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Human Health and Ecological Risk Results

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Section IX. Pathway Results

This section presents pathway-specific risk results for the subsistence farmer and subsistence fisher. Pathway-specific risk values are presented for the maximum risk sector associated with the modeled maximum risk modeled facility within each combustor category. For the recreational fisher, pathway-specific risk values are also presented for each of the modeled waterbodies associated with the maximum risk facility.

Results are presented for Baseline and all three MACT options. This section is organized by combustor category with results for each of the five primary combustor categories presented in a different subsection (results are not presented for either the waste heat boiler or area source combustor categories). Because these pathway results represent individual risk values for a specific sector/waterbody at a specific modeled facility, confidence intervals reflecting sampling error are not applicable and consequently are not presented.

Due to its size, this section is bound separately as Volumes 3 through 6.

Table IX-A1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	7E-10	2E-10	1E-09	3E-07	4E-06	3E-08	1E-07	7E-08	5E-08		4E-09	4E-06
Nickel												1E-10	
Arsenic	9E-12	3E-12	2E-12	7E-12	1E-11	2E-11	1E-12			5E-11		6E-10	1E-10
Beryllium												2E-11	
Cadmium												1E-09	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	7E-08	3E-07	4E-08	2E-06	4E-09			0E+00		2E-03	3E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	3E-06	3E-07	5E-06	4E-06	5E-05	6E-09						6E-05
Nickel	1E-08	5E-09	2E-09	1E-08	1E-07	1E-06	7E-09			2E-08			1E-06
Silver	7E-10	8E-09	2E-09	2E-08	1E-07	4E-05	4E-09			0E+00			5E-05
Thallium	9E-05	6E-06	4E-07	2E-05	2E-03	5E-03	2E-04			3E-03			1E-02
Antimony	3E-07	1E-06	3E-07	2E-06	3E-06	2E-05	1E-07			0E+00			2E-05
Arsenic	2E-07	8E-08	4E-08	2E-07	4E-07	6E-07	3E-08			1E-06			3E-06
Barium	1E-06	1E-07	3E-08	2E-07	6E-08	7E-06	9E-09			0E+00		1E-04	9E-06
Beryllium	5E-08	7E-10	1E-10	2E-09	7E-09	3E-10	3E-09			3E-09			7E-08
Cadmium	1E-06	1E-06	6E-07	3E-06	1E-07	4E-07	2E-08			6E-05			7E-05
Chromium VI	3E-08	9E-09	4E-09	2E-08	3E-07	5E-06	2E-08			5E-08			5E-06
Chromium III	3E-08	3E-10	2E-10	8E-10	2E-08	3E-07	8E-09			3E-12			3E-07
Cobalt	3E-08	6E-09	4E-11	1E-08	5E-07	3E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												2E-03	
Selenium	7E-09	4E-09	5E-09	1E-08	7E-08	6E-06	3E-07			8E-05			9E-05
Chlorine												1E-01	
Methylmercury - Developmental Effects	1E-07	9E-07	3E-08	9E-07	2E-06	3E-05	6E-10			2E-05			5E-05
Methylmercury - Neurological Effects	5E-08	3E-07	1E-08	3E-07	6E-07	9E-06	2E-10			6E-06			2E-05

Table IX-A1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	5E-10	2E-10	2E-09	5E-07	2E-06	2E-08	1E-07	8E-08	5E-08		4E-09	3E-06
Nickel												2E-10	
Arsenic	3E-12	2E-12	1E-12	9E-12	2E-11	2E-11	1E-12			5E-11		7E-10	1E-10
Beryllium												3E-11	
Cadmium												1E-09	
Chromium VI												7E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-08	8E-08	5E-08	3E-07	5E-08	1E-06	2E-09			0E+00		2E-03	2E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	1E-06	2E-07	5E-06	5E-06	3E-05	4E-09						4E-05
Nickel	3E-09	3E-09	2E-09	1E-08	1E-07	5E-07	4E-09			1E-08			7E-07
Silver	2E-10	4E-09	2E-09	2E-08	1E-07	2E-05	3E-09			0E+00			2E-05
Thallium	2E-05	3E-06	3E-07	2E-05	2E-03	3E-03	1E-04			2E-03			7E-03
Antimony	9E-08	6E-07	2E-07	2E-06	3E-06	9E-06	8E-08			0E+00			2E-05
Arsenic	6E-08	5E-08	3E-08	2E-07	4E-07	3E-07	2E-08			9E-07			2E-06
Barium	3E-07	7E-08	2E-08	2E-07	7E-08	4E-06	6E-09			0E+00		1E-04	4E-06
Beryllium	1E-08	4E-10	1E-10	2E-09	9E-09	1E-10	2E-09			2E-09			3E-08
Cadmium	3E-07	7E-07	4E-07	2E-06	1E-07	2E-07	1E-08			4E-05			5E-05
Chromium VI	9E-09	5E-09	3E-09	2E-08	4E-07	3E-06	1E-08			4E-08			3E-06
Chromium III	9E-09	2E-10	2E-10	8E-10	3E-08	1E-07	5E-09			2E-12			2E-07
Cobalt	8E-09	3E-09	3E-11	1E-08	6E-07	1E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												2E-03	
Selenium	2E-09	2E-09	3E-09	1E-08	9E-08	3E-06	2E-07			6E-05			6E-05
Chlorine												1E-01	
Methylmercury - Developmental Effects	4E-08	5E-07	2E-08	8E-07	2E-06	1E-05	4E-10			1E-05			3E-05
Methylmercury - Neurological Effects	1E-08	2E-07	8E-09	3E-07	8E-07	5E-06	1E-10			5E-06			1E-05

Table IX-A1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	4E-10	1E-10	9E-10	2E-07	1E-06	1E-08	8E-08	4E-08	3E-08		3E-09	2E-06
Nickel												1E-10	
Arsenic	2E-12	2E-12	1E-12	5E-12	1E-11	8E-12	7E-13			3E-11		4E-10	6E-11
Beryllium												2E-11	
Cadmium												8E-10	
Chromium VI												5E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	4E-08	1E-07	2E-08	5E-07	1E-09			0E+00		2E-03	8E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	3E-07	1E-06	1E-07	3E-06	2E-06	1E-05	2E-09			0E+00			2E-05
Nickel	2E-09	2E-09	1E-09	6E-09	6E-08	2E-07	3E-09			8E-09			3E-07
Silver	9E-11	3E-09	1E-09	1E-08	6E-08	1E-05	2E-09			0E+00			1E-05
Thallium	1E-05	3E-06	2E-07	9E-06	1E-03	1E-03	9E-05			1E-03			4E-03
Antimony	5E-08	5E-07	2E-07	1E-06	2E-06	4E-06	5E-08			0E+00			8E-06
Arsenic	3E-08	4E-08	2E-08	9E-08	2E-07	1E-07	1E-08			5E-07			1E-06
Barium	2E-07	5E-08	2E-08	1E-07	3E-08	2E-06	4E-09			0E+00		1E-04	2E-06
Beryllium	7E-09	3E-10	7E-11	8E-10	4E-09	7E-11	1E-09			1E-09			1E-08
Cadmium	2E-07	6E-07	3E-07	1E-06	6E-08	9E-08	8E-09			2E-05			3E-05
Chromium VI	5E-09	4E-09	2E-09	1E-08	2E-07	1E-06	8E-09			2E-08			1E-06
Chromium III	5E-09	1E-10	1E-10	4E-10	1E-08	6E-08	3E-09			1E-12			8E-08
Cobalt	4E-09	3E-09	2E-11	7E-09	3E-07	6E-07	2E-08			0E+00			9E-07
Hydrogen Chloride												2E-03	
Selenium	9E-10	2E-09	2E-09	6E-09	4E-08	1E-06	1E-07			3E-05			3E-05
Chlorine												1E-01	
Methylmercury - Developmental Effects	2E-08	4E-07	2E-08	4E-07	1E-06	7E-06	2E-10			8E-06			2E-05
Methylmercury - Neurological Effects	6E-09	1E-07	6E-09	1E-07	3E-07	2E-06	8E-11			3E-06			5E-06

Table IX-A1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-10	1E-09	3E-10	2E-09	5E-07	1E-06	2E-08	1E-07	7E-08	6E-08		4E-09	2E-06
Nickel												2E-10	
Arsenic	1E-12	4E-12	2E-12	8E-12	2E-11	7E-12	1E-12			6E-11		6E-10	1E-10
Beryllium												3E-11	
Cadmium												1E-09	
Chromium VI												7E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-09	8E-08	4E-08	1E-07	2E-08	2E-07	1E-09			0E+00		2E-03	5E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	1E-07	2E-06	1E-07	3E-06	2E-06	5E-06	2E-09			0E+00			1E-05
Nickel	6E-10	3E-09	1E-09	6E-09	7E-08	1E-07	2E-09			8E-09			2E-07
Silver	4E-11	4E-09	1E-09	9E-09	7E-08	5E-06	1E-09			0E+00			5E-06
Thallium	5E-06	4E-06	3E-07	8E-06	1E-03	5E-04	8E-05			1E-03			3E-03
Antimony	2E-08	6E-07	2E-07	1E-06	2E-06	2E-06	4E-08			0E+00			6E-06
Arsenic	1E-08	5E-08	2E-08	8E-08	2E-07	6E-08	1E-08			5E-07			1E-06
Barium	7E-08	7E-08	2E-08	1E-07	4E-08	7E-07	3E-09			0E+00		1E-04	1E-06
Beryllium	3E-09	4E-10	8E-11	8E-10	4E-09	3E-11	9E-10			1E-09			1E-08
Cadmium	7E-08	8E-07	4E-07	1E-06	6E-08	4E-08	7E-09			3E-05			3E-05
Chromium VI	2E-09	5E-09	2E-09	1E-08	2E-07	5E-07	7E-09			2E-08			7E-07
Chromium III	2E-09	2E-10	1E-10	4E-10	1E-08	3E-08	3E-09			1E-12			5E-08
Cobalt	2E-09	4E-09	2E-11	7E-09	3E-07	3E-07	1E-08			0E+00			6E-07
Hydrogen Chloride												2E-03	
Selenium	4E-10	2E-09	3E-09	5E-09	4E-08	6E-07	1E-07			4E-05			4E-05
Chlorine												1E-01	
Methylmercury - Developmental Effects	8E-09	5E-07	2E-08	4E-07	1E-06	3E-06	2E-10			8E-06			1E-05
Methylmercury - Neurological Effects	3E-09	2E-07	6E-09	1E-07	4E-07	9E-07	7E-11			3E-06			4E-06

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lawsons Fork Creek	6E-09	3E-08	1E-11	4E-09	3E-08
2,3,7,8-TCDD-TEQ	Tyger River	6E-09	8E-08	1E-11	4E-09	9E-08
2,3,7,8-TCDD-TEQ	Fair Forest Creek	6E-09	6E-08	1E-11	4E-09	7E-08
2,3,7,8-TCDD-TEQ	Middle Tyger River	6E-09	3E-08	1E-11	4E-09	4E-08
Nickel	Lawsons Fork Creek				1E-10	
Nickel	Tyger River				1E-10	
Nickel	Fair Forest Creek				1E-10	
Nickel	Middle Tyger River				1E-10	
Arsenic	Lawsons Fork Creek	9E-12	1E-12	6E-12	6E-10	2E-11
Arsenic	Tyger River	9E-12	2E-12	6E-12	6E-10	2E-11
Arsenic	Fair Forest Creek	9E-12	4E-12	6E-12	6E-10	2E-11
Arsenic	Middle Tyger River	9E-12	6E-13	6E-12	6E-10	2E-11
Beryllium	Lawsons Fork Creek				2E-11	
Beryllium	Tyger River				2E-11	
Beryllium	Fair Forest Creek				2E-11	
Beryllium	Middle Tyger River				2E-11	
Cadmium	Lawsons Fork Creek				1E-09	
Cadmium	Tyger River				1E-09	
Cadmium	Fair Forest Creek				1E-09	
Cadmium	Middle Tyger River				1E-09	
Chromium VI	Lawsons Fork Creek				6E-09	
Chromium VI	Tyger River				6E-09	
Chromium VI	Fair Forest Creek				6E-09	
Chromium VI	Middle Tyger River				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Lawsons Fork Creek	1E-07	0E+00	3E-08	2E-03	2E-07
Manganese	Tyger River	1E-07	0E+00	3E-08	2E-03	2E-07
Manganese	Fair Forest Creek	1E-07	0E+00	3E-08	2E-03	2E-07
Manganese	Middle Tyger River	1E-07	0E+00	3E-08	2E-03	2E-07
Mercury (elemental)	Lawsons Fork Creek				1E-06	
Mercury (elemental)	Tyger River				1E-06	
Mercury (elemental)	Fair Forest Creek				1E-06	
Mercury (elemental)	Middle Tyger River				1E-06	
Mercury (divalent)	Lawsons Fork Creek	2E-06		8E-09		2E-06
Mercury (divalent)	Tyger River	2E-06		8E-09		2E-06
Mercury (divalent)	Fair Forest Creek	2E-06		8E-09		2E-06
Mercury (divalent)	Middle Tyger River	2E-06		8E-09		2E-06
Nickel	Lawsons Fork Creek	1E-08	4E-10	1E-08		2E-08
Nickel	Tyger River	1E-08	8E-10	1E-08		2E-08
Nickel	Fair Forest Creek	1E-08	2E-09	1E-08		2E-08
Nickel	Middle Tyger River	1E-08	2E-10	1E-08		2E-08
Silver	Lawsons Fork Creek	7E-10	0E+00	2E-08		2E-08
Silver	Tyger River	7E-10	0E+00	2E-08		2E-08
Silver	Fair Forest Creek	7E-10	0E+00	2E-08		2E-08
Silver	Middle Tyger River	7E-10	0E+00	2E-08		2E-08
Thallium	Lawsons Fork Creek	9E-05	8E-05	3E-05		2E-04
Thallium	Tyger River	9E-05	2E-04	3E-05		3E-04
Thallium	Fair Forest Creek	9E-05	3E-04	3E-05		5E-04
Thallium	Middle Tyger River	9E-05	5E-05	3E-05		2E-04

