	0.49	95% UCL-T	1000	0
Calcium	16	18	3180	Lognormal	4490	6430	846 J	14100 J	6430	95% UCL-T		
Chromium	18	18	21.3	Lognormal	26.8	29.6	4.2	60.2	29.6	95% UCL-T	100	0
Cobalt	18	18	7.4	Lognormal	9.1	9.9	1.6	21.2	9.9	95% UCL-T	2500	0
Copper	42	52	116	Lognormal	141	154	11.75	490	154	95% UCL-T	76000	0
Iron	18	18	21400	Lognormal	24200	24900	12000	34700	24900	95% UCL-T		
Lead	80	125	133	Undefined	180	154	6	2600	154	95% UCL-T	1000	3
Magnesium	18	18	3450	Normal	4340	7850	235	7760	4340	95% UCL-N		
Manganese	18	18	187	Normal	231	419	13.3 J	344	231	95% UCL-N	47000	0
Mercury	14	18	0.47	Lognormal	0.89	0.99	0.07 , J	4.3	0.99	95% UCL-T	610	0
Nickel	18	18	18	Lognormal	23.2	24.8	5.3	52.8	24.8	95% UCL-T	7500	0
Potassium	17	18	1520	Lognormal	1850	2070	383	3330	2070	95% UCL-T		
Selenium	5	18	1.7	Lognormal	2.3	3.1	0.99 J	5.2	3.1	95% UCL-T	10000	0
Silver	3	18	0.45	Undefined	0.71	0.75	0.34	2.5 J	0.75	95% UCL-T	10000	0
Sodium	7	16	582	Undefined	1110	990	133	5090	990	95% UCL-T		
Thallium	1	18	0.69	Undefined	1.2	0.9	5.2	5.2	0.9	95% UCL-T	160	0
Vanadium	18	18	27.9	Normal	32.3	36.1	7	47.4	32.3	95% UCL-N	14000	0
Zinc	18	18	74.3	Lognormal	100	156	6.8	267 J	156	95% UCL-T	610000	0
Semivolatile Organic Compounds (UG/KG)												
1,1'-Biphenyl	1	6	200	Normal	270	740	36	36	36	Max		
2-Methylnaphthalene	4	15	330	Undefined	530	500	74 J	130	130	Max	2500000	0
4-Methylphenol	1	15	330	Undefined	530	430	260	260	260	Max	2500000	0
Acenaphthene	7	14	320	Lognormal	500	660	42 J	1500 J	660	95% UCL-T	2500000	0

TABLE 11
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Acenaphthylene	6	15	600	Undefined	1100	990	78 J	1000	990	95% UCL-T	2500000	0
Anthracene	9	15	610	Lognormal	1000	1400	55 J	3500 J	1400	95% UCL-T	2500000	0
Benzo(a)anthracene	12	15	1600	Lognormal	2800	6700	58 J	10000 J	6700	95% UCL-T	7800	1
Benzo(a)pyrene	11	15	1500	Lognormal	2600	5900	62 J	9200 J	5900	95% UCL-T	1000	4
Benzo(b)fluoranthene	12	15	1800	Lognormal	3300	6500	72 J	13000 J	6500	95% UCL-T	7800	1
Benzo(g,h,i)perylene	7	15	900	Undefined	1600	1900	130	5700 J	1900	95% UCL-T	2500000	0
Benzo(k)fluoranthene	9	15	1000	Lognormal	1600	2400	120 J	4100 J	2400	95% UCL-T	78000	0
bis(2-Ethylhexyl)phthalate	2	15	340	Undefined	540	530	56	83 J	83	Max	410000	0
Carbazole	7	15	420	Undefined	760	620	71	3100 J	620	95% UCL-T	290000	0
Chrysene	11	15	1700	Lognormal	2900	6500	100 J	9800 J	6500	95% UCL-T	780000	0
Dibenzo(a,h)anthracene	7	15	330	Lognormal	500	610	47 J	1500	610	95% UCL-T	780	1
Dibenzofuran	6	15	280	Undefined	370	360	130 J	950 J	360	95% UCL-T	2500000	0
Diethylphthalate	2	15	340	Undefined	540	540	58 JTB	72 JTB	72	Max	2500000	0
Di-n-Butylphthalate	1	15	390	Undefined	590	550	750	750	550	95% UCL-T	2500000	0
Fluoranthene	13	15	3100	Lognormal	5400	36000	45 J	17000 J	17000	Max	2500000	0
Fluorene	7	15	410	Lognormal	610	660	64 J	1900 J	660	95% UCL-T	2500000	0
Indeno(1,2,3-cd)pyrene	8	15	900	Undefined	1500	1800	140 J	5200 J	1800	95% UCL-T	7800	0
Naphthalene	5	15	330	Lognormal	530	520	66 J	345	340	Max	2500000	0
Phenanthrene	12	15	2100	Undefined	3900	8100	160 J	15000 J	8100	95% UCL-T	2500000	0
Phenol	1	15	330	Undefined	530	420	250	250	250	Max	2500000	0
Pyrene	14	15	3500	Lognormal	6100	35000	62 J	21000 J	21000	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
1,1-Dichloroethane	2	11	7	Lognormal	10	10	10	18 J	10	95% UCL-T	1000000	0
2-Butanone	1	11	6	Lognormal	8	8	11 J	11 J	8	95% UCL-T	1000000	0
Acetone	1	11	18	Undefined	34	47	70	70	47	95% UCL-T	1000000	0
Carbon Disulfide	3	11	10	Lognormal	18	22	1 J	52	22	95% UCL-T	1000000	0
Chloromethane	1	11	6	Lognormal	7	7	4 J	4 J	4	Max	440000	0
Ethylbenzene	1	11	6	Lognormal	8	9	2 J	2 J	2	Max	1000000	0
Isopropylbenzene	1	6	6	Undefined	8	9	6 J	6 J	6	Max		

TABLE 11
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Volatile Organic Compounds (UG/KG) (cont.)												
Tetrachloroethene	1	11	6	Normal	8	11	1	1	1	Max	110000	0
Toluene	1	11	6	Lognormal	8	8	3 J	3 J	3	Max	1000000	0
Total Xylenes	1	11	8	Lognormal	10	11	18 J	18 J	11	95% UCL-T	1000000	0
Total PAH	2	2	30000	< 4 Samples			1550	58985	59000	Max		
Pesticides/PCB (UG/KG)												
4,4'-DDD	3	17	3.3	Undefined	4.8	4.4	0.99 J	16 J	4.4	95% UCL-T	24000	0
4,4'-DDE	4	17	2.8	Undefined	3.8	3.7	1.2 J	10 J	3.7	95% UCL-T	17000	0
4,4'-DDT	10	17	5.5	Lognormal	7.4	8.7	1.7 J	18	8.7	95% UCL-T	17000	0
Aldrin	1	17	1.4	Undefined	2	1.8	0.75 J	0.75 J	0.75	Max	340	0
alpha-BHC	1	17	1.4	Undefined	2	1.8	0.56 J	0.56 J	0.56	Max	910	0
alpha-Chlordane	8	18	7.5	Undefined	14	15	1 J	71 J	15	95% UCL-T	2200	0
Aroclor, Total	7	19	140	Undefined	240	320	76	830	320	95% UCL-T	10000	0
Aroclor, Total (Conservative)	7	19	260	Undefined	430	1200	256.5	1840	1200	95% UCL-T	10000	0
Aroclor-1262	7	18	84	Undefined	130	160	63 J	340 J	160	95% UCL-T	10000	0
Aroclor-1268	5	19	76	Undefined	130	120	19 J	490 J	120	95% UCL-T	10000	0
delta-BHC	2	17	1.4	Undefined	2	1.8	0.45 J	1.5 J	1.5	Max	910	0
Dieldrin	6	17	2.8	Undefined	3.5	4	0.49 J	6.7	4	95% UCL-T	360	0
Endosulfan I	4	18	6.5	Undefined	14	10	8	74 J	10	95% UCL-T	1200000	0
Endosulfan II	1	17	2.8	Undefined	3.9	3.5	1.4 J	1.4 J	1.4	Max	1200000	0
Endosulfan Sulfate	4	18	3.4	Undefined	5.2	4.4	1.4 J	20 #	4.4	95% UCL-T	1200000	0
Endrin	1	17	3	Undefined	4.1	3.8	4.7	4.7	3.8	95% UCL-T	610000	0
Endrin Aldehyde	1	17	2.5	Undefined	3.2	3.1	7.5 J	7.5 J	3.1	95% UCL-T	610000	0
Endrin Ketone	3	17	3.2	Undefined	4.4	4.2	2.5 J	6.8	4.2	95% UCL-T	610000	0
gamma-Chlordane	7	17	7.9	Undefined	17	14	0.85 J	87 J	14	95% UCL-T	2200	0
Heptachlor	4	17	1.7	Undefined	2.8	2.5	0.25 J	11 J	2.5	95% UCL-T	1300	0
Heptachlor Epoxide	2	17	1.3	Undefined	1.6	1.5	1.3 J	4.1 J	1.5	95% UCL-T	630	0
Methoxychlor	4	17	14	Undefined	20	19	3.3 J	22	19	95% UCL-T	10000000	0

