# APPENDIX G

# Crab/Oyster Risk Characterization at Various Arsenic Levels

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**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| AWI Crab Meat TOTAL RISK | 1.5E-06 | 7 | 4.9E-07 | 20 | 3.5E-07 | 28 | 2.1E-07 | 47 | 1.5E-07 | 69 | 9.0E-08 | 111 | 1.4E-06 | 7 | 4.6E-07 | 22 | 3.3E-07 | 30 | 2.0E-07 | 50 | 1.4E-07 | 74 | 8.4E-08 | 119 |
| SC Crab Meat TOTAL RISK | 8.4E-07 | 12 | 2.7E-07 | 38 | 1.8E-07 | 55 | 1.0E-07 | 100 | 5.9E-08 | 170 | 2.6E-08 | 387 | 7.9E-07 | 13 | 2.5E-07 | 40 | 1.7E-07 | 59 | 9.3E-08 | 107 | 5.5E-08 | 182 | 2.4E-08 | 415 |
| York Crab Meat TOTAL RISK | 5.6E-07 | 18 | 2.0E-07 | 51 | 1.4E-07 | 70 | 9.0E-08 | 111 | 6.4E-08 | 156 | 4.3E-08 | 233 | 5.3E-07 | 19 | 1.8E-07 | 55 | 1.3E-07 | 75 | 8.4E-08 | 119 | 6.0E-08 | 167 | 4.0E-08 | 249 |
| AWI Whole Crab TOTAL RISK | 3.5E-06 | 3 | 1.8E-06 | 5 | 1.6E-06 | 6 | 1.3E-06 | 7 | 1.2E-06 | 8 | 1.1E-06 | 9 | 3.2E-06 | 3 | 1.7E-06 | 6 | 1.5E-06 | 7 | 1.3E-06 | 8 | 1.1E-06 | 9 | 1.1E-06 | 9 |
| SC Whole Crab TOTAL RISK | 2.2E-06 | 5 | 1.0E-06 | 10 | 8.8E-07 | 11 | 7.2E-07 | 14 | 6.4E-07 | 16 | 5.7E-07 | 17 | 2.0E-06 | 5 | 9.7E-07 | 10 | 8.2E-07 | 12 | 6.7E-07 | 15 | 6.0E-07 | 17 | 5.4E-07 | 19 |
| York Whole Crab TOTAL RISK | 1.6E-06 | 6 | 8.0E-07 | 13 | 6.8E-07 | 15 | 5.5E-07 | 18 | 4.9E-07 | 20 | 4.5E-07 | 22 | 1.5E-06 | 6 | 7.4E-07 | 13 | 6.3E-07 | 16 | 5.2E-07 | 19 | 4.6E-07 | 22 | 4.2E-07 | 24 |
| AWI Oyster TOTAL RISK | 2.1E-06 | 5 | 1.9E-06 | 5 | 1.9E-06 | 5 | 1.8E-06 | 5 | 1.8E-06 | 6 | 1.8E-06 | 6 | NA | | NA | | NA | | NA | | NA | | NA | |
| Ref Oyster TOTAL RISK | 4.5E-07 | 22 | 1.8E-07 | 57 | 1.4E-07 | 73 | 9.8E-08 | 102 | 7.9E-08 | 127 | 6.3E-08 | 158 | NA | | NA | | NA | | NA | | NA | | NA | |

Risks are for both subsistence and recreational fishers ingesting one crab or oyster per year.

**AWI Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 6.9E-09 | 1.1E-04 | 6.4E-09 | 5.0E-04 |
| Mercury | NA | 4.6E-04 | NA | 2.2E-03 |
| Arsenic | 1.4E-06 | 7.2E-03 | 1.3E-06 | 3.3E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 2.4E-04 | NA | 1.1E-03 |
| Selenium | NA | 1.1E-04 | NA | 5.3E-04 |
| Thallium | NA | 3.1E-04 | NA | 1.4E-03 |
| 4,4'-DDE | 9.2E-10 | NA | 8.6E-10 | NA |
| Aroclor-1260 | 3.2E-08 | NA | 2.9E-08 | NA |
| Dieldrin | 4.1E-09 | 1.2E-05 | 3.9E-09 | 5.6E-05 |
| Heptachlorepoxide | 1.4E-09 | 2.8E-05 | 1.3E-09 | 1.3E-04 |
| Benzo(a)anthracene | 2.4E-09 | NA | 2.2E-09 | NA |
| Benzo(a)pyrene | 1.9E-08 | NA | 1.8E-08 | NA |
| Benzo(b)fluoranthene | 4.0E-09 | NA | 3.7E-09 | NA |
| Dibenzo(a,h)anthracene | 4.7E-09 | NA | 4.4E-09 | NA |
| Indeno(1,2,3-cd)pyrene | 9.2E-10 | NA | 8.6E-10 | NA |
| **TOTAL** | **1.5E-06** | **8.4E-03** | **1.4E-06** | **3.9E-02** |

| | | | | | Yearly crab consumption by a child for HQ = 1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
| **Total Skin/Vascular HI = (As)** | 7.2E-03 | 140 | 3.3E-02 | | 30 | 100 | 149 | 299 | 598 | 2,990 |
| **Total Gastrointestinal Tract HI = (Cu)** | 2.4E-04 | 4,215 | 1.1E-03 | | 903 | | | | | |
| **Total Liver HI = Th+Dieldrin+Heptachl** | 3.5E-04 | 2,856 | 1.6E-03 | | 612 | | | | | |
| **Total CNS HI = Hg+Se** | 5.8E-04 | 1,737 | 2.7E-03 | | 372 | | | | | |
| **Total Overall Human Develop HI = Dixoin** | 1.1E-04 | 9,314 | 5.0E-04 | | 1,996 | | | | | |

Yearly crab consumption by an adult for HQ = 1; As = 100%

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

**Scuffletown Creek Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 1.1E-09 | 1.7E-05 | 1.0E-09 | 8.1E-05 |
| Mercury | NA | 3.2E-04 | NA | 1.5E-03 |
| Arsenic | 8.3E-07 | 4.3E-03 | 7.7E-07 | 2.0E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 2.1E-04 | NA | 1.0E-03 |
| Selenium | NA | 8.7E-05 | NA | 4.1E-04 |
| Aroclor-1260 | 9.8E-09 | NA | 9.2E-09 | NA |
| Benzo(a)pyrene | 5.6E-09 | NA | 5.2E-09 | NA |
| Benzo(b)fluoranthene | 1.0E-09 | NA | 9.8E-10 | NA |
| **TOTAL** | **8.4E-07** | **4.9E-03** | **7.9E-07** | **2.3E-02** |

Yearly crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Skin/Vascular HI = As** | 4.3E-03 | 234 | 2.0E-02 | 50 | 167 | 250 | 501 | 1,002 | 5,008 |
| **Total Gastrointestinal Tract HI = (Cu)** | 2.1E-04 | 4,671 | 1.0E-03 | 1,001 | | | | | |
| **Total CNS HI = Hg+Se** | 4.1E-04 | 2,431 | 1.9E-03 | 521 | | | | | |
| **Total Overall Human Develop HI = Dixoin** | 1.7E-05 | 57,909 | 8.1E-05 | 12,409 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly crab consumption by an adult for HQ = 1; As = 100%

**York River Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ(1998 WHO) | 2.4E-08 | 3.7E-04 | 2.2E-08 | 1.7E-03 |
| Arsenic | 5.3E-07 | 2.7E-03 | 4.9E-07 | 1.3E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 1.6E-04 | NA | 7.7E-04 |
| Thallium | NA | 1.2E-04 | NA | 5.5E-04 |
| Aroclor-1260 | 1.4E-08 | NA | 1.3E-08 | NA |
| **TOTAL** | **5.6E-07** | **3.4E-03** | **5.3E-07** | **1.6E-02** |