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Lawsons Fork Creek	3E-07	0E+00	3E-06		3E-06
Antimony	Tyger River	3E-07	0E+00	3E-06		3E-06
Antimony	Fair Forest Creek	3E-07	0E+00	3E-06		3E-06
Antimony	Middle Tyger River	3E-07	0E+00	3E-06		3E-06
Arsenic	Lawsons Fork Creek	2E-07	3E-08	2E-07		4E-07
Arsenic	Tyger River	2E-07	5E-08	2E-07		4E-07
Arsenic	Fair Forest Creek	2E-07	1E-07	2E-07		5E-07
Arsenic	Middle Tyger River	2E-07	2E-08	2E-07		4E-07
Barium	Lawsons Fork Creek	1E-06	0E+00	2E-08	1E-04	1E-06
Barium	Tyger River	1E-06	0E+00	2E-08	1E-04	1E-06
Barium	Fair Forest Creek	1E-06	0E+00	2E-08	1E-04	1E-06
Barium	Middle Tyger River	1E-06	0E+00	2E-08	1E-04	1E-06
Beryllium	Lawsons Fork Creek	5E-08	7E-10	1E-09		6E-08
Beryllium	Tyger River	5E-08	2E-09	1E-09		6E-08
Beryllium	Fair Forest Creek	5E-08	2E-09	1E-09		6E-08
Beryllium	Middle Tyger River	5E-08	7E-10	1E-09		6E-08
Cadmium	Lawsons Fork Creek	1E-06	2E-06	4E-07		4E-06
Cadmium	Tyger River	1E-06	4E-06	4E-07		5E-06
Cadmium	Fair Forest Creek	1E-06	8E-06	4E-07		9E-06
Cadmium	Middle Tyger River	1E-06	1E-06	4E-07		3E-06
Chromium VI	Lawsons Fork Creek	3E-08	1E-09	3E-08		7E-08
Chromium VI	Tyger River	3E-08	2E-09	3E-08		7E-08
Chromium VI	Fair Forest Creek	3E-08	4E-09	3E-08		7E-08
Chromium VI	Middle Tyger River	3E-08	6E-10	3E-08		7E-08
Chromium III	Lawsons Fork Creek	3E-08	3E-12	3E-12		3E-08
Chromium III	Tyger River	3E-08	1E-11	3E-12		3E-08
Chromium III	Fair Forest Creek	3E-08	7E-12	3E-12		3E-08
Chromium III	Middle Tyger River	3E-08	5E-12	3E-12		3E-08
Cobalt	Lawsons Fork Creek	3E-08	0E+00	3E-12		3E-08
Cobalt	Tyger River	3E-08	0E+00	3E-12		3E-08
Cobalt	Fair Forest Creek	3E-08	0E+00	3E-12		3E-08
Cobalt	Middle Tyger River	3E-08	0E+00	3E-12		3E-08
Hydrogen Chloride	Lawsons Fork Creek				2E-03	
Hydrogen Chloride	Tyger River				2E-03	
Hydrogen Chloride	Fair Forest Creek				2E-03	
Hydrogen Chloride	Middle Tyger River				2E-03	
Selenium	Lawsons Fork Creek	7E-09	2E-06	2E-08		2E-06
Selenium	Tyger River	7E-09	3E-06	2E-08		3E-06
Selenium	Fair Forest Creek	7E-09	7E-06	2E-08		7E-06
Selenium	Middle Tyger River	7E-09	9E-07	2E-08		1E-06
Chlorine	Lawsons Fork Creek				1E-01	
Chlorine	Tyger River				1E-01	
Chlorine	Fair Forest Creek				1E-01	
Chlorine	Middle Tyger River				1E-01	
Methylmercury - Developmental Effects	Lawsons Fork Creek	1E-07	5E-05	3E-10		5E-05
Methylmercury - Developmental Effects	Tyger River	1E-07	1E-04	3E-10		1E-04
Methylmercury - Developmental Effects	Fair Forest Creek	1E-07	1E-04	3E-10		1E-04
Methylmercury - Developmental Effects	Middle Tyger River	1E-07	5E-05	3E-10		5E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Lawsons Fork Creek	5E-08	2E-05	1E-10		2E-05
Methylmercury - Neurological Effects	Tyger River	5E-08	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Fair Forest Creek	5E-08	4E-05	1E-10		4E-05
Methylmercury - Neurological Effects	Middle Tyger River	5E-08	2E-05	1E-10		2E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lawsons Fork Creek	2E-09	3E-08	1E-11	4E-09	4E-08
2,3,7,8-TCDD-TEQ	Tyger River	2E-09	1E-07	1E-11	4E-09	1E-07
2,3,7,8-TCDD-TEQ	Fair Forest Creek	2E-09	8E-08	1E-11	4E-09	8E-08
2,3,7,8-TCDD-TEQ	Middle Tyger River	2E-09	4E-08	1E-11	4E-09	4E-08
Nickel	Lawsons Fork Creek				2E-10	
Nickel	Tyger River				2E-10	
Nickel	Fair Forest Creek				2E-10	
Nickel	Middle Tyger River				2E-10	
Arsenic	Lawsons Fork Creek	3E-12	1E-12	5E-12	7E-10	9E-12
Arsenic	Tyger River	3E-12	3E-12	5E-12	7E-10	1E-11
Arsenic	Fair Forest Creek	3E-12	6E-12	5E-12	7E-10	1E-11
Arsenic	Middle Tyger River	3E-12	9E-13	5E-12	7E-10	9E-12
Beryllium	Lawsons Fork Creek				3E-11	
Beryllium	Tyger River				3E-11	
Beryllium	Fair Forest Creek				3E-11	
Beryllium	Middle Tyger River				3E-11	
Cadmium	Lawsons Fork Creek				1E-09	
Cadmium	Tyger River				1E-09	
Cadmium	Fair Forest Creek				1E-09	
Cadmium	Middle Tyger River				1E-09	
Chromium VI	Lawsons Fork Creek				7E-09	
Chromium VI	Tyger River				7E-09	
Chromium VI	Fair Forest Creek				7E-09	
Chromium VI	Middle Tyger River				7E-09	
	Noncarcinogenic Chemicals					
Manganese	Lawsons Fork Creek	3E-08	0E+00	2E-08	2E-03	5E-08
Manganese	Tyger River	3E-08	0E+00	2E-08	2E-03	5E-08
Manganese	Fair Forest Creek	3E-08	0E+00	2E-08	2E-03	5E-08
Manganese	Middle Tyger River	3E-08	0E+00	2E-08	2E-03	5E-08
Mercury (elemental)	Lawsons Fork Creek				1E-06	
Mercury (elemental)	Tyger River				1E-06	
Mercury (elemental)	Fair Forest Creek				1E-06	
Mercury (elemental)	Middle Tyger River				1E-06	
Mercury (divalent)	Lawsons Fork Creek	6E-07		5E-09		6E-07
Mercury (divalent)	Tyger River	6E-07		5E-09		6E-07
Mercury (divalent)	Fair Forest Creek	6E-07		5E-09		6E-07
Mercury (divalent)	Middle Tyger River	6E-07		5E-09		6E-07
Nickel	Lawsons Fork Creek	3E-09	4E-10	6E-09		9E-09
Nickel	Tyger River	3E-09	8E-10	6E-09		9E-09
Nickel	Fair Forest Creek	3E-09	2E-09	6E-09		1E-08
Nickel	Middle Tyger River	3E-09	2E-10	6E-09		9E-09
Silver	Lawsons Fork Creek	2E-10	0E+00	1E-08		1E-08
Silver	Tyger River	2E-10	0E+00	1E-08		1E-08
Silver	Fair Forest Creek	2E-10	0E+00	1E-08		1E-08
Silver	Middle Tyger River	2E-10	0E+00	1E-08		1E-08
Thallium	Lawsons Fork Creek	2E-05	8E-05	1E-05		1E-04
Thallium	Tyger River	2E-05	2E-04	1E-05		2E-04
Thallium	Fair Forest Creek	2E-05	3E-04	1E-05		4E-04
Thallium	Middle Tyger River	2E-05	5E-05	1E-05		9E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Lawsons Fork Creek	9E-08	0E+00	2E-06		2E-06
Antimony	Tyger River	9E-08	0E+00	2E-06		2E-06
Antimony	Fair Forest Creek	9E-08	0E+00	2E-06		2E-06
Antimony	Middle Tyger River	9E-08	0E+00	2E-06		2E-06
Arsenic	Lawsons Fork Creek	6E-08	3E-08	9E-08		2E-07
Arsenic	Tyger River	6E-08	5E-08	9E-08		2E-07
Arsenic	Fair Forest Creek	6E-08	1E-07	9E-08		3E-07
Arsenic	Middle Tyger River	6E-08	2E-08	9E-08		2E-07
Barium	Lawsons Fork Creek	3E-07	0E+00	1E-08	1E-04	3E-07
Barium	Tyger River	3E-07	0E+00	1E-08	1E-04	3E-07
Barium	Fair Forest Creek	3E-07	0E+00	1E-08	1E-04	3E-07
Barium	Middle Tyger River	3E-07	0E+00	1E-08	1E-04	3E-07
Beryllium	Lawsons Fork Creek	1E-08	7E-10	6E-10		2E-08
Beryllium	Tyger River	1E-08	2E-09	6E-10		2E-08
Beryllium	Fair Forest Creek	1E-08	2E-09	6E-10		2E-08
Beryllium	Middle Tyger River	1E-08	7E-10	6E-10		2E-08
Cadmium	Lawsons Fork Creek	3E-07	2E-06	2E-07		2E-06
Cadmium	Tyger River	3E-07	4E-06	2E-07		4E-06
Cadmium	Fair Forest Creek	3E-07	8E-06	2E-07		8E-06
Cadmium	Middle Tyger River	3E-07	1E-06	2E-07		2E-06
Chromium VI	Lawsons Fork Creek	9E-09	1E-09	2E-08		3E-08
Chromium VI	Tyger River	9E-09	2E-09	2E-08		3E-08
Chromium VI	Fair Forest Creek	9E-09	4E-09	2E-08		3E-08
Chromium VI	Middle Tyger River	9E-09	6E-10	2E-08		3E-08
Chromium III	Lawsons Fork Creek	9E-09	3E-12	2E-12		9E-09
Chromium III	Tyger River	9E-09	1E-11	2E-12		9E-09
Chromium III	Fair Forest Creek	9E-09	7E-12	2E-12		9E-09
Chromium III	Middle Tyger River	9E-09	5E-12	2E-12		9E-09
Cobalt	Lawsons Fork Creek	8E-09	0E+00	2E-12		8E-09
Cobalt	Tyger River	8E-09	0E+00	2E-12		8E-09
Cobalt	Fair Forest Creek	8E-09	0E+00	2E-12		8E-09
Cobalt	Middle Tyger River	8E-09	0E+00	2E-12		8E-09
Hydrogen Chloride	Lawsons Fork Creek				2E-03	
Hydrogen Chloride	Tyger River				2E-03	
Hydrogen Chloride	Fair Forest Creek				2E-03	
Hydrogen Chloride	Middle Tyger River				2E-03	
Selenium	Lawsons Fork Creek	2E-09	2E-06	1E-08		2E-06
Selenium	Tyger River	2E-09	3E-06	1E-08		3E-06
Selenium	Fair Forest Creek	2E-09	7E-06	1E-08		7E-06
Selenium	Middle Tyger River	2E-09	9E-07	1E-08		1E-06
Chlorine	Lawsons Fork Creek				1E-01	
Chlorine	Tyger River				1E-01	
Chlorine	Fair Forest Creek				1E-01	
Chlorine	Middle Tyger River				1E-01	
Methylmercury - Developmental Effects	Lawsons Fork Creek	4E-08	5E-05	2E-10		5E-05
Methylmercury - Developmental Effects	Tyger River	4E-08	1E-04	2E-10		1E-04
Methylmercury - Developmental Effects	Fair Forest Creek	4E-08	1E-04	2E-10		1E-04
Methylmercury - Developmental Effects	Middle Tyger River	4E-08	5E-05	2E-10		5E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Lawsons Fork Creek	1E-08	2E-05	6E-11		2E-05
Methylmercury - Neurological Effects	Tyger River	1E-08	3E-05	6E-11		3E-05
Methylmercury - Neurological Effects	Fair Forest Creek	1E-08	4E-05	6E-11		4E-05
Methylmercury - Neurological Effects	Middle Tyger River	1E-08	2E-05	6E-11		2E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lawsons Fork Creek	1E-09	2E-08	7E-12	3E-09	3E-08
2,3,7,8-TCDD-TEQ	Tyger River	1E-09	8E-08	7E-12	3E-09	8E-08
2,3,7,8-TCDD-TEQ	Fair Forest Creek	1E-09	6E-08	7E-12	3E-09	6E-08
2,3,7,8-TCDD-TEQ	Middle Tyger River	1E-09	3E-08	7E-12	3E-09	3E-08
Nickel	Lawsons Fork Creek				1E-10	
Nickel	Tyger River				1E-10	
Nickel	Fair Forest Creek				1E-10	
Nickel	Middle Tyger River				1E-10	
Arsenic	Lawsons Fork Creek	2E-12	1E-12	3E-12	4E-10	6E-12
Arsenic	Tyger River	2E-12	2E-12	3E-12	4E-10	7E-12
Arsenic	Fair Forest Creek	2E-12	4E-12	3E-12	4E-10	9E-12
Arsenic	Middle Tyger River	2E-12	6E-13	3E-12	4E-10	6E-12
Beryllium	Lawsons Fork Creek				2E-11	
Beryllium	Tyger River				2E-11	
Beryllium	Fair Forest Creek				2E-11	
Beryllium	Middle Tyger River				2E-11	
Cadmium	Lawsons Fork Creek				8E-10	
Cadmium	Tyger River				8E-10	
Cadmium	Fair Forest Creek				8E-10	
Cadmium	Middle Tyger River				8E-10	
Chromium VI	Lawsons Fork Creek				5E-09	
Chromium VI	Tyger River				5E-09	