TABLE 11
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 12
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Asbestos (%)														
Asbestos	20	56	0.8	Undefined	1	2	0.9	, *	10		2	95% UCL-T	1	10
Metals (MG/KG)														
Aluminum	12	12	8170	Normal	10100	21400	443		14000		10100	95% UCL-N		
Antimony	2	10	4.8	Lognormal	7	11.5	9.6	J	12.4	J	11.5	95% UCL-T	8200	0
Arsenic	12	12	3.1	Lognormal	4	5	0.83		5.8		5	95% UCL-T	10	0
Barium	12	12	56	Undefined	75.2	168	2.4		152		152	Max	140000	0
Beryllium	11	12	0.46	Undefined	0.63	1.6	0.22	J	1.3	J	1.3	Max	2	0
Cadmium	4	12	0.45	Normal	0.59	1.1	0.19		1.1	J	0.59	95% UCL-N	1000	0
Calcium	12	12	1380	Normal	1760	2880	130	J	2480		1760	95% UCL-N		
Chromium	11	12	15.3	Normal	18.7	65.4	9.2		25.2		18.7	95% UCL-N	100	0
Cobalt	12	12	6.7	Undefined	9.3	19.2	0.3	J	21.5		19.2	95% UCL-T	2500	0
Copper	21	35	109	Undefined	137	178	2.1	J	526		178	95% UCL-T	76000	0
Iron	12	12	12900	Normal	15600	32400	729		19200		15600	95% UCL-N		
Lead	42	60	304	Undefined	388	570	18.7	J	1800		570	95% UCL-T	1000	3
Magnesium	12	12	2670	Normal	3230	5410	234		4260		3230	95% UCL-N		
Manganese	12	12	174	Normal	213	360	14.6		330		213	95% UCL-N	47000	0
Mercury	4	12	0.1	Lognormal	0.15	0.2	0.13		0.28		0.2	95% UCL-T	610	0
Nickel	12	12	18.1	Undefined	28	52.4	0.78	J	76.2		52.4	95% UCL-T	7500	0
Potassium	11	12	1220	Normal	1500	2420	147		1840		1500	95% UCL-N		
Silver	6	12	0.86	Normal	1.1	1.8	0.33		1.7	J	1.1	95% UCL-N	10000	0
Sodium	7	12	99.1	Lognormal	137	190	74.6		238		190	95% UCL-T		
Thallium	2	12	0.18	Lognormal	0.23	0.27	0.24	J	0.25		0.25	Max	160	0
Vanadium	12	12	23.4	Normal	28.2	64.3	1.1	J	36.2		28.2	95% UCL-N	14000	0
Zinc	12	12	137	Lognormal	236	540	4.3	J	720	J	540	95% UCL-T	610000	0
Semivolatile Organic Compounds (UG/KG)														
Acenaphthylene	4	4	110	Lognormal	270	150000	24		320	J	320	Max	2500000	0
Anthracene	4	4	110	Lognormal	260	23000	30		300	J	300	Max	2500000	0
Benzo(a)anthracene	4	4	450	Lognormal	1100	210000	120		1300	J	1300	Max	7800	0
Benzo(a)pyrene	4	4	510	Lognormal	1300	250000	140		1500		1500	Max	1000	1
Benzo(b)fluoranthene	4	4	510	Undefined	1200	62000	180	J	1400		1400	Max	7800	0
Benzo(g,h,i)perylene	4	4	280	Lognormal	580	5000	130	J	660	J	660	Max	2500000	0
Benzo(k)fluoranthene	4	4	500	Undefined	1300	250000	150	J	1500		1500	Max	78000	0
Butylbenzylphthalate	2	4	300	Lognormal	640	400000	44	J	290		290	Max	2500000	0
Carbazole	3	4	150	Normal	200	310	84	J	175		180	Max	290000	0
Chrysene	4	4	600	Lognormal	1500	390000	170		1800		1800	Max	780000	0
Dibenzo(a,h)anthracene	2	4	240	Lognormal	610	2100000	43	J	47		47	Max	780	0
Di-n-Butylphthalate	2	4	260	Lognormal	610	330000	42	J	120		120	Max	2500000	0

TABLE 12
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (CONT.)														
Fluoranthene	4	4	1100	Lognormal	2700	1100000	260	J	3100		3100	Max	2500000	0
Fluorene	1	4	270	Lognormal	620	11000000	23	J	23	J	23	Max	2500000	0
Indeno(1,2,3-cd)pyrene	4	4	390	Undefined	950	60000	140		1100	J	1100	Max	7800	0
Phenanthrene	4	4	610	Lognormal	1600	2900000	100	J	1800		1800	Max	2500000	0
Pyrene	4	4	1100	Lognormal	2700	2100000	240	J	3200		3200	Max	2500000	0
Total PAH	2	2	10000	< 4 Samples	-1	-1	1936		17980		18000	Max		
Pesticides/PCB (UG/KG)														
4,4'-DDE	1	11	10	Undefined	24	20	89		89		20	95% UCL-T	17000	0
4,4'-DDT	4	9	26	Undefined	64	280	3.7	J	190		190	Max	17000	0
alpha-Chlordane	1	11	22	Undefined	60	66	230		230		66	95% UCL-T	2200	0
Aroclor, Total	11	14	210	Normal	280	600	56		466		280	95% UCL-N	10000	0
Aroclor, Total (Conservative)	11	14	370	Normal	480	1500	209.5		746		480	95% UCL-N	10000	0
Aroclor-1254	2	14	55	Undefined	92	100	25	J	250		100	95% UCL-T	10000	0
Aroclor-1262	8	14	100	Lognormal	140	230	53		220	J	220	Max	10000	0
Aroclor-1268	11	14	110	Undefined	150	230	54		230		230	95% UCL-T	10000	0
Dieldrin	1	11	5.2	Undefined	9	11	14		14		11	95% UCL-T	360	0
Endrin Ketone	2	10	4.6	Undefined	8.4	8.9	3.9		4.9	J	4.9	Max	610000	0
gamma-Chlordane	3	10	8.5	Undefined	22	25	1.1	J	74	J	25	95% UCL-T	2200	0
Heptachlor Epoxide	1	11	4.9	Undefined	12	9.6	42	J	42	J	9.6	95% UCL-T	630	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 13A
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)														
Asbestos	31	61	0.7	Undefined	0.8	2	0.9	, *	5		2	95% UCL-T	1	6
Dioxins (UG/KG)														
Toxicity Equivalency	1	1	0.024	< 4 Samples	-1	-1	0.024	J	0.024	J	0.024	Max		
Metals (MG/KG)														
Aluminum	6	6	8800	Lognormal	12600	16100	4640		16000		16000	Max		
Arsenic	6	6	9.2	Lognormal	16.2	28.8	3.2		26.2		26.2	Max	10	1
Barium	6	6	300	Lognormal	656	6120	40.8		1150		1150	Max	140000	0
Beryllium	2	6	0.29	Undefined	0.47	0.8	0.53		0.6		0.6	Max	2	0
Cadmium	3	6	0.17	Lognormal	0.28	1.5	0.13	J	0.34		0.34	Max	1000	0
Calcium	6	6	1540	Lognormal	2280	3280	717		3050		3050	Max		
Chromium	6	6	14.2	Lognormal	19.9	27.1	6.1		24.9		24.9	Max	100	0
Cobalt	6	6	4.6	Lognormal	6.6	8.5	2.3		8.7		8.5	95% UCL-T	2500	0
Copper	27	47	116	Undefined	138	134	21.8	J	531	J	134	95% UCL-T	76000	0
Iron	6	6	13200	Lognormal	18400	21800	7490		24300		21800	95% UCL-T		
Lead	44	59	174	Undefined	222	218	21		920	I	218	95% UCL-T	1000	0
Magnesium	6	6	3390	Lognormal	4680	6010	1600		5850		5850	Max		
Manganese	6	6	183	Lognormal	224	240	124	J	256		240	95% UCL-T	47000	0
Mercury	2	6	0.04	Lognormal	0.06	0.093	0.054	J	0.081	J	0.081	Max	610	0
Nickel	6	6	14.1	Normal	19.1	26.1	5.7		21.8		19.1	95% UCL-N	7500	0
Potassium	6	6	1190	Lognormal	1720	2060	627		2430		2060	95% UCL-T		
Selenium	1	6	0.39	Lognormal	0.46	0.48	0.54	J	0.54	J	0.48	95% UCL-T	10000	0
Sodium	6	6	272	Lognormal	531	1040	95	J	908		908	Max		
Vanadium	6	6	24.5	Lognormal	33.9	45.1	11.3		41.6	J	41.6	Max	14000	0
Zinc	6	6	85.6	Normal	108	138	37.2		115		108	95% UCL-N	610000	0
Semivolatile Organic Compounds (UG/KG)														
2-Methylnaphthalene	1	6	1200	Lognormal	2900	160000	51	J	51	J	51	Max	2500000	0
Acenaphthylene	5	6	580	Lognormal	1100	5400	130	J	1600	J	1600	Max	2500000	0
Anthracene	5	6	780	Lognormal	1700	12000	130	J	2900	J	2900	Max	2500000	0
Benzo(a)anthracene	6	6	1700	Lognormal	3700	15000	320	J	6800	J	6800	Max	7800	0
Benzo(a)pyrene	6	6	1600	Lognormal	3500	13000	320	J	6400	J	6400	Max	1000	2
Benzo(b)fluoranthene	6	6	1400	Undefined	3000	11000	340	J	5500	J	5500	Max	7800	0
Benzo(g,h,i)perylene	6	6	690	Undefined	1500	3600	200	J	2600	J	2600	Max	2500000	0
Benzo(k)fluoranthene	6	6	1400	Lognormal	3100	12000	250	J	5600	J	5600	Max	78000	0
bis(2-Ethylhexyl)phthalate	1	6	1200	Undefined	3000	38000	290		290		290	Max	410000	0
Carbazole	3	6	1200	Lognormal	2900	190000	63	J	210	J	210	Max	290000	0