Yearly crab consumption by a child for HQ = 1

| | | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | | 3.7E-04 | 2707 | 1.7E-03 | 580 | | | | | |
| **Total Skin/Vascular HI = As** | | 2.7E-03 | 366 | 1.3E-02 | 78 | 262 | 392 | 785 | 1,570 | 7,850 |
| **Total Gastrointestinal Tract HI = (Cu)** | | 1.6E-04 | 6070 | 7.7E-04 | 1,301 | | | | | |
| **Total Liver HI = Th+Dieldrin+Heptachl** | | 1.2E-04 | 8513 | 5.5E-04 | 1,824 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly crab consumption by an adult for HQ = 1; As = 100%

**AWI Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 6.0E-07 | 9.3E-03 | 5.6E-07 | 4.3E-02 |
| Mercury | NA | 5.6E-04 | NA | 2.6E-03 |
| Arsenic | 2.4E-06 | 1.2E-02 | 2.2E-06 | 5.7E-02 |
| Cadmium | 9.4E-08 | 5.7E-04 | 8.7E-08 | 2.7E-03 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 1.2E-03 | NA | 5.4E-03 |
| Selenium | NA | 2.6E-04 | NA | 1.2E-03 |
| Thallium | NA | 1.5E-03 | NA | 7.1E-03 |
| Vanadium | NA | 2.2E-04 | NA | 1.0E-03 |
| Zinc | NA | 1.6E-04 | NA | 7.4E-04 |
| 4,4'-DDE | 3.9E-09 | NA | 3.7E-09 | NA |
| 4-4'-DDT | 3.4E-09 | 4.6E-05 | 3.2E-09 | 2.2E-04 |
| Aroclor-1260 | 2.4E-07 | NA | 2.3E-07 | NA |
| alpha-BHC | 1.4E-09 | 6.3E-08 | 1.3E-09 | 3.0E-07 |
| beta-BHC | 1.5E-09 | NA | 1.4E-09 | NA |
| Dieldrin | 5.6E-08 | 1.6E-04 | 5.2E-08 | 7.6E-04 |
| delta-BHC | NA | NA | NA | NA |
| Heptachlor | 1.7E-09 | 1.7E-06 | 1.6E-09 | 8.1E-06 |
| Heptachlorepoxide | 1.9E-08 | 3.8E-04 | 1.8E-08 | 1.8E-03 |
| Benzo(a)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Benzo(a)pyrene | 5.2E-08 | NA | 4.9E-08 | NA |
| Benzo(b)fluoranthene | 1.2E-08 | NA | 1.1E-08 | NA |
| Dibenzo(a,h)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 2.2E-09 | NA | 2.0E-09 | NA |
| **TOTAL** | **3.5E-06** | **2.7E-02** | **3.2E-06** | **1.2E-01** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 9.3E-03 | 107 | 4.3E-02 | 23 | | | | | |
| **Total CNS HI = Hg+Se** | 8.1E-04 | 1,232 | 3.8E-03 | 264 | | | | | |
| **Total Skin/Vascular HI = As** | 1.2E-02 | 82 | 5.7E-02 | 18 | 58 | 88 | 175 | 350 | 1,751 |
| **Total Kidney HI = Cd** | 5.7E-04 | 1,741 | 2.7E-03 | 373 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 1.2E-03 | 858 | 5.4E-03 | 184 | | | | | |
| **Total Liver HI = Th+DDT+aBHC+Diel+Heptac+Heptachepox** | 2.1E-03 | 472 | 9.9E-03 | 101 | | | | | |
| **Total NOAEL HI = V** | 2.2E-04 | 4,445 | 1.0E-03 | 952 | | | | | |
| **Total Blood HI = Zn** | 1.6E-04 | 6,346 | 7.4E-04 | 1,360 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

**Scuffletown Creek Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 2.5E-07 | 3.8E-03 | 2.3E-07 | 1.8E-02 |
| Mercury | NA | 3.9E-04 | NA | 1.8E-03 |
| Arsenic | 1.6E-06 | 8.3E-03 | 1.5E-06 | 3.9E-02 |
| Cadmium | 9.1E-08 | 5.6E-04 | 8.5E-08 | 2.6E-03 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 9.5E-04 | NA | 4.4E-03 |
| Selenium | NA | 2.0E-04 | NA | 9.5E-04 |
| Thallium | NA | 4.5E-04 | NA | 2.1E-03 |
| Vanadium | NA | 2.3E-04 | NA | 1.1E-03 |
| Zinc | NA | 1.8E-04 | NA | 8.2E-04 |
| 4,4'-DDE | 4.6E-09 | NA | 4.3E-09 | NA |
| Aroclor-1260 | 1.1E-07 | NA | 1.0E-07 | NA |
| alpha-BHC | 2.0E-09 | 9.1E-08 | 1.8E-09 | 4.2E-07 |
| beta-BHC | 1.3E-09 | NA | 1.2E-09 | NA |
| Dieldrin | 4.2E-08 | 1.2E-04 | 3.9E-08 | 5.7E-04 |
| delta-BHC | NA | NA | NA | NA |
| Heptachlor | 2.1E-09 | 2.1E-06 | 1.9E-09 | 1.0E-05 |
| Heptachlorepoxide | 1.6E-08 | 3.2E-04 | 1.5E-08 | 1.5E-03 |
| Benzo(a)pyrene | 1.6E-08 | NA | 1.5E-08 | NA |
| Benzo(b)fluoranthene | 7.6E-09 | NA | 7.1E-09 | NA |
| Dibenzo(a,h)anthracene | 1.4E-08 | NA | 1.3E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 1.9E-09 | NA | 1.7E-09 | NA |
| Pentachlorophenol | 3.4E-09 | 2.2E-06 | 3.2E-09 | 1.0E-05 |
| **TOTAL** | **2.2E-06** | **1.6E-02** | **2.0E-06** | **7.2E-02** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 3.8E-03 | 261 | 1.8E-02 | 56 | 187 | 280 | 560 | 1,119 | 5,597 |
| **Total CNS HI = Hg+Se** | 6.0E-04 | 1675 | 2.8E-03 | 359 | | | | | |
| **Total Skin/Vascular HI = As** | 8.3E-03 | 121 | 3.9E-02 | 26 | 86 | 130 | 259 | 518 | 2,591 |
| **Total Kidney HI = Cd+PCP** | 5.6E-04 | 1773 | 2.6E-03 | 380 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 9.5E-04 | 1057 | 4.4E-03 | 226 | | | | | |
| **Total Liver HI = Th+aBHC+Diel+Heptach+Heptacepox+PCP** | 8.9E-04 | 1122 | 4.2E-03 | 241 | | | | | |
| **Total NOAEL HI = V** | 2.3E-04 | 4301 | 1.1E-03 | 922 | | | | | |
| **Total Blood HI = Zn** | 1.8E-04 | 5696 | 8.2E-04 | 1,220 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

**Reference Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ(1998 WHO) | 9.3E-08 | 1.4E-03 | 8.7E-08 | 6.8E-03 |
| Arsenic | 1.2E-06 | 6.3E-03 | 1.1E-06 | 2.9E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 4.5E-04 | NA | 2.1E-03 |
| Selenium | NA | 1.7E-04 | NA | 7.8E-04 |
| Thallium | NA | 3.5E-04 | NA | 1.6E-03 |
| vandium | NA | 2.3E-04 | NA | 1.1E-03 |
| Zinc | NA | 1.9E-04 | NA | 8.9E-04 |
| 4,4'-DDE | 2.5E-09 | NA | 2.4E-09 | NA |
| Aroclor-1260 | 3.1E-07 | NA | 2.9E-07 | NA |
| beta-BHC | 1.6E-09 | NA | 1.5E-09 | NA |
| Dieldrin | 1.1E-08 | 3.3E-05 | 1.0E-08 | 1.5E-04 |
| Heptachlorepoxide | 5.9E-09 | 1.2E-04 | 5.5E-09 | 5.4E-04 |
| Benzo(a)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 4.0E-10 | NA | 3.7E-10 | NA |
| **TOTAL** | **1.6E-06** | **9.3E-03** | **1.5E-06** | **4.3E-02** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 1.4E-03 | 690 | 6.8E-03 | 148 | | | | | |
| **Total CNS HI = Se** | 1.7E-04 | 5981 | 7.8E-04 | 1,282 | | | | | |
| **Total Skin/Vascular HI = As** | 6.3E-03 | 159 | 2.9E-02 | 34 | 113 | 170 | 340 | 680 | 3,400 |
| **Total Gastrointestinal Tract HI = (Cu)** | 4.5E-04 | 2217 | 2.1E-03 | 475 | | | | | |
| **Total Liver HI = Th+Diel+Heptacepox** | 5.0E-04 | 2010 | 2.3E-03 | 431 | | | | | |
| **Total NOAEL HI = V** | 2.3E-04 | 4393 | 1.1E-03 | 941 | | | | | |
| **Total Blood HI = Zn** | 1.9E-04 | 5229 | 8.9E-04 | 1,120 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