Chromium VI	Fair Forest Creek				5E-09	
Chromium VI	Middle Tyger River				5E-09	
	Noncarcinogenic Chemicals					
Manganese	Lawsons Fork Creek	2E-08	0E+00	1E-08	2E-03	3E-08
Manganese	Tyger River	2E-08	0E+00	1E-08	2E-03	3E-08
Manganese	Fair Forest Creek	2E-08	0E+00	1E-08	2E-03	3E-08
Manganese	Middle Tyger River	2E-08	0E+00	1E-08	2E-03	3E-08
Mercury (elemental)	Lawsons Fork Creek				1E-06	
Mercury (elemental)	Tyger River				1E-06	
Mercury (elemental)	Fair Forest Creek				1E-06	
Mercury (elemental)	Middle Tyger River				1E-06	
Mercury (divalent)	Lawsons Fork Creek	3E-07		3E-09		3E-07
Mercury (divalent)	Tyger River	3E-07		3E-09		3E-07
Mercury (divalent)	Fair Forest Creek	3E-07		3E-09		3E-07
Mercury (divalent)	Middle Tyger River	3E-07		3E-09		3E-07
Nickel	Lawsons Fork Creek	2E-09	3E-10	4E-09		5E-09
Nickel	Tyger River	2E-09	6E-10	4E-09		6E-09
Nickel	Fair Forest Creek	2E-09	1E-09	4E-09		6E-09
Nickel	Middle Tyger River	2E-09	2E-10	4E-09		5E-09
Silver	Lawsons Fork Creek	9E-11	0E+00	8E-09		9E-09
Silver	Tyger River	9E-11	0E+00	8E-09		9E-09
Silver	Fair Forest Creek	9E-11	0E+00	8E-09		9E-09
Silver	Middle Tyger River	9E-11	0E+00	8E-09		9E-09
Thallium	Lawsons Fork Creek	1E-05	6E-05	9E-06		8E-05
Thallium	Tyger River	1E-05	1E-04	9E-06		1E-04
Thallium	Fair Forest Creek	1E-05	2E-04	9E-06		3E-04
Thallium	Middle Tyger River	1E-05	4E-05	9E-06		6E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Lawsons Fork Creek	5E-08	0E+00	1E-06		1E-06
Antimony	Tyger River	5E-08	0E+00	1E-06		1E-06
Antimony	Fair Forest Creek	5E-08	0E+00	1E-06		1E-06
Antimony	Middle Tyger River	5E-08	0E+00	1E-06		1E-06
Arsenic	Lawsons Fork Creek	3E-08	2E-08	6E-08		1E-07
Arsenic	Tyger River	3E-08	4E-08	6E-08		1E-07
Arsenic	Fair Forest Creek	3E-08	8E-08	6E-08		2E-07
Arsenic	Middle Tyger River	3E-08	1E-08	6E-08		1E-07
Barium	Lawsons Fork Creek	2E-07	0E+00	7E-09	1E-04	2E-07
Barium	Tyger River	2E-07	0E+00	7E-09	1E-04	2E-07
Barium	Fair Forest Creek	2E-07	0E+00	7E-09	1E-04	2E-07
Barium	Middle Tyger River	2E-07	0E+00	7E-09	1E-04	2E-07
Beryllium	Lawsons Fork Creek	7E-09	5E-10	4E-10		8E-09
Beryllium	Tyger River	7E-09	1E-09	4E-10		9E-09
Beryllium	Fair Forest Creek	7E-09	2E-09	4E-10		9E-09
Beryllium	Middle Tyger River	7E-09	5E-10	4E-10		8E-09
Cadmium	Lawsons Fork Creek	2E-07	1E-06	1E-07		2E-06
Cadmium	Tyger River	2E-07	3E-06	1E-07		3E-06
Cadmium	Fair Forest Creek	2E-07	6E-06	1E-07		6E-06
Cadmium	Middle Tyger River	2E-07	8E-07	1E-07		1E-06
Chromium VI	Lawsons Fork Creek	5E-09	7E-10	1E-08		2E-08
Chromium VI	Tyger River	5E-09	1E-09	1E-08		2E-08
Chromium VI	Fair Forest Creek	5E-09	3E-09	1E-08		2E-08
Chromium VI	Middle Tyger River	5E-09	4E-10	1E-08		2E-08
Chromium III	Lawsons Fork Creek	5E-09	2E-12	1E-12		5E-09
Chromium III	Tyger River	5E-09	9E-12	1E-12		5E-09
Chromium III	Fair Forest Creek	5E-09	5E-12	1E-12		5E-09
Chromium III	Middle Tyger River	5E-09	3E-12	1E-12		5E-09
Cobalt	Lawsons Fork Creek	4E-09	0E+00	5E-09		9E-09
Cobalt	Tyger River	4E-09	0E+00	5E-09		9E-09
Cobalt	Fair Forest Creek	4E-09	0E+00	5E-09		9E-09
Cobalt	Middle Tyger River	4E-09	0E+00	5E-09		9E-09
Hydrogen Chloride	Lawsons Fork Creek				2E-03	
Hydrogen Chloride	Tyger River				2E-03	
Hydrogen Chloride	Fair Forest Creek				2E-03	
Hydrogen Chloride	Middle Tyger River				2E-03	
Selenium	Lawsons Fork Creek	9E-10	1E-06	9E-09		1E-06
Selenium	Tyger River	9E-10	2E-06	9E-09		2E-06
Selenium	Fair Forest Creek	9E-10	5E-06	9E-09		5E-06
Selenium	Middle Tyger River	9E-10	7E-07	9E-09		7E-07
Chlorine	Lawsons Fork Creek				1E-01	
Chlorine	Tyger River				1E-01	
Chlorine	Fair Forest Creek				1E-01	
Chlorine	Middle Tyger River				1E-01	
Methylmercury - Developmental Effects	Lawsons Fork Creek	2E-08	3E-05	1E-10		3E-05
Methylmercury - Developmental Effects	Tyger River	2E-08	7E-05	1E-10		7E-05
Methylmercury - Developmental Effects	Fair Forest Creek	2E-08	8E-05	1E-10		8E-05
Methylmercury - Developmental Effects	Middle Tyger River	2E-08	4E-05	1E-10		4E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Lawsons Fork Creek	6E-09	1E-05	4E-11		1E-05
Methylmercury - Neurological Effects	Tyger River	6E-09	2E-05	4E-11		2E-05
Methylmercury - Neurological Effects	Fair Forest Creek	6E-09	3E-05	4E-11		3E-05
Methylmercury - Neurological Effects	Middle Tyger River	6E-09	1E-05	4E-11		1E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lawsons Fork Creek	8E-10	4E-08	2E-11	4E-09	4E-08
2,3,7,8-TCDD-TEQ	Tyger River	8E-10	1E-07	2E-11	4E-09	1E-07
2,3,7,8-TCDD-TEQ	Fair Forest Creek	8E-10	1E-07	2E-11	4E-09	1E-07
2,3,7,8-TCDD-TEQ	Middle Tyger River	8E-10	6E-08	2E-11	4E-09	6E-08
Nickel	Lawsons Fork Creek				2E-10	
Nickel	Tyger River				2E-10	
Nickel	Fair Forest Creek				2E-10	
Nickel	Middle Tyger River				2E-10	
Arsenic	Lawsons Fork Creek	1E-12	2E-12	7E-12	6E-10	1E-11
Arsenic	Tyger River	1E-12	4E-12	7E-12	6E-10	1E-11
Arsenic	Fair Forest Creek	1E-12	8E-12	7E-12	6E-10	2E-11
Arsenic	Middle Tyger River	1E-12	1E-12	7E-12	6E-10	9E-12
Beryllium	Lawsons Fork Creek				3E-11	
Beryllium	Tyger River				3E-11	
Beryllium	Fair Forest Creek				3E-11	
Beryllium	Middle Tyger River				3E-11	
Cadmium	Lawsons Fork Creek				1E-09	
Cadmium	Tyger River				1E-09	
Cadmium	Fair Forest Creek				1E-09	
Cadmium	Middle Tyger River				1E-09	
Chromium VI	Lawsons Fork Creek				7E-09	
Chromium VI	Tyger River				7E-09	
Chromium VI	Fair Forest Creek				7E-09	
Chromium VI	Middle Tyger River				7E-09	
	Noncarcinogenic Chemicals					
Manganese	Lawsons Fork Creek	6E-09	0E+00	1E-08	2E-03	2E-08
Manganese	Tyger River	6E-09	0E+00	1E-08	2E-03	2E-08
Manganese	Fair Forest Creek	6E-09	0E+00	1E-08	2E-03	2E-08
Manganese	Middle Tyger River	6E-09	0E+00	1E-08	2E-03	2E-08
Mercury (elemental)	Lawsons Fork Creek				1E-06	
Mercury (elemental)	Tyger River				1E-06	
Mercury (elemental)	Fair Forest Creek				1E-06	
Mercury (elemental)	Middle Tyger River				1E-06	
Mercury (divalent)	Lawsons Fork Creek	1E-07		4E-09		1E-07
Mercury (divalent)	Tyger River	1E-07		4E-09		1E-07
Mercury (divalent)	Fair Forest Creek	1E-07		4E-09		1E-07
Mercury (divalent)	Middle Tyger River	1E-07		4E-09		1E-07
Nickel	Lawsons Fork Creek	6E-10	3E-10	4E-09		5E-09
Nickel	Tyger River	6E-10	6E-10	4E-09		5E-09
Nickel	Fair Forest Creek	6E-10	1E-09	4E-09		6E-09
Nickel	Middle Tyger River	6E-10	2E-10	4E-09		5E-09
Silver	Lawsons Fork Creek	4E-11	0E+00	1E-08		1E-08
Silver	Tyger River	4E-11	0E+00	1E-08		1E-08
Silver	Fair Forest Creek	4E-11	0E+00	1E-08		1E-08
Silver	Middle Tyger River	4E-11	0E+00	1E-08		1E-08
Thallium	Lawsons Fork Creek	5E-06	6E-05	1E-05		7E-05
Thallium	Tyger River	5E-06	1E-04	1E-05		1E-04
Thallium	Fair Forest Creek	5E-06	2E-04	1E-05		3E-04
Thallium	Middle Tyger River	5E-06	4E-05	1E-05		5E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Lawsons Fork Creek	2E-08	0E+00	1E-06		1E-06
Antimony	Tyger River	2E-08	0E+00	1E-06		1E-06
Antimony	Fair Forest Creek	2E-08	0E+00	1E-06		1E-06
Antimony	Middle Tyger River	2E-08	0E+00	1E-06		1E-06
Arsenic	Lawsons Fork Creek	1E-08	2E-08	6E-08		1E-07
Arsenic	Tyger River	1E-08	4E-08	6E-08		1E-07
Arsenic	Fair Forest Creek	1E-08	8E-08	6E-08		2E-07
Arsenic	Middle Tyger River	1E-08	1E-08	6E-08		9E-08
Barium	Lawsons Fork Creek	7E-08	0E+00	9E-09	1E-04	8E-08
Barium	Tyger River	7E-08	0E+00	9E-09	1E-04	8E-08
Barium	Fair Forest Creek	7E-08	0E+00	9E-09	1E-04	8E-08
Barium	Middle Tyger River	7E-08	0E+00	9E-09	1E-04	8E-08
Beryllium	Lawsons Fork Creek	3E-09	5E-10	5E-10		4E-09
Beryllium	Tyger River	3E-09	1E-09	5E-10		5E-09
Beryllium	Fair Forest Creek	3E-09	2E-09	5E-10		5E-09
Beryllium	Middle Tyger River	3E-09	5E-10	5E-10		4E-09
Cadmium	Lawsons Fork Creek	7E-08	1E-06	2E-07		2E-06
Cadmium	Tyger River	7E-08	3E-06	2E-07		3E-06
Cadmium	Fair Forest Creek	7E-08	6E-06	2E-07		6E-06
Cadmium	Middle Tyger River	7E-08	8E-07	2E-07		1E-06
Chromium VI	Lawsons Fork Creek	2E-09	7E-10	1E-08		2E-08
Chromium VI	Tyger River	2E-09	1E-09	1E-08		2E-08
Chromium VI	Fair Forest Creek	2E-09	3E-09	1E-08		2E-08
Chromium VI	Middle Tyger River	2E-09	4E-10	1E-08		2E-08
Chromium III	Lawsons Fork Creek	2E-09	2E-12	1E-12		2E-09
Chromium III	Tyger River	2E-09	9E-12	1E-12		2E-09
Chromium III	Fair Forest Creek	2E-09	5E-12	1E-12		2E-09
Chromium III	Middle Tyger River	2E-09	3E-12	1E-12		2E-09
Cobalt	Lawsons Fork Creek	2E-09	0E+00	6E-09		7E-09
Cobalt	Tyger River	2E-09	0E+00	6E-09		7E-09
Cobalt	Fair Forest Creek	2E-09	0E+00	6E-09		7E-09
Cobalt	Middle Tyger River	2E-09	0E+00	6E-09		7E-09
Hydrogen Chloride	Lawsons Fork Creek				2E-03	
Hydrogen Chloride	Tyger River				2E-03	
Hydrogen Chloride	Fair Forest Creek				2E-03	
Hydrogen Chloride	Middle Tyger River				2E-03	
Selenium	Lawsons Fork Creek	4E-10	1E-06	1E-08		1E-06
Selenium	Tyger River	4E-10	2E-06	1E-08		2E-06
Selenium	Fair Forest Creek	4E-10	5E-06	1E-08		5E-06
Selenium	Middle Tyger River	4E-10	7E-07	1E-08		7E-07
Chlorine	Lawsons Fork Creek				1E-01	
Chlorine	Tyger River				1E-01	
Chlorine	Fair Forest Creek				1E-01	
Chlorine	Middle Tyger River				1E-01	
Methylmercury - Developmental Effects	Lawsons Fork Creek	8E-09	3E-05	1E-10		3E-05
Methylmercury - Developmental Effects	Tyger River	8E-09	7E-05	1E-10		7E-05
Methylmercury - Developmental Effects	Fair Forest Creek	8E-09	8E-05	1E-10		8E-05
Methylmercury - Developmental Effects	Middle Tyger River	8E-09	4E-05	1E-10		4E-05

