TABLE 5-1-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER FISH - Adult Angler

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish
Exposure Point: Upper Hudson Fish
Receptor Population: Angler
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	5.1	mg/kg wt weight	5.1	mg/kg wt weight	M	2.3E-03	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	116
												Total Hazard Index Across All Exposure Routes/Pathways	116

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

TABLE 5-1-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER FISH - Adult Angler

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish
Exposure Point: Upper Hudson Fish
Receptor Population: Angler
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	4.4	mg/kg wt weight	4.4	mg/kg wt weight	M	2.0E-04	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	10
												Total Hazard Index Across All Exposure Routes/Pathways	10

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

TABLE 5-2-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adult Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	7.3E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.010
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	3.7E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.053
												Total Hazard Index Across All Exposure Routes/Pathways	0.064

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

TABLE 5-2-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adult Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	2.0E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.003
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	1.0E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.015
												Total Hazard Index Across All Exposure Routes/Pathways	0.018

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

TABLE 5-3-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	3.6E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.051
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	1.1E-05	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.152
												Total Hazard Index Across All Exposure Routes/Pathways	0.20

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

TABLE 5-3-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	9.5E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.01
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	2.8E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.04
												Total Hazard Index Across All Exposure Routes/Pathways	0.05

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

TABLE 5-4-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT - Child Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	6.8E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.10
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	5.3E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.08
												Total Hazard Index Across All Exposure Routes/Pathways	0.17

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

TABLE 5-4-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT - Child Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	1.9E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.027
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	1.5E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.021
												Total Hazard Index Across All Exposure Routes/Pathways	0.05

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

TABLE 5-5-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	3.6E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0051
												Total Hazard Index Across All Exposure Routes/Pathways	0.0051

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

TABLE 5-5-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	1.5E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0021
												Total Hazard Index Across All Exposure Routes/Pathways	0.0021

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

TABLE 5-6-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	1.3E-06	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0180
												Total Hazard Index Across All Exposure Routes/Pathways	0.0180

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

TABLE 5-6-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	5.0E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0071
												Total Hazard Index Across All Exposure Routes/Pathways	0.0071

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

TABLE 5-7-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	6.3E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0090
												Total Hazard Index Across All Exposure Routes/Pathways	0.0090

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

TABLE 5-7-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	2.6E-07	mg/kg-day	7.0E-05	mg/kg-day	N/A	N/A	0.0038
												Total Hazard Index Across All Exposure Routes/Pathways	0.0038

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

TABLE 5-8-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	5.5E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-8-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	1.8E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-9-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	2.7E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-9-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	8.2E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-10-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	1.9E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-10-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	6.1E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-11-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adult Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	4.7E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-11-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adult Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	2.7E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-12-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	5.1E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-12-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	3.0E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-13-RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Child Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	9.0E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-13-CT
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Child Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	5.3E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	N/A

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

TABLE 5-14-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER FISH - Adult Angler

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish
Exposure Point: Upper Hudson Fish
Receptor Population: Angler
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	2.2	mg/kg wt weight	2.2	mg/kg wt weight	M	5.7E-04	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	1.1E-03
										Total Risk Across All Exposure Routes/Pathways	1.1E-03

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

TABLE 5-14-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER FISH - Adult Angler

Scenario Timeframe: Current/Future
Medium: Fish
Exposure Medium: Fish
Exposure Point: Upper Hudson Fish
Receptor Population: Angler
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	4.4	mg/kg wt weight	4.4	mg/kg wt weight	M	3.4E-05	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	3.4E-05
										Total Risk Across All Exposure Routes/Pathways	3.4E-05

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

TABLE 5-15-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adult Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	2.4E-07	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	4.8E-07
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	1.2E-06	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	2.4E-06
										Total Risk Across All Exposure Routes/Pathways	2.9E-06

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

TABLE 5-15-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adult Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	1.5E-08	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	1.5E-08
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	7.4E-08	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	7.4E-08
										Total Risk Across All Exposure Routes/Pathways	8.9E-08

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

TABLE 5-16-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	6.1E-07	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	1.2E-06
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	1.8E-06	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	3.6E-06
										Total Risk Across All Exposure Routes/Pathways	4.9E-06

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

TABLE 5-16-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT- Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	4.1E-08	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	4.1E-08
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	1.2E-07	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	1.2E-07
										Total Risk Across All Exposure Routes/Pathways	1.6E-07

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

TABLE 5-17-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER SEDIMENT - Child Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	28.7	mg/kg	28.7	mg/kg	M	5.8E-07	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	1.2E-06
Dermal	PCBs	28.7	mg/kg	28.7	mg/kg	M	4.6E-07	mg/kg-day	2	$(mg/kg\text{-}day)^{-1}$	9.1E-07
										Total Risk Across All Exposure Routes/Pathways	2.1E-06

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

TABLE 5-17-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER SEDIMENT - Child Recreator

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Banks of Upper Hudson
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	PCBs	14.9	mg/kg	14.9	mg/kg	M	8.2E-08	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	8.2E-08
Dermal	PCBs	14.9	mg/kg	14.9	mg/kg	M	6.4E-08	mg/kg-day	1	$(mg/kg\text{-}day)^{-1}$	6.4E-08
										Total Risk Across All Exposure Routes/Pathways	1.5E-07