TABLE 13A
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (CONT.)														
Chrysene	6	6	1800	Lognormal	4000	16000	350	J	7300	J	7300	Max	780000	0
Dibenzo(a,h)anthracene	2	6	1200	Lognormal	3000	48000	110	J	270	J	270	Max	780	0
Dibenzofuran	2	6	1200	Lognormal	2900	74000	88	J	290		290	Max	2500000	0
Fluoranthene	6	6	3700	Lognormal	9100	55000	520	J	17000	J	17000	Max	2500000	0
Fluorene	5	6	420	Lognormal	830	25000	37	J	1200	J	1200	Max	2500000	0
Indeno(1,2,3-cd)pyrene	6	6	930	Lognormal	2100	7800	190	J	3800	J	3800	Max	7800	0
Naphthalene	2	6	1200	Lognormal	2900	370000	43	J	84	J	84	Max	2500000	0
Phenanthrene	6	6	2600	Lognormal	6400	94000	200	J	12000	J	12000	Max	2500000	0
Phenol	1	6	1200	Undefined	3000	38000	290		290		290	Max	2500000	0
Pyrene	6	6	3200	Lognormal	7600	38000	510	J	14000	J	14000	Max	2500000	0
Volatile Organic Compounds (UG/KG)														
Acetone	1	4	36	Lognormal	94	110000	110		110		110	Max	1000000	0
Methyl Acetate	1	4	6	Undefined	13	310	15		15		15	Max		
Total PAH	1	1	7700	< 4 Samples	-1	-1	7690		7690		7700	Max		
Pesticides/PCB (UG/KG)														
4,4'-DDD	4	6	4.5	Normal	6.2	8.6	3.8		7.6		6.2	95% UCL-N	24000	0
4,4'-DDE	3	6	9.2	Lognormal	17	120	4.4		23		23	Max	17000	0
4,4'-DDT	5	6	31	Lognormal	67	1900	4.3		110	*	110	Max	17000	0
Aroclor, Total	9	10	820	Lognormal	1500	20000	60		3800		3800	Max	10000	0
Aroclor, Total (Conservative)	9	10	1000	Lognormal	1700	16000	258		3944.5		3900	Max	10000	0
Aroclor-1262	4	10	440	Lognormal	880	10000	91		2300	*	2300	Max	10000	0
Aroclor-1268	8	10	400	Lognormal	680	6400	60		1500		1500	Max	10000	0
gamma-Chlordane	1	6	1.2	Undefined	1.6	1.7	1.9		1.9		1.7	95% UCL-T	2200	0
Total Organic Carbon (MG/KG)														
Total Organic Carbon	1	1	5110	< 4 Samples	-1	-1	5114		5114		5110	Max		

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 13B
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
CT RIGHT-OF-WAY -RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (residential) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)														
Asbestos	5	7	0.7	Undefined	1	18	0.9	, *	0.9	, *	0.9	Max	1	0
Dioxins (UG/KG)														
Toxicity Equivalency	1	1	0.024	< 4 Samples	-1	-1	0.024	J	0.024	J	0.024	Max		
Metals (MG/KG)														
Aluminum	4	4	5890	Normal	6960	7570	4640		6800		6800	Max		
Arsenic	4	4	10.2	Lognormal	22.9	1180	3.2		26.2		26.2	Max	10	1
Barium	4	4	414	Lognormal	1010	32300000	40.8		1150		1150	Max	4700	0
Cadmium	1	4	0.14	Lognormal	0.3	148	0.34		0.34		0.34	Max	34	0
Calcium	4	4	1400	Lognormal	2700	14300	717		3050		3050	Max		
Chromium	4	4	10.2	Normal	14.1	22.1	6.1		13.9		13.9	Max	100	0
Cobalt	4	4	3.2	Lognormal	4.2	5.2	2.3		4.3		4.3	Max	1000	0
Copper	5	5	164	Lognormal	368	15200	21.8	J	531	J	531	Max	2500	0
Iron	4	4	9600	Normal	11500	12700	7490		11000		11000	Max		
Lead	5	5	268	Lognormal	616	94700	21		899		899	Max	400	1
Magnesium	4	4	2770	Lognormal	4250	8030	1600		4540		4540	Max		
Manganese	4	4	153	Normal	177	188	124	J	170	J	170	Max	1600	0
Mercury	1	4	0.035	Undefined	0.071	0.5	0.081	J	0.081	J	0.081	Max	20	0
Nickel	4	4	12.3	Lognormal	19.5	57.5	5.7		20.5		20.5	Max	1400	0
Potassium	4	4	887	Lognormal	1140	1400	627		1070		1070	Max		
Sodium	4	4	141	Normal	202	329	95	J	196		196	Max		
Vanadium	4	4	18	Normal	25	37.8	11.3		24.1		24.1	Max	470	0
Zinc	4	4	82.8	Normal	124	365	37.2		115		115	Max	20000	0
Copper	1	1	70	< 4 Samples	-1	-1	70		70		70	Max		
Lead	1	1	121	< 4 Samples	-1	-1	121		121		121	Max		
Nickel	1	1	2.7	< 4 Samples	-1	-1	2.7	J	2.7	J	2.7	Max		
Vanadium	1	1	2.8	< 4 Samples	-1	-1	2.8		2.8		2.8	Max		
Semivolatile Organic Compounds (UG/KG)														
2-Methylnaphthalene	1	4	330	Lognormal	780	500000	51	J	51	J	51	Max	474000	0
Acenaphthylene	3	4	420	Normal	850	71000	130	J	510		510	Max	1000000	0
Anthracene	3	4	390	Lognormal	810	29000	130	J	380		380	Max	1000000	0
Benzo(a)anthracene	4	4	650	Lognormal	1100	3400	320	J	1200		1200	Max	1000	1
Benzo(a)pyrene	4	4	650	Lognormal	1100	3400	320	J	1200		1200	Max	1000	1
Benzo(b)fluoranthene	4	4	540	Lognormal	900	2000	340	J	1000		1000	Max	1000	0
Benzo(g,h,i)perylene	4	4	290	Lognormal	400	550	200	J	430		430	Max	1000000	0
Benzo(k)fluoranthene	4	4	560	Lognormal	900	3000	250	J	960		960	Max	8400	0
Carbazole	2	4	340	Lognormal	790	190000	63	J	210	J	210	Max	31000	0
Chrysene	4	4	690	Lognormal	1200	3600	350	J	1300		1300	Max	84000	0
Dibenzo(a,h)anthracene	2	4	370	Lognormal	790	25000	110	J	270	J	270	Max	84	2
Dibenzofuran	1	4	340	Lognormal	780	54000	88	J	88	J	88	Max	270000	0

TABLE 13B
SUMMARY STATISTICS
SAMPLES OUTSIDE AREA OF RAYMARK WASTE (0 -15 bgs)
CT RIGHT-OF-WAY -RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.		Maximum Detected Conc.		Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (residential) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (CONT.)														
Fluoranthene	4	4	1100	Lognormal	1700	4500	520	J	1800		1800	Max	1000000	0
Fluorene	3	4	310	Lognormal	780	21000000	37	J	240	J	240	Max	1000000	0
Indeno(1,2,3-cd)pyrene	4	4	340	Lognormal	530	1100	190	J	580		580	Max	840	0
Naphthalene	2	4	300	Lognormal	780	2500000	43	J	84	J	84	Max	1000000	0
Phenanthrene	4	4	710	Lognormal	1400	31000	200	J	1500		1500	Max	1000000	0
Pyrene	4	4	1100	Lognormal	1800	5400	510	J	1900		1900	Max	1000000	0
Volatile Organic Compounds (UG/KG)														
Acetone	1	4	36	Lognormal	94	110000	110		110		110	Max	500000	0
Methyl Acetate	1	4	6	Undefined	13	310	15		15		15	Max		
Pesticides/PCB (UG/KG)														
4,4'-DDD	3	4	4.1	Normal	6.2	18	3.8		6		6	Max	2600	0
4,4'-DDE	3	4	13	Lognormal	25	42000	4.4		23		23	Max	1800	0
4,4'-DDT	4	4	45	Lognormal	100	1900000	5.1	#	110	*	110	Max	1800	0
Aroclor, Total	4	5	1400	Normal	2900	440000000	91		3800		2900	95% UCL-N	1000	3
Aroclor, Total (Conservative)	4	5	1500	Normal	3100	0	258		3944.5		3100	95% UCL-N	1000	3
Aroclor-1262	4	5	840	Lognormal	1700	93000000	91		2300	*	2300	Max	1000	2
Aroclor-1268	3	5	590	Normal	1200	320000000	510		1500		1200	95% UCL-N	1000	1
gamma-Chlordane	1	4	1.2	Undefined	1.7	2.5	1.9		1.9		1.9	Max	490	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 14
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Asbestos (%)												
Asbestos	9	18	0.5	Undefined	0.8	3	Trace	2	2	Max	1	1
Metals (MG/KG)												
Copper	13	18	369	Undefined	744	502	46 J	4010	502	95% UCL-T	76000	0
Lead	15	18	325	Lognormal	459	639	74 J	1300	639	95% UCL-T	1000	1