Table IX-A2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 209) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Lawsons Fork Creek	3E-09	1E-05	5E-11		1E-05
Methylmercury - Neurological Effects	Tyger River	3E-09	2E-05	5E-11		2E-05
Methylmercury - Neurological Effects	Fair Forest Creek	3E-09	3E-05	5E-11		3E-05
Methylmercury - Neurological Effects	Middle Tyger River	3E-09	1E-05	5E-11		1E-05

Table IX-A3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	4E-10	3E-10	9E-10	2E-07	2E-06	2E-08	2E-07	8E-08	5E-08		2E-09	3E-06
Nickel												8E-09	
Arsenic	9E-10	5E-10	2E-10	1E-09	3E-09	6E-09	2E-10			6E-09		2E-08	2E-08
Beryllium												1E-10	
Cadmium												7E-08	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	2E-07	6E-07	1E-07	5E-06	7E-09			0E+00		1E-03	6E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	9E-05	2E-05	2E-04	3E-04	3E-03	5E-07						4E-03
Nickel	2E-06	1E-06	4E-07	3E-06	3E-05	3E-04	2E-06			4E-06			3E-04
Silver	4E-09	6E-08	1E-08	2E-07	1E-06	4E-04	4E-08			0E+00			4E-04
Thallium	9E-05	9E-06	5E-07	3E-05	3E-03	8E-03	3E-04			3E-03			1E-02
Antimony	4E-07	2E-06	4E-07	5E-06	8E-06	5E-05	3E-07			0E+00			7E-05
Arsenic	2E-05	1E-05	5E-06	3E-05	8E-05	1E-04	5E-06			1E-04			4E-04
Barium	4E-06	4E-07	1E-07	7E-07	2E-07	2E-05	3E-08			0E+00		8E-05	3E-05
Beryllium	1E-06	1E-08	3E-09	4E-08	2E-07	6E-09	5E-08			4E-08			1E-06
Cadmium	3E-04	3E-04	2E-04	6E-04	3E-05	1E-04	5E-06			1E-02			1E-02
Chromium VI	3E-07	1E-07	3E-08	3E-07	4E-06	6E-05	2E-07			4E-07			7E-05
Chromium III	8E-07	1E-08	6E-09	2E-08	6E-07	8E-06	2E-07			4E-11			1E-05
Cobalt	5E-08	2E-08	8E-11	4E-08	1E-06	8E-06	1E-07			0E+00			9E-06
Hydrogen Chloride												4E-04	
Selenium	7E-07	8E-07	5E-07	2E-06	2E-05	2E-03	6E-05			1E-02			1E-02
Chlorine												6E-03	
Methylmercury - Developmental Effects	1E-05	3E-05	3E-06	3E-05	7E-05	1E-03	4E-08			7E-04			2E-03
Methylmercury - Neurological Effects	4E-06	1E-05	1E-06	1E-05	2E-05	3E-04	1E-08			2E-04			6E-04

Table IX-A3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	3E-10	3E-10	1E-09	3E-07	1E-06	2E-08	2E-07	1E-07	5E-08		2E-09	2E-06
Nickel												9E-09	
Arsenic	3E-10	3E-10	2E-10	1E-09	5E-09	4E-09	2E-10			6E-09		2E-08	2E-08
Beryllium												1E-10	
Cadmium												8E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-08	2E-07	1E-07	6E-07	1E-07	2E-06	4E-09			0E+00		1E-03	4E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	5E-05	2E-05	2E-04	3E-04	2E-03	3E-07						2E-03
Nickel	5E-07	6E-07	3E-07	3E-06	3E-05	1E-04	9E-07			3E-06			2E-04
Silver	1E-09	3E-08	9E-09	2E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	2E-05	5E-06	4E-07	3E-05	3E-03	4E-03	2E-04			3E-03			1E-02
Antimony	1E-07	1E-06	3E-07	4E-06	1E-05	2E-05	2E-07			0E+00			4E-05
Arsenic	6E-06	7E-06	3E-06	3E-05	9E-05	7E-05	3E-06			1E-04			3E-04
Barium	1E-06	2E-07	7E-08	7E-07	2E-07	1E-05	2E-08			0E+00		8E-05	1E-05
Beryllium	3E-07	8E-09	2E-09	4E-08	2E-07	3E-09	3E-08			3E-08			6E-07
Cadmium	7E-05	2E-04	1E-04	6E-04	3E-05	5E-05	3E-06			9E-03			1E-02
Chromium VI	7E-08	5E-08	2E-08	3E-07	4E-06	3E-05	1E-07			3E-07			4E-05
Chromium III	2E-07	5E-09	4E-09	2E-08	8E-07	4E-06	1E-07			3E-11			5E-06
Cobalt	1E-08	8E-09	5E-11	4E-08	2E-06	4E-06	6E-08			0E+00			6E-06
Hydrogen Chloride												4E-04	
Selenium	2E-07	5E-07	3E-07	2E-06	2E-05	8E-04	4E-05			8E-03			9E-03
Chlorine												6E-03	
Methylmercury - Developmental Effects	3E-06	2E-05	2E-06	3E-05	8E-05	5E-04	2E-08			5E-04			1E-03
Methylmercury - Neurological Effects	1E-06	6E-06	7E-07	9E-06	3E-05	2E-04	8E-09			2E-04			4E-04

Table IX-A3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-10	2E-10	6E-10	2E-07	7E-07	1E-08	1E-07	5E-08	3E-08		1E-09	1E-06
Nickel												6E-09	
Arsenic	2E-10	3E-10	1E-10	8E-10	2E-09	2E-09	1E-10			3E-09		1E-08	9E-09
Beryllium												9E-11	
Cadmium												5E-08	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	8E-08	3E-07	5E-08	1E-06	3E-09			0E+00		1E-03	2E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	3E-05	4E-05	1E-05	1E-04	2E-04	8E-04	2E-07			0E+00			1E-03
Nickel	3E-07	5E-07	2E-07	1E-06	2E-05	7E-05	6E-07			2E-06			9E-05
Silver	5E-10	3E-08	6E-09	8E-08	6E-07	1E-04	2E-08			0E+00			1E-04
Thallium	1E-05	4E-06	3E-07	1E-05	2E-03	2E-03	1E-04			1E-03			5E-03
Antimony	5E-08	8E-07	2E-07	2E-06	4E-06	1E-05	1E-07			0E+00			2E-05
Arsenic	3E-06	5E-06	2E-06	1E-05	4E-05	3E-05	2E-06			6E-05			2E-04
Barium	5E-07	2E-07	5E-08	4E-07	1E-07	5E-06	1E-08			0E+00		8E-05	6E-06
Beryllium	1E-07	6E-09	1E-09	2E-08	8E-08	1E-09	2E-08			2E-08			3E-07
Cadmium	3E-05	1E-04	8E-05	3E-04	2E-05	2E-05	2E-06			5E-03			5E-03
Chromium VI	3E-08	4E-08	2E-08	1E-07	2E-06	1E-05	8E-08			2E-07			2E-05
Chromium III	1E-07	4E-09	3E-09	1E-08	3E-07	2E-06	9E-08			2E-11			2E-06
Cobalt	7E-09	6E-09	4E-11	2E-08	7E-07	2E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												4E-04	
Selenium	1E-07	4E-07	2E-07	1E-06	1E-05	4E-04	2E-05			4E-03			5E-03
Chlorine												6E-03	
Methylmercury - Developmental Effects	2E-06	1E-05	1E-06	2E-05	4E-05	2E-04	1E-08			3E-04			6E-04
Methylmercury - Neurological Effects	5E-07	4E-06	5E-07	5E-06	1E-05	8E-05	5E-09			9E-05			2E-04