**Oyster Risk Summary - Ingestion of One Oyster Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer |
|---|---|---|
| Dioxin TEQ(1989) | 1.8E-07 | 2.7E-03 |
| Mercury | NA | 1.3E-04 |
| Arsenic | 2.6E-07 | 1.4E-03 |
| Barium | NA | 7.7E-07 |
| Cadmium | 6.3E-08 | 3.9E-04 |
| Cobalt | NA | NA |
| Copper | NA | 1.1E-03 |
| Iron | NA | 5.3E-05 |
| Selenium | NA | 4.2E-05 |
| Thallium | NA | 4.7E-04 |
| Vanadium | NA | 6.6E-05 |
| Zinc | NA | 2.0E-03 |
| Aldrin | 2.6E-09 | 1.2E-05 |
| alpha-BHC | 3.0E-09 | 1.4E-07 |
| beta-BHC | 1.1E-09 | NA |
| Dieldrin | 2.8E-09 | 8.1E-06 |
| Heptachlor | 5.5E-09 | 5.7E-06 |
| Heptachlorepoxide | 1.9E-09 | 3.8E-05 |
| Benzo(a)anthracene | 8.4E-08 | NA |
| Benzo(a)pyrene | 1.1E-06 | NA |
| Benzo(b)fluoranthene | 2.2E-07 | NA |
| Benzo(k)fluoranthene | 1.4E-08 | NA |
| Chrysene | 1.2E-09 | NA |
| Dibenzo(a,h)anthracene | 1.0E-07 | NA |
| Indeno(1,2,3-cd)pyrene | 2.1E-08 | NA |
| **TOTAL** | **2.1E-06** | **8.4E-03** |

Yearly oyster consumption by an adult for HQ = 1

| | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 2.7E-03 | 364 | | | | | |
| **Total CNS HI = Hg+Se** | 1.7E-04 | 5,735 | | | | | |
| **Total Skin/Vascular HI = As** | 1.4E-03 | 739 | 2,463 | 3,695 | 7,390 | 14,780 | 73,900 |
| **Total Kidney HI = Ba+Cd** | 3.9E-04 | 2,592 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 1.1E-03 | 898 | | | | | |
| **Total Liver HI = Fe+Th+Aldrin+aBHC+Diel+Heptac+Heptachepox** | 5.8E-04 | 1,710 | | | | | |
| **Total NOAEL HI = V** | 6.6E-05 | 15,107 | | | | | |
| **Total Blood HI = Fe+Zn** | 2.0E-03 | 488 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one oyster per year.

**York N & Caged Oyster Risk Summary - Ingestion of One Oyster Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer |
|---|---|---|
| Dioxin TEQ (1998) | 1.0E-08 | 1.6E-04 |
| Mercury | NA | 1.5E-04 |
| Aluminum | NA | 2.2E-05 |
| Arsenic | 3.9E-07 | 2.0E-03 |
| Barium | NA | 7.1E-07 |
| Cadmium | 2.9E-08 | 1.8E-04 |
| Cobalt | NA | NA |
| Copper | NA | 2.9E-04 |
| Iron | NA | 4.9E-05 |
| Vanadium | NA | 6.5E-05 |
| Zinc | NA | 6.4E-04 |
| Arochlor-1260 | 1.2E-08 | NA |
| alpha-BHC | 1.0E-09 | 4.8E-08 |
| Heptachlor | 4.0E-09 | 4.2E-06 |
| Heptachlorepoxide | 1.6E-09 | 3.2E-05 |
| Benzo(a)anthracene | 6.9E-10 | NA |
| Benzo(a)pyrene | 4.0E-09 | NA |
| Benzo(b)fluoranthene | 5.9E-10 | NA |
| **TOTAL** | **4.5E-07** | **3.6E-03** |

Yearly oyster consumption by an adult for HQ = 1

| | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 1.6E-04 | 6,230 | | | | | |
| **Total CNS HI = Hg+Al** | 1.7E-04 | 5,902 | | | | | |
| **Total Skin/Vascular HI = As** | 2.0E-03 | 494 | 1,647 | 2,471 | 4,942 | 9,884 | 49,419 |
| **Total Kidney HI = Ba+Cd** | 1.8E-04 | 5,531 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 3.4E-04 | 2,911 | | | | | |
| **Total Liver HI = Fe+aBHC+Heptac+Heptacepox** | 8.5E-05 | 11,775 | | | | | |
| **Total NOAEL HI = V** | 6.5E-05 | 15,373 | | | | | |
| **Total Blood HI = Fe+Zn** | 6.9E-04 | 1,445 | | | | | |
| **Total Heart HI = Ba** | 7.1E-07 | 1,409,459 | | | | | |

NA = Not Available

Reference oysters are cages and natural oysters

Risks are for both subsistence and recreational fishers ingesting one oyster per year.

