APPENDIX F

Risk Characterization

Contaminants of Concern

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TABLE 10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Current
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Onsite Surface Soil	Arsenic	3E-05		1E-05		4E-05					
			Total Dioxin TEQ	3E-04		1E-04		4E-04					
			Benzo(a)anthracene	2E-05		2E-05		4E-05					
			Benzo(a)pyrene	1E-04		1E-04		2E-04					
			Benzo(b)fluoranthene	2E-05		2E-05		4E-05					
			Benzo(k)fluoranthene	1E-06		2E-06		3E-06					
			Dibenz(a,h)anthracene	2E-05		3E-05		6E-05					
			Indeno(1,2,3-c,d)Pyrene	6E-06		8E-06		1E-05					
			Pentachlorophenol	9E-07		3E-06		4E-06					
			Chemical Total	5E-04		3E-04		8E-04					
		Exposure Point Total						8E-04					
	Exposure Medium Total							8E-04					
	Air	Inhalation of particulates onsite (soil to air pathway)	Arsenic		2E-06			2E-06					
			Chemical Total		2E-06			2E-06					
		Exposure Point Total						2E-06					
	Exposure Medium Total							2E-06					
Medium Total								8E-04					
Receptor Total							Receptor Risk Total	8E-04				Receptor HI Total	

Results from Table 9.1.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.2.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Current
Receptor Population: Other Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Onsite Surface Soil	Arsenic	3E-05		1E-06		3E-05					
			Total Dioxin TEQ	3E-04		1E-05		3E-04					
			Benzo(a)anthracene	2E-05		2E-06		2E-05					
			Benzo(a)pyrene	1E-04		1E-05		1E-04					
			Benzo(b)fluoranthene	2E-05		2E-06		2E-05					
			Benzo(k)fluoranthene	1E-06		2E-07		1E-06					
			Dibenz(a,h)anthracene	2E-05		3E-06		3E-05					
			Indeno(1,2,3-c,d)Pyrene	6E-06		7E-07		7E-06					
			Pentachlorophenol	9E-07		3E-07		1E-06					
			Chemical Total	5E-04		3E-05		5E-04					
		Exposure Point Total						5E-04					
	Exposure Medium Total							5E-04					
	Air	Inhalation of particulates onsite (soil to air pathway)	Arsenic		1E-06			1E-06					
			Chemical Total		1E-06			1E-06					
		Exposure Point Total						1E-06					
	Exposure Medium Total							1E-06					
Medium Total								5E-04					
Receptor Total							Receptor Risk Total	5E-04				Receptor HI Total	

Results from Table 9.2.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.3.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Current
Receptor Population: Trespasser/Visitor
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Onsite Surface Soil	Arsenic	1E-05		7E-06		2E-05					
			Total Dioxin TEQ	1E-04		7E-05		2E-04					
			Benzo(a)anthracene	9E-06		1E-05		2E-05					
			Benzo(a)pyrene	5E-05		9E-05		1E-04					
			Benzo(b)fluoranthene	8E-06		1E-05		2E-05					
			Benzo(k)fluoranthene	6E-07		1E-06		2E-06					
			Dibenz(a,h)anthracene	1E-05		2E-05		3E-05					
			Indeno(1,2,3-c,d)Pyrene	3E-06		5E-06		8E-06					
			Pentachlorophenol	4E-07		2E-06		2E-06					
			Chemical Total	2E-04		2E-04		5E-04					
		Exposure Point Total						5E-04					
	Exposure Medium Total							5E-04					
Medium Total								5E-04					
Receptor Total							Receptor Risk Total	5E-04				Receptor HI Total	

Results from Table 9.3.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.4.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe:	Current
Receptor Population:	Trespasser/Visitor
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	Onsite Surface Soil	Arsenic	3E-05		2E-06		3E-05	Skin/Vascular	0.7		0.06	0.7
			Iron						GI Tract/Blood/Liver	0.3		0.008	0.3
			Thallium						Liver	0.1		0.003	0.1
			Vanadium						NOAEL	0.1		0.137	0.3
			Total Dioxin TEQ	3E-04		2E-05		3E-04					
			Benzo(a)anthracene	2E-05		5E-06		2E-05					
			Benzo(a)pyrene	1E-04		3E-05		1E-04					
			Benzo(b)fluoranthene	1E-05		4E-06		2E-05					
			Benzo(k)fluoranthene	1E-06		3E-07		2E-06					
			Dibenz(a,h)anthracene	2E-05		7E-06		3E-05					
			Indeno(1,2,3-c,d)Pyrene	6E-06		2E-06		7E-06					
			Pentachlorophenol	8E-07		6E-07		1E-06					
			Chemical Total	4E-04		7E-05		5E-04		1		0.2	1
		Exposure Point Total						5E-04					1
	Exposure Medium Total							5E-04					1
Medium Total								5E-04					1
Receptor Total							Receptor Risk Total	5E-04				Receptor HI Total	1

Results from Table 9.4.RME.

Conclusion:

1. The hazard index is one, however, the individual target organ HIs are less than one.
2. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

Total Skin/Vascular HI Across All Media	0.7
Total GI Tract/Blood HI Across All Media	0.3
Total Liver HI Across All Media	0.4

TABLE 10.5.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Current
Receptor Population: Other Worker
Receptor Age: Adult

Results from Table 9.5.RME.

Conclusions:

1. The excess cancer risk level is below EPA's acceptable range (10-4 and 10-6).
2. Based on this conclusion, there are no Chemicals of Concern for offsite workers and preparation of Table 10.5.RME is not applicable.

TABLE10.6.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	Onsite Soil	Arsenic	2E-05		9E-06		3E-05					
			Total Dioxin TEQ	2E-04		8E-05		3E-04					
			Benzo(a)anthracene	3E-05		4E-05		7E-05					
			Benzo(a)pyrene	2E-04		3E-04		6E-04					
			Benzo(b)fluoranthene	3E-05		3E-05		6E-05					
			Benzo(k)fluoranthene	2E-06		2E-06		4E-06					
			Dibenz(a,h)anthracene	4E-05		6E-05		1E-04					
			Indeno(1,2,3-c,d)Pyrene	1E-05		2E-05		3E-05					
			Pentachlorophenol	4E-06		1E-05		1E-05					
			Chemical Total	6E-04		6E-04		1E-03					
		Exposure Point Total						1E-03					
	Exposure Medium Total							1E-03					
	Air	Inhalation of particulates onsite (soil to air pathway)	Arsenic		1E-06			1E-06					
			Chemical Total		1E-06			1E-06					
		Exposure Point Total						1E-06					
	Exposure Medium Total							1E-06					
Medium Total								1E-03					
Receptor Total							Receptor Risk Total	1E-03				Receptor HI Total	

Results from Table 9.6.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.7.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Other Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	Onsite Soil	Arsenic	2E-05		9E-07		2E-05					
			Total Dioxin TEQ	2E-04		7E-06		2E-04					
			Benzo(a)anthracene	3E-05		4E-06		3E-05					
			Benzo(a)pyrene	2E-04		3E-05		3E-04					
			Benzo(b)fluoranthene	3E-05		3E-06		3E-05					
			Benzo(k)fluoranthene	2E-06		2E-07		2E-06					
			Dibenz(a,h)anthracene	4E-05		5E-06		5E-05					
			Indeno(1,2,3-c,d)Pyrene	1E-05		1E-06		1E-05					
			Pentachlorophenol	4E-06		1E-06		5E-06					
			Chemical Total	6E-04		5E-05		6E-04					
		Exposure Point Total						6E-04					
	Exposure Medium Total							6E-04					
Medium Total								6E-04					
Receptor Total							Receptor Risk Total	6E-04				Receptor HI Total	