Table IX-A3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	6E-10	4E-10	1E-09	3E-07	6E-07	2E-08	2E-07	9E-08	6E-08		2E-09	1E-06
Nickel												8E-09	
Arsenic	1E-10	6E-10	2E-10	1E-09	5E-09	1E-09	2E-10			7E-09		2E-08	2E-08
Beryllium												1E-10	
Cadmium												7E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	9E-08	3E-07	6E-08	5E-07	3E-09			0E+00		1E-03	1E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	1E-05	5E-05	1E-05	9E-05	2E-04	4E-04	2E-07			0E+00			7E-04
Nickel	1E-07	7E-07	2E-07	1E-06	2E-05	3E-05	5E-07			2E-06			5E-05
Silver	2E-10	3E-08	7E-09	8E-08	7E-07	4E-05	1E-08			0E+00			4E-05
Thallium	5E-06	5E-06	3E-07	1E-05	2E-03	8E-04	9E-05			1E-03			4E-03
Antimony	2E-08	1E-06	2E-07	2E-06	5E-06	5E-06	1E-07			0E+00			1E-05
Arsenic	1E-06	7E-06	3E-06	1E-05	5E-05	1E-05	2E-06			6E-05			2E-04
Barium	2E-07	2E-07	5E-08	4E-07	1E-07	2E-06	9E-09			0E+00		8E-05	3E-06
Beryllium	6E-08	8E-09	2E-09	2E-08	1E-07	7E-10	2E-08			2E-08			2E-07
Cadmium	1E-05	2E-04	9E-05	3E-04	2E-05	1E-05	2E-06			5E-03			6E-03
Chromium VI	1E-08	6E-08	2E-08	1E-07	2E-06	6E-06	7E-08			2E-07			9E-06
Chromium III	5E-08	5E-09	4E-09	1E-08	4E-07	8E-07	7E-08			2E-11			1E-06
Cobalt	3E-09	9E-09	4E-11	2E-08	8E-07	8E-07	3E-08			0E+00			2E-06
Hydrogen Chloride												4E-04	
Selenium	4E-08	5E-07	3E-07	1E-06	1E-05	2E-04	2E-05			5E-03			5E-03
Chlorine												6E-03	
Methylmercury - Developmental Effects	7E-07	2E-05	2E-06	1E-05	4E-05	1E-04	1E-08			3E-04			5E-04
Methylmercury - Neurological Effects	2E-07	6E-06	6E-07	5E-06	1E-05	3E-05	4E-09			1E-04			2E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fish Ponds	8E-09	4E-08	0E+00	2E-09	5E-08
2,3,7,8-TCDD-TEQ	Lake Clause	8E-09	8E-08	0E+00	2E-09	9E-08
2,3,7,8-TCDD-TEQ	University Lake/ City Park Lake	8E-09	2E-08	0E+00	2E-09	3E-08
2,3,7,8-TCDD-TEQ	Comite River	8E-09	3E-09	0E+00	2E-09	1E-08
Nickel	Fish Ponds				8E-09	
Nickel	Lake Clause				8E-09	
Nickel	University Lake/ City Park Lake				8E-09	
Nickel	Comite River				8E-09	
Arsenic	Fish Ponds	9E-10	5E-10	0E+00	2E-08	1E-09
Arsenic	Lake Clause	9E-10	3E-10	0E+00	2E-08	1E-09
Arsenic	University Lake/ City Park Lake	9E-10	2E-10	0E+00	2E-08	1E-09
Arsenic	Comite River	9E-10	2E-11	0E+00	2E-08	1E-09
Beryllium	Fish Ponds				1E-10	
Beryllium	Lake Clause				1E-10	
Beryllium	University Lake/ City Park Lake				1E-10	
Beryllium	Comite River				1E-10	
Cadmium	Fish Ponds				7E-08	
Cadmium	Lake Clause				7E-08	
Cadmium	University Lake/ City Park Lake				7E-08	
Cadmium	Comite River				7E-08	
Chromium VI	Fish Ponds				1E-08	
Chromium VI	Lake Clause				1E-08	
Chromium VI	University Lake/ City Park Lake				1E-08	
Chromium VI	Comite River				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Fish Ponds	2E-07	0E+00	0E+00	1E-03	2E-07
Manganese	Lake Clause	2E-07	0E+00	0E+00	1E-03	2E-07
Manganese	University Lake/ City Park Lake	2E-07	0E+00	0E+00	1E-03	2E-07
Manganese	Comite River	2E-07	0E+00	0E+00	1E-03	2E-07
Mercury (elemental)	Fish Ponds				3E-05	
Mercury (elemental)	Lake Clause				3E-05	
Mercury (elemental)	University Lake/ City Park Lake				3E-05	
Mercury (elemental)	Comite River				3E-05	
Mercury (divalent)	Fish Ponds	2E-04		0E+00		2E-04
Mercury (divalent)	Lake Clause	2E-04		0E+00		2E-04
Mercury (divalent)	University Lake/ City Park Lake	2E-04		0E+00		2E-04
Mercury (divalent)	Comite River	2E-04		0E+00		2E-04
Nickel	Fish Ponds	2E-06	3E-07	0E+00		2E-06
Nickel	Lake Clause	2E-06	2E-07	0E+00		2E-06
Nickel	University Lake/ City Park Lake	2E-06	1E-07	0E+00		2E-06
Nickel	Comite River	2E-06	1E-08	0E+00		2E-06
Silver	Fish Ponds	4E-09	0E+00	0E+00		4E-09
Silver	Lake Clause	4E-09	0E+00	0E+00		4E-09
Silver	University Lake/ City Park Lake	4E-09	0E+00	0E+00		4E-09
Silver	Comite River	4E-09	0E+00	0E+00		4E-09
Thallium	Fish Ponds	9E-05	3E-04	0E+00		4E-04
Thallium	Lake Clause	9E-05	2E-04	0E+00		3E-04
Thallium	University Lake/ City Park Lake	9E-05	2E-04	0E+00		2E-04
Thallium	Comite River	9E-05	2E-05	0E+00		1E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Fish Ponds	4E-07	0E+00	0E+00		4E-07
Antimony	Lake Clause	4E-07	0E+00	0E+00		4E-07
Antimony	University Lake/ City Park Lake	4E-07	0E+00	0E+00		4E-07
Antimony	Comite River	4E-07	0E+00	0E+00		4E-07
Arsenic	Fish Ponds	2E-05	1E-05	0E+00		3E-05
Arsenic	Lake Clause	2E-05	7E-06	0E+00		3E-05
Arsenic	University Lake/ City Park Lake	2E-05	5E-06	0E+00		3E-05
Arsenic	Comite River	2E-05	6E-07	0E+00		2E-05
Barium	Fish Ponds	4E-06	0E+00	0E+00	8E-05	4E-06
Barium	Lake Clause	4E-06	0E+00	0E+00	8E-05	4E-06
Barium	University Lake/ City Park Lake	4E-06	0E+00	0E+00	8E-05	4E-06
Barium	Comite River	4E-06	0E+00	0E+00	8E-05	4E-06
Beryllium	Fish Ponds	1E-06	7E-08	0E+00		1E-06
Beryllium	Lake Clause	1E-06	3E-08	0E+00		1E-06
Beryllium	University Lake/ City Park Lake	1E-06	2E-08	0E+00		1E-06
Beryllium	Comite River	1E-06	3E-09	0E+00		1E-06
Cadmium	Fish Ponds	3E-04	2E-03	0E+00		2E-03
Cadmium	Lake Clause	3E-04	1E-03	0E+00		1E-03
Cadmium	University Lake/ City Park Lake	3E-04	7E-04	0E+00		9E-04
Cadmium	Comite River	3E-04	8E-05	0E+00		3E-04
Chromium VI	Fish Ponds	3E-07	3E-08	0E+00		3E-07
Chromium VI	Lake Clause	3E-07	2E-08	0E+00		3E-07
Chromium VI	University Lake/ City Park Lake	3E-07	1E-08	0E+00		3E-07
Chromium VI	Comite River	3E-07	2E-09	0E+00		3E-07
Chromium III	Fish Ponds	8E-07	6E-10	0E+00		8E-07
Chromium III	Lake Clause	8E-07	3E-10	0E+00		8E-07
Chromium III	University Lake/ City Park Lake	8E-07	1E-10	0E+00		8E-07
Chromium III	Comite River	8E-07	5E-11	0E+00		8E-07
Cobalt	Fish Ponds	5E-08	0E+00	0E+00		5E-08
Cobalt	Lake Clause	5E-08	0E+00	0E+00		5E-08
Cobalt	University Lake/ City Park Lake	5E-08	0E+00	0E+00		5E-08
Cobalt	Comite River	5E-08	0E+00	0E+00		5E-08
Hydrogen Chloride	Fish Ponds				4E-04	
Hydrogen Chloride	Lake Clause				4E-04	
Hydrogen Chloride	University Lake/ City Park Lake				4E-04	
Hydrogen Chloride	Comite River				4E-04	
Selenium	Fish Ponds	7E-07	7E-04	0E+00		7E-04
Selenium	Lake Clause	7E-07	4E-04	0E+00		4E-04
Selenium	University Lake/ City Park Lake	7E-07	3E-04	0E+00		3E-04
Selenium	Comite River	7E-07	3E-05	0E+00		3E-05
Chlorine	Fish Ponds				6E-03	
Chlorine	Lake Clause				6E-03	
Chlorine	University Lake/ City Park Lake				6E-03	
Chlorine	Comite River				6E-03	
Methylmercury - Developmental Effects	Fish Ponds	1E-05	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Lake Clause	1E-05	1E-02	0E+00		1E-02
Methylmercury - Developmental Effects	University Lake/ City Park Lake	1E-05	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Comite River	1E-05	4E-04	0E+00		4E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Fish Ponds	4E-06	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Lake Clause	4E-06	4E-03	0E+00		4E-03
Methylmercury - Neurological Effects	University Lake/ City Park Lake	4E-06	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Comite River	4E-06	1E-04	0E+00		1E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fish Ponds	3E-09	6E-08	0E+00	2E-09	6E-08
2,3,7,8-TCDD-TEQ	Lake Clause	3E-09	1E-07	0E+00	2E-09	1E-07
2,3,7,8-TCDD-TEQ	University Lake/ City Park Lake	3E-09	3E-08	0E+00	2E-09	4E-08
2,3,7,8-TCDD-TEQ	Comite River	3E-09	4E-09	0E+00	2E-09	7E-09
Nickel	Fish Ponds				9E-09	
Nickel	Lake Clause				9E-09	
Nickel	University Lake/ City Park Lake				9E-09	
Nickel	Comite River				9E-09	
Arsenic	Fish Ponds	3E-10	6E-10	0E+00	2E-08	1E-09
Arsenic	Lake Clause	3E-10	4E-10	0E+00	2E-08	7E-10
Arsenic	University Lake/ City Park Lake	3E-10	3E-10	0E+00	2E-08	6E-10
Arsenic	Comite River	3E-10	3E-11	0E+00	2E-08	4E-10
Beryllium	Fish Ponds				1E-10	
Beryllium	Lake Clause				1E-10	
Beryllium	University Lake/ City Park Lake				1E-10	
Beryllium	Comite River				1E-10	
Cadmium	Fish Ponds				8E-08	
Cadmium	Lake Clause				8E-08	
Cadmium	University Lake/ City Park Lake				8E-08	
Cadmium	Comite River				8E-08	
Chromium VI	Fish Ponds				2E-08	
Chromium VI	Lake Clause				2E-08	
Chromium VI	University Lake/ City Park Lake				2E-08	
Chromium VI	Comite River				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Fish Ponds	5E-08	0E+00	0E+00	1E-03	5E-08
Manganese	Lake Clause	5E-08	0E+00	0E+00	1E-03	5E-08
Manganese	University Lake/ City Park Lake	5E-08	0E+00	0E+00	1E-03	5E-08
Manganese	Comite River	5E-08	0E+00	0E+00	1E-03	5E-08
Mercury (elemental)	Fish Ponds				3E-05	
Mercury (elemental)	Lake Clause				3E-05	
Mercury (elemental)	University Lake/ City Park Lake				3E-05	
Mercury (elemental)	Comite River				3E-05	
Mercury (divalent)	Fish Ponds	5E-05		0E+00		5E-05
Mercury (divalent)	Lake Clause	5E-05		0E+00		5E-05
Mercury (divalent)	University Lake/ City Park Lake	5E-05		0E+00		5E-05
Mercury (divalent)	Comite River	5E-05		0E+00		5E-05
Nickel	Fish Ponds	5E-07	3E-07	0E+00		8E-07
Nickel	Lake Clause	5E-07	2E-07	0E+00		7E-07
Nickel	University Lake/ City Park Lake	5E-07	1E-07	0E+00		6E-07
Nickel	Comite River	5E-07	1E-08	0E+00		5E-07
Silver	Fish Ponds	1E-09	0E+00	0E+00		1E-09
Silver	Lake Clause	1E-09	0E+00	0E+00		1E-09
Silver	University Lake/ City Park Lake	1E-09	0E+00	0E+00		1E-09
Silver	Comite River	1E-09	0E+00	0E+00		1E-09
Thallium	Fish Ponds	2E-05	3E-04	0E+00		4E-04
Thallium	Lake Clause	2E-05	2E-04	0E+00		2E-04
Thallium	University Lake/ City Park Lake	2E-05	2E-04	0E+00		2E-04
Thallium	Comite River	2E-05	2E-05	0E+00		4E-05

