

Table 1-2 Summary of the Phase II CSA Risk Characterization

Human Health				Environmental		
	Receptor Potentially at Risk	Exposure Medium	Constituents Posing Potential Risk	Receptor/Community Potentially at Risk	Exposure Medium	Constituents Posing Potential Risk
Terrestrial						
Upper North Area	No Significant Risks			Soil Invertebrates, Terrestrial Plants, and Microbial Communities	Surface Soils	Cu, THg, Ni, Zn
Lower North Area	No Significant Risks			No Significant Risks		
Flood Plain Area	No Significant Risks			Insectivorous Birds – American Woodcock	Surface Soils	Pb, Se
Potential Greenway Area	No Significant Risks			Insectivorous Birds – American Woodcock	Surface Soils	THg
				Insectivorous Small Mammals – Short-tailed Shrew	Soil Invertebrates, Surface Soils	Th
Central Commercial Area	No Significant Risks			No Significant Risks		
Southern Conservation Commission Area	No Significant Risks			Insectivorous Birds – American Woodcock	Surface Soils	Ba, THg, Pb, di-n-octylphthalate
				Soil Invertebrates, Terrestrial Plants and Microbial Communities	Surface Soils	Cu, THg, Ni, Zn
Southern Disposal Area	Construction Worker, Utility Worker	Soil (0-6 ft bgs)	Cr, Pb, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE	Insectivorous Birds – American Woodcock	Surface Soils	As, Ba, Cr, Cu, THg, Pb, Se, Zn
	Adult Recreational User, Child Recreational User	Surface Soil (0-3 ft bgs)	1,1-DCE	Carnivorous Bird – Red-tailed Hawk	Surface Soils	Ba, Cr, Pb, Zn
				Insectivorous Small Mammals – Short-tailed Shrew	Soil Invertebrates, Surface Soils	Cu, Sb, Zn
				Soil Invertebrates, Terrestrial Plants and Microbial Communities	Surface Soils	Cu, THg, Ni, Zn
Cold Waste Area	Child Recreational User	Surface Soil (0-3 ft bgs)	Sb, Ba, Pb	Insectivorous Birds – American Woodcock	Surface Soils	As, Ba, Co, Cu, THg, Pb, Se
				Insectivorous Small Mammals – Short-tailed Shrew	Soil Invertebrates, Surface Soils	As, Ba, Co, Cu, Sb, Zn, Th, hexachloro-benzene
Marsh Upland Area	Construction Worker	Soil (0-6 ft bgs)	THg	Insectivorous Birds – American Woodcock	Surface Soils	THg, Pb
				Carnivorous Bird – Red-tailed Hawk	Surface Soils	Ba, Cr, Pb, Zn
				Soil Invertebrates, Terrestrial Plants and Microbial Communities	Surface Soils	Cu, THg, Ni, Zn

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Aquatic						
Upper Drinkwater River Corridor	No Significant Risks			No Significant Risks		
Eastern Channel Corridor	Trespasser Fisherman Fisherman	Sediment Sediment Fish Tissue	THg , B(a)P	Freshwater Benthic Macroinvertebrates	Sediment	THg, MeHg
			THg, B(a)P, D(a,h)A	Warm Water Freshwater Fish	Biota	MeHg
			THg, MeHg	Piscivorous Birds – Belted Kingfisher	Biota	MeHg
				Omnivorous Waterfowl – Mallard	Sediment, Biota	THg
				Herbivorous Waterfowl – Mute Swan	Sediment	MeHg
				Piscivorous Mammal – Mink	Biota	MeHg
				Omnivorous Mammal – Raccoon	Sediment, Aquatic Biota	Sb, THg
				Herbivorous Mammal – Muskrat	Aquatic plants, sediment	Sb, Pb, MeHg
Lower Drinkwater River Corridor	Fisherman	Sediment	B(a)P, Vinyl chloride	Freshwater Benthic Macroinvertebrates	Sediment	THg, MeHg
	Fisherman	Fish Tissue	THg, MeHg	Piscivorous Birds – Belted Kingfisher	Biota	MeHg
				Omnivorous Waterfowl – Mallard	Sediment, Biota	THg
				Piscivorous Mammal – Mink	Biota	MeHg
				Herbivorous Mammal – Muskrat	Aquatic plants, sediment	Sb, Pb, MeHg
				Herbivorous Waterfowl – Mute Swan	Sediment	MeHg
				Reptile Communities – Snapping Turtles	Sediment	THg
Lily Pond/Upper Factory Pond Area	Fisherman	Sediment	B(a)P	Piscivorous Birds – Belted Kingfisher	Biota	MeHg
	Fisherman	Fish Tissue	THg, MeHg	Herbivorous Waterfowl – Mute Swan	Sediment	MeHg
				Piscivorous Mammal – Mink	Biota	MeHg
				Herbivorous Mammal – Muskrat	Aquatic plants, sediment	Sb, Pb, MeHg
				Reptile Communities – Snapping Turtles	Sediment	THg
Middle/Lower Factory Pond Area	Fisherman	Fish Tissue	THg, MeHg	Piscivorous Birds – Belted Kingfisher	Biota	MeHg
				Herbivorous Waterfowl – Mute Swan	Sediment	MeHg
				Piscivorous Mammal – Mink	Biota	MeHg
				Herbivorous Mammal – Muskrat	Aquatic plants, sediment	Sb, Pb, MeHg
				Reptile Communities – Snapping Turtles	Sediment	THg

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Marsh Upland Area	No Significant Risks			Freshwater Benthic Macroinvertebrates	Sediment	THg, MeHg
				Omnivorous Waterfowl – Mallard	Sediment, Biota	THg
				Herbivorous Mammal – Muskrat	Aquatic plants, sediment	Sb, Pb, MeHg
				Herbivorous Waterfowl – Mute Swan	Sediment	Hg, MeHg, Pb

CONSTITUENT ABBREVIATIONS:

1,1-DCE - 1,1-dichloroethene
 As - arsenic
 B(a)P - benzo(a)pyrene
 Ba - barium
 cis-1,2-DCE - cis-1,2-dichloroethene
 Co - cobalt
 Cr - chromium
 Cu - copper
 D(a,h)A - Dibenz(a,h)anthracene
 THg – total mercury
 MeHg - methyl mercury
 Ni - nickel
 Pb - lead
 Sb - antimony
 Se - selenium
 TCE - trichloroethene
 Th - thallium
 trans-1,2-DCE - trans-1,2-dichloroethene
 Zn - zinc