Results from Table 9.7.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.8.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Trespasser/Visitor
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	Onsite Soil	Arsenic	1E-05		6E-06		2E-05					
			Total Dioxin TEQ	1E-04		5E-05		2E-04					
			Benzo(a)anthracene	2E-05		3E-05		4E-05					
			Benzo(a)pyrene	1E-04		2E-04		3E-04					
			Benzo(b)fluoranthene	1E-05		2E-05		4E-05					
			Benzo(k)fluoranthene	8E-07		1E-06		2E-06					
			Dibenz(a,h)anthracene	2E-05		4E-05		6E-05					
			Indeno(1,2,3-c,d)Pyrene	6E-06		1E-05		2E-05					
			Pentachlorophenol	2E-06		7E-06		9E-06					
			Chemical Total	3E-04		4E-04		7E-04					
		Exposure Point Total						7E-04					
	Exposure Medium Total							7E-04					
Medium Total								7E-04					
Receptor Total							Receptor Risk Total	7E-04				Receptor HI Total	

Results from Table 9.8.RME.

Conclusion:

1. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

TABLE 10.9.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Trespasser/Visitor
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	Onsite Soil	Arsenic	2E-05		2E-06		2E-05	Skin/Vascular	0.5		0.05	0.6
			Iron						GI Tract/Blood/Liver	0.3		0.008	0.3
			Vanadium						NOAEL	0.1		0.1	0.2
			Total Dioxin TEQ	2E-04		2E-05		2E-04					
			Benzo(a)anthracene	3E-05		8E-06		4E-05					
			Benzo(a)pyrene	2E-04		7E-05		3E-04					
			Benzo(b)fluoranthene	2E-05		7E-06		3E-05					
			Benzo(k)fluoranthene	2E-06		5E-07		2E-06					
			Dibenz(a,h)anthracene	4E-05		1E-05		5E-05					
			Indeno(1,2,3-c,d)Pyrene	1E-05		3E-06		1E-05					
			Pentachlorophenol	3E-06		2E-06		6E-06					
			Chemical Total	5E-04		1E-04		7E-04		0.9		0.2	1
		Exposure Point Total						7E-04					1
	Exposure Medium Total							7E-04					1
Medium Total								7E-04					1
Receptor Total							Receptor Risk Total	7E-04				Receptor HI Total	1

Results from Table 9.9.RME.

Conclusion:

1. The hazard index is one, however, the individual target organ HIs are less than one.
2. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

Total Skin/Vascular HI Across All Media	0.6
Total GI/Blood/Liver Tract HI Across All Media	0.3
Total NOAEL HI Across All Media	0.2

TABLE 10.10.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	Onsite Soil	Antimony						Longevity/Blood	0.2		0.05	0.2
			Arsenic	4E-06		6E-07		5E-06	Skin/Vascular	1		0.2	2
			Chromium						NOAEL	0.05		0.09	0.1
			Iron						GI Tract/Blood/Liver	0.7		0.03	0.7
			Thallium						Liver	0.2		0.009	0.2
			Vanadium						NOAEL	0.2		0.4	0.6
			Total Dioxin TEQ	4E-05		5E-06		4E-05					
			Benzo(a)anthracene	6E-06		3E-06		9E-06					
			Benzo(a)pyrene	5E-05		2E-05		7E-05					
			Benzo(b)fluoranthene	5E-06		2E-06		7E-06					
			Dibenz(a,h)anthracene	9E-06		4E-06		1E-05					
			Fluoranthene						Kidney/Liver/Blood	0.08		0.04	0.1
			Indeno(1,2,3-c,d)Pyrene	2E-06		1E-06		3E-06					
			Naphthalene						Body Weight	0.2		0.07	0.2
			Pentachlorophenol	7E-07		7E-07		1E-06					
			Phenanthrene						Kidney	0.2		0.08	0.3
			Pyrene						Kidney	0.09		0.04	0.1
			Chemical Total	1E-04		4E-05		1E-04		3		1	4
		Exposure Point Total						1E-04					4
	Exposure Medium Total							1E-04					4
Medium Total								1E-04					4
Receptor Total							Receptor Risk Total	1E-04				Receptor HI Total	4

Results from Table 9.10.RME.

Conclusion:

1. The hazard index is greater than one, indicating non-cancer effects are possible. Individual target organ HIs for skin/vascular are greater than one. Individual target organ HIs for blood and liver are one.
2. The excess cancer risk level is above EPA's acceptable range (10-4 and 10-6).

Total Skin/Vascular HI Across All Media	2
Total GI Tract HI Across All Media	0.7
Total Blood HI Across All Media	1
Total Liver HI Across All Media	1
Total Kidney HI Across All Media	0.5
Total NOAEL HI Across All Media	0.8
Total Body Weight HI Across All Media	0.2
Total Longevity HI Across All Media	0.2

TABLE 10.11.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU1

Scenario Timeframe: Future
Receptor Population: Other Worker
Receptor Age: Adult

Results from Table 9.11.RME.

Conclusions:

1. The excess cancer risk level is below EPA's acceptable range (10-4 and 10-6).
2. Based on this conclusion, there are no Chemicals of Concern for offsite workers and preparation of Table 10.11.RME is not applicable.

TABLE 10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Shallow Groundwater	Contact with Shallow Groundwater during Excavation/Trenching Activities	Total Dioxin TEQ (EPA)	6.0E-09		1.2E-05		1.2E-05	Development	6.4.E-03		1.3E+01	1.3E+01
			Benzene						Blood				
			Xylenes (total)						Whole Body				
			1,1'-Biphenyl						Kidney				
			2,4,6-Trichlorophenol						NA				
			2,4-Dichlorophenol						Immune System				
			2,4-Dimethylphenol						Blood				
			2-Chlorophenol						Reproductive System				
			2-Methylnaphthalene						Respiratory System				
			2-Methylphenol (o-cresol)						Whole Body/CNS				
			4-Methylphenol (p-cresol)						CNS/Respiratory System/Whole Body				
			Acenaphthene						Liver				
			Benzo(a)anthracene	1.5E-09		2.0E-06		2.0E-06	NA				
			Benzo(a)pyrene	5.1E-09		1.1E-05		1.1E-05	NA				
			Benzo(b)fluoranthene	5.1E-10		1.2E-06		1.2E-06	NA				
			Benzo(k)fluoranthene						NA				
			bis(2-Ethylhexyl)phthalate						Liver				
			Carbazole						NA				
			Dibenzofuran						NA				
			Fluorene						Blood				
			Indeno(1,2,3-cd)pyrene						NA				
			Naphthalene						Whole Body	1.6.E-02		1.1E+00	1.1E+00
			Pentachlorophenol	2.1E-07		2.7E-04		2.7E-04	Liver / Kidney	8.3.E-03		1.0E+01	1.0E+01
			Phenanthrene						Kidney	4.3.E-04		1.2E-01	1.2E-01
			Pyrene						Kidney				
			4,4'-DDT						Liver				
			alpha-BHC						Liver				
			beta-BHC						Liver				
			delta-BHC						Liver				
			Dieldrin						Liver				
			Heptachlor Epoxide						Liver				
			Aluminum						CNS				