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Fish Ponds	1E-07	0E+00	0E+00		1E-07
Antimony	Lake Clause	1E-07	0E+00	0E+00		1E-07
Antimony	University Lake/ City Park Lake	1E-07	0E+00	0E+00		1E-07
Antimony	Comite River	1E-07	0E+00	0E+00		1E-07
Arsenic	Fish Ponds	6E-06	1E-05	0E+00		2E-05
Arsenic	Lake Clause	6E-06	7E-06	0E+00		1E-05
Arsenic	University Lake/ City Park Lake	6E-06	5E-06	0E+00		1E-05
Arsenic	Comite River	6E-06	6E-07	0E+00		7E-06
Barium	Fish Ponds	1E-06	0E+00	0E+00	8E-05	1E-06
Barium	Lake Clause	1E-06	0E+00	0E+00	8E-05	1E-06
Barium	University Lake/ City Park Lake	1E-06	0E+00	0E+00	8E-05	1E-06
Barium	Comite River	1E-06	0E+00	0E+00	8E-05	1E-06
Beryllium	Fish Ponds	3E-07	7E-08	0E+00		3E-07
Beryllium	Lake Clause	3E-07	3E-08	0E+00		3E-07
Beryllium	University Lake/ City Park Lake	3E-07	2E-08	0E+00		3E-07
Beryllium	Comite River	3E-07	3E-09	0E+00		3E-07
Cadmium	Fish Ponds	7E-05	2E-03	0E+00		2E-03
Cadmium	Lake Clause	7E-05	1E-03	0E+00		1E-03
Cadmium	University Lake/ City Park Lake	7E-05	7E-04	0E+00		8E-04
Cadmium	Comite River	7E-05	8E-05	0E+00		1E-04
Chromium VI	Fish Ponds	7E-08	3E-08	0E+00		1E-07
Chromium VI	Lake Clause	7E-08	2E-08	0E+00		9E-08
Chromium VI	University Lake/ City Park Lake	7E-08	1E-08	0E+00		8E-08
Chromium VI	Comite River	7E-08	2E-09	0E+00		7E-08
Chromium III	Fish Ponds	2E-07	6E-10	0E+00		2E-07
Chromium III	Lake Clause	2E-07	3E-10	0E+00		2E-07
Chromium III	University Lake/ City Park Lake	2E-07	1E-10	0E+00		2E-07
Chromium III	Comite River	2E-07	5E-11	0E+00		2E-07
Cobalt	Fish Ponds	1E-08	0E+00	0E+00		1E-08
Cobalt	Lake Clause	1E-08	0E+00	0E+00		1E-08
Cobalt	University Lake/ City Park Lake	1E-08	0E+00	0E+00		1E-08
Cobalt	Comite River	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Fish Ponds				4E-04	
Hydrogen Chloride	Lake Clause				4E-04	
Hydrogen Chloride	University Lake/ City Park Lake				4E-04	
Hydrogen Chloride	Comite River				4E-04	
Selenium	Fish Ponds	2E-07	7E-04	0E+00		7E-04
Selenium	Lake Clause	2E-07	4E-04	0E+00		4E-04
Selenium	University Lake/ City Park Lake	2E-07	3E-04	0E+00		3E-04
Selenium	Comite River	2E-07	3E-05	0E+00		3E-05
Chlorine	Fish Ponds				6E-03	
Chlorine	Lake Clause				6E-03	
Chlorine	University Lake/ City Park Lake				6E-03	
Chlorine	Comite River				6E-03	
Methylmercury - Developmental Effects	Fish Ponds	3E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Lake Clause	3E-06	1E-02	0E+00		1E-02
Methylmercury - Developmental Effects	University Lake/ City Park Lake	3E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Comite River	3E-06	4E-04	0E+00		4E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Fish Ponds	1E-06	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Lake Clause	1E-06	4E-03	0E+00		4E-03
Methylmercury - Neurological Effects	University Lake/ City Park Lake	1E-06	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Comite River	1E-06	1E-04	0E+00		1E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fish Ponds	2E-09	4E-08	0E+00	1E-09	4E-08
2,3,7,8-TCDD-TEQ	Lake Clause	2E-09	8E-08	0E+00	1E-09	9E-08
2,3,7,8-TCDD-TEQ	University Lake/ City Park Lake	2E-09	2E-08	0E+00	1E-09	3E-08
2,3,7,8-TCDD-TEQ	Comite River	2E-09	3E-09	0E+00	1E-09	5E-09
Nickel	Fish Ponds				6E-09	
Nickel	Lake Clause				6E-09	
Nickel	University Lake/ City Park Lake				6E-09	
Nickel	Comite River				6E-09	
Arsenic	Fish Ponds	2E-10	5E-10	0E+00	1E-08	6E-10
Arsenic	Lake Clause	2E-10	3E-10	0E+00	1E-08	5E-10
Arsenic	University Lake/ City Park Lake	2E-10	2E-10	0E+00	1E-08	4E-10
Arsenic	Comite River	2E-10	2E-11	0E+00	1E-08	2E-10
Beryllium	Fish Ponds				9E-11	
Beryllium	Lake Clause				9E-11	
Beryllium	University Lake/ City Park Lake				9E-11	
Beryllium	Comite River				9E-11	
Cadmium	Fish Ponds				5E-08	
Cadmium	Lake Clause				5E-08	
Cadmium	University Lake/ City Park Lake				5E-08	
Cadmium	Comite River				5E-08	
Chromium VI	Fish Ponds				1E-08	
Chromium VI	Lake Clause				1E-08	
Chromium VI	University Lake/ City Park Lake				1E-08	
Chromium VI	Comite River				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Fish Ponds	3E-08	0E+00	0E+00	1E-03	3E-08
Manganese	Lake Clause	3E-08	0E+00	0E+00	1E-03	3E-08
Manganese	University Lake/ City Park Lake	3E-08	0E+00	0E+00	1E-03	3E-08
Manganese	Comite River	3E-08	0E+00	0E+00	1E-03	3E-08
Mercury (elemental)	Fish Ponds				3E-05	
Mercury (elemental)	Lake Clause				3E-05	
Mercury (elemental)	University Lake/ City Park Lake				3E-05	
Mercury (elemental)	Comite River				3E-05	
Mercury (divalent)	Fish Ponds	3E-05		0E+00		3E-05
Mercury (divalent)	Lake Clause	3E-05		0E+00		3E-05
Mercury (divalent)	University Lake/ City Park Lake	3E-05		0E+00		3E-05
Mercury (divalent)	Comite River	3E-05		0E+00		3E-05
Nickel	Fish Ponds	3E-07	2E-07	0E+00		5E-07
Nickel	Lake Clause	3E-07	1E-07	0E+00		4E-07
Nickel	University Lake/ City Park Lake	3E-07	9E-08	0E+00		4E-07
Nickel	Comite River	3E-07	1E-08	0E+00		3E-07
Silver	Fish Ponds	5E-10	0E+00	0E+00		5E-10
Silver	Lake Clause	5E-10	0E+00	0E+00		5E-10
Silver	University Lake/ City Park Lake	5E-10	0E+00	0E+00		5E-10
Silver	Comite River	5E-10	0E+00	0E+00		5E-10
Thallium	Fish Ponds	1E-05	2E-04	0E+00		3E-04
Thallium	Lake Clause	1E-05	2E-04	0E+00		2E-04
Thallium	University Lake/ City Park Lake	1E-05	1E-04	0E+00		1E-04
Thallium	Comite River	1E-05	1E-05	0E+00		2E-05

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Fish Ponds	5E-08	0E+00	0E+00		5E-08
Antimony	Lake Clause	5E-08	0E+00	0E+00		5E-08
Antimony	University Lake/ City Park Lake	5E-08	0E+00	0E+00		5E-08
Antimony	Comite River	5E-08	0E+00	0E+00		5E-08
Arsenic	Fish Ponds	3E-06	8E-06	0E+00		1E-05
Arsenic	Lake Clause	3E-06	5E-06	0E+00		8E-06
Arsenic	University Lake/ City Park Lake	3E-06	4E-06	0E+00		7E-06
Arsenic	Comite River	3E-06	4E-07	0E+00		4E-06
Barium	Fish Ponds	5E-07	0E+00	0E+00	8E-05	5E-07
Barium	Lake Clause	5E-07	0E+00	0E+00	8E-05	5E-07
Barium	University Lake/ City Park Lake	5E-07	0E+00	0E+00	8E-05	5E-07
Barium	Comite River	5E-07	0E+00	0E+00	8E-05	5E-07
Beryllium	Fish Ponds	1E-07	5E-08	0E+00		2E-07
Beryllium	Lake Clause	1E-07	2E-08	0E+00		2E-07
Beryllium	University Lake/ City Park Lake	1E-07	1E-08	0E+00		2E-07
Beryllium	Comite River	1E-07	2E-09	0E+00		1E-07
Cadmium	Fish Ponds	3E-05	1E-03	0E+00		1E-03
Cadmium	Lake Clause	3E-05	7E-04	0E+00		8E-04
Cadmium	University Lake/ City Park Lake	3E-05	5E-04	0E+00		5E-04
Cadmium	Comite River	3E-05	6E-05	0E+00		9E-05
Chromium VI	Fish Ponds	3E-08	2E-08	0E+00		6E-08
Chromium VI	Lake Clause	3E-08	1E-08	0E+00		5E-08
Chromium VI	University Lake/ City Park Lake	3E-08	1E-08	0E+00		4E-08
Chromium VI	Comite River	3E-08	1E-09	0E+00		4E-08
Chromium III	Fish Ponds	1E-07	4E-10	0E+00		1E-07
Chromium III	Lake Clause	1E-07	2E-10	0E+00		1E-07
Chromium III	University Lake/ City Park Lake	1E-07	8E-11	0E+00		1E-07
Chromium III	Comite River	1E-07	3E-11	0E+00		1E-07
Cobalt	Fish Ponds	7E-09	0E+00	0E+00		7E-09
Cobalt	Lake Clause	7E-09	0E+00	0E+00		7E-09
Cobalt	University Lake/ City Park Lake	7E-09	0E+00	0E+00		7E-09
Cobalt	Comite River	7E-09	0E+00	0E+00		7E-09
Hydrogen Chloride	Fish Ponds				4E-04	
Hydrogen Chloride	Lake Clause				4E-04	
Hydrogen Chloride	University Lake/ City Park Lake				4E-04	
Hydrogen Chloride	Comite River				4E-04	
Selenium	Fish Ponds	1E-07	5E-04	0E+00		5E-04
Selenium	Lake Clause	1E-07	3E-04	0E+00		3E-04
Selenium	University Lake/ City Park Lake	1E-07	2E-04	0E+00		2E-04
Selenium	Comite River	1E-07	2E-05	0E+00		2E-05
Chlorine	Fish Ponds				6E-03	
Chlorine	Lake Clause				6E-03	
Chlorine	University Lake/ City Park Lake				6E-03	
Chlorine	Comite River				6E-03	
Methylmercury - Developmental Effects	Fish Ponds	2E-06	8E-04	0E+00		8E-04
Methylmercury - Developmental Effects	Lake Clause	2E-06	9E-03	0E+00		9E-03
Methylmercury - Developmental Effects	University Lake/ City Park Lake	2E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Comite River	2E-06	3E-04	0E+00		3E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Fish Ponds	5E-07	3E-04	0E+00		3E-04
Methylmercury - Neurological Effects	Lake Clause	5E-07	3E-03	0E+00		3E-03
Methylmercury - Neurological Effects	University Lake/ City Park Lake	5E-07	3E-04	0E+00		3E-04
Methylmercury - Neurological Effects	Comite River	5E-07	1E-04	0E+00		1E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fish Ponds	1E-09	8E-08	0E+00	2E-09	8E-08
2,3,7,8-TCDD-TEQ	Lake Clause	1E-09	2E-07	0E+00	2E-09	2E-07
2,3,7,8-TCDD-TEQ	University Lake/ City Park Lake	1E-09	4E-08	0E+00	2E-09	5E-08
2,3,7,8-TCDD-TEQ	Comite River	1E-09	6E-09	0E+00	2E-09	7E-09
Nickel	Fish Ponds				8E-09	
Nickel	Lake Clause				8E-09	
Nickel	University Lake/ City Park Lake				8E-09	
Nickel	Comite River				8E-09	
Arsenic	Fish Ponds	1E-10	9E-10	0E+00	2E-08	1E-09
Arsenic	Lake Clause	1E-10	6E-10	0E+00	2E-08	7E-10
Arsenic	University Lake/ City Park Lake	1E-10	4E-10	0E+00	2E-08	5E-10
Arsenic	Comite River	1E-10	4E-11	0E+00	2E-08	2E-10
Beryllium	Fish Ponds				1E-10	
Beryllium	Lake Clause				1E-10	
Beryllium	University Lake/ City Park Lake				1E-10	
Beryllium	Comite River				1E-10	
Cadmium	Fish Ponds				7E-08	
Cadmium	Lake Clause				7E-08	
Cadmium	University Lake/ City Park Lake				7E-08	
Cadmium	Comite River				7E-08	
Chromium VI	Fish Ponds				2E-08	
Chromium VI	Lake Clause				2E-08	
Chromium VI	University Lake/ City Park Lake				2E-08	
Chromium VI	Comite River				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Fish Ponds	1E-08	0E+00	0E+00	1E-03	1E-08
Manganese	Lake Clause	1E-08	0E+00	0E+00	1E-03	1E-08
Manganese	University Lake/ City Park Lake	1E-08	0E+00	0E+00	1E-03	1E-08
Manganese	Comite River	1E-08	0E+00	0E+00	1E-03	1E-08
Mercury (elemental)	Fish Ponds				3E-05	
Mercury (elemental)	Lake Clause				3E-05	
Mercury (elemental)	University Lake/ City Park Lake				3E-05	
Mercury (elemental)	Comite River				3E-05	
Mercury (divalent)	Fish Ponds	1E-05		0E+00		1E-05
Mercury (divalent)	Lake Clause	1E-05		0E+00		1E-05
Mercury (divalent)	University Lake/ City Park Lake	1E-05		0E+00		1E-05
Mercury (divalent)	Comite River	1E-05		0E+00		1E-05
Nickel	Fish Ponds	1E-07	2E-07	0E+00		3E-07
Nickel	Lake Clause	1E-07	1E-07	0E+00		2E-07
Nickel	University Lake/ City Park Lake	1E-07	9E-08	0E+00		2E-07
Nickel	Comite River	1E-07	1E-08	0E+00		1E-07
Silver	Fish Ponds	2E-10	0E+00	0E+00		2E-10
Silver	Lake Clause	2E-10	0E+00	0E+00		2E-10
Silver	University Lake/ City Park Lake	2E-10	0E+00	0E+00		2E-10
Silver	Comite River	2E-10	0E+00	0E+00		2E-10
Thallium	Fish Ponds	5E-06	2E-04	0E+00		3E-04
Thallium	Lake Clause	5E-06	2E-04	0E+00		2E-04
Thallium	University Lake/ City Park Lake	5E-06	1E-04	0E+00		1E-04
Thallium	Comite River	5E-06	1E-05	0E+00		2E-05