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Total Dioxin TEQ | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 1.4E-06 | | 4.1E-07 | | 2.8E-07 | | 1.4E-07 | | 6.9E-08 | | 1.4E-08 | | 1.3E-06 | | 3.9E-07 | | 2.6E-07 | | 1.3E-07 | | 6.5E-08 | | 1.3E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | |
| Aroclor-1260 | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | |
| Dieldrin | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | |
| Heptachlorepoxide | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | |
| Benzo(a)anthracene | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | |
| Benzo(a)pyrene | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | |
| Benzo(b)fluoranthene | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | |
| Dibenzo(a,h)anthracene | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | |
| Indeno(1,2,3-cd)pyrene | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | |
| **AWI Crab Meat TOTAL RISK** | **1.5E-06** | 7 | **4.9E-07** | 20 | **3.5E-07** | 28 | **2.1E-07** | 47 | **1.5E-07** | 69 | **9.0E-08** | 111 | **1.4E-06** | 7 | **4.6E-07** | 22 | **3.3E-07** | 30 | **2.0E-07** | 50 | **1.4E-07** | 74 | **8.4E-08** | 119 |
| Total Dioxin TEQ | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 8.3E-07 | | 2.5E-07 | | 1.7E-07 | | 8.3E-08 | | 4.1E-08 | | 8.3E-09 | | 7.7E-07 | | 2.3E-07 | | 1.5E-07 | | 7.7E-08 | | 3.9E-08 | | 7.7E-09 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Aroclor-1260 | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | |
| Benzo(a)pyrene | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | |
| Benzo(b)fluoranthene | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | |
| **SC Crab Meat TOTAL RISK** | **8.4E-07** | 12 | **2.7E-07** | 38 | **1.8E-07** | 55 | **1.0E-07** | 100 | **5.9E-08** | 170 | **2.6E-08** | 387 | **7.9E-07** | 13 | **2.5E-07** | 40 | **1.7E-07** | 59 | **9.3E-08** | 107 | **5.5E-08** | 182 | **2.4E-08** | 415 |
| Total Dioxin TEQ(1998 WHO) | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | |
| Arsenic | 5.3E-07 | | 1.6E-07 | | 1.1E-07 | | 5.3E-08 | | 2.6E-08 | | 5.3E-09 | | 4.9E-07 | | 1.5E-07 | | 9.8E-08 | | 4.9E-08 | | 2.5E-08 | | 4.9E-09 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Aroclor-1260 | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | |
| **York Crab Meat TOTAL RISK** | **5.6E-07** | 18 | **2.0E-07** | 51 | **1.4E-07** | 70 | **9.0E-08** | 111 | **6.4E-08** | 156 | **4.3E-08** | 233 | **5.3E-07** | 19 | **1.8E-07** | 55 | **1.3E-07** | 75 | **8.4E-08** | 119 | **6.0E-08** | 167 | **4.0E-08** | 249 |
| Total Dioxin TEQ | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 2.4E-06 | | 7.1E-07 | | 4.7E-07 | | 2.4E-07 | | 1.2E-07 | | 2.4E-08 | | 2.2E-06 | | 6.6E-07 | | 4.4E-07 | | 2.2E-07 | | 1.1E-07 | | 2.2E-08 | |
| Cadmium | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | |
| 4-4'-DDT | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | |
| Aroclor-1260 | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | |
| alpha-BHC | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | |
| beta-BHC | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | |
| Dieldrin | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | |
| delta-BHC | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Heptachlor | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | |
| Heptachlorepoxide | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | |
| Benzo(a)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Benzo(a)pyrene | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | |
| Benzo(b)fluoranthene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Dibenzo(a,h)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Indeno(1,2,3-cd)pyrene | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | |
| **AWI Whole Crab TOTAL RISK** | **3.5E-06** | 3 | **1.8E-06** | 5 | **1.6E-06** | 6 | **1.3E-06** | 7 | **1.2E-06** | 8 | **1.1E-06** | 9 | **3.2E-06** | 3 | **1.7E-06** | 6 | **1.5E-06** | 7 | **1.3E-06** | 8 | **1.1E-06** | 9 | **1.1E-06** | 9 |
| Total Dioxin TEQ | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 1.6E-06 | | 4.8E-07 | | 3.2E-07 | | 1.6E-07 | | 8.0E-08 | | 1.6E-08 | | 1.5E-06 | | 4.5E-07 | | 3.0E-07 | | 1.5E-07 | | 7.4E-08 | | 1.5E-08 | |
| Cadmium | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | |
| Aroclor-1260 | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | |
| alpha-BHC | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | |
| beta-BHC | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | |
| Dieldrin | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | |
| delta-BHC | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Heptachlor | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Heptachlorepoxide | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | |
| Benzo(a)pyrene | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | |
| Benzo(b)fluoranthene | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | |
| Dibenzo(a,h)anthracene | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | |
| Indeno(1,2,3-cd)pyrene | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | |
| Pentachlorophenol | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | |
| **SC Whole Crab TOTAL RISK** | **2.2E-06** | 5 | **1.0E-06** | 10 | **8.8E-07** | 11 | **7.2E-07** | 14 | **6.4E-07** | 16 | **5.7E-07** | 17 | **2.0E-06** | 5 | **9.7E-07** | 10 | **8.2E-07** | 12 | **6.7E-07** | 15 | **6.0E-07** | 17 | **5.4E-07** | 19 |
| Total Dioxin TEQ(1998 WHO) | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | |
| Arsenic | 1.2E-06 | | 3.6E-07 | | 2.4E-07 | | 1.2E-07 | | 6.1E-08 | | 1.2E-08 | | 1.1E-06 | | 3.4E-07 | | 2.3E-07 | | 1.1E-07 | | 5.7E-08 | | 1.1E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| vandium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | |
| Aroclor-1260 | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | |
| beta-BHC | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | |
| Dieldrin | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | |
| Heptachlorepoxide | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | |
| Benzo(a)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Indeno(1,2,3-cd)pyrene | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | |
| **York Whole Crab TOTAL RISK** | **1.6E-06** | 6 | **8.0E-07** | 13 | **6.8E-07** | 15 | **5.5E-07** | 18 | **4.9E-07** | 20 | **4.5E-07** | 22 | **1.5E-06** | 6 | **7.4E-07** | 13 | **6.3E-07** | 16 | **5.2E-07** | 19 | **4.6E-07** | 22 | **4.2E-07** | 24 |
| Dioxin TEQ(1989) | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | | | | | | | | | | | | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arsenic | 2.6E-07 | | 7.8E-08 | | 5.2E-08 | | 2.6E-08 | | 1.3E-08 | | 2.6E-09 | | | | | | | | | | | | | |
| Barium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Cadmium | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | | | | | | | | | | | | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Iron | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Aldrin | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | | | | | | | | | | | | |
| alpha-BHC | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | | | | | | | | | | | | |
| beta-BHC | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | | | | | | | | | | | | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Dieldrin | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | | | | | | | | | | | | |
| Heptachlor | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | | | | | | | | | | | | |
| Heptachlorepoxide | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | | | | | | | | | | | | |
| Benzo(a)anthracene | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | | | | | | | | | | | | |
| Benzo(a)pyrene | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | | | | | | | | | | | | |
| Chrysene | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | | | | | | | | | | | | |
| **AWI Oyster TOTAL RISK** | **2.1E-06** | 5 | **1.9E-06** | 5 | **1.9E-06** | 5 | **1.8E-06** | 5 | **1.8E-06** | 6 | **1.8E-06** | 6 | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | |
| Dioxin TEQ (1998) | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | | | | | | | | | | | | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Aluminum | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arsenic | 3.9E-07 | | 1.2E-07 | | 7.8E-08 | | 3.9E-08 | | 2.0E-08 | | 3.9E-09 | | | | | | | | | | | | | |
| Barium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Cadmium | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | | | | | | | | | | | | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Iron | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arochlor-1260 | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | | | | | | | | | | | | |
| alpha-BHC | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | | | | | | | | | | | | |
| Heptachlor | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | | | | | | | | | | | | |
| Heptachlorepoxide | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | | | | | | | | | | | | |
| Benzo(a)anthracene | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | | | | | | | | | | | | |
| Benzo(a)pyrene | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | | | | | | | | | | | | |
| **Ref Oyster TOTAL RISK** | **4.5E-07** | 22 | **1.8E-07** | 57 | **1.4E-07** | 73 | **9.8E-08** | 102 | **7.9E-08** | 127 | **6.3E-08** | 158 | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | |

Risks are for both subsistence and recreational fishers ingesting one crab or oyster per year.

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| AWI Crab Meat TOTAL RISK | 1.5E-06 | 7 | 4.9E-07 | 20 | 3.5E-07 | 28 | 2.1E-07 | 47 | 1.5E-07 | 69 | 9.0E-08 | 111 | 1.4E-06 | 7 | 4.6E-07 | 22 | 3.3E-07 | 30 | 2.0E-07 | 50 | 1.4E-07 | 74 | 8.4E-08 | 119 |
| SC Crab Meat TOTAL RISK | 8.4E-07 | 12 | 2.7E-07 | 38 | 1.8E-07 | 55 | 1.0E-07 | 100 | 5.9E-08 | 170 | 2.6E-08 | 387 | 7.9E-07 | 13 | 2.5E-07 | 40 | 1.7E-07 | 59 | 9.3E-08 | 107 | 5.5E-08 | 182 | 2.4E-08 | 415 |
| York Crab Meat TOTAL RISK | 5.6E-07 | 18 | 2.0E-07 | 51 | 1.4E-07 | 70 | 9.0E-08 | 111 | 6.4E-08 | 156 | 4.3E-08 | 233 | 5.3E-07 | 19 | 1.8E-07 | 55 | 1.3E-07 | 75 | 8.4E-08 | 119 | 6.0E-08 | 167 | 4.0E-08 | 249 |
| AWI Whole Crab TOTAL RISK | 3.5E-06 | 3 | 1.8E-06 | 5 | 1.6E-06 | 6 | 1.3E-06 | 7 | 1.2E-06 | 8 | 1.1E-06 | 9 | 3.2E-06 | 3 | 1.7E-06 | 6 | 1.5E-06 | 7 | 1.3E-06 | 8 | 1.1E-06 | 9 | 1.1E-06 | 9 |
| SC Whole Crab TOTAL RISK | 2.2E-06 | 5 | 1.0E-06 | 10 | 8.8E-07 | 11 | 7.2E-07 | 14 | 6.4E-07 | 16 | 5.7E-07 | 17 | 2.0E-06 | 5 | 9.7E-07 | 10 | 8.2E-07 | 12 | 6.7E-07 | 15 | 6.0E-07 | 17 | 5.4E-07 | 19 |
| York Whole Crab TOTAL RISK | 1.6E-06 | 6 | 8.0E-07 | 13 | 6.8E-07 | 15 | 5.5E-07 | 18 | 4.9E-07 | 20 | 4.5E-07 | 22 | 1.5E-06 | 6 | 7.4E-07 | 13 | 6.3E-07 | 16 | 5.2E-07 | 19 | 4.6E-07 | 22 | 4.2E-07 | 24 |
| AWI Oyster TOTAL RISK | 2.1E-06 | 5 | 1.9E-06 | 5 | 1.9E-06 | 5 | 1.8E-06 | 5 | 1.8E-06 | 6 | 1.8E-06 | 6 | NA | | NA | | NA | | NA | | NA | | NA | |
| Ref Oyster TOTAL RISK | 4.5E-07 | 22 | 1.8E-07 | 57 | 1.4E-07 | 73 | 9.8E-08 | 102 | 7.9E-08 | 127 | 6.3E-08 | 158 | NA | | NA | | NA | | NA | | NA | | NA | |