TABLE 10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Arsenic Cadmium Chromium Copper Iron Manganese Mercury Vanadium Zinc						Skin/Vascular Kidney NOAEL GI Tract GI Tract/Blood/Liver CNS Immune System NOAEL Blood				
			Chemical Total	2.3E-07		3.0E-04		3.0E-04		3.1E-02		2.5E+01	2.5E+01
		Exposure Point Total						3.0E-04					2.5E+01
	Exposure Medium Total							3.0E-04					2.5E+01
	Air	Vapors from Shallow Groundwater entering Excavation/Trench	Benzene 2-Methylnaphthalene Dibenzofuran Naphthalene						Blood NA NA Respiratory System				
			Chemical Total										
		Exposure Point Total											
	Exposure Medium Total												
Medium Total								3.0E-04					2.5E+01
Receptor Total							Receptor Risk Total	3.0E-04				Receptor HI Total	2.5E+01

Results from Table 9.1.RME.

Conclusions:

1. This table represents risk drivers for:

- an exposure medium total exceeding a hazard index of one whose individual chemical hazard quotients exceed 0.1.
- an exposure medium total exceeding EPA's acceptable range of 10-4 to 10-6 whose individual chemical cancer risk exceed 10-6.

Total Development HI =	1.3E+01
Total Kidney HI =	1.1E+01
Total Liver HI =	1.0E+01
Total Whole Body HI =	1.1E+00

TABLE 10.2.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Mixed Shallow and Intermediate Groundwater	Tap Water from Mixed Shallow and Intermediate Groundwater	Total Dioxin TEQ (EPA)	2.5E-05		1.0E-03		1.0E-03	Development	5.4.E-01		2.2E+01	2.2E+01
			Benzene	1.1E-05		3E-06		1.5E-05	Blood	1.5.E-01		4.5E-02	1.9E-01
			Xylenes (total)						Whole Body				
			1,1'-Biphenyl						Kidney				
			2,4,6-Trichlorophenol	6.5E-07		1.0E-06		1.7E-06	NA				
			2,4-Dichlorophenol						Immune System				
			2,4-Dimethylphenol						Blood	3.0.E-01		9.1E-02	3.9E-01
			2-Chlorophenol						Reproductive System				
			2-Methylnaphthalene						Respiratory System	5.8.E-01		NA	5.8E-01
			2-Methylphenol (o-cresol)						Whole Body/CNS				
			4-Methylphenol (p-cresol)						CNS/Respiratory System/Whole Body	1.9.E-01		NA	1.9E-01
			Acenaphthene						Liver				
			Benzo(a)anthracene	7.7E-06		1.9E-04		2.0E-04	NA				
			Benzo(a)pyrene	2.6E-05		1.1E-03		1.1E-03	NA				
			Benzo(b)fluoranthene	2.6E-06		1.1E-04		1.2E-04	NA				
			Benzo(k)fluoranthene	2.3E-07		NA		2.3E-07	NA				
			bis(2-Ethylhexyl)phthalate	1.2E-06		3.6E-06		4.7E-06	Liver				
			Carbazole	1.6E-05		NA		1.6E-05	NA				
			Dibenzofuran						NA				
			Fluorene						Blood				
			Indeno(1,2,3-cd)pyrene	1.8E-06		7.9E-05		8.1E-05	NA				
			Naphthalene						Whole Body	1.3.E+00		1.7E+00	3.0E+00
			Pentachlorophenol	8.6E-04		2.1E-02		2.2E-02	Liver / Kidney	6.7.E-01		1.6E+01	1.7E+01
			Phenanthrene						Kidney	3.6.E-02		2.0E-01	2.3E-01
			Pyrene						Kidney				
			4,4'-DDT	3.9E-07		9.0E-06		9.4E-06	Liver	6.4.E-03		1.5E-01	1.5E-01
			alpha-BHC						Liver				
			beta-BHC						Liver				
			delta-BHC						Liver				
			Dieldrin	2.9E-06		4.0E-06		6.9E-06	Liver				
			Heptachlor Epoxide	8.0E-07		7.6E-07		1.6E-06	Liver				
			Aluminum						CNS				

TABLE 10.2.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Arsenic	3.2E-04		NA		3.2E-04	Skin/Vascular	2.0.E+00		NA	2.0E+00
			Cadmium	5.0E-06		1.0E-06		6.0E-06	Kidney				
			Chromium						NOAEL				
			Copper						GI Tract	1.4.E-01		NA	1.4E-01
			Iron						GI Tract/Blood/Liver	8.0.E-01		NA	8.0E-01
			Manganese						CNS	6.5.E-01		NA	6.5E-01
			Mercury						Immune System				
			Vanadium						NOAEL				
			Zinc						Blood				
			Chemical Total	1.3E-03		2.3E-02		2.5E-02		7.3E+00		4.0E+01	4.7E+01
		Exposure Point Total						2.5E-02					4.7E+01
	Exposure Medium Total							2.5E-02					4.7E+01
	Air	Water Vapors from	Total Dioxin TEQ (EPA)						NA				
		Showerhead - Tap Water	Benzene		2.1E-05			2.1E-05	Blood		2.5E-01		2.5E-01
		from Mixed Shallow and	Xylenes (total)						CNS		7.4E-02		7.4E-02
		Intermediate Groundwater	1,1'-Biphenyl						NA				
			2,4,6-Trichlorophenol						NA				
			2,4-Dichlorophenol						NA				
			2,4-Dimethylphenol						NA				
			2-Chlorophenol						NA				
			2-Methylnaphthalene						NA				
			2-Methylphenol (o-cresol)						NA				
			4-Methylphenol (p-cresol)						NA				
			Acenaphthene						NA				
			Benzo(a)anthracene						NA				
			Benzo(a)pyrene						NA				
			Benzo(b)fluoranthene						NA				
			Benzo(k)fluoranthene						NA				
			bis(2-Ethylhexyl)phthalate						NA				
			Carbazole						NA				
			Dibenzofuran						NA				
			Fluorene						NA				

TABLE 10.2.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Indeno(1,2,3-cd)pyrene						NA				
			Naphthalene						Respiratory System		6.8E+01		6.8E+01
			Pentachlorophenol						NA				
			Phenanthrene						NA				
			Pyrene						NA				
			4,4'-DDT						NA				
			alpha-BHC						NA				
			beta-BHC						NA				
			delta-BHC						NA				
			Dieldrin						NA				
			Heptachlor Epoxide						NA				
			Chemical Total		2.1E-05			2.1E-05			6.8E+01		6.8E+01
		Exposure Point Total						2.1E-05					6.8E+01
	Exposure Medium Total							2.1E-05					6.8E+01
	Deep Groundwater	Tap Water from Deep Groundwater	Chloroform						Liver				
			Arsenic	4.0E-05		NA		4.0E-05	Skin/Vascular	2.5E-01		NA	2.5E-01
			Iron						GI Tract/Blood/Liver	3.2E-01		NA	3.2E-01
			Manganese						CNS	1.4E-01		NA	1.4E-01
			Chemical Total	4.0E-05		NA		4.0E-05		7.0E-01		NA	7.0E-01
		Exposure Point Total						4.0E-05					7.0E-01
	Exposure Medium Total							4.0E-05					7.0E-01
	Air	Water Vapors from Showerhead - Tap Water from Deep Groundwater	Chloroform						Liver				
			Chemical Total										
		Exposure Point Total											
	Exposure Medium Total												
Medium Total								2.5E-02					1.2E+02
Receptor Total							Receptor Risk Total	2.5E-02				Receptor HI Total	1.2E+02

NA = Not Available

Results from Table 9.2.RME.