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 15
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
340 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Asbestos (%)												
Asbestos	8	10	0.7	Undefined	0.9	5	Trace	Trace	0.9	Max	1	0
Metals (MG/KG)												
Copper	4	10	136	Undefined	217	309	22	411	309	95% UCL-T	76000	0
Lead	3	10	108	Undefined	221	366	40	639	366	95% UCL-T	1000	0
Pesticides/PCB (UG/KG)												
Aroclor, Total	2	2	1700	< 4 Samples			90	3300	3300	Max	10000	0
Aroclor, Total (Conservative)	2	2	3900	< 4 Samples			490	7300	7300	Max	10000	0
Aroclor-1268	2	2	1700	< 4 Samples			90	3300	3300	Max	10000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 16
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
380 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	2	19	0.1	Undefined	0.2	0.2	Trace	Trace	0.2	95% UCL-T	1	0
Metals (MG/KG)												
Aluminum	1	1	6990	< 4 Samples			6990	6990	6990	Max		
Antimony	1	1	0.92	< 4 Samples			0.92 J	0.92 J	0.92	Max	8200	0
Arsenic	1	1	4.4	< 4 Samples			4.4	4.4	4.4	Max	10	0
Barium	1	1	75.5	< 4 Samples			75.5	75.5	75.5	Max	140000	0
Cadmium	1	1	0.85	< 4 Samples			0.85	0.85	0.85	Max	1000	0
Calcium	1	1	2020	< 4 Samples			2020	2020	2020	Max		
Chromium	1	1	12.5	< 4 Samples			12.5	12.5	12.5	Max	100	0
Cobalt	1	1	7	< 4 Samples			7	7	7	Max	2500	0
Copper	15	19	511	Lognormal	728	1190	46 J	2050	1190	95% UCL-T	76000	0
Iron	1	1	12600	< 4 Samples			12600	12600	12600	Max		
Lead	9	19	63.4	Undefined	79.1	74.3	41 J	211	74.3	95% UCL-T	1000	0
Magnesium	1	1	2970	< 4 Samples			2970	2970	2970	Max		
Manganese	1	1	240	< 4 Samples			240 J	240 J	240	Max	47000	0
Mercury	1	1	0.11	< 4 Samples			0.11 J	0.11 J	0.11	Max	610	0
Nickel	1	1	14.2	< 4 Samples			14.2	14.2	14.2	Max	7500	0
Potassium	1	1	1390	< 4 Samples			1390 J	1390 J	1390	Max		
Silver	1	1	1.2	< 4 Samples			1.2 J	1.2 J	1.2	Max	10000	0
Vanadium	1	1	21.7	< 4 Samples			21.7	21.7	21.7	Max	14000	0
Zinc	1	1	168	< 4 Samples			168	168	168	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	1	1	36	< 4 Samples			36 J	36 J	36	Max	2500000	0
Acenaphthene	1	1	38	< 4 Samples			38 J	38 J	38	Max	2500000	0
Acenaphthylene	1	1	170	< 4 Samples			170 J	170 J	170	Max	2500000	0
Acetophenone	1	1	25	< 4 Samples			25 JEB	25 JEB	25	Max		
Anthracene	1	1	200	< 4 Samples			200 J	200 J	200	Max	2500000	0
Benzo(a)anthracene	1	1	900	< 4 Samples			900 J	900 J	900	Max	7800	0
Benzo(a)pyrene	1	1	940	< 4 Samples			940	940	940	Max	1000	0
Benzo(b)fluoranthene	1	1	900	< 4 Samples			900	900	900	Max	7800	0

TABLE 16
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
380 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(g,h,i)perylene	1	1	420	< 4 Samples			420	420	420	Max	2500000	0
Benzo(k)fluoranthene	1	1	820	< 4 Samples			820	820	820	Max	78000	0
Carbazole	1	1	65	< 4 Samples			65 J	65 J	65	Max	290000	0
Chrysene	1	1	950	< 4 Samples			950	950	950	Max	780000	0
Dibenzo(a,h)anthracene	1	1	150	< 4 Samples			150 J	150 J	150	Max	780	0
Dibenzofuran	1	1	35	< 4 Samples			35 J	35 J	35	Max	2500000	0
Di-n-Butylphthalate	1	1	19	< 4 Samples			19 JEB	19 JEB	19	Max	2500000	0
Fluoranthene	1	1	1700	< 4 Samples			1700	1700	1700	Max	2500000	0
Fluorene	1	1	61	< 4 Samples			61 J	61 J	61	Max	2500000	0
Indeno(1,2,3-cd)pyrene	1	1	440	< 4 Samples			440	440	440	Max	7800	0
Naphthalene	1	1	37	< 4 Samples			37 J	37 J	37	Max	2500000	0
Phenanthrene	1	1	840	< 4 Samples			840	840	840	Max	2500000	0
Pyrene	1	1	1600	< 4 Samples			1600	1600	1600	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
1,1,1-Trichloroethane	1	1	1	< 4 Samples			1 J	1 J	1	Max	1000000	0
2-Butanone	1	1	4	< 4 Samples			4 J	4 J	4	Max	1000000	0
Pesticides/PCB (UG/KG)												
Endrin Ketone	1	1	4.4	< 4 Samples			4.4	4.4	4.4	Max	610000	0

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 17
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	7	36	0.2	Undefined	0.3	0.3	Trace	Trace	0.3	95% UCL-T	1	0
Metals (MG/KG)												
Copper	4	34	92.1	Undefined	116	101	30.7 J	521 J	101	95% UCL-T	76000	0
Lead	8	34	45.8	Undefined	66.7	51.9	26.8 J	391 J	51.9	95% UCL-T	1000	0
Pesticides/PCB (UG/KG)												
Aroclor, Total	3	3	830	< 4 Samples			48	2080	2100	Max	10000	0
Aroclor, Total (Conservative)	3	3	920	< 4 Samples			196	2149	2100	Max	10000	0
Aroclor-1254	2	3	420	< 4 Samples			270	970	970	Max	10000	0
Aroclor-1260	2	3	280	< 4 Samples			48	770	770	Max	10000	0
Aroclor-1268	2	3	150	< 4 Samples			87	340	340	Max	10000	0
Total Organic Carbon (MG/KG)												
Total Organic Carbon	1	1	160	< 4 Samples			162 J	162 J	160	Max		

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 18
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
DPW LOT
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	16	42	0.4	Undefined	0.5	0.8	Trace	Trace	0.8	95% UCL-T	1	0
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.0019	< 4 Samples			0.0019 J	0.0019 J	0.0019	Max		
Metals (MG/KG)												
Aluminum	5	5	8040	Undefined	9130	9420	6780	9030	9030	Max		
Antimony	2	5	2.1	Lognormal	4.5	236	3.2	6	6	Max	8200	0
Arsenic	5	5	9.6	Normal	15.1	41.4	2.7	16.9	15.1	95% UCL-N	10	2
Barium	5	5	234	Normal	389	1390	68.9	460	389	95% UCL-N	140000	0
Beryllium	1	5	0.36	Undefined	0.67	1.2	0.94	0.94	0.94	Max	2	0
Cadmium	3	5	2.1	Lognormal	4.5	60600	1	6	6	Max	1000	0
Calcium	5	5	2450	Lognormal	4680	19700	736 J	6380 J	6380	Max		
Chromium	5	5	25.2	Lognormal	40.4	73.3	12.6	47.1	47.1	Max	100	0
Cobalt	5	5	5.5	Lognormal	7.5	9	3.4	8.7 J	8.7	Max	2500	0
Copper	31	97	98.2	Undefined	114	109	12.1 J	785	109	95% UCL-T	76000	0
Iron	5	5	52400	Lognormal	106000	818000	14000	145000	145000	Max		
Lead	75	97	287	Undefined	423	300	5.5 J	7190	300	95% UCL-T	1000	5
Magnesium	5	5	2210	Lognormal	3050	3720	1400	3290	3290	Max		
Manganese	5	5	299	Lognormal	482	973	118	572	572	Max	47000	0
Mercury	4	5	0.25	Normal	0.45	9.4	0.12	0.55	0.45	95% UCL-N	610	0
Nickel	5	5	86.8	Lognormal	205	19100	10.9	299	299	Max	7500	0
Potassium	5	5	935	Lognormal	1300	1480	658	1570	1480	95% UCL-T		
Selenium	1	5	1.3	Lognormal	2.6	6.9	3.6 J	3.6 J	3.6	Max	10000	0
Silver	1	5	0.39	Undefined	0.98	9.3	1.5	1.5	1.5	Max	10000	0
Sodium	2	5	123	Lognormal	234	1870	224 J	275 J	275	Max		
Vanadium	5	5	25.7	Lognormal	29.9	30.8	21.5	31.7 J	30.8	95% UCL-T	14000	0
Zinc	5	5	481	Lognormal	934	74100	44.8	1200	1200	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
Acenaphthene	1	5	1400	Lognormal	3600	5400000	42 J	42 J	42	Max	2500000	0
Acenaphthylene	2	5	1300	Undefined	3500	200000	150 J	360 J	360	Max	2500000	0
Anthracene	2	5	1300	Undefined	3500	160000	190 J	300 J	300	Max	2500000	0
Benzaldehyde	1	5	1400	Lognormal	3600	3500000	49 JEB	49 JEB	49	Max		

TABLE 18
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
DPW LOT
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(a)anthracene	3	5	1600	Lognormal	3700	1200000	80 J	1100 J	1100	Max	7800	0
Benzo(a)pyrene	3	5	1500	Lognormal	3700	1400000	75 J	1100 J	1100	Max	1000	1
Benzo(b)fluoranthene	3	5	1500	Lognormal	3700	670000	99 J	1100 J	1100	Max	7800	0
Benzo(g,h,i)perylene	3	5	1500	Lognormal	3600	500000	99 J	830 J	830	Max	2500000	0
Benzo(k)fluoranthene	3	5	1600	Lognormal	3700	3700000	56 J	1300 J	1300	Max	78000	0
Carbazole	2	5	1300	Undefined	3500	360000	110 J	210 J	210	Max	290000	0
Chrysene	3	5	1700	Lognormal	3800	860000	110 J	1500 J	1500	Max	780000	0
Dibenzo(a,h)anthracene	1	5	1400	Lognormal	3600	160000	250 J	250 J	250	Max	780	0
Fluoranthene	3	5	2100	Normal	4200	2400000	130 J	3000	3000	Max	2500000	0
Fluorene	2	5	1300	Lognormal	3500	450000	91 J	250 J	250	Max	2500000	0
Indeno(1,2,3-cd)pyrene	3	5	1500	Lognormal	3600	940000	76 J	880 J	880	Max	7800	0
Phenanthrene	3	5	1800	Lognormal	4000	3500000	85 J	2400	2400	Max	2500000	0
Pyrene	3	5	2000	Lognormal	4100	1300000	150 J	2600 J	2600	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
Acetone	5	5	180	Lognormal	480	30000	20	740 J	740	Max	1000000	0
Benzene	1	5	8	Lognormal	13	21	4 J	4 J	4	Max	200000	0
Methyl Acetate	1	5	20	Undefined	51	750	79	79	79	Max		
Toluene	1	5	7	Lognormal	13	37	2 J	2 J	2	Max	1000000	0
Pesticides/PCB (UG/KG)												
4,4'-DDE	1	5	49	Undefined	150	3800000	240 *	240 *	240	Max	17000	0
4,4'-DDT	3	5	65	Lognormal	200	2900000	5.5	310 *	310	Max	17000	0
alpha-Chlordane	1	5	41	Undefined	130	34000000	200 *	200 *	200	Max	2200	0
Aroclor, Total	9	43	120	Undefined	160	170	37	698	170	95% UCL-T	10000	0
Aroclor, Total (Conservative)	9	43	160	Undefined	200	230	185	748	230	95% UCL-T	10000	0
Aroclor-1254	2	36	65	Undefined	88	77	170	510	77	95% UCL-T	10000	0
Aroclor-1260	1	36	51	Undefined	56	60	81	81	60	95% UCL-T	10000	0
Aroclor-1262	3	43	86	Undefined	110	110	78 J	170	110	95% UCL-T	1000	0
Aroclor-1268	7	43	100	Undefined	120	130	37 J	310	130	95% UCL-T	10000	0
Endrin Aldehyde	1	5	3	Undefined	5.2	8	7.2	7.2	7.2	Max	610000	0
Endrin Ketone	1	5	2.5	Undefined	3.9	4.8	5.1 #	5.1 #	4.8	95% UCL-T	610000	0