Risks are for both subsistence and recreational fishers ingesting one crab or oyster per year.

**AWI Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 6.9E-09 | 1.1E-04 | 6.4E-09 | 5.0E-04 |
| Mercury | NA | 4.6E-04 | NA | 2.2E-03 |
| Arsenic | 1.4E-06 | 7.2E-03 | 1.3E-06 | 3.3E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 2.4E-04 | NA | 1.1E-03 |
| Selenium | NA | 1.1E-04 | NA | 5.3E-04 |
| Thallium | NA | 3.1E-04 | NA | 1.4E-03 |
| 4,4'-DDE | 9.2E-10 | NA | 8.6E-10 | NA |
| Aroclor-1260 | 3.2E-08 | NA | 2.9E-08 | NA |
| Dieldrin | 4.1E-09 | 1.2E-05 | 3.9E-09 | 5.6E-05 |
| Heptachlorepoxide | 1.4E-09 | 2.8E-05 | 1.3E-09 | 1.3E-04 |
| Benzo(a)anthracene | 2.4E-09 | NA | 2.2E-09 | NA |
| Benzo(a)pyrene | 1.9E-08 | NA | 1.8E-08 | NA |
| Benzo(b)fluoranthene | 4.0E-09 | NA | 3.7E-09 | NA |
| Dibenzo(a,h)anthracene | 4.7E-09 | NA | 4.4E-09 | NA |
| Indeno(1,2,3-cd)pyrene | 9.2E-10 | NA | 8.6E-10 | NA |
| **TOTAL** | **1.5E-06** | **8.4E-03** | **1.4E-06** | **3.9E-02** |

| | | | | | Yearly crab consumption by a child for HQ = 1 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
| **Total Skin/Vascular HI = (As)** | 7.2E-03 | 140 | 3.3E-02 | | 30 | 100 | 149 | 299 | 598 | 2,990 |
| **Total Gastrointestinal Tract HI = (Cu)** | 2.4E-04 | 4,215 | 1.1E-03 | | 903 | | | | | |
| **Total Liver HI = Th+Dieldrin+Heptachl** | 3.5E-04 | 2,856 | 1.6E-03 | | 612 | | | | | |
| **Total CNS HI = Hg+Se** | 5.8E-04 | 1,737 | 2.7E-03 | | 372 | | | | | |
| **Total Overall Human Develop HI = Dixoin** | 1.1E-04 | 9,314 | 5.0E-04 | | 1,996 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly crab consumption by an adult for HQ = 1; As = 100%

**Scuffletown Creek Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 1.1E-09 | 1.7E-05 | 1.0E-09 | 8.1E-05 |
| Mercury | NA | 3.2E-04 | NA | 1.5E-03 |
| Arsenic | 8.3E-07 | 4.3E-03 | 7.7E-07 | 2.0E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 2.1E-04 | NA | 1.0E-03 |
| Selenium | NA | 8.7E-05 | NA | 4.1E-04 |
| Aroclor-1260 | 9.8E-09 | NA | 9.2E-09 | NA |
| Benzo(a)pyrene | 5.6E-09 | NA | 5.2E-09 | NA |
| Benzo(b)fluoranthene | 1.0E-09 | NA | 9.8E-10 | NA |
| **TOTAL** | **8.4E-07** | **4.9E-03** | **7.9E-07** | **2.3E-02** |

Yearly crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Skin/Vascular HI = As** | 4.3E-03 | 234 | 2.0E-02 | 50 | 167 | 250 | 501 | 1,002 | 5,008 |
| **Total Gastrointestinal Tract HI = (Cu)** | 2.1E-04 | 4,671 | 1.0E-03 | 1,001 | | | | | |
| **Total CNS HI = Hg+Se** | 4.1E-04 | 2,431 | 1.9E-03 | 521 | | | | | |
| **Total Overall Human Develop HI = Dixoin** | 1.7E-05 | 57,909 | 8.1E-05 | 12,409 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly crab consumption by an adult for HQ = 1; As = 100%

**York River Crab Meat Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ(1998 WHO) | 2.4E-08 | 3.7E-04 | 2.2E-08 | 1.7E-03 |
| Arsenic | 5.3E-07 | 2.7E-03 | 4.9E-07 | 1.3E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 1.6E-04 | NA | 7.7E-04 |
| Thallium | NA | 1.2E-04 | NA | 5.5E-04 |
| Aroclor-1260 | 1.4E-08 | NA | 1.3E-08 | NA |
| **TOTAL** | **5.6E-07** | **3.4E-03** | **5.3E-07** | **1.6E-02** |

Yearly crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 3.7E-04 | 2707 | 1.7E-03 | 580 | | | | | |
| **Total Skin/Vascular HI = As** | 2.7E-03 | 366 | 1.3E-02 | 78 | 262 | 392 | 785 | 1,570 | 7,850 |
| **Total Gastrointestinal Tract HI = (Cu)** | 1.6E-04 | 6070 | 7.7E-04 | 1,301 | | | | | |
| **Total Liver HI = Th+Dieldrin+Heptachl** | 1.2E-04 | 8513 | 5.5E-04 | 1,824 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly crab consumption by an adult for HQ = 1; As = 100%