Total Development HI = **2.2E+01**

TABLE 10.2.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total

Conclusions:

1. This table represents risk drivers for:

- an exposure medium total exceeding a hazard index of one whose individual chemical hazard quotients exceed 0.1.
- an exposure medium total exceeding EPA's acceptable range of 10-4 to 10-6 whose individual chemical cancer risk exceed 10-6.

Total Kidney HI =	**1.7E+01**
Total Liver HI =	**1.8E+01**
Total Blood HI =	**2.0E+00**
Total Whole Body =	**3.2E+00**
Total Respiratory System HI =	**6.8E+01**
Total CNS HI =	**1.1E+00**
Total Skin/Vascular HI =	**2.2E+00**
Total GI Tract HI =	**1.3E+00**

TABLE 10.3.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Other Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Mixed Shallow and Intermediate Groundwater	Tap Water from Mixed Shallow and Intermediate Groundwater	Total Dioxin TEQ (EPA)	7.2E-06		4.2E-05		4.9E-05	Development	1.6E-01		9.1E-01	1.1E+00
			Benzene	3.3E-06		1.5E-07		3.4E-06	Blood				
			Xylenes (total)						Whole Body				
			1,1'-Biphenyl						Kidney				
			2,4,6-Trichlorophenol						NA				
			2,4-Dichlorophenol						Immune System				
			2,4-Dimethylphenol						Blood				
			2-Chlorophenol						Reproductive System				
			2-Methylnaphthalene						Respiratory System				
			2-Methylphenol (o-cresol)						Whole Body/CNS				
			4-Methylphenol (p-cresol)						CNS/Respiratory System/Whole Body				
			Acenaphthene						Liver				
			Benzo(a)anthracene	2.2E-06		8.2E-06		1.0E-05	NA				
			Benzo(a)pyrene	7.3E-06		4.7E-05		5.4E-05	NA				
			Benzo(b)fluoranthene	7.3E-07		4.7E-06		5.5E-06	NA				
			Benzo(k)fluoranthene						NA				
			bis(2-Ethylhexyl)phthalate						Liver				
			Carbazole	4.5E-06		NA		4.5E-06	NA				
			Dibenzofuran						NA				
			Fluorene						Blood				
			Indeno(1,2,3-cd)pyrene	5.1E-07		3.3E-06		3.8E-06	NA				
			Naphthalene						Whole Body				
			Pentachlorophenol	2.5E-04		8.8E-04		1.1E-03	Liver / Kidney	1.9E-01		6.8E-01	8.7E-01
			Phenanthrene						Kidney				
			Pyrene						Kidney				
			4,4'-DDT						Liver				
			alpha-BHC						Liver				
			beta-BHC						Liver				
			delta-BHC						Liver				
			Dieldrin	8.3E-07		1.7E-07		1.0E-06	Liver				
			Heptachlor Epoxide						Liver				
			Aluminum						CNS				

TABLE 10.3.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries Superfund Site OU2

Scenario Timeframe: Future
Receptor Population: Other Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Arsenic	9.1E-05		NA		9.1E-05	Skin/Vascular				
			Cadmium	1.4E-06		5.8E-08		1.5E-06	Kidney				
			Chromium						NOAEL				
			Copper						GI Tract				
			Iron						GI Tract/Blood/Liver	2.3E-01			2.3E-01
			Manganese						CNS				
			Mercury						Immune System				
			Vanadium						NOAEL				
			Zinc						Blood				
			Chemical Total	3.7E-04		9.8E-04		1.3E-03		5.8E-01		1.6E+00	2.2E+00
		Exposure Point Total						1.3E-03					2.2E+00
	Exposure Medium Total							1.3E-03					2.2E+00
	Deep Groundwater	Tap Water from Deep Groundwater	Chloroform						Liver				
			Arsenic	1.1E-05		NA		1.1E-05	Skin/Vascular				
			Iron						GI Tract/Blood/Liver				
			Manganese						CNS				
			Chemical Total	1.1E-05		NA		1.1E-05					
		Exposure Point Total						1.1E-05					
	Exposure Medium Total							1.1E-05					
Medium Total								1.4E-03					2.2E+00
Receptor Total							Receptor Risk Total	1.4E-03				Receptor HI Total	2.2E+00

NA = Not Available

Results from Table 9.3.RME.

Total Development HI =	1.1E+00
Total Liver HI =	1.1E+00

Conclusions:

1. This table represents risk drivers for:

- an exposure medium total exceeding a hazard index of one whose individual chemical hazard quotients exceed 0.1.
- an exposure medium total exceeding EPA's acceptable range of 10-4 to 10-6 whose individual chemical cancer risk exceed 10-6.

Table 10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Shellfish Tissue
Exposure Point: Crab meat from crabs collected adjacent to the AWI site
Exposure Route: Ingestion

	Subsistence Fisher												Recreational Fishers											
	Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer			Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer		
Contaminant of Concern	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal
Total Dioxin TEQ	non-COC	1.3E-05	2.6E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Mercury	non-COC	non-COC	non-COC	non-COC	8.6E-01	1.7E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.1E-01	3.4E-01	1.0E+00
Arsenic	1.3E-03	2.6E-03	5.2E-03	6.7E+00	1.3E+01	2.7E+01	1.0E-04	3.0E-04	9.1E-04	2.6E+00	7.8E+00	2.3E+01	4.3E-04	8.6E-04	1.7E-03	2.2E+00	4.5E+00	8.9E+00	6.7E-05	2.0E-04	6.0E-04	1.7E+00	5.2E+00	1.6E+01
Selenium	non-COC	non-COC	non-COC	non-COC	2.1E-01	4.3E-01	non-COC	non-COC	non-COC	non-COC	non-COC	3.7E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	2.5E-01
Thallium	non-COC	non-COC	non-COC	non-COC	non-COC	1.2E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.0E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Aroclor-1260	3.0E-05	5.9E-05	1.2E-04	non-COC	non-COC	non-COC	non-COC	non-COC	2.1E-05	non-COC	non-COC	non-COC	9.8E-06	2.0E-05	3.9E-05	non-COC	non-COC	non-COC	non-COC	non-COC	1.4E-05	non-COC	non-COC	non-COC
Dieldrin	non-COC	non-COC	1.6E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Heptachlorepoxide	non-COC	non-COC	non-COC	non-COC	non-COC	1.1E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Benzo(a)pyrene	1.8E-05	3.6E-05	7.3E-05	non-COC	non-COC	non-COC	non-COC	non-COC	1.3E-05	non-COC	non-COC	non-COC	6.1E-06	1.2E-05	2.4E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Benzo(b)fluoranthene	non-COC	non-COC	1.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Dibenzo(a,h)anthracene	non-COC	non-COC	1.8E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
TOTAL	**1.3E-03**	**2.7E-03**	**5.4E-03**	**6.7E+00**	**1.4E+01**	**3.0E+01**	**1.0E-04**	**3.0E-04**	**9.4E-04**	**2.6E+00**	**7.8E+00**	**2.6E+01**	**4.5E-04**	**8.9E-04**	**1.8E-03**	**2.2E+00**	**4.5E+00**	**8.9E+00**	**6.7E-05**	**2.0E-04**	**6.2E-04**	**1.9E+00**	**5.6E+00**	**1.7E+01**