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

TABLE 5-18-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	1.2E-07	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	4.7E-08
										Total Risk Across All Exposure Routes/Pathways	4.7E-08

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

TABLE 5-18-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	1.1E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	3.2E-09
										Total Risk Across All Exposure Routes/Pathways	3.2E-09

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

TABLE 5-19-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	2.2E-07	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	8.6E-08
										Total Risk Across All Exposure Routes/Pathways	8.6E-08

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

TABLE 5-19-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	2.1E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	6.4E-09
										Total Risk Across All Exposure Routes/Pathways	6.4E-09

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

TABLE 5-20-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER WATER - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	3.10E-05	mg/L	3.10E-05	mg/L	M	5.4E-08	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	2.2E-08
										Total Risk Across All Exposure Routes/Pathways	2.2E-08

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

TABLE 5-20-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER WATER - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: River Water
Exposure Point: Upper Hudson River
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	PCBs	2.40E-05	mg/L	2.40E-05	mg/L	M	1.1E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	3.4E-09
										Total Risk Across All Exposure Routes/Pathways	3.4E-09

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

TABLE 5-21-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	1.8E-08	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	7.28E-09
										Total Risk Across All Exposure Routes/Pathways	7.28E-09

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

TABLE 5-21-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adult Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	1.3E-10	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	3.76E-11
										Total Risk Across All Exposure Routes/Pathways	3.76E-11

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

TABLE 5-22-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	4.6E-08	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	1.85E-08
										Total Risk Across All Exposure Routes/Pathways	1.85E-08

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

TABLE 5-22-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	3.5E-10	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	1.05E-10
										Total Risk Across All Exposure Routes/Pathways	1.05E-10

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

TABLE 5-23-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	1.7E-08	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	6.64E-09
										Total Risk Across All Exposure Routes/Pathways	6.64E-09

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

TABLE 5-23-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Child Recreator

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Recreator
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	2.6E-10	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	7.89E-11
										Total Risk Across All Exposure Routes/Pathways	7.89E-11

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

TABLE 5-24-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adult Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	1.5E-06	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	6.12E-07
										Total Risk Across All Exposure Routes/Pathways	6.12E-07

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

TABLE 5-24-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adult Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	2.0E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	5.87E-09
										Total Risk Across All Exposure Routes/Pathways	5.87E-09

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

TABLE 5-25-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	8.8E-07	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	3.51E-07
										Total Risk Across All Exposure Routes/Pathways	3.51E-07

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

TABLE 5-25-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Adolescent Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	1.3E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	3.87E-09
										Total Risk Across All Exposure Routes/Pathways	3.87E-09

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

TABLE 5-26-RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
UPPER HUDSON RIVER AIR - Child Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	4.20E-05	mg/L	1.70E-02	mg/m³	R	7.7E-07	mg/kg-day	0.4	$(mg/kg\text{-}day)^{-1}$	3.09E-07
										Total Risk Across All Exposure Routes/Pathways	3.09E-07

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

TABLE 5-26-CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
UPPER HUDSON RIVER AIR - Child Resident

Scenario Timeframe: Current/Future
Medium: River Water
Exposure Medium: Outdoor Air
Exposure Point: Upper Hudson River -- Volatilized PCBs
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	PCBs	2.40E-05	mg/L	1.00E-03	mg/m³	R	2.3E-08	mg/kg-day	0.3	$(mg/kg\text{-}day)^{-1}$	6.82E-09
										Total Risk Across All Exposure Routes/Pathways	6.82E-09

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

TABLE 5-27-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Adult Angler

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish	Upper Hudson Fish	PCBs	1.1E-03	--	--	1.1E-03	PCBs	LOAEL	116	--	--	116
						Total Risk Across Fish	1.1E-03					Total Hazard Index Across All Media and All Exposure Routes	116
						Total Risk Across All Media and All Exposure Routes	1.1E-03						
												Total LOAEL HI =	116

TABLE 5-27-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Adult Angler

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Fish	Fish	Upper Hudson Fish	PCBs	3.4E-05	--	--	3.4E-05	PCBs	LOAEL	10	--	--	10
						Total Risk Across Fish	3.4E-05					Total Hazard Index Across All Media and All Exposure Routes	10
						Total Risk Across All Media and All Exposure Routes	3.4E-05						
												Total LOAEL HI =	10

TABLE 5-28-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Adult Recreator

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	4.8E-07	--	2.4E-06	2.9E-06	PCBs	NOAEL	0.01	--	0.053	0.064
River Water	River Water	Upper Hudson River	PCBs	--	--	4.7E-08	4.7E-08	PCBs	NOAEL	--	--	0.0051	0.0051
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	7.3E-09	--	7.3E-09	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	2.9E-06					Total Hazard Index Across All Media and All Exposure Routes	0.07
						Total Risk Across River Water	5.4E-08						
						Total Risk Across All Media and All Exposure Routes	3.0E-06					Total NOAEL HI =	0.07

TABLE 5-28-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Adult Recreator

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	1.5E-08	--	7.4E-08	8.9E-08	PCBs	NOAEL	0.00	--	0.01	0.02
River Water	River Water	Upper Hudson River	PCBs	--	--	3.2E-09	3.2E-09	PCBs	NOAEL	--	--	0.0021	0.0021
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	3.8E-11	--	3.8E-11	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	8.9E-08					Total Hazard Index Across All Media and All Exposure Routes	0.02
						Total Risk Across River Water	3.2E-09						
						Total Risk Across All Media and All Exposure Routes	9.2E-08					Total NOAEL HI =	0.02