**AWI Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 6.0E-07 | 9.3E-03 | 5.6E-07 | 4.3E-02 |
| Mercury | NA | 5.6E-04 | NA | 2.6E-03 |
| Arsenic | 2.4E-06 | 1.2E-02 | 2.2E-06 | 5.7E-02 |
| Cadmium | 9.4E-08 | 5.7E-04 | 8.7E-08 | 2.7E-03 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 1.2E-03 | NA | 5.4E-03 |
| Selenium | NA | 2.6E-04 | NA | 1.2E-03 |
| Thallium | NA | 1.5E-03 | NA | 7.1E-03 |
| Vanadium | NA | 2.2E-04 | NA | 1.0E-03 |
| Zinc | NA | 1.6E-04 | NA | 7.4E-04 |
| 4,4'-DDE | 3.9E-09 | NA | 3.7E-09 | NA |
| 4-4'-DDT | 3.4E-09 | 4.6E-05 | 3.2E-09 | 2.2E-04 |
| Aroclor-1260 | 2.4E-07 | NA | 2.3E-07 | NA |
| alpha-BHC | 1.4E-09 | 6.3E-08 | 1.3E-09 | 3.0E-07 |
| beta-BHC | 1.5E-09 | NA | 1.4E-09 | NA |
| Dieldrin | 5.6E-08 | 1.6E-04 | 5.2E-08 | 7.6E-04 |
| delta-BHC | NA | NA | NA | NA |
| Heptachlor | 1.7E-09 | 1.7E-06 | 1.6E-09 | 8.1E-06 |
| Heptachlorepoxide | 1.9E-08 | 3.8E-04 | 1.8E-08 | 1.8E-03 |
| Benzo(a)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Benzo(a)pyrene | 5.2E-08 | NA | 4.9E-08 | NA |
| Benzo(b)fluoranthene | 1.2E-08 | NA | 1.1E-08 | NA |
| Dibenzo(a,h)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 2.2E-09 | NA | 2.0E-09 | NA |
| **TOTAL** | **3.5E-06** | **2.7E-02** | **3.2E-06** | **1.2E-01** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 9.3E-03 | 107 | 4.3E-02 | 23 | | | | | |
| **Total CNS HI = Hg+Se** | 8.1E-04 | 1,232 | 3.8E-03 | 264 | | | | | |
| **Total Skin/Vascular HI = As** | 1.2E-02 | 82 | 5.7E-02 | 18 | 58 | 88 | 175 | 350 | 1,751 |
| **Total Kidney HI = Cd** | 5.7E-04 | 1,741 | 2.7E-03 | 373 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 1.2E-03 | 858 | 5.4E-03 | 184 | | | | | |
| **Total Liver HI = Th+DDT+aBHC+Diel+Heptac+Heptachepox** | 2.1E-03 | 472 | 9.9E-03 | 101 | | | | | |
| **Total NOAEL HI = V** | 2.2E-04 | 4,445 | 1.0E-03 | 952 | | | | | |
| **Total Blood HI = Zn** | 1.6E-04 | 6,346 | 7.4E-04 | 1,360 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

**Scuffletown Creek Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ | 2.5E-07 | 3.8E-03 | 2.3E-07 | 1.8E-02 |
| Mercury | NA | 3.9E-04 | NA | 1.8E-03 |
| Arsenic | 1.6E-06 | 8.3E-03 | 1.5E-06 | 3.9E-02 |
| Cadmium | 9.1E-08 | 5.6E-04 | 8.5E-08 | 2.6E-03 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 9.5E-04 | NA | 4.4E-03 |
| Selenium | NA | 2.0E-04 | NA | 9.5E-04 |
| Thallium | NA | 4.5E-04 | NA | 2.1E-03 |
| Vanadium | NA | 2.3E-04 | NA | 1.1E-03 |
| Zinc | NA | 1.8E-04 | NA | 8.2E-04 |
| 4,4'-DDE | 4.6E-09 | NA | 4.3E-09 | NA |
| Aroclor-1260 | 1.1E-07 | NA | 1.0E-07 | NA |
| alpha-BHC | 2.0E-09 | 9.1E-08 | 1.8E-09 | 4.2E-07 |
| beta-BHC | 1.3E-09 | NA | 1.2E-09 | NA |
| Dieldrin | 4.2E-08 | 1.2E-04 | 3.9E-08 | 5.7E-04 |
| delta-BHC | NA | NA | NA | NA |
| Heptachlor | 2.1E-09 | 2.1E-06 | 1.9E-09 | 1.0E-05 |
| Heptachlorepoxide | 1.6E-08 | 3.2E-04 | 1.5E-08 | 1.5E-03 |
| Benzo(a)pyrene | 1.6E-08 | NA | 1.5E-08 | NA |
| Benzo(b)fluoranthene | 7.6E-09 | NA | 7.1E-09 | NA |
| Dibenzo(a,h)anthracene | 1.4E-08 | NA | 1.3E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 1.9E-09 | NA | 1.7E-09 | NA |
| Pentachlorophenol | 3.4E-09 | 2.2E-06 | 3.2E-09 | 1.0E-05 |
| **TOTAL** | **2.2E-06** | **1.6E-02** | **2.0E-06** | **7.2E-02** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 3.8E-03 | 261 | 1.8E-02 | 56 | 187 | 280 | 560 | 1,119 | 5,597 |
| **Total CNS HI = Hg+Se** | 6.0E-04 | 1675 | 2.8E-03 | 359 | | | | | |
| **Total Skin/Vascular HI = As** | 8.3E-03 | 121 | 3.9E-02 | 26 | 86 | 130 | 259 | 518 | 2,591 |
| **Total Kidney HI = Cd+PCP** | 5.6E-04 | 1773 | 2.6E-03 | 380 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 9.5E-04 | 1057 | 4.4E-03 | 226 | | | | | |
| **Total Liver HI = Th+aBHC+Diel+Heptach+Heptacepox+PCP** | 8.9E-04 | 1122 | 4.2E-03 | 241 | | | | | |
| **Total NOAEL HI = V** | 2.3E-04 | 4301 | 1.1E-03 | 922 | | | | | |
| **Total Blood HI = Zn** | 1.8E-04 | 5696 | 8.2E-04 | 1,220 | | | | | |

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

**Reference Whole Crab Risk Summary - Ingestion of One Crab Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer | Child Cancer | Child Noncancer |
|---|---|---|---|---|
| Total Dioxin TEQ(1998 WHO) | 9.3E-08 | 1.4E-03 | 8.7E-08 | 6.8E-03 |
| Arsenic | 1.2E-06 | 6.3E-03 | 1.1E-06 | 2.9E-02 |
| Cobalt | NA | NA | NA | NA |
| Copper | NA | 4.5E-04 | NA | 2.1E-03 |
| Selenium | NA | 1.7E-04 | NA | 7.8E-04 |
| Thallium | NA | 3.5E-04 | NA | 1.6E-03 |
| vandium | NA | 2.3E-04 | NA | 1.1E-03 |
| Zinc | NA | 1.9E-04 | NA | 8.9E-04 |
| 4,4'-DDE | 2.5E-09 | NA | 2.4E-09 | NA |
| Aroclor-1260 | 3.1E-07 | NA | 2.9E-07 | NA |
| beta-BHC | 1.6E-09 | NA | 1.5E-09 | NA |
| Dieldrin | 1.1E-08 | 3.3E-05 | 1.0E-08 | 1.5E-04 |
| Heptachlorepoxide | 5.9E-09 | 1.2E-04 | 5.5E-09 | 5.4E-04 |
| Benzo(a)anthracene | 1.2E-08 | NA | 1.1E-08 | NA |
| Indeno(1,2,3-cd)pyrene | 4.0E-10 | NA | 3.7E-10 | NA |
| **TOTAL** | **1.6E-06** | **9.3E-03** | **1.5E-06** | **4.3E-02** |

Yearly whole crab consumption by a child for HQ = 1

| | | | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 1.4E-03 | 690 | 6.8E-03 | 148 | | | | | |
| **Total CNS HI = Se** | 1.7E-04 | 5981 | 7.8E-04 | 1,282 | | | | | |
| **Total Skin/Vascular HI = As** | 6.3E-03 | 159 | 2.9E-02 | 34 | 113 | 170 | 340 | 680 | 3,400 |
| **Total Gastrointestinal Tract HI = (Cu)** | 4.5E-04 | 2217 | 2.1E-03 | 475 | | | | | |
| **Total Liver HI = Th+Diel+Heptacepox** | 5.0E-04 | 2010 | 2.3E-03 | 431 | | | | | |
| **Total NOAEL HI = V** | 2.3E-04 | 4393 | 1.1E-03 | 941 | | | | | |
| **Total Blood HI = Zn** | 1.9E-04 | 5229 | 8.9E-04 | 1,120 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one crab per year.