TABLE 18
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
DPW LOT
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Pesticides/PCB (UG/KG) (cont.)												
gamma-Chlordane	1	5	27	Undefined	82	2600000	130 *	130 *	130	Max	2200	0
Heptachlor	1	5	2.2	Undefined	5	19	7.5	7.5	7.5	Max	1300	0
Heptachlor Epoxide	1	5	3	Undefined	7.2	54	11	11	11	Max	630	0
Total Organic Carbon (MG/KG)												
Total Organic Carbon	3	3	1900	< 4 Samples			1116 J	2419	2400	Max		

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 19
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
251 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Aluminum	6	6	7700	Lognormal	10600	12300	5130	13500	12300	95% UCL-T		
Arsenic	5	6	4.1	Lognormal	7.5	93.3	2.7	12.3	12.3	Max	10	1
Barium	6	6	87.7	Normal	130	303	23.4	160	130	95% UCL-N	140000	0
Beryllium	2	6	0.21	Lognormal	0.39	1.7	0.42	0.55	0.55	Max	2	0
Cadmium	1	6	0.32	Lognormal	0.84	57.2	1.6 J	1.6 J	1.6	Max	1000	0
Calcium	6	6	3790	Lognormal	6620	23900	878 J	9550	9550	Max		
Chromium	6	6	18.1	Lognormal	28.8	50.3	5.6	42	42	Max	100	0
Cobalt	6	6	3.7	Normal	5.1	6.8	1.5	6.4 J	5.1	95% UCL-N	2500	0
Copper	16	22	98.3	Undefined	143	154	7.9 J	612	154	95% UCL-T	76000	0
Iron	6	6	21400	Lognormal	42000	80100	6980	72200	72200	Max		
Lead	21	22	102	Lognormal	152	198	6.3 J	505 J	198	95% UCL-T	1000	0
Magnesium	6	6	2460	Lognormal	2910	3050	1750	3330	3050	95% UCL-T		
Manganese	6	6	193	Lognormal	304	453	77.1 J	451 J	451	Max	47000	0
Mercury	3	6	0.14	Lognormal	0.29	5.8	0.054 J	0.4	0.4	Max	610	0
Nickel	6	6	19.8	Lognormal	38.1	86.2	5.1	64.4 J	64.4	Max	7500	0
Potassium	6	6	810	Lognormal	1070	1160	534	1400	1160	95% UCL-T		
Vanadium	6	6	27.1	Lognormal	37.2	48.5	11.1	49.1	48.5	95% UCL-T	14000	0
Zinc	6	6	143	Lognormal	279	3090	14.5 J	452 J	452	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
Acenaphthylene	2	6	1700	Lognormal	3300	44000	770 J	1000 J	1000	Max	2500000	0
Acetophenone	1	6	2000	Normal	3700	2100000	44 J	44 J	44	Max		
Anthracene	2	6	1500	Lognormal	3300	42000	530 J	540 J	540	Max	2500000	0
Benzo(a)anthracene	4	6	1600	Lognormal	2800	40000	590 J	4000	4000	Max	7800	0
Benzo(a)pyrene	3	6	2300	Normal	4200	200000	710 J	3800	3800	Max	1000	2
Benzo(b)fluoranthene	4	6	1500	Lognormal	2600	31000	700 J	3500	3500	Max	7800	0
Benzo(g,h,i)perylene	2	6	2000	Normal	3600	87000	2000 J	2000 J	2000	Max	2500000	0
Benzo(k)fluoranthene	3	6	2300	Normal	4200	240000	560 J	3900 J	3900	Max	78000	0
Chrysene	4	6	2000	Normal	3600	100000	810 J	5100	3600	95% UCL-N	780000	0
Dibenzo(a,h)anthracene	1	6	1900	Lognormal	3600	80000	950 J	950 J	950	Max	780	1
Fluoranthene	4	6	2700	Lognormal	5000	300000	1000 J	7300	7300	Max	2500000	0
Indeno(1,2,3-cd)pyrene	2	6	2200	Normal	3800	110000	2300 J	2500 J	2500	Max	7800	0
Phenanthrene	3	6	1400	Normal	2300	25000	720 J	2700	2300	95% UCL-N	2500000	0
Pyrene	4	6	3300	Lognormal	6000	760000	1100 J	7400	7400	Max	2500000	0

TABLE 19
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
251 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Volatile Organic Compounds (UG/KG)												
1,4-Dichlorobenzene	1	6	5	Lognormal	6	7	4	4	4	Max	240000	0
Acetone	5	6	66	Normal	110	740	31	130	110	95% UCL-N	1000000	0
Benzene	1	6	6	Lognormal	7	7	8	8	7	95% UCL-T	200000	0
Carbon Disulfide	1	6	6	Lognormal	8	10	3 J	3 J	3	Max	1000000	0
cis-1,2-Dichloroethene	1	6	7	Undefined	9	10	13	13	10	95% UCL-T		
Methyl Acetate	1	6	9	Undefined	14	19	23	23	19	95% UCL-T		
Methyl tert-Butyl Ether	3	6	40	Lognormal	90	1500	10	160	160	Max		
Toluene	1	6	12	Undefined	23	43	41	41	41	Max	1000000	0
Trichloroethene	4	6	670	Lognormal	1900	3.30E+09	3 J	3600	3600	Max	520000	0
Pesticides/PCB (UG/KG)												
4,4'-DDD	2	6	4.4	Lognormal	8	16	5.3	13	13	Max	24000	0
4,4'-DDE	2	6	15	Undefined	40	680	7.2	77 *	77	Max	17000	0
4,4'-DDT	4	6	52	Lognormal	140	19000	12	260 *	260	Max	17000	0
Aroclor, Total	3	6	220	Lognormal	510	33000	120	920	920	Max	10000	0
Aroclor, Total (Conservative)	3	6	310	Lognormal	650	250000	278	1077	1100	Max	10000	0
Aroclor-1260	1	6	37	Undefined	70	110	120	120	110	95% UCL-T	10000	0
Aroclor-1262	1	6	97	Undefined	250	1900	480	480	480	Max	10000	0
Aroclor-1268	2	6	120	Undefined	260	6900	210 J	440	440	Max	10000	0
Endosulfan Sulfate	1	6	3.4	Undefined	6	8.4	10	10	8.4	95% UCL-T	1200000	0
Endrin Aldehyde	1	6	4.7	Undefined	10	21	18	18	18	Max	610000	0
Endrin Ketone	4	6	11	Normal	19	130	7.1 J#	24	19	95% UCL-N	610000	0

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 20
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0- 15 bgs)
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Residential) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	27	117	0.5	Undefined	0.9	0.4	Trace	20	0.4	95% UCL-T	1	4
Dioxins (UG/KG)												
Toxicity Equivalency	2	2	0.014	< 4 Samples			0.00391 J	0.025 J	0.025	Max		
Metals (MG/KG)												
Aluminum	17	17	10300	Lognormal	12500	12600	4800	28400 J	12600	95% UCL-T		
Antimony	4	15	4	Lognormal	6.5	15.9	2.8	16.6 J	15.9	95% UCL-T	27	0
Arsenic	10	17	5.4	Lognormal	7.1	8.1	3.2	15.9	8.1	95% UCL-T	10	3
Barium	17	17	123	Lognormal	178	197	27.1	534	197	95% UCL-T	4700	0
Beryllium	9	17	0.34	Undefined	0.42	0.57	0.42	0.56	0.56	Max	2	0
Cadmium	12	16	10.2	Lognormal	20.1	138	0.44	88.6	88.6	Max	34	2
Calcium	17	17	5460	Lognormal	8400	12000	834	23200	12000	95% UCL-T		
Chromium	17	17	38.2	Lognormal	50.7	56.6	12.2	124 J	56.6	95% UCL-T	100	1
Cobalt	17	17	6.6	Lognormal	7.6	7.7	3.9	11.7 J	7.7	95% UCL-T	1000	0
Copper	62	83	417	Undefined	554	544	11	4270	544	95% UCL-T	2500	3
Iron	17	17	28500	Lognormal	36600	41000	10100	68600 J	41000	95% UCL-T		
Lead	107	119	256	Undefined	312	345	3.9 J	3050	345	95% UCL-T	400	22
Magnesium	17	17	4830	Lognormal	6210	6340	2130	15300	6340	95% UCL-T		
Manganese	17	17	291	Lognormal	344	351	133	682	351	95% UCL-T	1600	0
Mercury	8	17	0.16	Lognormal	0.22	0.29	0.049 J	0.5	0.29	95% UCL-T	20	0
Nickel	17	17	26.9	Lognormal	36	36.6	9.8	97.6	36.6	95% UCL-T	1400	0
Potassium	17	17	1460	Normal	1730	1900	502	2490 J	1730	95% UCL-N		
Selenium	3	14	1.1	Lognormal	1.5	1.7	0.8 J	1.9 J	1.7	95% UCL-T	340	0
Silver	6	17	1.2	Lognormal	1.9	3.3	0.89 J	5.1	3.3	95% UCL-T	340	0
Sodium	11	16	1290	Lognormal	1840	5250	264	3430 J	3430	Max		
Vanadium	15	17	22.3	Lognormal	25.9	27.5	12.7 J	39.6 J	27.5	95% UCL-T	470	0
Zinc	17	17	562	Lognormal	893	1640	50.1 J	3080 J	1640	95% UCL-T	20000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	3	12	720	Undefined	1100	1600	230 J	2300	1600	95% UCL-T	474000	0
4-Nitroaniline	1	12	1500	Undefined	2300	2700	2500	2500	2500	Max	200000	0
Acenaphthene	6	12	620	Lognormal	970	1700	72 J	2000	1700	95% UCL-T	1000000	0
Acenaphthylene	7	12	750	Lognormal	1500	2000	50 J	5100	2000	95% UCL-T	1000000	0