Total Skin/Vascular HI =	6.7E+00	1.3E+01	2.7E+01	2.6E+00	7.8E+00	2.3E+01	2.2E+00	4.5E+00	8.9E+00				1.7E+00	5.2E+00	1.6E+01									
Total Liver HI =			1.3E+00			1.0E+00																		
Total Central Nervous System HI =		1.1E+00	2.2E+00			1.9E+00									1.3E+00									

Notes:

1. Contaminant of Concern (COC) is defined as having an individual cancer risk greater than 10^{-5} or an individual hazard quotient of 0.1 when the total cancer risk for the receptor exceeds 10-4 or an HI of 1.
2. Actual risks are slightly higher because they include risks from non-COCs.
3. Cobalt, copper, 4,4'-DDE, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene were evaluated in Table 9.1.RME but are not identified in this table as COCs.

Results from Table 9.1.RME.

Table 10.2.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Shellfish Tissue

Exposure Point: Crab meat from crabs collected near Scuffletown Creek

Exposure Route: Ingestion

	Subsistence Fisher												Recreational Fishers											
	Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer			Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer		
Contaminant of Concern	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal
Mercury	non-COC	non-COC	non-COC	non-COC	non-COC	1.2E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.1E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Arsenic	7.7E-04	1.5E-03	3.1E-03	4.0E+00	8.0E+00	1.6E+01	6.0E-05	1.8E-04	5.4E-04	1.6E+00	4.7E+00	1.4E+01	2.6E-04	5.1E-04	1.0E-03	1.3E+00	2.7E+00	5.3E+00	4.0E-05	1.2E-04	3.6E-04	1.0E+00	3.1E+00	9.3E+00
Selenium	non-COC	non-COC	non-COC	non-COC	non-COC	3.3E-01	non-COC	non-COC	non-COC	non-COC	non-COC	2.9E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Aroclor-1260	non-COC	1.8E-05	3.7E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.2E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Benzo(a)pyrene	non-COC	non-COC	2.1E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
TOTAL	**7.7E-04**	**1.8E-03**	**3.1E-03**	**4.0E+00**	**8.0E+00**	**1.6E+01**	**6.0E-05**	**1.8E-04**	**5.4E-04**	**1.6E+00**	**4.7E+00**	**1.5E+01**	**2.6E-04**	**5.1E-04**	**1.0E-03**	**1.3E+00**	**2.7E+00**	**5.3E+00**	**4.0E-05**	**1.2E-04**	**3.6E-04**	**1.0E+00**	**3.1E+00**	**9.3E+00**

Total Skin/Vascular HI =	4.0E+00	8.0E+00	1.6E+01				1.6E+00	4.7E+00	1.4E+01				1.3E+00	2.7E+00	5.3E+00				1.0E+00	3.1E+00	9.3E+00			
Total Central Nervous System HI =			1.5E+00						1.3E+00															

Notes:

1. Contaminant of Concern (COC) is defined as having an individual cancer risk greater than 10^{-5} or an individual hazard quotient of 0.1 when the total cancer risk for the receptor exceeds 10-4 or an HI of 1.
2. Actual risks are slightly higher because they include risks from non-COCs.
3. Dioxin, cobalt, copper, and benzo(b)fluoranthene were evaluated in Table 9.2.RME but are not identified in this table as COCs.

Results from Table 9.2.RME.

Table 10.3.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Shellfish Tissue
Exposure Point: Whole Crab (meat and hepatopancreas) from crabs collected adjacent to the AWI site
Exposure Route: Ingestion

	Subsistence Fisher												Recreational Fisher											
	Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer			Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer		
Contaminant of Concern	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal
Total Dioxin TEQ	5.6E-04	1.1E-03	2.2E-03	8.7E+00	1.7E+01	3.5E+01	4.4E-05	1.3E-04	3.9E-04	3.4E+00	1.0E+01	3.1E+01	1.9E-04	3.7E-04	7.5E-04	2.9E+00	5.8E+00	1.2E+01	2.9E-05	8.7E-05	2.6E-04	2.3E+00	6.8E+00	2.0E+01
Mercury	non-COC	non-COC	non-COC	non-COC	1.0E+00	2.1E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.8E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.2E+00
Arsenic	2.2E-03	4.4E-03	8.8E-03	1.1E+01	2.3E+01	4.6E+01	1.7E-04	5.2E-04	1.5E-03	4.5E+00	1.3E+01	4.0E+01	7.4E-04	1.5E-03	2.9E-03	3.8E+00	7.6E+00	1.5E+01	1.1E-04	3.4E-04	1.0E-03	3.0E+00	8.9E+00	2.7E+01
Cadmium	8.8E-05	1.8E-04	3.5E-04	non-COC	1.1E+00	2.2E+00	non-COC	2.0E-05	6.1E-05	non-COC	non-COC	1.9E+00	2.9E-05	5.8E-05	1.2E-04	non-COC	non-COC	non-COC	non-COC	1.4E-05	4.1E-05	non-COC	non-COC	1.3E+00
Copper	non-COC	non-COC	non-COC	1.1E+00	2.2E+00	4.4E+00	non-COC	non-COC	non-COC	non-COC	1.3E+00	3.8E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E+00	non-COC	non-COC	non-COC	non-COC	non-COC	2.5E+00
Selenium	non-COC	non-COC	non-COC	non-COC	4.8E-01	9.6E-01	non-COC	non-COC	non-COC	non-COC	non-COC	8.4E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	5.6E-01
Thallium	non-COC	non-COC	non-COC	1.4E+00	2.9E+00	5.7E+00	non-COC	non-COC	non-COC	non-COC	1.7E+00	5.0E+00	non-COC	non-COC	non-COC	non-COC	9.5E-01	1.9E+00	non-COC	non-COC	non-COC	non-COC	1.1E+00	3.3E+00
4,4'-DDE	non-COC	non-COC	1.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
4-4'-DDT	non-COC	non-COC	1.3E-05	non-COC	non-COC	1.7E-01	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Aroclor-1260	2.3E-04	4.6E-04	9.2E-04	non-COC	non-COC	non-COC	1.8E-05	5.3E-05	1.6E-04	non-COC	non-COC	non-COC	7.6E-05	1.5E-04	3.1E-04	non-COC	non-COC	non-COC	1.2E-05	3.6E-05	1.1E-04	non-COC	non-COC	non-COC
Dieldrin	5.2E-05	1.0E-04	2.1E-04	1.5E-01	3.0E-01	6.1E-01	non-COC	1.2E-05	3.6E-05	non-COC	1.8E-01	5.3E-01	1.7E-05	3.5E-05	6.9E-05	non-COC	non-COC	2.0E-01	non-COC	non-COC	2.4E-05	non-COC	1.2E-01	3.5E-01
Heptachlorepoxide	1.8E-05	3.6E-05	7.3E-05	3.6E-01	7.2E-01	1.4E+00	non-COC	non-COC	1.3E-05	non-COC	4.2E-01	1.3E+00	6.1E-06	1.2E-05	2.4E-05	non-COC	2.4E-01	4.8E-01	non-COC	non-COC	non-COC	non-COC	2.8E-01	8.4E-01
Benzo(a)anthracene	1.1E-05	2.3E-05	4.6E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Benzo(a)pyrene	4.9E-05	9.8E-05	2.0E-04	non-COC	non-COC	non-COC	non-COC	1.1E-05	3.4E-05	non-COC	non-COC	non-COC	1.6E-05	3.3E-05	6.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	2.3E-05	non-COC	non-COC	non-COC
Benzo(b)fluoranthene	1.1E-05	2.2E-05	4.4E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Dibenzo(a,h)anthracene	1.1E-05	2.2E-05	4.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
TOTAL	3.2E-03	6.5E-03	1.3E-02	2.3E+01	4.9E+01	9.8E+01	2.3E-04	7.4E-04	2.2E-03	7.8E+00	2.7E+01	8.6E+01	1.1E-03	2.1E-03	4.3E-03	6.7E+00	1.5E+01	3.1E+01	1.6E-04	4.8E-04	1.5E-03	5.2E+00	1.7E+01	5.7E+01