TABLE 5-29-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Adolescent Recreator

Scenario Timeframe: Current/Future
Receptor Population: Recreator
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	1.2E-06	--	3.6E-06	4.9E-06	PCBs	NOAEL	0.05	--	0.15	0.20
River Water	River Water	Upper Hudson River	PCBs	--	--	8.6E-08	8.6E-08	PCBs	NOAEL	--	--	0.018	0.0180
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	1.9E-08	--	1.9E-08	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	4.9E-06					Total Hazard Index Across All Media and All Exposure Routes	0.22
						Total Risk Across River Water	1.0E-07						
						Total Risk Across All Media and All Exposure Routes	5.0E-06					Total NOAEL HI =	0.22

TABLE 5-29-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Adolescent Recreator

Scenario Timeframe: Current/Future
Receptor Population: Recreator
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	4.1E-08	--	1.2E-07	1.6E-07	PCBs	NOAEL	0.01	--	0.04	0.05
River Water	River Water	Upper Hudson River	PCBs	--	--	6.4E-09	6.4E-09	PCBs	NOAEL	--	--	0.0071	0.0071
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	1.0E-10	--	1.0E-10	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	1.6E-07					Total Hazard Index Across All Media and All Exposure Routes	0.06
						Total Risk Across River Water	6.5E-09						
						Total Risk Across All Media and All Exposure Routes	1.7E-07					Total NOAEL HI =	0.06

TABLE 5-30-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Child Recreator

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	1.2E-06	--	9.1E-07	2.1E-06	PCBs	NOAEL	0.10	--	0.08	0.17
River Water	River Water	Upper Hudson River	PCBs	--	--	2.2E-08	2.2E-08	PCBs	NOAEL	--	--	0.0090	0.0090
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	6.6E-09	--	6.6E-09	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	2.1E-06					Total Hazard Index Across All Media and All Exposure Routes	0.18
						Total Risk Across River Water	2.8E-08						
						Total Risk Across All Media and All Exposure Routes	2.1E-06					Total NOAEL HI =	0.18

TABLE 5-30-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Child Recreator

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Banks of Upper Hudson	PCBs	8.2E-08	--	6.4E-08	1.5E-07	PCBs	NOAEL	0.03	--	0.02	0.05
River Water	River Water	Upper Hudson River	PCBs	--	--	3.4E-09	3.4E-09	PCBs	NOAEL	--	--	0.0038	0.0038
River Water	Outdoor Air	Upper Hudson River - Volatilized PCBs	PCBs	--	7.9E-11	--	7.9E-11	PCBs	NOAEL	--	N/A	--	N/A
						Total Risk Across Sediment	1.5E-07					Total Hazard Index Across All Media and All Exposure Routes	0.05
						Total Risk Across River Water	3.5E-09						
						Total Risk Across All Media and All Exposure Routes	1.5E-07					Total NOAEL HI =	0.05

TABLE 5-31-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Adult Resident

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	6.1E-07	--	6.1E-07	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	6.1E-07					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	6.1E-07						
												Total LOAEL HI =	N/A

TABLE 5-31-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Adult Resident

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	5.9E-09	--	5.9E-09	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	5.9E-09					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	5.9E-09						
												Total LOAEL HI =	N/A

TABLE 5-32-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Adolescent Resident

Scenario Timeframe: Current/Future
Receptor Population: Resident
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	3.5E-07	--	3.5E-07	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	3.5E-07					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	3.5E-07						
												Total LOAEL HI =	N/A

TABLE 5-32-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Adolescent Resident

Scenario Timeframe: Current/Future
Receptor Population: Resident
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	3.9E-09	--	3.9E-09	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	3.9E-09					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	3.9E-09						
												Total LOAEL HI =	N/A

TABLE 5-33-RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

UPPER HUDSON RIVER - Child Resident

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	3.1E-07	--	3.1E-07	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	3.1E-07					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	3.1E-07						
												Total LOAEL HI =	N/A

TABLE 5-33-CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY EXPOSURE

UPPER HUDSON RIVER - Child Resident

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

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
River Water	Outdoor Air	Upper Hudson River -- Volatilized PCBs	PCBs	--	6.8E-09	--	6.8E-09	PCBs	LOAEL	--	N/A	--	N/A
						Total Risk Across Air	6.8E-09					Total Hazard Index Across All Media and All Exposure Routes	N/A
						Total Risk Across All Media and All Exposure Routes	6.8E-09						
												Total LOAEL HI =	N/A