TABLE 20
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0- 15 bgs)
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Residential) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Acetophenone	5	5	300	Normal	460	770	150 J	540 J	460	95% UCL-N		
Anthracene	8	12	1300	Lognormal	2100	8400	74 J	5400	5400	Max	1000000	0
Benzaldehyde	4	5	400	Undefined	1100	93000	48 JEB	78 JEB	78	Max		
Benzo(a)anthracene	11	12	4000	Lognormal	7600	58000	75 J	23000 *J	23000	Max	1000	6
Benzo(a)pyrene	12	12	4000	Lognormal	7400	80000	76 J	21000 *J	21000	Max	1000	5
Benzo(b)fluoranthene	11	12	3200	Lognormal	6000	42000	72 J	18000 *J	18000	Max	1000	5
Benzo(g,h,i)perylene	11	12	1300	Lognormal	2100	9000	54 J	4500	4500	Max	1000000	0
Benzo(k)fluoranthene	11	12	3200	Lognormal	5800	38000	84 J	17000 *J	17000	Max	8400	2
Carbazole	5	7	680	Lognormal	1200	3000	140 J	2100	2100	Max	31000	0
Chrysene	11	12	4600	Lognormal	8600	53000	120 J	26000 *J	26000	Max	84000	0
Dibenzo(a,h)anthracene	5	12	680	Undefined	1100	1700	110 J	2300	1700	95% UCL-T	84	5
Dibenzofuran	5	12	560	Lognormal	880	1500	64 J	1800	1500	95% UCL-T	270000	0
Diethylphthalate	1	12	520	Undefined	830	940	130 J	130 J	130	Max	1000000	0
Di-n-Butylphthalate	1	12	550	Undefined	860	910	300 J	300 J	300	Max	1000000	0
Fluoranthene	11	12	11000	Lognormal	22000	210000	210 J	76000 *J	76000	Max	1000000	0
Fluorene	6	12	1100	Undefined	1900	3200	220 J	5200	3200	95% UCL-T	1000000	0
Indeno(1,2,3-cd)pyrene	11	12	1300	Lognormal	2100	9300	52 J	4400	4400	Max	840	5
Naphthalene	5	12	650	Lognormal	1000	2300	61 J	1600	1600	Max	1000000	0
Phenanthrene	11	12	7100	Lognormal	14000	160000	120 J	41000 *J	41000	Max	1000000	0
Pyrene	11	12	11000	Lognormal	22000	220000	170 J	74000 *J	74000	Max	1000000	0
Volatile Organic Compounds (UG/KG)												
2-Butanone	4	10	87	Undefined	220	470	9 J	62 J	62	Max	500000	0
Acetone	3	10	120	Lognormal	250	900	61 J	210 J	210	Max	500000	0
Carbon Disulfide	5	10	83	Undefined	220	490	2 J	30 J	30	Max	500000	0
Toluene	2	10	80	Undefined	220	330	4 JEB	5 JEB	5	Max	500000	0
Trichloroethene	2	10	80	Undefined	220	520	1 J	4 J	4	Max	56000	0
Total PAH	1	1	31000	< 4 Samples			30520	30520	31000	Max		

TABLE 20
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0- 15 bgs)
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Residential) [4] [5]	Number of Exceedances of CT DEC [4]
Pesticides/PCB (UG/KG)												
4,4'-DDD	2	17	5.4	Undefined	7.8	8.6	5.8 J	6.6	6.6	Max	2600	0
4,4'-DDE	2	17	5.4	Undefined	7.8	8.4	4.5	7 J	7	Max	1800	0
4,4'-DDT	2	17	4.8	Undefined	6.8	7.3	7.6 J	11	7.3	95% UCL-T	1800	0
Aldrin	1	17	2.6	Undefined	3.9	4	2.2 J	2.2 J	2.2	Max	36	0
alpha-BHC	1	17	2.5	Undefined	3.8	4	0.52 J	0.52 J	0.52	Max	97	0
Aroclor, Total	9	22	200	Undefined	300	790	50	1170	790	95% UCL-T	1000	1
Aroclor, Total (Conservative)	9	22	320	Undefined	480	2300	222	1350	1400	Max	1000	3
Aroclor-1254	1	22	55	Undefined	86	88	350 J	350 J	88	95% UCL-T	1000	0
Aroclor-1262	7	22	130	Undefined	200	340	50	740 J	340	95% UCL-T	1000	0
Aroclor-1268	4	22	92	Undefined	140	210	200 J	430	210	95% UCL-T	1000	0
Dieldrin	1	17	5.2	Undefined	7.6	8.3	7.2	7.2	7.2	Max	38	0
Endosulfan I	2	17	27	Undefined	70	34	22 J	420 J	34	95% UCL-T	410000	0
Endosulfan Sulfate	1	17	6.2	Undefined	9.3	11	24 J	24 J	11	95% UCL-T	410000	0
Endrin	1	17	5.3	Undefined	7.7	8.4	7.9 J	7.9 J	7.9	Max	20000	0
Endrin Aldehyde	1	17	5.4	Undefined	7.8	8.7	9.6 J	9.6 J	8.7	95% UCL-T	20000	0
Endrin Ketone	2	17	5.7	Undefined	8.5	9.5	5.7 #J	19 J	9.5	95% UCL-T	20000	0
gamma-Chlordane	2	17	2.8	Undefined	4.1	4.5	2.3 J	4.1	4.1	Max	490	0
Heptachlor Epoxide	1	17	2.8	Undefined	4.1	4.6	5.2	5.2	4.6	95% UCL-T	67	0
Total Organic Carbon (mg/kg)												
Total Organic Carbon	1	1	2000	< 4 Samples			2000	2000	2000	Max		

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 21
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	6	47	0.2	Undefined	0.4	0.2	Trace	5	0.2	95% UCL-T	1	1
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.0079	< 4 Samples			0.00786636	0.00786636	0.0079	Max		
Metals (MG/KG)												
Aluminum	5	5	10400	Normal	16200	299000	1090 J	14700 J	14700	Max		
Antimony	3	4	14	Lognormal	26.3	7580	7.9 J	22.8 J	22.8	Max	8200	0
Arsenic	1	5	3.5	Lognormal	6.8	146	9.3	9.3	9.3	Max	10	0
Barium	5	5	70.9	Lognormal	113	261	28	117	117	Max	140000	0
Beryllium	5	5	0.54	Normal	0.7	0.95	0.25	0.65	0.65	Max	2	0
Cadmium	2	3	2.5	< 4 Samples			3.3 J	4.2 J	4.2	Max	1000	0
Calcium	5	5	68100	Normal	130000	1.27E+09	2920	134000	130000	95% UCL-N		
Chromium	5	5	1620	Normal	2930	945000	71.9	3560	2930	95% UCL-N	100	4
Cobalt	5	5	21.9	Undefined	54.7	494	5.9	83.5	83.5	Max	2500	0
Copper	22	29	153	Undefined	192	237	11.4 J	512	237	95% UCL-T	76000	0
Iron	5	5	24500	Lognormal	34100	40800	17200 J	40100 J	40100	Max		
Lead	33	48	126	Undefined	156	173	6.4 J	710	173	95% UCL-T	1000	0
Magnesium	5	5	29500	Lognormal	53400	703000	3430	71300	71300	Max		
Manganese	5	5	2560	Normal	3910	19700	484 J	3580	3580	Max	47000	0
Mercury	1	5	0.094	Undefined	0.17	0.28	0.24 J	0.24 J	0.24	Max	610	0
Nickel	5	5	483	Lognormal	997	16000	54.3	1420	1420	Max	7500	0
Potassium	5	5	1230	Normal	2210	499000	58.2 J	2310 J	2210	95% UCL-N		
Selenium	4	5	3.5	Lognormal	6.3	66.9	1.1 J	6.6 J	6.6	Max	10000	0
Silver	3	5	0.58	Normal	0.82	1.4	0.73	0.81 J	0.81	Max	10000	0
Sodium	4	5	957	Normal	1660	88100	247 J	1690 J	1660	95% UCL-N		
Thallium	1	3	1.5	< 4 Samples			2.8 J	2.8 J	2.8	Max	160	0
Vanadium	5	5	64.9	Normal	105	1550	7.8 J	110 J	105	95% UCL-N	14000	0
Zinc	5	5	156	Undefined	301	625	64.1	426 J	426	Max	610000	0
Semivolatile Organic Compounds (UG/KG)												
Acenaphthylene	1	2	130	< 4 Samples			69 J	69 J	69	Max	2500000	0
Anthracene	1	2	150	< 4 Samples			100 J	100 J	100	Max	2500000	0
Benzo(a)anthracene	1	2	260	< 4 Samples			310 J	310 J	310	Max	7800	0