Total Overall Human Development HI =	8.7E+00	1.7E+01	3.5E+01				3.4E+00	1.0E+01	3.1E+01				2.9E+00	5.8E+00	1.2E+01				2.3E+00	6.8E+00	2.0E+01			
Total Central Nervous System HI =		1.5E+00	3.0E+00						2.7E+00										non-COC		1.8E+00			
Total Skin/Vascular HI =	1.1E+01	2.3E+01	4.6E+01				4.5E+00	1.3E+01	4.0E+01				3.8E+00	7.6E+00	1.5E+01				3.0E+00	8.9E+00	2.7E+01			
Total Kidney HI =		1.1E+00	2.2E+00						1.9E+00												1.3E+00			
Total Gastrointestinal Tract HI =	1.1E+00	2.2E+00	4.4E+00					1.3E+00	3.8E+00						1.5E+00						2.5E+00			
Total Liver HI =	1.9E+00	3.9E+00	7.9E+00					2.3E+00	6.9E+00					1.2E+00	2.6E+00					1.5E+00	4.5E+00			

Notes:
1. Contaminant of Concern (COC) is defined as having an individual cancer risk greater than 10^{-5} or an individual hazard quotient of 0.1 when the total cancer risk for the receptor exceeds 10-4 or an HI of 1.
2. Actual risks are slightly higher because they include risks from non-COCs.
3. Cobalt, vanadium, zinc, alpha-, beta-, and delta-BHC, heptachlor, and indeno(1,2,3-cd)pyrene were evaluated in Table 9.2.RME but are not identified in this table as COCs. Results from Table 9.3.RME.

Table 10.4.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Shellfish Tissue
Exposure Point: Whole Crab (meat and hepatopancreas) from crabs collected near Scuffletown Creek
Exposure Route: Ingestion

	Subsistence Fisher												Recreational Fisher											
	Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer			Adult Cancer			Adult Noncancer			Child Cancer			Child Noncancer		
Contaminant of Concern	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	6 crabs/ meal	12 crabs/ meal	24 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal	1 crab/ meal	3 crabs/ meal	9 crabs/ meal
Total Dioxin TEQ	2.3E-04	4.6E-04	9.2E-04	3.6E+00	7.2E+00	1.4E+01	1.8E-05	5.4E-05	1.6E-04	1.4E+00	4.2E+00	1.3E+01	7.7E-05	1.5E-04	3.1E-04	1.2E+00	2.4E+00	4.8E+00	1.2E-05	3.6E-05	1.1E-04	non-COC	2.8E+00	8.4E+00
Mercury	non-COC	non-COC	non-COC	non-COC	7.4E-01	1.5E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.3E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	8.6E-01
Arsenic	1.5E-03	3.0E-03	6.0E-03	7.7E+00	1.5E+01	3.1E+01	1.2E-04	3.5E-04	1.0E-03	3.0E+00	9.0E+00	2.7E+01	5.0E-04	1.0E-03	2.0E-03	2.6E+00	5.2E+00	1.0E+01	7.7E-05	2.3E-04	7.0E-04	2.0E+00	6.0E+00	1.8E+01
Cadmium	8.6E-05	1.7E-04	3.4E-04	non-COC	1.1E+00	2.1E+00	non-COC	2.0E-05	6.0E-05	non-COC	non-COC	1.8E+00	2.9E-05	5.7E-05	1.1E-04	non-COC	non-COC	non-COC	non-COC	1.3E-05	4.0E-05	non-COC	non-COC	1.2E+00
Copper	non-COC	non-COC	non-COC	non-COC	1.8E+00	3.5E+00	non-COC	non-COC	non-COC	non-COC	non-COC	3.1E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.2E+00	non-COC	non-COC	non-COC	non-COC	non-COC	2.1E+00
Selenium	non-COC	non-COC	non-COC	non-COC	3.8E-01	7.6E-01	non-COC	non-COC	non-COC	non-COC	non-COC	6.6E-01	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	4.4E-01
Thallium	non-COC	non-COC	non-COC	non-COC	8.3E-01	1.7E+00	non-COC	non-COC	non-COC	non-COC	non-COC	1.5E+00	non-COC	non-COC	non-COC	non-COC	non-COC	5.6E-01	non-COC	non-COC	non-COC	non-COC	non-COC	9.7E-01
4,4'-DDE	non-COC	non-COC	1.7E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Aroclor-1260	1.0E-04	2.1E-04	4.2E-04	non-COC	non-COC	non-COC	non-COC	2.4E-05	7.3E-05	non-COC	non-COC	non-COC	3.5E-05	6.9E-05	1.4E-04	non-COC	non-COC	non-COC	non-COC	1.6E-05	4.9E-05	non-COC	non-COC	non-COC
Dieldrin	3.9E-05	7.8E-05	1.6E-04	non-COC	2.3E-01	4.5E-01	non-COC	non-COC	2.7E-05	non-COC	non-COC	4.0E-01	1.3E-05	2.6E-05	5.2E-05	non-COC	non-COC	1.5E-01	non-COC	non-COC	1.8E-05	non-COC	non-COC	2.6E-01
Heptachlorepoxide	1.5E-05	3.0E-05	6.1E-05	non-COC	6.0E-01	1.2E+00	non-COC	non-COC	1.1E-05	non-COC	non-COC	1.0E+00	non-COC	1.0E-05	2.0E-05	non-COC	non-COC	4.0E-01	non-COC	non-COC	non-COC	non-COC	non-COC	7.0E-01
Benzo(a)pyrene	1.5E-05	2.9E-05	5.8E-05	non-COC	non-COC	non-COC	non-COC	non-COC	1.0E-05	non-COC	non-COC	non-COC	non-COC	non-COC	1.9E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Benzo(b)fluoranthene	non-COC	1.4E-05	2.9E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Dibenzo(a,h)anthracene	1.3E-05	2.5E-05	5.1E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	1.7E-05	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
TOTAL	**2.0E-03**	**4.0E-03**	**8.0E-03**	**1.1E+01**	**2.8E+01**	**5.7E+01**	**1.3E-04**	**4.5E-04**	**1.4E-03**	**4.4E+00**	**1.3E+01**	**4.9E+01**	**6.5E-04**	**1.3E-03**	**2.7E-03**	**3.8E+00**	**7.6E+00**	**1.7E+01**	**8.9E-05**	**3.0E-04**	**9.1E-04**	**2.0E+00**	**8.8E+00**	**3.3E+01**