Table 5-34
Total (Tri+) PCB Concentrations - Phase 2 Fish Data - Upper Hudson

Fish Sample	Species	River Mile	Concentration (ug/kg wet weight)
EC-F09-0001	SPOT	159	1,770
EC-F09-0002	SPOT	159	1,823
EC-F09-0003	SPOT	159	1,380
EC-F08-0001	LMB	169.5	2,719
EC-F08-0002	LMB	169.5	4,788
EC-F08-0003	LMB	169.5	3,554
EC-F08-0001	PKSD	169.5	5,900
EC-F08-0002	PKSD	169.5	9,765
EC-F08-0003	PKSD	169.5	12,550
EC-F08-0004	PKSD	169.5	10,292
EC-F08-0005	PKSD	169.5	11,173
EC-F08-0001	SPOT	169.5	1,899
EC-F08-0002	SPOT	169.5	1,828
EC-F08-0003	SPOT	169.5	1,442
EC-F08-0001	YP	169.5	10,710
EC-F08-0002	YP	169.5	9,926
EC-F08-0003	YP	169.5	15,208
EC-F08-0004	YP	169.5	21,207
EC-F08-0005	YP	169.5	20,421
EC-F04-0001	LMB	189.5	15,522
EC-F04-0002	LMB	189.5	23,287
EC-F04-0003	LMB	189.5	14,070
EC-F04-0001	PKSD	189.5	40,174
EC-F04-0002	PKSD	189.5	41,422
EC-F04-0003	PKSD	189.5	33,657
EC-F04-0004	PKSD	189.5	56,776
EC-F04-0005	PKSD	189.5	48,177
EC-F04-0001	SPOT	189.5	20,957
EC-F04-0002	SPOT	189.5	11,514
EC-F04-0003	SPOT	189.5	8,799
EC-F04-0001	YP	189.5	35,884
EC-F04-0002	YP	189.5	23,588
EC-F04-0003	YP	189.5	16,057
EC-F04-0004	YP	189.5	19,213
EC-F04-0005	YP	189.5	13,590
EC-F03-0001	PKSD	191.5	14,045
EC-F03-0002	PKSD	191.5	11,090
EC-F03-0003	PKSD	191.5	7,528
EC-F03-0004	PKSD	191.5	12,543
EC-F03-0005	PKSD	191.5	12,178
EC-F03-0006	PKSD	191.5	13,696
EC-F03-0001	SPOT	191.5	4,394
EC-F03-0002	SPOT	191.5	3,167
EC-F03-0003	SPOT	191.5	3,215
EC-F03-0001	YP	191.5	8,797
EC-F03-0002	YP	191.5	26,629
EC-F03-0003	YP	191.5	17,816
EC-F03-0004	YP	191.5	31,776
EC-F03-0005	YP	191.5	28,577
EC-F02-0001	LMB	194.1	17,355
EC-F02-0002	LMB	194.1	7,174
EC-F02-0003	LMB	194.1	6,332
EC-F02-0001	PKSD	194.1	28,859
EC-F02-0002	PKSD	194.1	26,488
EC-F02-0001	SPOT	194.1	23,711
EC-F02-0002	SPOT	194.1	16,420
EC-F02-0003	SPOT	194.1	15,279
EC-F02-0001	YP	194.1	40,163
EC-F02-0002	YP	194.1	48,526
EC-F02-0003	YP	194.1	45,172
EC-F02-0004	YP	194.1	31,330
EC-F02-0005	YP	194.1	47,196
EC-F20-0001	BB	196.9	8,000