TABLE 21
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Industrial) [4] [5]	Number of Exceedances of CT DEC [4]
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(a)pyrene	1	2	240	< 4 Samples			270 J	270 J	270	Max	1000	0
Benzo(b)fluoranthene	1	2	230	< 4 Samples			260 J	260 J	260	Max	7800	0
Benzo(g,h,i)perylene	1	2	210	< 4 Samples			220 J	220 J	220	Max	2500000	0
Benzo(k)fluoranthene	1	2	220	< 4 Samples			240 J	240 J	240	Max	78000	0
bis(2-Ethylhexyl)phthalate	2	2	60	< 4 Samples			41 J	79 J	79	Max	410000	0
Chrysene	1	2	340	< 4 Samples			490	490	490	Max	780000	0
Dibenzo(a,h)anthracene	1	2	140	< 4 Samples			75 J	75 J	75	Max	780	0
Fluoranthene	1	2	450	< 4 Samples			710	710	710	Max	2500000	0
Indeno(1,2,3-cd)pyrene	1	2	180	< 4 Samples			150 J	150 J	150	Max	7800	0
Phenanthrene	1	2	250	< 4 Samples			290 J	290 J	290	Max	2500000	0
Pyrene	1	2	650	< 4 Samples			1100	1100	1100	Max	2500000	0
Volatile Organic Compounds (UG/KG)												
2-Butanone	1	1	33	< 4 Samples			33	33	33	Max	1000000	0
Acetone	1	1	100	< 4 Samples			100	100	100	Max	1000000	0
Total PAH	1	1	4300	< 4 Samples			4284	4284	4300	Max		
Pesticides/PCB (UG/KG)												
4,4'-DDD	1	4	7.7	Undefined	21	37000	25 J	25 J	25	Max	24000	0
4,4'-DDE	1	4	20	Undefined	62	5.90E+08	74 J	74 J	74	Max	17000	0
4,4'-DDT	1	4	59	Undefined	190	5E+14	230 J	230 J	230	Max	17000	0
Aroclor, Total	3	6	140	Lognormal	350	3300	41	660	660	Max	10000	0
Aroclor, Total (Conservative)	3	6	550	Lognormal	1400	750000	217	2645	2600	Max	10000	0
Aroclor-1262	1	6	130	Undefined	350	3500	660 J	660 J	660	Max	10000	0
Aroclor-1268	2	6	70	Lognormal	130	370	41	80	80	Max	10000	0
Endrin	1	4	4.2	Undefined	9.5	220	11 J	11 J	11	Max	610000	0

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 22
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Industrial) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	21	72	0.3	Undefined	0.4	0.5	Trace	3	0.5	95% UCL-T	1	1
Metals (MG/KG)												
Aluminum	2	2	11800	< 4 Samples			10100	13400	13400	Max		
Arsenic	2	2	4.5	< 4 Samples			4.4	4.6	4.6	Max	10	0
Barium	2	2	62.4	< 4 Samples			62.2	62.7	62.7	Max	140000	0
Beryllium	2	2	0.45	< 4 Samples			0.45 , J	0.45 , J	0.45	Max	2	0
Calcium	2	2	1790	< 4 Samples			1730 J	1840 J	1840	Max		
Chromium	2	2	20.8	< 4 Samples			16.2	25.3	25.3	Max	100	0
Cobalt	2	2	8.7	< 4 Samples			7.8	9.6	9.6	Max	2500	0
Copper	18	56	107	Undefined	160	108	9.9 J	1800	108	95% UCL-T	76000	0
Iron	2	2	16200	< 4 Samples			15500	16900	16900	Max		
Lead	48	73	97.8	Undefined	120	143	4.1 J	510	143	95% UCL-T	1000	0
Magnesium	2	2	4380	< 4 Samples			4290	4460	4460	Max		
Manganese	2	2	289	< 4 Samples			273 J	305 J	305	Max	47000	0
Nickel	2	2	16.5	< 4 Samples			12.2 J	20.8 J	20.8	Max	7500	0
Potassium	2	2	2210	< 4 Samples			1740	2690	2690	Max		
Sodium	2	2	2430	< 4 Samples			334 J	4520 J	4520	Max		
Vanadium	2	2	31	< 4 Samples			26.1	35.9	35.9	Max	14000	0
Zinc	2	2	76.2	< 4 Samples			51.5 J	101 J	101	Max	610000	0
Pesticides/PCB (UG/KG)												
alpha-Chlordane	1	2	1.1	< 4 Samples			1.1 J	1.1 J	1.1	Max	2200	0
Aroclor, Total	7	9	1800	Undefined	5100	170000	21	16000	16000	Max	10000	1
Aroclor, Total (Conservative)	7	9	2300	Lognormal	6300	240000	93	19520	20000	Max	10000	1
Aroclor-1260	5	9	1800	Undefined	5100	260000	21 J	16000	16000	Max	10000	1
Aroclor-1262	2	9	74	Undefined	160	520	30	130 J	130	Max	10000	0
Aroclor-1268	1	9	61	Undefined	150	220	23	23	23	Max	10000	0
Endosulfan II	1	1	3.6	< 4 Samples			3.6 J	3.6 J	3.6	Max	1200000	0

TABLE 22
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Notes:
(1) Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
(2) Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
(3) Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
(4) Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
(5) CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 23
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Residential) [4] [5]	Number of Exceedances of CT DEC [4]
Asbestos (%)												
Asbestos	8	67	0.5	Undefined	1	0.2	Trace	20	0.2	95% UCL-T	1	2
Metals (MG/KG)												
Aluminum	2	2	15600	< 4 Samples			10300	21000	21000	Max		
Arsenic	2	2	5.3	< 4 Samples			4.5	6.1	6.1	Max	10	0
Barium	2	2	36.3	< 4 Samples			33.8 J	38.9 J	38.9	Max	4700	0
Beryllium	2	2	0.8	< 4 Samples			0.6 J	1 J	1	Max	2	0
Calcium	2	2	793	< 4 Samples			306 J	1280	1280	Max		
Chromium	2	2	13.2	< 4 Samples			11.2	15.1	15.1	Max	100	0
Cobalt	2	2	3.8	< 4 Samples			2.9 J	4.6 J	4.6	Max	1000	0
Copper	10	32	124	Undefined	158	150	26.3 J	636	150	95% UCL-T	2500	0
Iron	2	2	14600	< 4 Samples			14100 J	15100 J	15100	Max		
Lead	46	67	124	Undefined	149	158	10.5 J	790	158	95% UCL-T	400	2
Magnesium	2	2	2420	< 4 Samples			1890	2950	2950	Max		
Manganese	2	2	178	< 4 Samples			119 J	236 J	236	Max	1600	0
Nickel	2	2	12.4	< 4 Samples			9.9 J	14.8	14.8	Max	1400	0
Potassium	2	2	1020	< 4 Samples			557 J	1490 J	1490	Max		
Sodium	2	2	140	< 4 Samples			125 J	154 J	154	Max		
Vanadium	2	2	31.7	< 4 Samples			28.9	34.5	34.5	Max	470	0
Zinc	2	2	50	< 4 Samples			40.7 J	59.4 J	59.4	Max	20000	0
Pesticides/PCB (UG/KG)												
4,4'-DDT	1	1	1.2	< 4 Samples			1.2 J	1.2 J	1.2	Max	1800	0
Dieldrin	1	1	220	< 4 Samples			220 J	220 J	220	Max	38	1

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

TABLE 24
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Residential) (4) (5)	Number of Exceedances of CT DEC (4)
Asbestos (%)												
Asbestos	9	42	0.3	Undefined	0.4	0.3	Trace	1.7	0.3	95% UCL-T	1	1
Dioxins (UG/KG)												
Toxicity Equivalency	1	1	0.0028	< 4 Samples			0.0028 J	0.0028 J	0.0028	Max		
Metals (MG/KG)												
Aluminum	3	3	11800	< 4 Samples			10400	14400	14400	Max		
Arsenic	3	3	4.7	< 4 Samples			3.9	6.3	6.3	Max	10	0
Barium	3	3	70.4	< 4 Samples			54.4 J	102 J	102	Max	4700	0
Beryllium	3	3	0.53	< 4 Samples			0.44 J	0.62	0.62	Max	2	0
Calcium	3	3	1820	< 4 Samples			1460 J	2110	2110	Max		
Chromium	3	3	17.4	< 4 Samples			15.2	21.3	21.3	Max	100	0
Cobalt	2	3	6.1	< 4 Samples			7	7.6	7.6	Max	1000	0
Copper	16	62	123	Undefined	169	126	10.2 J	1410	126	95% UCL-T	2500	0
Iron	3	3	14800	< 4 Samples			12700	16700	16700	Max		
Lead	64	80	123	Undefined	151	151	11.2	1040	151	95% UCL-T	400	4
Magnesium	3	3	3600	< 4 Samples			3110	4290	4290	Max		
Manganese	3	3	338	< 4 Samples			317 J	350 J	350	Max	1600	0
Mercury	2	3	0.1	< 4 Samples			0.12 J	0.13	0.13	Max	20	0
Nickel	3	3	14.7	< 4 Samples			11.5	20.6 J	20.6	Max	1400	0
Potassium	3	3	1230	< 4 Samples			1120	1400	1400	Max		
Silver	1	3	1.1	< 4 Samples			1.5 J	1.5 J	1.5	Max	340	0
Sodium	2	3	244	< 4 Samples			211	405 J	405	Max		
Vanadium	3	3	31.7	< 4 Samples			28.7	33.5	33.5	Max	470	0
Zinc	3	3	69.6	< 4 Samples			55 J	88.8 J	88.8	Max	20000	0
Semivolatile Organic Compounds (UG/KG)												
2-Methylnaphthalene	1	1	110	< 4 Samples			110 J	110 J	110	Max	474000	0
Acenaphthene	1	1	460	< 4 Samples			460 J	460 J	460	Max	1000000	0
Acenaphthylene	1	1	540	< 4 Samples			540 J	540 J	540	Max	1000000	0
Anthracene	1	1	1200	< 4 Samples			1200 J	1200 J	1200	Max	1000000	0
Benzo(a)anthracene	1	1	3300	< 4 Samples			3300 J	3300 J	3300	Max	1000	1
Benzo(a)pyrene	1	1	3100	< 4 Samples			3100 J	3100 J	3100	Max	1000	1