Yearly whole crab consumption by an adult for HQ = 1; As = 100%

**Oyster Risk Summary - Ingestion of One Oyster Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer |
|---|---|---|
| Dioxin TEQ(1989) | 1.8E-07 | 2.7E-03 |
| Mercury | NA | 1.3E-04 |
| Arsenic | 2.6E-07 | 1.4E-03 |
| Barium | NA | 7.7E-07 |
| Cadmium | 6.3E-08 | 3.9E-04 |
| Cobalt | NA | NA |
| Copper | NA | 1.1E-03 |
| Iron | NA | 5.3E-05 |
| Selenium | NA | 4.2E-05 |
| Thallium | NA | 4.7E-04 |
| Vanadium | NA | 6.6E-05 |
| Zinc | NA | 2.0E-03 |
| Aldrin | 2.6E-09 | 1.2E-05 |
| alpha-BHC | 3.0E-09 | 1.4E-07 |
| beta-BHC | 1.1E-09 | NA |
| Dieldrin | 2.8E-09 | 8.1E-06 |
| Heptachlor | 5.5E-09 | 5.7E-06 |
| Heptachlorepoxide | 1.9E-09 | 3.8E-05 |
| Benzo(a)anthracene | 8.4E-08 | NA |
| Benzo(a)pyrene | 1.1E-06 | NA |
| Benzo(b)fluoranthene | 2.2E-07 | NA |
| Benzo(k)fluoranthene | 1.4E-08 | NA |
| Chrysene | 1.2E-09 | NA |
| Dibenzo(a,h)anthracene | 1.0E-07 | NA |
| Indeno(1,2,3-cd)pyrene | 2.1E-08 | NA |
| **TOTAL** | **2.1E-06** | **8.4E-03** |

Yearly oyster consumption by an adult for HQ = 1

| | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 2.7E-03 | 364 | | | | | |
| **Total CNS HI = Hg+Se** | 1.7E-04 | 5,735 | | | | | |
| **Total Skin/Vascular HI = As** | 1.4E-03 | 739 | 2,463 | 3,695 | 7,390 | 14,780 | 73,900 |
| **Total Kidney HI = Ba+Cd** | 3.9E-04 | 2,592 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 1.1E-03 | 898 | | | | | |
| **Total Liver HI = Fe+Th+Aldrin+aBHC+Diel+Heptac+Heptachepox** | 5.8E-04 | 1,710 | | | | | |
| **Total NOAEL HI = V** | 6.6E-05 | 15,107 | | | | | |
| **Total Blood HI = Fe+Zn** | 2.0E-03 | 488 | | | | | |

NA = Not Available

Risks are for both subsistence and recreational fishers ingesting one oyster per year.

**York N & Caged Oyster Risk Summary - Ingestion of One Oyster Per Year Assuming 100% of Arsenic as Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| Contaminant of Potential Concern | Adult Cancer | Adult Noncancer |
|---|---|---|
| Dioxin TEQ (1998) | 1.0E-08 | 1.6E-04 |
| Mercury | NA | 1.5E-04 |
| Aluminum | NA | 2.2E-05 |
| Arsenic | 3.9E-07 | 2.0E-03 |
| Barium | NA | 7.1E-07 |
| Cadmium | 2.9E-08 | 1.8E-04 |
| Cobalt | NA | NA |
| Copper | NA | 2.9E-04 |
| Iron | NA | 4.9E-05 |
| Vanadium | NA | 6.5E-05 |
| Zinc | NA | 6.4E-04 |
| Arochlor-1260 | 1.2E-08 | NA |
| alpha-BHC | 1.0E-09 | 4.8E-08 |
| Heptachlor | 4.0E-09 | 4.2E-06 |
| Heptachlorepoxide | 1.6E-09 | 3.2E-05 |
| Benzo(a)anthracene | 6.9E-10 | NA |
| Benzo(a)pyrene | 4.0E-09 | NA |
| Benzo(b)fluoranthene | 5.9E-10 | NA |
| **TOTAL** | **4.5E-07** | **3.6E-03** |

Yearly oyster consumption by an adult for HQ = 1

| | | 100% As+3 | 30% As+3 | 20% As+3 | 10% As+3 | 5% As+3 | 1% As+3 |
|---|---|---|---|---|---|---|---|
| **Total Overall Human Develop HI = Dixoin** | 1.6E-04 | 6,230 | | | | | |
| **Total CNS HI = Hg+Al** | 1.7E-04 | 5,902 | | | | | |
| **Total Skin/Vascular HI = As** | 2.0E-03 | 494 | 1,647 | 2,471 | 4,942 | 9,884 | 49,419 |
| **Total Kidney HI = Ba+Cd** | 1.8E-04 | 5,531 | | | | | |
| **Total Gastrointestinal Tract HI = (Cu)** | 3.4E-04 | 2,911 | | | | | |
| **Total Liver HI = Fe+aBHC+Heptac+Heptacepox** | 8.5E-05 | 11,775 | | | | | |
| **Total NOAEL HI = V** | 6.5E-05 | 15,373 | | | | | |
| **Total Blood HI = Fe+Zn** | 6.9E-04 | 1,445 | | | | | |
| **Total Heart HI = Ba** | 7.1E-07 | 1,409,459 | | | | | |

NA = Not Available

Reference oysters are cages and natural oysters

Risks are for both subsistence and recreational fishers ingesting one oyster per year.