Table 5-35
Fraction of Dioxin-Like PCB Congeners in Upper Hudson Fish

			Ratio of Congener Concentration to Total (Tri+) PCB Concentration													
Fish Sample	Species	River Mile	77	105	114	118	123	126	156	157	167	169	189	170	180	Total
EC-F09-0001	SPOT	159	3.4E-03	1.7E-02	2.0E-03	3.7E-02	0.0E+00	0.0E+00	2.4E-03	1.1E-03	1.8E-03	0.0E+00	2.2E-04	3.4E-03	8.0E-03	7.6E-02
EC-F09-0002	SPOT	159	3.4E-03	1.7E-02	2.0E-03	3.7E-02	0.0E+00	0.0E+00	2.8E-03	6.1E-04	1.8E-03	0.0E+00	2.2E-04	3.4E-03	8.3E-03	7.6E-02
EC-F09-0003	SPOT	159	3.1E-03	1.8E-02	2.0E-03	3.8E-02	0.0E+00	9.8E-05	2.8E-03	2.7E-04	1.5E-03	0.0E+00	8.4E-05	3.1E-03	8.7E-03	7.7E-02
EC-F08-0001	LMB	169.5	3.4E-03	2.1E-02	2.2E-03	4.0E-02	0.0E+00	2.3E-04	2.8E-03	8.1E-04	1.0E-03	0.0E+00	1.5E-04	3.3E-03	9.0E-03	8.4E-02
EC-F08-0002	LMB	169.5	2.8E-03	1.8E-02	2.1E-03	4.2E-02	0.0E+00	2.2E-04	3.0E-03	5.0E-04	2.0E-03	0.0E+00	1.6E-04	3.7E-03	9.4E-03	8.3E-02
EC-F08-0003	LMB	169.5	2.8E-03	1.6E-02	2.0E-03	3.7E-02	0.0E+00	2.7E-04	2.9E-03	5.9E-04	1.8E-03	0.0E+00	1.4E-04	3.5E-03	9.3E-03	7.7E-02
EC-F08-0001	PKSD	169.5	3.3E-03	1.2E-02	1.3E-03	2.6E-02	0.0E+00	2.3E-04	1.9E-03	3.1E-04	8.6E-04	0.0E+00	0.0E+00	1.5E-03	3.1E-03	5.1E-02
EC-F08-0002	PKSD	169.5	3.3E-03	1.1E-02	1.1E-03	2.4E-02	0.0E+00	0.0E+00	1.5E-03	1.1E-04	6.2E-04	0.0E+00	0.0E+00	1.1E-03	2.4E-03	4.5E-02
EC-F08-0003	PKSD	169.5	3.6E-03	1.3E-02	1.6E-03	2.7E-02	0.0E+00	7.7E-05	1.4E-03	1.3E-04	7.8E-04	0.0E+00	4.8E-05	1.2E-03	2.8E-03	5.1E-02
EC-F08-0004	PKSD	169.5	3.0E-03	1.3E-02	7.7E-04	3.1E-02	9.2E-04	9.2E-04	1.8E-03	2.4E-04	9.9E-04	0.0E+00	0.0E+00	1.5E-03	4.0E-03	5.8E-02
EC-F08-0005	PKSD	169.5	3.0E-03	1.4E-02	9.9E-04	3.0E-02	8.4E-04	0.0E+00	1.7E-03	2.7E-04	8.1E-04	0.0E+00	0.0E+00	1.5E-03	3.5E-03	5.7E-02
EC-F08-0001	SPOT	169.5	2.5E-03	1.7E-02	1.9E-03	3.7E-02	0.0E+00	0.0E+00	2.6E-03	3.0E-04	1.7E-03	0.0E+00	0.0E+00	2.6E-03	7.5E-03	7.4E-02
EC-F08-0002	SPOT	169.5	2.9E-03	1.6E-02	1.8E-03	3.5E-02	0.0E+00	0.0E+00	2.5E-03	2.8E-04	1.7E-03	0.0E+00	0.0E+00	2.6E-03	7.1E-03	7.0E-02
EC-F08-0003	SPOT	169.5	2.8E-03	1.6E-02	1.9E-03	3.6E-02	0.0E+00	0.0E+00	2.6E-03	2.6E-04	1.8E-03	0.0E+00	0.0E+00	2.9E-03	8.2E-03	7.3E-02
EC-F08-0001	YP	169.5	2.9E-03	1.7E-02	3.6E-03	3.5E-02	1.2E-03	0.0E+00	2.5E-03	3.4E-04	1.4E-03	0.0E+00	1.0E-04	2.3E-03	5.9E-03	7.2E-02
EC-F08-0002	YP	169.5	2.8E-03	1.7E-02	2.0E-03	3.6E-02	0.0E+00	0.0E+00	2.4E-03	1.6E-04	1.2E-03	0.0E+00	0.0E+00	2.1E-03	5.1E-03	6.8E-02
EC-F08-0003	YP	169.5	3.1E-03	1.6E-02	1.8E-03	3.2E-02	0.0E+00	7.7E-05	2.3E-03	3.7E-04	1.0E-03	0.0E+00	0.0E+00	1.8E-03	4.2E-03	6.2E-02
EC-F08-0004	YP	169.5	3.0E-03	1.2E-02	3.1E-03	2.3E-02	9.9E-04	0.0E+00	1.9E-03	2.7E-04	9.0E-04	0.0E+00	7.7E-05	1.6E-03	3.8E-03	5.0E-02
EC-F08-0005	YP	169.5	3.2E-03	1.3E-02	1.8E-03	2.7E-02	0.0E+00	8.8E-05	1.7E-03	2.1E-04	8.6E-04	1.2E-05	6.7E-05	1.5E-03	3.9E-03	5.4E-02
EC-F04-0001	LMB	189.5	5.8E-03	1.7E-02	2.0E-03	3.0E-02	1.2E-04	1.4E-04	1.8E-03	4.8E-04	1.0E-03	0.0E+00	8.1E-05	1.8E-03	4.6E-03	6.6E-02
EC-F04-0002	LMB	189.5	7.3E-03	2.3E-02	3.7E-03	4.3E-02	7.6E-04	1.9E-04	3.2E-03	7.9E-04	1.8E-03	0.0E+00	1.3E-04	3.1E-03	7.0E-03	9.4E-02