Total Overall Human Development HI =	3.6E+00	7.2E+00	1.4E+01	1.4E+00	4.2E+00	1.3E+01	1.2E+00	2.4E+00	4.8E+00		2.8E+00	8.4E+00
Total Central Nervous System HI =		1.1E+00	2.2E+00			2.0E+00						1.3E+00
Total Skin/Vascular HI =	7.7E+00	1.5E+01	3.1E+01	3.0E+00	9.0E+00	2.7E+01	2.6E+00	5.2E+00	1.0E+01	2.0E+00	6.0E+00	1.8E+01
Total Kidney HI =		1.1E+00	2.1E+00			1.8E+00						1.2E+00
Total Gastrointestinal Tract HI =		1.8E+00	3.5E+00			3.1E+00			1.2E+00			2.1E+00
Total Liver HI =		1.7E+00	3.3E+00			2.9E+00			1.1E+00			1.9E+00

Notes:

1. Contaminant of Concern (COC) is defined as having an individual cancer risk greater than 10^{-5} or an individual hazard quotient of 0.1 when the total cancer risk for the receptor exceeds 10-4 or an HI of 1.
2. Actual risks are slightly higher because they include risks from non-COCs.
3. Cobalt, vanadium, zinc, alpha-, beta-, and delta-BHC, heptachlor, and indeno(1,2,3-cd)pyrene were evaluated in Table 9.4.RME but are not identified in this table as COCs. Results from Table 9.4.RME.

Table 10.5.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Shellfish Tissue
Exposure Point: Oyster meat from oysters adjacent to the AWI site
Exposure Route: Ingestion

	Subsistence Fisher						Recreational Fisher					
	Adult Cancer			Adult Noncancer			Adult Cancer			Adult Noncancer		
Contaminant of Concern	6 oysters/ meal	24 oysters/ meal	72 oysters/ meal	6 oysters/ meal	24 oysters/ meal	72 oysters/ meal	6 oysters/ meal	24 oysters/ meal	72 oysters/ meal	6 oysters/ meal	24 oysters/ meal	72 oysters/ meal
Dioxin TEQ(1998WHO)	3.1E-05	1.2E-04	3.7E-04	non-COC	1.9E+00	5.7E+00	1.5E-05	6.1E-05	1.8E-04	non-COC	non-COC	2.9E+00
Mercury	non-COC	non-COC	non-COC	non-COC	non-COC	1.3E+00	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Arsenic	1.9E-04	7.5E-04	2.2E-03	non-COC	3.9E+00	1.2E+01	9.3E-05	3.7E-04	1.1E-03	non-COC	1.9E+00	5.8E+00
Barium	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC	non-COC
Cadmium	4.7E-05	1.9E-04	5.6E-04	non-COC	1.1E+00	3.4E+00	2.3E-05	9.3E-05	2.8E-04	non-COC	non-COC	1.7E+00
Copper	non-COC	non-COC	non-COC	non-COC	3.2E+00	9.5E+00	non-COC	non-COC	non-COC	non-COC	1.6E+00	4.7E+00
Iron	non-COC	non-COC	non-COC	non-COC	1.1E-01	3.2E-01	non-COC	non-COC	non-COC	non-COC	non-COC	1.6E-01
Zinc	non-COC	non-COC	non-COC	1.5E+00	5.9E+00	1.8E+01	non-COC	non-COC	non-COC	non-COC	3.0E+00	8.9E+00
Aldrin	non-COC	non-COC	2.3E-05	non-COC	non-COC	non-COC	non-COC	non-COC	1.1E-05	non-COC	non-COC	non-COC
TOTAL	**2.6E-04**	**1.1E-03**	**3.2E-03**	**1.5E+00**	**1.6E+01**	**5.0E+01**	**1.3E-04**	**5.3E-04**	**1.6E-03**	non-COC	**6.5E+00**	**2.4E+01**

Total Overall Human Development HI =		1.9E+00	5.7E+00			2.9E+00
Total Central Nervous System HI =			1.3E+00			
Total Skin/Vascular HI =		3.9E+00	1.2E+01		1.9E+00	5.8E+00
Total Kidney HI =		1.1E+00	3.4E+00			1.7E+00
Total Gastrointestinal Tract HI =		3.3E+00	9.8E+00		1.6E+00	4.9E+00
Total Liver HI =						
Total Blood HI =	1.5E+00	6.0E+00	1.8E+01		3.0E+00	9.1E+00

Notes:
1. Contaminant of Concern (COC) is defined as having an individual cancer risk greater than 10^{-5} or an individual hazard quotient of 0.1 when the total cancer risk for the receptor exceeds 10-4 or an HI of 1.
2. Actual risks are slightly higher because they include risks from non-COCs.
3. Cobalt and barium were evaluated in Table 9.5.RME but are not identified in this table as COCs.

Results from Table 9.5.RME.

TABLE 10.6.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Receptor Population: Trespasser
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Shallow Sediment in the vicinity of the AWI site	Total Dioxin TEQ (WHO 1998)	5.4E-05		2.9E-05		8.3E-05	Development	8.4.E-01		4.5E-01	1.3E+00
			4,6-dinitro-2-methylphenol						NA				
			benzo(a)anthracene	3.2E-05		7.6E-05		1.1E-04	NA				
			benzo(a)pyrene	1.9E-04		4.4E-04		6.2E-04	NA				
			benzo(b)fluoranthene	1.9E-05		4.4E-05		6.2E-05	NA				
			benzo(k)fluoranthene	1.3E-06		3.0E-06		4.3E-06	NA				
			chrysene	3.4E-07		8.0E-07		1.1E-06	NA				
			dibenz(a,h)anthracene	3.1E-05		7.3E-05		1.0E-04	NA				
			indeno(1,2,3-c,d)pyrene	7.3E-06		1.7E-05		2.5E-05	NA				
			aluminum						CNS				
			arsenic	5.3E-06		2.9E-06		8.2E-06	Skin/Vascular				
			cobalt						NA				
			iron						GI Tract/Blood/Liver				
			Chemical Total	3.4E-04		6.8E-04		1.0E-03					1.3E+00
		Exposure Point Total						1.0E-03					1.3E+00
	Exposure Medium Total							1.0E-03					1.3E+00
Medium Total								1.0E-03					1.3E+00
Receptor Total							Receptor Risk Total	1.0E-03				Receptor HI Total	1.3E+00

NA = Not Available

Results from Table 9.6.RME.