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Fish Ponds	2E-08	0E+00	0E+00		2E-08
Antimony	Lake Clause	2E-08	0E+00	0E+00		2E-08
Antimony	University Lake/ City Park Lake	2E-08	0E+00	0E+00		2E-08
Antimony	Comite River	2E-08	0E+00	0E+00		2E-08
Arsenic	Fish Ponds	1E-06	8E-06	0E+00		9E-06
Arsenic	Lake Clause	1E-06	5E-06	0E+00		6E-06
Arsenic	University Lake/ City Park Lake	1E-06	4E-06	0E+00		5E-06
Arsenic	Comite River	1E-06	4E-07	0E+00		2E-06
Barium	Fish Ponds	2E-07	0E+00	0E+00	8E-05	2E-07
Barium	Lake Clause	2E-07	0E+00	0E+00	8E-05	2E-07
Barium	University Lake/ City Park Lake	2E-07	0E+00	0E+00	8E-05	2E-07
Barium	Comite River	2E-07	0E+00	0E+00	8E-05	2E-07
Beryllium	Fish Ponds	6E-08	5E-08	0E+00		1E-07
Beryllium	Lake Clause	6E-08	2E-08	0E+00		8E-08
Beryllium	University Lake/ City Park Lake	6E-08	1E-08	0E+00		7E-08
Beryllium	Comite River	6E-08	2E-09	0E+00		6E-08
Cadmium	Fish Ponds	1E-05	1E-03	0E+00		1E-03
Cadmium	Lake Clause	1E-05	7E-04	0E+00		7E-04
Cadmium	University Lake/ City Park Lake	1E-05	5E-04	0E+00		5E-04
Cadmium	Comite River	1E-05	6E-05	0E+00		7E-05
Chromium VI	Fish Ponds	1E-08	2E-08	0E+00		4E-08
Chromium VI	Lake Clause	1E-08	1E-08	0E+00		3E-08
Chromium VI	University Lake/ City Park Lake	1E-08	1E-08	0E+00		2E-08
Chromium VI	Comite River	1E-08	1E-09	0E+00		2E-08
Chromium III	Fish Ponds	5E-08	4E-10	0E+00		5E-08
Chromium III	Lake Clause	5E-08	2E-10	0E+00		5E-08
Chromium III	University Lake/ City Park Lake	5E-08	8E-11	0E+00		5E-08
Chromium III	Comite River	5E-08	3E-11	0E+00		5E-08
Cobalt	Fish Ponds	3E-09	0E+00	0E+00		3E-09
Cobalt	Lake Clause	3E-09	0E+00	0E+00		3E-09
Cobalt	University Lake/ City Park Lake	3E-09	0E+00	0E+00		3E-09
Cobalt	Comite River	3E-09	0E+00	0E+00		3E-09
Hydrogen Chloride	Fish Ponds				4E-04	
Hydrogen Chloride	Lake Clause				4E-04	
Hydrogen Chloride	University Lake/ City Park Lake				4E-04	
Hydrogen Chloride	Comite River				4E-04	
Selenium	Fish Ponds	4E-08	5E-04	0E+00		5E-04
Selenium	Lake Clause	4E-08	3E-04	0E+00		3E-04
Selenium	University Lake/ City Park Lake	4E-08	2E-04	0E+00		2E-04
Selenium	Comite River	4E-08	2E-05	0E+00		2E-05
Chlorine	Fish Ponds				6E-03	
Chlorine	Lake Clause				6E-03	
Chlorine	University Lake/ City Park Lake				6E-03	
Chlorine	Comite River				6E-03	
Methylmercury - Developmental Effects	Fish Ponds	7E-07	8E-04	0E+00		8E-04
Methylmercury - Developmental Effects	Lake Clause	7E-07	9E-03	0E+00		9E-03
Methylmercury - Developmental Effects	University Lake/ City Park Lake	7E-07	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Comite River	7E-07	3E-04	0E+00		3E-04

Table IX-A4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 214) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Fish Ponds	2E-07	3E-04	0E+00		3E-04
Methylmercury - Neurological Effects	Lake Clause	2E-07	3E-03	0E+00		3E-03
Methylmercury - Neurological Effects	University Lake/ City Park Lake	2E-07	3E-04	0E+00		3E-04
Methylmercury - Neurological Effects	Comite River	2E-07	1E-04	0E+00		1E-04

Table IX-A5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	4E-11	4E-11	9E-11	2E-08	2E-07	2E-09	2E-08	1E-08	9E-09		2E-10	2E-07
Nickel												1E-08	
Arsenic	1E-08	6E-09	2E-09	1E-08	4E-08	7E-08	3E-09			1E-07		2E-07	3E-07
Beryllium												1E-10	
Cadmium												1E-08	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-06	2E-06	1E-06	4E-06	6E-07	3E-05	5E-08			0E+00		6E-03	4E-05
Mercury (elemental)												8E-04	
Mercury (divalent)	NA	2E-03	8E-06	4E-03	2E-03	3E-02	9E-07						3E-02
Nickel	4E-06	2E-06	9E-07	6E-06	6E-05	6E-04	3E-06			1E-05			7E-04
Silver	3E-08	4E-07	9E-08	1E-06	7E-06	3E-03	3E-07			0E+00			3E-03
Thallium	2E-03	2E-04	1E-05	5E-04	6E-02	2E-01	6E-03			1E-01			3E-01
Antimony	2E-05	8E-05	2E-05	2E-04	3E-04	2E-03	1E-05			0E+00			3E-03
Arsenic	3E-04	2E-04	6E-05	4E-04	1E-03	2E-03	7E-05			3E-03			7E-03
Barium	3E-05	3E-06	7E-07	5E-06	1E-06	2E-04	2E-07			0E+00		5E-04	2E-04
Beryllium	1E-06	2E-08	3E-09	4E-08	2E-07	7E-09	6E-08			7E-08			2E-06
Cadmium	5E-05	6E-05	3E-05	1E-04	6E-06	2E-05	9E-07			4E-03			4E-03
Chromium VI	5E-08	2E-08	6E-09	5E-08	6E-07	1E-05	4E-08			1E-07			1E-05
Chromium III	1E-06	1E-08	7E-09	3E-08	8E-07	9E-06	3E-07			8E-11			1E-05
Cobalt	4E-07	9E-08	5E-10	2E-07	8E-06	5E-05	6E-07			0E+00			6E-05
Hydrogen Chloride												6E-04	
Selenium	1E-07	1E-07	9E-08	4E-07	3E-06	3E-04	1E-05			3E-03			3E-03
Chlorine												2E-04	
Methylmercury - Developmental Effects	4E-06	7E-04	1E-06	7E-04	1E-03	2E-02	2E-07			7E-04			2E-02
Methylmercury - Neurological Effects	1E-06	2E-04	3E-07	2E-04	5E-04	7E-03	8E-08			2E-04			8E-03

Table IX-A5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	3E-11	3E-11	1E-10	3E-08	1E-07	2E-09	2E-08	1E-08	9E-09		2E-10	2E-07
Nickel												1E-08	
Arsenic	5E-09	5E-09	2E-09	2E-08	7E-08	5E-08	2E-09			1E-07		2E-07	3E-07
Beryllium												1E-10	
Cadmium												1E-08	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-07	1E-06	7E-07	4E-06	7E-07	2E-05	3E-08			0E+00		6E-03	2E-05
Mercury (elemental)												8E-04	
Mercury (divalent)	NA	1E-03	5E-06	4E-03	2E-03	1E-02	5E-07						2E-02
Nickel	1E-06	1E-06	6E-07	5E-06	7E-05	3E-04	2E-06			9E-06			4E-04
Silver	7E-09	2E-07	6E-08	1E-06	8E-06	1E-03	2E-07			0E+00			1E-03
Thallium	5E-04	1E-04	7E-06	5E-04	7E-02	8E-02	3E-03			8E-02			2E-01
Antimony	5E-06	5E-05	1E-05	2E-04	4E-04	1E-03	8E-06			0E+00			2E-03
Arsenic	9E-05	9E-05	4E-05	3E-04	1E-03	9E-04	4E-05			2E-03			5E-03
Barium	7E-06	1E-06	5E-07	5E-06	1E-06	8E-05	1E-07			0E+00		5E-04	9E-05
Beryllium	3E-07	9E-09	2E-09	4E-08	2E-07	4E-09	3E-08			5E-08			7E-07
Cadmium	1E-05	3E-05	2E-05	1E-04	7E-06	1E-05	6E-07			3E-03			3E-03
Chromium VI	1E-08	1E-08	4E-09	5E-08	8E-07	5E-06	2E-08			9E-08			6E-06
Chromium III	3E-07	6E-09	5E-09	3E-08	9E-07	5E-06	1E-07			6E-11			6E-06
Cobalt	1E-07	5E-08	3E-10	2E-07	9E-06	2E-05	4E-07			0E+00			3E-05
Hydrogen Chloride												6E-04	
Selenium	3E-08	8E-08	6E-08	4E-07	4E-06	1E-04	6E-06			2E-03			2E-03
Chlorine												2E-04	
Methylmercury - Developmental Effects	1E-06	4E-04	7E-07	6E-04	2E-03	1E-02	1E-07			6E-04			1E-02
Methylmercury - Neurological Effects	4E-07	1E-04	2E-07	2E-04	6E-04	4E-03	5E-08			2E-04			5E-03

Table IX-A5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	2E-11	2E-11	7E-11	1E-08	6E-08	1E-09	1E-08	6E-09	5E-09		1E-10	1E-07
Nickel												1E-08	
Arsenic	3E-09	4E-09	2E-09	1E-08	3E-08	2E-08	1E-09			6E-08		1E-07	1E-07
Beryllium												8E-11	
Cadmium												8E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-07	8E-07	5E-07	2E-06	3E-07	7E-06	2E-08			0E+00		6E-03	1E-05
Mercury (elemental)												8E-04	
Mercury (divalent)	9E-06	9E-04	4E-06	2E-03	9E-04	6E-03	3E-07			0E+00			1E-02
Nickel	6E-07	1E-06	5E-07	3E-06	3E-05	1E-04	1E-06			5E-06			2E-04
Silver	4E-09	2E-07	5E-08	5E-07	4E-06	6E-04	1E-07			0E+00			6E-04
Thallium	3E-04	8E-05	5E-06	3E-04	3E-02	4E-02	2E-03			4E-02			1E-01
Antimony	2E-06	4E-05	9E-06	1E-04	2E-04	5E-04	5E-06			0E+00			8E-04
Arsenic	5E-05	7E-05	3E-05	2E-04	6E-04	4E-04	3E-05			1E-03			2E-03
Barium	4E-06	1E-06	3E-07	3E-06	7E-07	4E-05	7E-08			0E+00		5E-04	4E-05
Beryllium	2E-07	7E-09	2E-09	2E-08	9E-08	2E-09	2E-08			3E-08			3E-07
Cadmium	7E-06	3E-05	1E-05	6E-05	3E-06	5E-06	4E-07			1E-03			2E-03
Chromium VI	7E-09	7E-09	3E-09	2E-08	3E-07	2E-06	1E-08			5E-08			3E-06
Chromium III	1E-07	5E-09	4E-09	1E-08	4E-07	2E-06	1E-07			3E-11			3E-06
Cobalt	5E-08	4E-08	2E-10	1E-07	4E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												6E-04	
Selenium	2E-08	6E-08	5E-08	2E-07	2E-06	6E-05	4E-06			1E-03			1E-03
Chlorine												2E-04	
Methylmercury - Developmental Effects	6E-07	3E-04	5E-07	3E-04	8E-04	5E-03	1E-07			3E-04			7E-03
Methylmercury - Neurological Effects	2E-07	1E-04	2E-07	1E-04	3E-04	2E-03	3E-08			1E-04			2E-03

Table IX-A5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	6E-11	5E-11	1E-10	3E-08	5E-08	2E-09	2E-08	1E-08	1E-08		2E-10	1E-07
Nickel												1E-08	
Arsenic	2E-09	8E-09	3E-09	2E-08	7E-08	2E-08	2E-09			1E-07		2E-07	2E-07
Beryllium												1E-10	
Cadmium												1E-08	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-08	1E-06	5E-07	2E-06	4E-07	3E-06	2E-08			0E+00		6E-03	7E-06
Mercury (elemental)												8E-04	
Mercury (divalent)	4E-06	1E-03	4E-06	2E-03	1E-03	3E-03	3E-07			0E+00			7E-03
Nickel	2E-07	1E-06	5E-07	3E-06	4E-05	6E-05	1E-06			5E-06			1E-04
Silver	2E-09	2E-07	5E-08	5E-07	4E-06	3E-04	9E-08			0E+00			3E-04
Thallium	1E-04	1E-04	6E-06	2E-04	3E-02	2E-02	2E-03			4E-02			1E-01
Antimony	1E-06	5E-05	1E-05	1E-04	2E-04	2E-04	5E-06			0E+00			6E-04
Arsenic	2E-05	9E-05	4E-05	2E-04	6E-04	2E-04	2E-05			1E-03			2E-03
Barium	1E-06	1E-06	4E-07	2E-06	8E-07	2E-05	6E-08			0E+00		5E-04	2E-05
Beryllium	7E-08	1E-08	2E-09	2E-08	1E-07	7E-10	2E-08			3E-08			3E-07
Cadmium	3E-06	4E-05	2E-05	6E-05	3E-06	2E-06	3E-07			2E-03			2E-03
Chromium VI	3E-09	1E-08	3E-09	2E-08	4E-07	1E-06	1E-08			5E-08			2E-06
Chromium III	5E-08	6E-09	4E-09	1E-08	5E-07	9E-07	8E-08			3E-11			2E-06
Cobalt	2E-08	5E-08	3E-10	1E-07	5E-06	5E-06	2E-07			0E+00			1E-05
Hydrogen Chloride												6E-04	
Selenium	7E-09	8E-08	5E-08	2E-07	2E-06	3E-05	4E-06			1E-03			1E-03
Chlorine												2E-04	
Methylmercury - Developmental Effects	2E-07	4E-04	6E-07	3E-04	9E-04	2E-03	8E-08			3E-04			4E-03
Methylmercury - Neurological Effects	8E-08	1E-04	2E-07	1E-04	3E-04	7E-04	3E-08			1E-04			1E-03