EC-F04-0003	LMB	189.5	6.7E-03	2.4E-02	3.5E-03	4.5E-02	5.9E-04	1.7E-04	3.2E-03	7.8E-04	1.8E-03	0.0E+00	1.3E-04	3.2E-03	7.3E-03	9.6E-02
EC-F04-0001	PKSD	189.5	5.3E-03	1.2E-02	1.4E-03	2.4E-02	0.0E+00	7.9E-05	1.3E-03	2.5E-04	6.1E-04	0.0E+00	5.7E-05	1.0E-03	2.2E-03	4.9E-02
EC-F04-0002	PKSD	189.5	4.4E-03	1.2E-02	1.5E-03	2.6E-02	0.0E+00	8.9E-05	1.5E-03	1.4E-04	7.8E-04	0.0E+00	6.7E-05	1.3E-03	2.6E-03	5.0E-02
EC-F04-0003	PKSD	189.5	5.3E-03	1.2E-02	1.4E-03	2.5E-02	0.0E+00	1.1E-04	1.3E-03	1.9E-04	6.1E-04	0.0E+00	5.2E-05	9.6E-04	2.2E-03	4.9E-02
EC-F04-0004	PKSD	189.5	6.0E-03	1.4E-02	1.6E-03	2.6E-02	1.1E-04	8.7E-05	1.3E-03	9.6E-05	6.6E-04	0.0E+00	4.1E-05	9.0E-04	2.0E-03	5.2E-02
EC-F04-0005	PKSD	189.5	6.4E-03	1.5E-02	1.6E-03	2.7E-02	2.2E-04	1.0E-04	1.1E-03	3.1E-04	6.5E-04	0.0E+00	3.9E-05	8.8E-04	2.0E-03	5.5E-02
EC-F04-0001	SPOT	189.5	8.0E-03	2.3E-02	2.9E-03	4.1E-02	3.5E-04	0.0E+00	2.4E-03	5.1E-04	1.4E-03	0.0E+00	9.7E-05	2.1E-03	4.5E-03	8.5E-02
EC-F04-0002	SPOT	189.5	7.0E-03	2.4E-02	2.5E-03	4.5E-02	0.0E+00	0.0E+00	2.4E-03	3.0E-04	1.5E-03	0.0E+00	1.7E-04	2.2E-03	4.9E-03	9.0E-02
EC-F04-0003	SPOT	189.5	7.1E-03	2.4E-02	2.5E-03	4.0E-02	0.0E+00	0.0E+00	2.6E-03	3.6E-04	1.4E-03	0.0E+00	2.0E-04	2.5E-03	5.4E-03	8.6E-02
EC-F04-0001	YP	189.5	3.6E-03	1.4E-02	2.8E-03	2.8E-02	1.0E-03	3.3E-05	2.0E-03	3.7E-04	9.6E-04	0.0E+00	6.4E-05	1.7E-03	3.6E-03	5.8E-02
EC-F04-0002	YP	189.5	2.0E-03	8.2E-03	1.1E-03	1.9E-02	0.0E+00	0.0E+00	1.2E-03	7.9E-05	7.5E-04	0.0E+00	5.8E-05	1.1E-03	2.4E-03	3.6E-02
EC-F04-0003	YP	189.5	4.1E-03	1.7E-02	3.4E-03	3.4E-02	1.1E-03	0.0E+00	2.2E-03	4.0E-04	1.2E-03	0.0E+00	8.3E-05	1.9E-03	4.9E-03	7.0E-02
EC-F04-0004	YP	189.5	5.5E-03	1.6E-02	2.6E-03	3.1E-02	0.0E+00	1.1E-04	2.1E-03	5.0E-04	1.0E-03	0.0E+00	7.7E-05	1.9E-03	4.1E-03	6.5E-02
EC-F04-0005	YP	189.5	4.4E-03	1.9E-02	2.2E-03	3.8E-02	0.0E+00	0.0E+00	2.4E-03	2.9E-04	1.4E-03	0.0E+00	1.5E-04	2.0E-03	4.6E-03	7.5E-02
EC-F03-0001	PKSD	191.5	5.9E-03	1.7E-02	2.5E-03	3.8E-02	0.0E+00	1.2E-04	2.2E-03	4.2E-04	1.0E-03	0.0E+00	7.2E-05	1.5E-03	3.6E-03	7.2E-02
EC-F03-0002	PKSD	191.5	5.6E-03	1.7E-02	2.6E-03	3.6E-02	0.0E+00	1.3E-04	2.5E-03	1.7E-04	1.1E-03	0.0E+00	8.6E-05	1.8E-03	4.1E-03	7.2E-02
EC-F03-0003	PKSD	191.5	4.8E-03	1.8E-02	1.4E-03	3.7E-02	0.0E+00	2.1E-04	2.6E-03	3.9E-04	1.2E-03	0.0E+00	2.4E-04	1.7E-03	3.7E-03	7.1E-02
EC-F03-0004	PKSD	191.5	5.1E-03	1.7E-02	2.7E-03	4.0E-02	0.0E+00	1.2E-04	2.3E-03	3.5E-04	1.1E-03	0.0E+00	7.4E-05	1.7E-03	3.8E-03	7.5E-02
EC-F03-0005	PKSD	191.5	3.7E-03	1.5E-02	1.7E-03	3.0E-02	0.0E+00	1.8E-04	1.6E-03	1.3E-04	8.4E-04	0.0E+00	5.7E-05	1.2E-03	2.7E-03	5.7E-02
EC-F03-0006	PKSD	191.5	4.2E-03	1.6E-02	1.4E-03	3.5E-02	0.0E+00	1.8E-04	2.2E-03	3.6E-04	1.1E-03	0.0E+00	1.6E-04	1.6E-03	3.3E-03	6.6E-02
EC-F03-0001	SPOT	191.5	4.5E-03	2.3E-02	2.5E-03	4.6E-02	0.0E+00	1.3E-04	3.1E-03	1.3E-04	1.8E-03	0.0E+00	0.0E+00	2.5E-03	5.8E-03	8.9E-02
EC-F03-0002	SPOT	191.5	3.9E-03	2.5E-02	2.9E-03	4.9E-02	0.0E+00	1.3E-04	3.5E-03	1.8E-04	2.2E-03	0.0E+00	7.8E-05	3.0E-03	7.2E-03	9.8E-02