This table represents risk drivers for a receptor total exceeding a hazard index of one and the target risk level of 10E-04.

Total Development HI = 1.3E+00

TABLE 10.7.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Receptor Population: Trespasser
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Shallow Sediment in the vicinity of the AWI site	Total Dioxin TEQ (WHO 1998)	1.3E-04		1.1E-03		1.3E-03	Development	1.0.E+01		8.8E+01	9.8E+01
			4,6-dinitro-2-methylphenol										
			benzo(a)anthracene	7.8E-05		2.9E-03		3.0E-03					
			benzo(a)pyrene	4.5E-04		1.7E-02		1.7E-02					
			benzo(b)fluoranthene	4.5E-05		1.7E-03		1.7E-03					
			benzo(k)fluoranthene	3.1E-06		1.2E-04		1.2E-04					
			chrysene	8.3E-07		3.1E-05		3.2E-05					
			dibenz(a,h)anthracene	7.6E-05		2.9E-03		2.9E-03					
			indeno(1,2,3-c,d)pyrene	1.8E-05		6.7E-04		6.9E-04					
			aluminum						CNS	1.1.E-01		3.1E-01	4.1E-01
			arsenic	1.3E-05		1.1E-04		1.2E-04	Skin/Vascular	3.4.E-01		2.9E+00	3.2E+00
			cobalt										
			iron						GI Tract/Blood/Liver	2.1.E-01		5.9E-01	8.0E-01
			Chemical Total	8.2E-04		2.6E-02		2.7E-02		1.1E+01		9.2E+01	1.0E+02
		Exposure Point Total						2.7E-02					1.0E+02
	Exposure Medium Total							2.7E-02					1.0E+02
Medium Total								2.7E-02					1.0E+02
Receptor Total							Receptor Risk Total	2.7E-02				Receptor HI Total	1.0E+02

NA = Not Available

Results from Table 9.7.RME.

This table represents risk drivers for a receptor total exceeding a hazard index of one and the target risk level of 10E-04.

Total Development HI =	9.8E+01
Total CNS HI =	4.1E-01
Total Skin/Vascular HI =	3.2E+00
Total GI Tract/Blood/Liver HI =	8.0E-01

TABLE 10.8.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future

Receptor Population: Other Recreation Person (Swimmer, Boater, Crabber)

Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Shallow Sediment in the vicinity of the AWI site	Total Dioxin TEQ (WHO 1998)	2.2E-05		3.7E-05		5.8E-05	Development				
			4,6-dinitro-2-methylphenol	NA		NA		NA	NA				
			benzo(a)anthracene	1.3E-05		9.6E-05		1.1E-04	NA				
			benzo(a)pyrene	7.4E-05		5.5E-04		6.2E-04	NA				
			benzo(b)fluoranthene	7.4E-06		5.5E-05		6.2E-05	NA				
			benzo(k)fluoranthene	5.1E-07		3.8E-06		4.3E-06	NA				
			chrysene	1.4E-07		1.0E-06		1.2E-06	NA				
			dibenz(a,h)anthracene	1.3E-05		9.3E-05		1.1E-04	NA				
			indeno(1,2,3-c,d)pyrene	2.9E-06		2.2E-05		2.5E-05	NA				
			aluminum	NA		NA		NA	CNS				
			arsenic	2.1E-06		3.6E-06		5.8E-06	Skin/Vascular				
			cobalt	NA		NA		NA	NA				
			iron	NA		NA		NA	GI Tract/Blood/Liver				
			Chemical Total	1.3E-04		8.6E-04		1.0E-03					
		Exposure Point Total						1.0E-03					
	Exposure Medium Total							1.0E-03					
Medium Total								1.0E-03					
Receptor Total							Receptor Risk Total	1.0E-03				Receptor HI Total	

NA = Not Available

Results from Table 9.8.RME.

This table represents risk drivers for a receptor total exceeding the target risk level of 10E-04.

TABLE 10.9.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Receptor Population: Other Recreation Person (Swimmer, Boater, Crabber)
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Shallow Sediment in the vicinity of the AWI site	Total Dioxin TEQ (WHO 1998)	6.0E-05		1.2E-03		1.3E-03	Development	4.7.E+00		9.6E+01	1.0E+02
			4,6-dinitro-2-methylphenol										
			benzo(a)anthracene	3.6E-05		3.2E-03		3.2E-03					
			benzo(a)pyrene	2.1E-04		1.8E-02		1.9E-02					
			benzo(b)fluoranthene	2.1E-05		1.8E-03		1.9E-03					
			benzo(k)fluoranthene	1.4E-06		1.3E-04		1.3E-04					
			chrysene	3.8E-07		3.4E-05		3.4E-05					
			dibenz(a,h)anthracene	3.5E-05		3.1E-03		3.1E-03					
			indeno(1,2,3-c,d)pyrene	8.2E-06		7.3E-04		7.4E-04					
			aluminum						CNS	4.9.E-02		3.3E-01	3.8E-01
			arsenic	6.0E-06		1.2E-04		1.3E-04	Skin/Vascular	1.5.E-01		3.2E+00	3.3E+00
			cobalt										
			iron						GI Tract/Blood/Liver	9.5.E-02		6.5E-01	7.4E-01
			Chemical Total	3.8E-04		2.9E-02		2.9E-02		5.0E+00		1.0E+02	1.0E+02
		Exposure Point Total						2.9E-02					1.0E+02
	Exposure Medium Total							2.9E-02					1.0E+02
Medium Total								2.9E-02					1.0E+02
Receptor Total							Receptor Risk Total	2.9E-02				Receptor HI Total	1.0E+02

NA = Not Available

Results from Table 9.9.RME.

This table represents risk drivers for a receptor total exceeding a hazard index of one and the target risk level of 10E-04.

Total Development HI =	1.0E+02
Total CNS HI =	3.8E-01
Total Skin/Vascular HI =	3.3E+00
Total GI Tract/Blood/Liver HI =	7.4E-01

TABLE 10.10.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
Atlantic Wood Industries - OU3

Scenario Timeframe: Current/Future
Receptor Population: Worker (i.e. dredge or other heavy equipment operator, spotter, barge worker)
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Sediment in the vicinity of the AWI site	Total Dioxin TEQ (EPA 89)						Development				
			2-methylnaphthalene						Respiratory System				
			4,6-dinitro-2-methylphenol						NA				
			benzo(a)anthracene						NA				
			benzo(a)pyrene						NA				
			benzo(b)fluoranthene						NA				
			benzo(k)fluoranthene						NA				
			chrysene						NA				
			di-n-octylphthalate						NA				
			dibenz(a,h)anthracene						NA				
			dibenzofuran						NA				
			indeno(1,2,3-c,d)pyrene						NA				
			aluminum						CNS				
			antimony						Longevity/Blood				
			arsenic						Skin/Vascular				
			cobalt						NA				
			iron						GI Tract/Blood/Liver				
			thallium						Liver				
			vanadium						NOAEL				
			Chemical Total										
		Exposure Point Total											
	Exposure Medium Total												
Medium Total													
Receptor Total								Receptor Risk Total					Receptor HI Total

NA = Not Available
Results from Table 9.10.RME.
There are no risk drivers.