TABLE 24
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution (1)	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. (2)	Exposure Point Conc. Statistic (3)	CT DEC (Residential) (4) (5)	Number of Exceedances of CT DEC (4)
Semivolatile Organic Compounds (UG/KG) (cont.)												
Benzo(b)fluoranthene	1	1	2900	< 4 Samples			2900 J	2900 J	2900	Max	1000	1
Benzo(g,h,i)perylene	1	1	650	< 4 Samples			650 J	650 J	650	Max	1000000	0
Benzo(k)fluoranthene	1	1	3000	< 4 Samples			3000 J	3000 J	3000	Max	8400	0
Butylbenzylphthalate	1	1	120	< 4 Samples			120 J	120 J	120	Max	1000000	0
Carbazole	1	1	610	< 4 Samples			610 J	610 J	610	Max	31000	0
Chrysene	1	1	3800	< 4 Samples			3800 J	3800 J	3800	Max	84000	0
Dibenzo(a,h)anthracene	1	1	620	< 4 Samples			620 J	620 J	620	Max	84	1
Dibenzofuran	1	1	270	< 4 Samples			270 J	270 J	270	Max	270000	0
Di-n-Butylphthalate	1	1	1800	< 4 Samples			1800 J	1800 J	1800	Max	1000000	0
Fluoranthene	1	1	7600	< 4 Samples			7600 J	7600 J	7600	Max	1000000	0
Fluorene	1	1	660	< 4 Samples			660 J	660 J	660	Max	1000000	0
Indeno(1,2,3-cd)pyrene	1	1	1500	< 4 Samples			1500 J	1500 J	1500	Max	840	1
Naphthalene	1	1	99	< 4 Samples			99 J	99 J	99	Max	1000000	0
Phenanthrene	1	1	5800	< 4 Samples			5800 J	5800 J	5800	Max	1000000	0
Pyrene	1	1	6900	< 4 Samples			6900 J	6900 J	6900	Max	1000000	0
Pesticides/PCB (UG/KG)												
4,4'-DDE	2	2	15	< 4 Samples			12	18	18	Max	1800	0
4,4'-DDT	2	2	13	< 4 Samples			12 J	14 J	14	Max	1800	0
alpha-Chlordane	2	2	37	< 4 Samples			18 J	56 J	56	Max	490	0
Aroclor, Total	2	41	110	Undefined	140	140	57	709	140	95% UCL-T	1000	0
Aroclor, Total (Conservative)	2	41	120	Undefined	160	160	233	769	160	95% UCL-T	1000	0
Aroclor-1248	1	5	140	Undefined	410	150000	640	640	640	Max	1000	0
Aroclor-1260	1	40	95	Undefined	120	130	28	28	28	Max	1000	0
Aroclor-1262	1	22	60	Undefined	77	90	57 J	57 J	57	Max	1000	0
Aroclor-1268	1	41	99	Undefined	120	130	41	41	41	Max	1000	0
Endosulfan II	1	2	2	< 4 Samples			2 J	2 J	2	Max	410000	0
gamma-Chlordane	2	2	21	< 4 Samples			9.6 J	33 J	33	Max	490	0
Heptachlor	1	2	1.2	< 4 Samples			1.3 J	1.3 J	1.3	Max	140	0

TABLE 24
SUMMARY STATISTICS
SAMPLES OUTSIDE AREAS OF RAYMARK WASTE (0 - 15 bgs)
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

PARAMETER	Positive Detects	Number of Samples Analyzed	Average Conc.	Distribution [1]	95% UCL Normal	95% UCL Lognormal	Minumum Detected Conc.	Maximum Detected Conc.	Exposure Point Conc. [2]	Exposure Point Conc. Statistic [3]	CT DEC (Residential) [4] [5]	Number of Exceedances of CT DEC [4]

Notes:
[1] Distribution is an arrangement of values of a variable showing their observed or theoretical frequency of occurrence (normal, lognormal, undefined or too few samples).
[2] Exposure Point Concentration (EPC) is the lesser of the 95% UCL (upper confidence limit), as defined by the distribution of the dataset, and the maximum
[3] Exposure Point Concentration Statistic indicates whether the maximum or the 95% UCL was selected as the EPC.
[4] Asbestos is included with a criterion of 1% in the CT DEC column for comparison purposes. It's criterion is not a promulagated CT Remediation Standard Regulation.
[5] CT DEC - Direct Exposure Criteria for Residential or Commercial/Industrial Soils. CT Remediation Standard Regulations, January 1996, and additional approved criteria.

Appendix B-12

Summary of Risks and Hazards with and without FRW

TABLE 1
SUMMARY OF RECEPTOR RISKS AND HAZARDS WITH AND WITHOUT FRW
REMEDIAL INVESTIGATION
RAYMARK-OU6
STRATFORD, CONNECTICUT

Property	Total Area (acres)	Area of Raymark Waste (acres)	Fraction of Area estimated to contain Raymark Waste (FRW)	Lead (1)		Total Cancer Risks(2)		Total Noncancer Hazard Index	
				with FRW	without FRW	with FRW	without FRW	with FRW	without FRW
Lockwood Avenue Property - commercial	5.3	1.8	0.34	0.5-1.2%	2-3.6%	4.8E-05	1.4E-04	2.1	6.3
Lockwood Avenue Property- recreational	5.3	1.8	0.34	2.5%	31.7%	8.6E-05	2.1E-04	9.2	27
200 Ferry Boulevard	0.6	0.04	0.07	0.2-0.6%	0.4-1.1%	NE	NE	NE	NE
230 Ferry Boulevard	2.5	0.65	0.27	9 - 12%	56-58%	3.2E-04	1.2E-03	7.2	27
250 Ferry Boulevard	2.1	1.3	0.70	17-20%	28-32%	2.9E-04	4.1E-04	12	17
280 Ferry Boulevard	1.6	1.1	0.78	57-59%	69-71%	3.3E-04	4.2E-04	8.2	11
300 Ferry Boulevard	1.6	0.86	0.67	28-31%	46-49%	2.8E-04	4.2E-04	18	27
Lot behind 326 Ferry Boulevard	1.7	0.75	0.43	2.2-3.9%	10-13%	1.7E-04	4.0E-04	9	21
Vacant Lot at Housatonic Avenue	0.5	0.15	0.33	91%	99.7%	6.3E-04	1.9E-03	20	62
326 Ferry Boulevard	0.8	0.06	0.10	NA	NA	2.8E-06	2.8E-05	0.04	0.4
576 East Broadway	1.3	0.51	0.42	7.1-9.7%	29-33%	5.0E-04	1.2E-03	16	39
600 East Broadway	4.5	0.95	0.21	1.0-2.1%	14-17%	4.0E-05	1.9E-04	1.8	8.6
Vacant DOT Lot abutting I-95	2.4	0.21	0.09	0.2-0.7%	3.0-4.9%	5.0E-06	5.6E-05	0.2	2.2
CT Right of Way	1.9	0.10	0.05	0.2-0.6%	0.8-1.7%	1.8E-06	3.5E-05	0.03	0.6
CT Right of Way - Residential Portion	0.1	0.03	0.43	1.3%	13%	3.5E-05	8.1E-05	2.2	5
304 East Main Street	0.3	0.11	0.44	17-20%	50-53%	3.1E-04	7.1E-04	21	48
340 East Main Street	0.3	0.20	0.72	21-24%	33-36%	1.2E-06	1.6E-06	0.08	0.11
380 East Main Street	0.5	0.003	0.01	0.2-0.6%	6.4-8.9%	NE	NE	NE	NE
250 East Main Street	16.7	0.10	0.01	0.2-0.6%	18-21%	1.8E-07	1.8E-05	0.005	0.54
DPW Lot	6.4	0.82	0.16	0.2-0.7%	0.7-1.7%	NE	NE	NE	NE
251 East Main Street	0.7	0.09	0.15	NA	NA	NE	NE	NE	NE
Beacon Point Area	7.4	0.99	0.15	11%	93%	1.1E-04	7.2E-04	4.3	29
1 Beacon Point Road	0.9	0.10	0.12	0.5-1.2%	13-16%	8.2E-06	1.6E-04	0.19	3.7
Airport Property North of Marine Basin	15.1	1.1	0.07	0.2-0.7%	3.0-4.9%	2.1E-05	3.0E-04	0.0014	0.02
Wooster Park	4.0	0.16	0.04	0.69%	97%	1.6E-05	4.1E-04	0.7	17
Third Avenue Property	0.3	0.02	0.06	0.16%	73%	1.5E-05	2.5E-04	2.2	36

Notes:
(1) Probability that blood lead levels exceed 10 ug/dL; EPA's goal is that no more than 5% of individuals will have blood lead concentrations above 10 ug/dL.
(2) Cancer risks estimated using the dioxin slope factor of 1.5E+5
NA- Not Applicable - COPC selection criteria for lead (1000 ppm for commercial properties) was not exceeded.
NE- Not evaluated due to insufficient data.
All properties have asbestos above 1 percent.

Lead is above levels of concern, Cancer Risks are above 1E-04, AND/OR Hazard Indices are above 1.
Cancer risks fall in the range of 10^{-4} to 10^{-6}, hazard indices are less than 1, and lead is below levels of concern.
Lead is below levels of concern. Cancer risks are less than 10^{-6} and hazard indices are less than 1 OR cancer risks and hazard indices were not evaluated due to insufficent data.