Table 5-35
Fraction of Dioxin-Like PCB Congeners in Upper Hudson Fish

			Ratio of Congener Concentration to Total (Tri+) PCB Concentration													
Fish Sample	Species	River Mile	77	105	114	118	123	126	156	157	167	169	189	170	180	Total
EC-F03-0003	SPOT	191.5	3.5E-03	2.2E-02	2.6E-03	4.5E-02	1.1E-03	1.3E-04	2.7E-03	1.1E-03	1.8E-03	0.0E+00	2.1E-04	3.0E-03	6.9E-03	9.0E-02
EC-F03-0001	YP	191.5	1.8E-03	9.5E-03	1.1E-03	2.8E-02	0.0E+00	0.0E+00	2.7E-03	5.5E-04	1.8E-03	0.0E+00	2.8E-04	5.2E-03	1.5E-02	6.6E-02
EC-F03-0002	YP	191.5	5.8E-03	2.1E-02	3.3E-03	3.9E-02	3.1E-04	1.4E-04	3.0E-03	2.8E-04	1.3E-03	0.0E+00	8.7E-05	2.2E-03	4.8E-03	8.2E-02
EC-F03-0003	YP	191.5	4.6E-03	2.2E-02	3.1E-03	4.0E-02	2.6E-04	1.2E-04	2.8E-03	2.8E-04	1.2E-03	0.0E+00	7.6E-05	2.0E-03	4.5E-03	8.1E-02
EC-F03-0004	YP	191.5	5.1E-03	2.0E-02	2.6E-03	3.7E-02	2.1E-04	1.3E-04	3.4E-05	0.0E+00	9.3E-04	0.0E+00	5.8E-05	1.5E-03	3.1E-03	7.0E-02
EC-F03-0005	YP	191.5	5.0E-03	2.2E-02	3.2E-03	4.0E-02	2.9E-04	1.3E-04	2.8E-03	3.5E-04	1.3E-03	0.0E+00	7.9E-05	2.1E-03	4.6E-03	8.2E-02
EC-F02-0001	LMB	194.1	4.9E-03	2.1E-02	3.2E-03	4.4E-02	2.6E-04	1.1E-04	3.2E-03	5.3E-04	1.8E-03	0.0E+00	1.3E-04	3.0E-03	6.6E-03	8.9E-02
EC-F02-0002	LMB	194.1	5.3E-03	1.6E-02	1.3E-03	3.1E-02	8.6E-05	0.0E+00	2.0E-03	3.4E-04	1.2E-03	0.0E+00	1.0E-04	2.0E-03	4.8E-03	6.4E-02
EC-F02-0003	LMB	194.1	4.6E-03	1.4E-02	1.6E-03	2.9E-02	0.0E+00	0.0E+00	1.8E-03	5.0E-04	1.2E-03	0.0E+00	1.2E-04	2.1E-03	5.3E-03	6.1E-02
EC-F02-0001	PKSD	194.1	9.7E-03	1.4E-02	3.4E-03	2.7E-02	4.0E-04	6.3E-04	2.7E-03	3.8E-04	1.4E-03	0.0E+00	9.3E-05	2.0E-03	4.6E-03	6.7E-02
EC-F02-0002	PKSD	194.1	5.4E-03	1.5E-02	2.1E-03	3.1E-02	2.5E-04	8.2E-05	1.6E-03	4.0E-04	7.8E-04	0.0E+00	6.5E-05	1.3E-03	2.9E-03	6.0E-02
EC-F02-0001	SPOT	194.1	6.2E-03	2.0E-02	2.4E-03	4.1E-02	3.9E-04	0.0E+00	2.0E-03	3.5E-04	1.3E-03	0.0E+00	8.6E-05	2.0E-03	4.4E-03	8.0E-02
EC-F02-0002	SPOT	194.1	4.8E-03	2.1E-02	2.5E-03	4.3E-02	6.5E-05	0.0E+00	2.1E-03	1.2E-04	1.3E-03	0.0E+00	8.9E-05	1.9E-03	4.4E-03	8.1E-02
EC-F02-0003	SPOT	194.1	5.5E-03	1.9E-02	2.5E-03	3.9E-02	1.9E-04	0.0E+00	2.0E-03	2.4E-04	1.2E-03	0.0E+00	7.8E-05	1.9E-03	4.3E-03	7.5E-02
EC-F02-0001	YP	194.1	4.7E-03	1.5E-02	2.5E-03	2.9E-02	1.2E-03	0.0E+00	2.0E-03	3.9E-04	9.4E-04	0.0E+00	5.2E-05	1.3E-03	3.0E-03	6.1E-02
EC-F02-0002	YP	194.1	5.2E-03	1.8E-02	2.2E-03	3.5E-02	3.0E-04	0.0E+00	1.6E-03	2.4E-04	8.8E-04	0.0E+00	5.7E-05	1.3E-03	3.0E-03	6.8E-02
EC-F02-0003	YP	194.1	1.1E-03	2.0E-02	4.4E-04	3.7E-02	5.3E-05	0.0E+00	3.3E-04	2.9E-05	1.7E-04	0.0E+00	1.2E-05	2.5E-04	5.6E-04	6.0E-02
EC-F02-0004	YP	194.1	5.2E-03	1.8E-02	2.7E-03	3.2E-02	1.1E-03	0.0E+00	1.8E-03	3.3E-04	9.0E-04	0.0E+00	5.6E-05	1.3E-03	3.2E-03	6.6E-02
EC-F02-0005	YP	194.1	5.5E-03	1.7E-02	2.4E-03	3.2E-02	1.3E-04	0.0E+00	1.8E-03	2.5E-04	9.0E-04	0.0E+00	6.0E-05	1.3E-03	2.9E-03	6.5E-02
EC-F20-0001	BB	196.9	2.5E-03	2.3E-02	2.6E-03	5.1E-02	2.5E-04	1.4E-04	3.5E-03	4.0E-04	2.4E-03	0.0E+00	7.5E-05	3.0E-03	7.0E-03	9.6E-02
		Average	4.5E-03	1.7E-02	2.2E-03	3.5E-02	2.4E-04	9.7E-05	2.2E-03	3.5E-04	1.2E-03	1.8E-07	8.6E-05	2.0E-03	4.9E-03	7.0E-02
		Std. Dev.	1.6E-03	3.9E-03	7.4E-04	6.9E-03	3.8E-04	1.5E-04	7.0E-04	2.2E-04	4.5E-04	1.5E-06	6.5E-05	8.6E-04	2.4E-03	1.8E-02