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Total Dioxin TEQ | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.9E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | | 6.4E-09 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 1.4E-06 | | 4.1E-07 | | 2.8E-07 | | 1.4E-07 | | 6.9E-08 | | 1.4E-08 | | 1.3E-06 | | 3.9E-07 | | 2.6E-07 | | 1.3E-07 | | 6.5E-08 | | 1.3E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | |
| Aroclor-1260 | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 3.2E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | |
| Dieldrin | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 4.1E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | |
| Heptachlorepoxide | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | |
| Benzo(a)anthracene | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | |
| Benzo(a)pyrene | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | |
| Benzo(b)fluoranthene | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | |
| Dibenzo(a,h)anthracene | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.7E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | | 4.4E-09 | |
| Indeno(1,2,3-cd)pyrene | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 9.2E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | | 8.6E-10 | |
| **AWI Crab Meat TOTAL RISK** | **1.5E-06** | 7 | **4.9E-07** | 20 | **3.5E-07** | 28 | **2.1E-07** | 47 | **1.5E-07** | 69 | **9.0E-08** | 111 | **1.4E-06** | 7 | **4.6E-07** | 22 | **3.3E-07** | 30 | **2.0E-07** | 50 | **1.4E-07** | 74 | **8.4E-08** | 119 |
| Total Dioxin TEQ | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 8.3E-07 | | 2.5E-07 | | 1.7E-07 | | 8.3E-08 | | 4.1E-08 | | 8.3E-09 | | 7.7E-07 | | 2.3E-07 | | 1.5E-07 | | 7.7E-08 | | 3.9E-08 | | 7.7E-09 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Aroclor-1260 | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.8E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | | 9.2E-09 | |
| Benzo(a)pyrene | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.6E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | | 5.2E-09 | |
| Benzo(b)fluoranthene | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | | 9.8E-10 | |
| **SC Crab Meat TOTAL RISK** | **8.4E-07** | 12 | **2.7E-07** | 38 | **1.8E-07** | 55 | **1.0E-07** | 100 | **5.9E-08** | 170 | **2.6E-08** | 387 | **7.9E-07** | 13 | **2.5E-07** | 40 | **1.7E-07** | 59 | **9.3E-08** | 107 | **5.5E-08** | 182 | **2.4E-08** | 415 |
| Total Dioxin TEQ(1998 WHO) | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.4E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | | 2.2E-08 | |
| Arsenic | 5.3E-07 | | 1.6E-07 | | 1.1E-07 | | 5.3E-08 | | 2.6E-08 | | 5.3E-09 | | 4.9E-07 | | 1.5E-07 | | 9.8E-08 | | 4.9E-08 | | 2.5E-08 | | 4.9E-09 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Aroclor-1260 | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | |
| **York Crab Meat TOTAL RISK** | **5.6E-07** | 18 | **2.0E-07** | 51 | **1.4E-07** | 70 | **9.0E-08** | 111 | **6.4E-08** | 156 | **4.3E-08** | 233 | **5.3E-07** | 19 | **1.8E-07** | 55 | **1.3E-07** | 75 | **8.4E-08** | 119 | **6.0E-08** | 167 | **4.0E-08** | 249 |
| Total Dioxin TEQ | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 6.0E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | | 5.6E-07 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 2.4E-06 | | 7.1E-07 | | 4.7E-07 | | 2.4E-07 | | 1.2E-07 | | 2.4E-08 | | 2.2E-06 | | 6.6E-07 | | 4.4E-07 | | 2.2E-07 | | 1.1E-07 | | 2.2E-08 | |
| Cadmium | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 9.4E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.9E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | | 3.7E-09 | |
| 4-4'-DDT | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | |
| Aroclor-1260 | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.4E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | |
| alpha-BHC | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | |
| beta-BHC | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | | 1.4E-09 | |
| Dieldrin | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.6E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | |
| delta-BHC | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Heptachlor | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | |
| Heptachlorepoxide | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.9E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | | 1.8E-08 | |
| Benzo(a)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Benzo(a)pyrene | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 5.2E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | | 4.9E-08 | |
| Benzo(b)fluoranthene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Dibenzo(a,h)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Indeno(1,2,3-cd)pyrene | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.2E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | |
| **AWI Whole Crab TOTAL RISK** | **3.5E-06** | 3 | **1.8E-06** | 5 | **1.6E-06** | 6 | **1.3E-06** | 7 | **1.2E-06** | 8 | **1.1E-06** | 9 | **3.2E-06** | 3 | **1.7E-06** | 6 | **1.5E-06** | 7 | **1.3E-06** | 8 | **1.1E-06** | 9 | **1.1E-06** | 9 |
| Total Dioxin TEQ | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.5E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | | 2.3E-07 | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Arsenic | 1.6E-06 | | 4.8E-07 | | 3.2E-07 | | 1.6E-07 | | 8.0E-08 | | 1.6E-08 | | 1.5E-06 | | 4.5E-07 | | 3.0E-07 | | 1.5E-07 | | 7.4E-08 | | 1.5E-08 | |
| Cadmium | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 9.1E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | | 8.5E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.6E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | | 4.3E-09 | |
| Aroclor-1260 | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.1E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | |
| alpha-BHC | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 2.0E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | | 1.8E-09 | |
| beta-BHC | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.3E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | |
| Dieldrin | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 4.2E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | | 3.9E-08 | |
| delta-BHC | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Heptachlor | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 2.1E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Heptachlorepoxide | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | |
| Benzo(a)pyrene | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.6E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | | 1.5E-08 | |
| Benzo(b)fluoranthene | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.6E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | | 7.1E-09 | |
| Dibenzo(a,h)anthracene | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | | 1.3E-08 | |
| Indeno(1,2,3-cd)pyrene | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | | 1.7E-09 | |
| Pentachlorophenol | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.4E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | | 3.2E-09 | |
| **SC Whole Crab TOTAL RISK** | **2.2E-06** | 5 | **1.0E-06** | 10 | **8.8E-07** | 11 | **7.2E-07** | 14 | **6.4E-07** | 16 | **5.7E-07** | 17 | **2.0E-06** | 5 | **9.7E-07** | 10 | **8.2E-07** | 12 | **6.7E-07** | 15 | **6.0E-07** | 17 | **5.4E-07** | 19 |
| Total Dioxin TEQ(1998 WHO) | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 9.3E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | | 8.7E-08 | |
| Arsenic | 1.2E-06 | | 3.6E-07 | | 2.4E-07 | | 1.2E-07 | | 6.1E-08 | | 1.2E-08 | | 1.1E-06 | | 3.4E-07 | | 2.3E-07 | | 1.1E-07 | | 5.7E-08 | | 1.1E-08 | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| vandium | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4,4'-DDE | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.5E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | | 2.4E-09 | |
| Aroclor-1260 | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 3.1E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | | 2.9E-07 | |
| beta-BHC | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | | 1.5E-09 | |
| Dieldrin | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | |
| Heptachlorepoxide | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.9E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | |
| Benzo(a)anthracene | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | | 1.1E-08 | |
| Indeno(1,2,3-cd)pyrene | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 4.0E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | | 3.7E-10 | |
| **York Whole Crab TOTAL RISK** | **1.6E-06** | 6 | **8.0E-07** | 13 | **6.8E-07** | 15 | **5.5E-07** | 18 | **4.9E-07** | 20 | **4.5E-07** | 22 | **1.5E-06** | 6 | **7.4E-07** | 13 | **6.3E-07** | 16 | **5.2E-07** | 19 | **4.6E-07** | 22 | **4.2E-07** | 24 |
| Dioxin TEQ(1989) | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | 1.8E-07 | | | | | | | | | | | | | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arsenic | 2.6E-07 | | 7.8E-08 | | 5.2E-08 | | 2.6E-08 | | 1.3E-08 | | 2.6E-09 | | | | | | | | | | | | | |
| Barium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Cadmium | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | 6.3E-08 | | | | | | | | | | | | | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Iron | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Selenium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Thallium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Aldrin | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | 2.6E-09 | | | | | | | | | | | | | |
| alpha-BHC | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | 3.0E-09 | | | | | | | | | | | | | |
| beta-BHC | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | 1.1E-09 | | | | | | | | | | | | | |

**Risk Summary - Ingestion of One Crab or Oyster Per Year as a Percentage of Inorganic Arsenic (As+3)**
**REASONABLE MAXIMUM EXPOSURE**
**Atlantic Wood Industries - OU3**

| | Adult Cancer | | | | | | | | | | | | Child Cancer | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | | 100% As+3 | | 30% As+3 | | 20% As+3 | | 10% As+3 | | 5% As+3 | | 1% As+3 | |
| Dieldrin | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | 2.8E-09 | | | | | | | | | | | | | |
| Heptachlor | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | 5.5E-09 | | | | | | | | | | | | | |
| Heptachlorepoxide | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | 1.9E-09 | | | | | | | | | | | | | |
| Benzo(a)anthracene | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | 8.4E-08 | | | | | | | | | | | | | |
| Benzo(a)pyrene | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | 1.1E-06 | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | 2.2E-07 | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | 1.4E-08 | | | | | | | | | | | | | |
| Chrysene | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | 1.2E-09 | | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | 1.0E-07 | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | 2.1E-08 | | | | | | | | | | | | | |
| **AWI Oyster TOTAL RISK** | **2.1E-06** | 5 | **1.9E-06** | 5 | **1.9E-06** | 5 | **1.8E-06** | 5 | **1.8E-06** | 6 | **1.8E-06** | 6 | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | |
| Dioxin TEQ (1998) | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | 1.0E-08 | | | | | | | | | | | | | |
| Mercury | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Aluminum | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arsenic | 3.9E-07 | | 1.2E-07 | | 7.8E-08 | | 3.9E-08 | | 2.0E-08 | | 3.9E-09 | | | | | | | | | | | | | |
| Barium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Cadmium | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | 2.9E-08 | | | | | | | | | | | | | |
| Cobalt | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Copper | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Iron | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Vanadium | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Zinc | NA | | NA | | NA | | NA | | NA | | NA | | | | | | | | | | | | | |
| Arochlor-1260 | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | 1.2E-08 | | | | | | | | | | | | | |
| alpha-BHC | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | 1.0E-09 | | | | | | | | | | | | | |
| Heptachlor | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | | | | | | | | | | | | |
| Heptachlorepoxide | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | 1.6E-09 | | | | | | | | | | | | | |
| Benzo(a)anthracene | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | 6.9E-10 | | | | | | | | | | | | | |
| Benzo(a)pyrene | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | 4.0E-09 | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | 5.9E-10 | | | | | | | | | | | | | |
| **Ref Oyster TOTAL RISK** | **4.5E-07** | 22 | **1.8E-07** | 57 | **1.4E-07** | 73 | **9.8E-08** | 102 | **7.9E-08** | 127 | **6.3E-08** | 158 | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | | **NA** | |

Risks are for both subsistence and recreational fishers ingesting one crab or oyster per year.