Table 5-36
Dioxin TEQs for Dioxin-Like PCB Congeners

Congener	Structure	Average Congener / Total PCB Ratio	Congener Concentration High End Estimate (2.2 mg/kg total PCBs)	1998 WHO/ IPCS TEFs (Van den Berg *et al*., 1998)	Dioxin TEQ High End Estimate
Non-ortho PCBs					
77	3,3',4,4'-TCB	0.0045	9.90E-03	0.0001	9.90E-07
81	3,4,4',5-TCB	na	na	0.0001	na
126	3,3',4,4',5-PeCB	0.000097	2.13E-04	0.1	2.13E-05
169	3,3',4,4',5,5'-HxCB	0.00000018	3.96E-07	0.01	3.96E-09
Mono-ortho PCBs					
105	2,3,3',4,4'-PeCB	0.017	3.74E-02	0.0001	3.74E-06
114	2,3,4,4',5-PeCB	0.0022	4.84E-03	0.0005	2.42E-06
118	2,3',4,4',5-PeCB	0.035	7.70E-02	0.0001	7.70E-06
123	2',3,4,4',5-PeCB	0.00024	5.28E-04	0.0001	5.28E-08
156	2,3,3',4,4',5-HxCB	0.0022	4.84E-03	0.0005	2.42E-06
157	2,3,3',4,4',5'-HxCB	0.00035	7.70E-04	0.0005	3.85E-07
167	2,3',4,4',5,5'-HxCB	0.0012	2.64E-03	0.00001	2.64E-08
189	2,3,3',4,4',5,5'-HpCB	0.000086	1.89E-04	0.0001	1.89E-08
	Sum of Dioxin-Like PCB Congeners (mg/kg)		0.14		3.9E-05
	Sum of Non-Dioxin-Like PCB Congeners (mg/kg)		2.1		--

Table 5-37
Risk Estimates for Dioxin and Non-dioxin-like PCBs
Angler Ingestion of Fish

Chemical Name	C_{fish} (mg/kg wet weight)	IR_{fish} (g/d)	FS	EF (d/yr)	ED (yrs)	Conversion Factor (kg/g)	BW (kg)	AT_{Cancer} (d)	Lifetime Avg. Daily Intake (Cancer) (mg/kg-d)	Oral Slope Factor $(mg/kg\text{-}d)^{-1}$	Cancer Risk
High-End*											
Dioxin TEQ	3.9E-05	31.9	1	365	40	1.0E-03	70	25,550	1.0E-08	150,000	1.5E-03
Non-dioxin-like PCBs	2.1	31.9	1	365	40	1.0E-03	70	25,550	5.4E-04	2	1.1E-03

Notes:

Average Daily Intake Equation: $\text{Risk} = \frac{(Cfish \times IRfish \times FS \times EF \times ED \times \text{Conversion Factor})}{(BW \times AT)} \times \text{Slope Factor}$

For dioxin, only a plausible upper bound slope factor is available; therefore, a central-tendency estimate was not calculated.

Table 5-38
Comparison of Point Estimate and Monte Carlo Non-cancer Hazard Index Estimates for Fish Ingestion

	Point Estimate HI	Monte Carlo Estimate HI	Monte Carlo Scenario
Central Estimate	10	11.4	Base - 50th percentile
		1.8	Low - 50th percentile
		51.5	High - 50th percentile
High-End Estimate	116	137	Base - 95th percentile
(RME)		18.6	Low - 95th percentile
		366	High - 95th percentile

Table 5-39
Comparison of Point Estimate and Monte Carlo Cancer Risk Estimates for Fish Ingestion

	Point Estimate	Monte Carlo Estimate	Monte Carlo Scenario
Central Estimate	3.4×10^{-5}	6.4×10^{-5}	Base - 50th percentile
		9.7×10^{-6}	Low - 50th percentile
		4.1×10^{-4}	High - 50th percentile
High-End Estimate	1.1×10^{-3}	8.7×10^{-4}	Base - 95th percentile
(RME)		1.1×10^{-4}	Low - 95th percentile
		3.1×10^{-3}	High - 95th percentile