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Highlands Reservoir	1E-09	3E-09	1E-13	2E-10	5E-09
2,3,7,8-TCDD-TEQ	San Jacinto River / Houston Lake	1E-09	3E-10	1E-13	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	1E-09	8E-09	1E-13	2E-10	9E-09
Nickel	Highlands Reservoir				1E-08	
Nickel	San Jacinto River / Houston Lake				1E-08	
Nickel	Sheldon Reservoir				1E-08	
Arsenic	Highlands Reservoir	1E-08	4E-09	5E-10	2E-07	2E-08
Arsenic	San Jacinto River / Houston Lake	1E-08	5E-11	5E-10	2E-07	1E-08
Arsenic	Sheldon Reservoir	1E-08	1E-08	5E-10	2E-07	3E-08
Beryllium	Highlands Reservoir				1E-10	
Beryllium	San Jacinto River / Houston Lake				1E-10	
Beryllium	Sheldon Reservoir				1E-10	
Cadmium	Highlands Reservoir				1E-08	
Cadmium	San Jacinto River / Houston Lake				1E-08	
Cadmium	Sheldon Reservoir				1E-08	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	San Jacinto River / Houston Lake				2E-09	
Chromium VI	Sheldon Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Highlands Reservoir	1E-06	0E+00	2E-08	6E-03	1E-06
Manganese	San Jacinto River / Houston Lake	1E-06	0E+00	2E-08	6E-03	1E-06
Manganese	Sheldon Reservoir	1E-06	0E+00	2E-08	6E-03	1E-06
Mercury (elemental)	Highlands Reservoir				8E-04	
Mercury (elemental)	San Jacinto River / Houston Lake				8E-04	
Mercury (elemental)	Sheldon Reservoir				8E-04	
Mercury (divalent)	Highlands Reservoir	7E-05		9E-09		7E-05
Mercury (divalent)	San Jacinto River / Houston Lake	7E-05		9E-09		7E-05
Mercury (divalent)	Sheldon Reservoir	7E-05		9E-09		7E-05
Nickel	Highlands Reservoir	4E-06	4E-07	2E-07		5E-06
Nickel	San Jacinto River / Houston Lake	4E-06	5E-09	2E-07		4E-06
Nickel	Sheldon Reservoir	4E-06	1E-06	2E-07		6E-06
Silver	Highlands Reservoir	3E-08	0E+00	6E-08		8E-08
Silver	San Jacinto River / Houston Lake	3E-08	0E+00	6E-08		8E-08
Silver	Sheldon Reservoir	3E-08	0E+00	6E-08		8E-08
Thallium	Highlands Reservoir	2E-03	5E-03	3E-05		7E-03
Thallium	San Jacinto River / Houston Lake	2E-03	6E-05	3E-05		2E-03
Thallium	Sheldon Reservoir	2E-03	2E-02	3E-05		2E-02
Antimony	Highlands Reservoir	2E-05	0E+00	9E-06		3E-05
Antimony	San Jacinto River / Houston Lake	2E-05	0E+00	9E-06		3E-05
Antimony	Sheldon Reservoir	2E-05	0E+00	9E-06		3E-05
Arsenic	Highlands Reservoir	3E-04	1E-04	1E-05		4E-04
Arsenic	San Jacinto River / Houston Lake	3E-04	1E-06	1E-05		3E-04
Arsenic	Sheldon Reservoir	3E-04	3E-04	1E-05		7E-04
Barium	Highlands Reservoir	3E-05	0E+00	2E-08	5E-04	3E-05
Barium	San Jacinto River / Houston Lake	3E-05	0E+00	2E-08	5E-04	3E-05
Barium	Sheldon Reservoir	3E-05	0E+00	2E-08	5E-04	3E-05
Beryllium	Highlands Reservoir	1E-06	6E-08	1E-09		1E-06
Beryllium	San Jacinto River / Houston Lake	1E-06	7E-10	1E-09		1E-06
Beryllium	Sheldon Reservoir	1E-06	2E-07	1E-09		1E-06

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Highlands Reservoir	5E-05	2E-04	1E-06		3E-04
Cadmium	San Jacinto River / Houston Lake	5E-05	3E-06	1E-06		6E-05
Cadmium	Sheldon Reservoir	5E-05	7E-04	1E-06		8E-04
Chromium VI	Highlands Reservoir	5E-08	4E-09	3E-09		6E-08
Chromium VI	San Jacinto River / Houston Lake	5E-08	5E-11	3E-09		5E-08
Chromium VI	Sheldon Reservoir	5E-08	1E-08	3E-09		7E-08
Chromium III	Highlands Reservoir	1E-06	1E-09	4E-12		1E-06
Chromium III	San Jacinto River / Houston Lake	1E-06	2E-11	4E-12		1E-06
Chromium III	Sheldon Reservoir	1E-06	4E-09	4E-12		1E-06
Cobalt	Highlands Reservoir	4E-07	0E+00	4E-12		4E-07
Cobalt	San Jacinto River / Houston Lake	4E-07	0E+00	4E-12		4E-07
Cobalt	Sheldon Reservoir	4E-07	0E+00	4E-12		4E-07
Hydrogen Chloride	Highlands Reservoir				6E-04	
Hydrogen Chloride	San Jacinto River / Houston Lake				6E-04	
Hydrogen Chloride	Sheldon Reservoir				6E-04	
Selenium	Highlands Reservoir	1E-07	7E-05	3E-08		7E-05
Selenium	San Jacinto River / Houston Lake	1E-07	1E-06	3E-08		1E-06
Selenium	Sheldon Reservoir	1E-07	3E-04	3E-08		3E-04
Chlorine	Highlands Reservoir				2E-04	
Chlorine	San Jacinto River / Houston Lake				2E-04	
Chlorine	Sheldon Reservoir				2E-04	
Methylmercury - Developmental Effects	Highlands Reservoir	4E-06	2E-04	9E-11		2E-04
Methylmercury - Developmental Effects	San Jacinto River / Houston Lake	4E-06	1E-05	9E-11		2E-05
Methylmercury - Developmental Effects	Sheldon Reservoir	4E-06	2E-04	9E-11		2E-04
Methylmercury - Neurological Effects	Highlands Reservoir	1E-06	7E-05	3E-11		8E-05
Methylmercury - Neurological Effects	San Jacinto River / Houston Lake	1E-06	4E-06	3E-11		6E-06
Methylmercury - Neurological Effects	Sheldon Reservoir	1E-06	7E-05	3E-11		7E-05

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Highlands Reservoir	4E-10	5E-09	1E-13	2E-10	5E-09
2,3,7,8-TCDD-TEQ	San Jacinto River / Houston Lake	4E-10	4E-10	1E-13	2E-10	8E-10
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	4E-10	1E-08	1E-13	2E-10	1E-08
Nickel	Highlands Reservoir				1E-08	
Nickel	San Jacinto River / Houston Lake				1E-08	
Nickel	Sheldon Reservoir				1E-08	
Arsenic	Highlands Reservoir	5E-09	5E-09	4E-10	2E-07	1E-08
Arsenic	San Jacinto River / Houston Lake	5E-09	7E-11	4E-10	2E-07	5E-09
Arsenic	Sheldon Reservoir	5E-09	2E-08	4E-10	2E-07	2E-08
Beryllium	Highlands Reservoir				1E-10	
Beryllium	San Jacinto River / Houston Lake				1E-10	
Beryllium	Sheldon Reservoir				1E-10	
Cadmium	Highlands Reservoir				1E-08	
Cadmium	San Jacinto River / Houston Lake				1E-08	
Cadmium	Sheldon Reservoir				1E-08	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	San Jacinto River / Houston Lake				2E-09	
Chromium VI	Sheldon Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Highlands Reservoir	4E-07	0E+00	1E-08	6E-03	4E-07
Manganese	San Jacinto River / Houston Lake	4E-07	0E+00	1E-08	6E-03	4E-07
Manganese	Sheldon Reservoir	4E-07	0E+00	1E-08	6E-03	4E-07
Mercury (elemental)	Highlands Reservoir				8E-04	
Mercury (elemental)	San Jacinto River / Houston Lake				8E-04	
Mercury (elemental)	Sheldon Reservoir				8E-04	
Mercury (divalent)	Highlands Reservoir	2E-05		5E-09		2E-05
Mercury (divalent)	San Jacinto River / Houston Lake	2E-05		5E-09		2E-05
Mercury (divalent)	Sheldon Reservoir	2E-05		5E-09		2E-05
Nickel	Highlands Reservoir	1E-06	4E-07	1E-07		2E-06
Nickel	San Jacinto River / Houston Lake	1E-06	5E-09	1E-07		1E-06
Nickel	Sheldon Reservoir	1E-06	1E-06	1E-07		3E-06
Silver	Highlands Reservoir	7E-09	0E+00	3E-08		4E-08
Silver	San Jacinto River / Houston Lake	7E-09	0E+00	3E-08		4E-08
Silver	Sheldon Reservoir	7E-09	0E+00	3E-08		4E-08
Thallium	Highlands Reservoir	5E-04	5E-03	2E-05		5E-03
Thallium	San Jacinto River / Houston Lake	5E-04	6E-05	2E-05		6E-04
Thallium	Sheldon Reservoir	5E-04	2E-02	2E-05		2E-02
Antimony	Highlands Reservoir	5E-06	0E+00	5E-06		1E-05
Antimony	San Jacinto River / Houston Lake	5E-06	0E+00	5E-06		1E-05
Antimony	Sheldon Reservoir	5E-06	0E+00	5E-06		1E-05
Arsenic	Highlands Reservoir	9E-05	1E-04	7E-06		2E-04
Arsenic	San Jacinto River / Houston Lake	9E-05	1E-06	7E-06		1E-04
Arsenic	Sheldon Reservoir	9E-05	3E-04	7E-06		4E-04
Barium	Highlands Reservoir	7E-06	0E+00	1E-08	5E-04	7E-06
Barium	San Jacinto River / Houston Lake	7E-06	0E+00	1E-08	5E-04	7E-06
Barium	Sheldon Reservoir	7E-06	0E+00	1E-08	5E-04	7E-06
Beryllium	Highlands Reservoir	3E-07	6E-08	6E-10		4E-07
Beryllium	San Jacinto River / Houston Lake	3E-07	7E-10	6E-10		3E-07
Beryllium	Sheldon Reservoir	3E-07	2E-07	6E-10		5E-07

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Highlands Reservoir	1E-05	2E-04	5E-07		2E-04
Cadmium	San Jacinto River / Houston Lake	1E-05	3E-06	5E-07		2E-05
Cadmium	Sheldon Reservoir	1E-05	7E-04	5E-07		7E-04
Chromium VI	Highlands Reservoir	1E-08	4E-09	2E-09		2E-08
Chromium VI	San Jacinto River / Houston Lake	1E-08	5E-11	2E-09		1E-08
Chromium VI	Sheldon Reservoir	1E-08	1E-08	2E-09		3E-08
Chromium III	Highlands Reservoir	3E-07	1E-09	2E-12		3E-07
Chromium III	San Jacinto River / Houston Lake	3E-07	2E-11	2E-12		3E-07
Chromium III	Sheldon Reservoir	3E-07	4E-09	2E-12		3E-07
Cobalt	Highlands Reservoir	1E-07	0E+00	2E-12		1E-07
Cobalt	San Jacinto River / Houston Lake	1E-07	0E+00	2E-12		1E-07
Cobalt	Sheldon Reservoir	1E-07	0E+00	2E-12		1E-07
Hydrogen Chloride	Highlands Reservoir				6E-04	
Hydrogen Chloride	San Jacinto River / Houston Lake				6E-04	
Hydrogen Chloride	Sheldon Reservoir				6E-04	
Selenium	Highlands Reservoir	3E-08	7E-05	2E-08		7E-05
Selenium	San Jacinto River / Houston Lake	3E-08	1E-06	2E-08		1E-06
Selenium	Sheldon Reservoir	3E-08	3E-04	2E-08		3E-04
Chlorine	Highlands Reservoir				2E-04	
Chlorine	San Jacinto River / Houston Lake				2E-04	
Chlorine	Sheldon Reservoir				2E-04	
Methylmercury - Developmental Effects	Highlands Reservoir	1E-06	2E-04	5E-11		2E-04
Methylmercury - Developmental Effects	San Jacinto River / Houston Lake	1E-06	1E-05	5E-11		1E-05
Methylmercury - Developmental Effects	Sheldon Reservoir	1E-06	2E-04	5E-11		2E-04
Methylmercury - Neurological Effects	Highlands Reservoir	4E-07	7E-05	2E-11		7E-05
Methylmercury - Neurological Effects	San Jacinto River / Houston Lake	4E-07	4E-06	2E-11		5E-06
Methylmercury - Neurological Effects	Sheldon Reservoir	4E-07	7E-05	2E-11		7E-05

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Highlands Reservoir	2E-10	3E-09	7E-14	1E-10	4E-09
2,3,7,8-TCDD-TEQ	San Jacinto River / Houston Lake	2E-10	3E-10	7E-14	1E-10	5E-10
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	2E-10	8E-09	7E-14	1E-10	8E-09
Nickel	Highlands Reservoir				1E-08	
Nickel	San Jacinto River / Houston Lake				1E-08	
Nickel	Sheldon Reservoir				1E-08	
Arsenic	Highlands Reservoir	3E-09	4E-09	3E-10	1E-07	7E-09
Arsenic	San Jacinto River / Houston Lake	3E-09	5E-11	3E-10	1E-07	3E-09
Arsenic	Sheldon Reservoir	3E-09	1E-08	3E-10	1E-07	2E-08
Beryllium	Highlands Reservoir				8E-11	
Beryllium	San Jacinto River / Houston Lake				8E-11	
Beryllium	Sheldon Reservoir				8E-11	
Cadmium	Highlands Reservoir				8E-09	
Cadmium	San Jacinto River / Houston Lake				8E-09	
Cadmium	Sheldon Reservoir				8E-09	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	San Jacinto River / Houston Lake				2E-09	
Chromium VI	Sheldon Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Highlands Reservoir	2E-07	0E+00	9E-09	6E-03	2E-07
Manganese	San Jacinto River / Houston Lake	2E-07	0E+00	9E-09	6E-03	2E-07
Manganese	Sheldon Reservoir	2E-07	0E+00	9E-09	6E-03	2E-07
Mercury (elemental)	Highlands Reservoir				8E-04	
Mercury (elemental)	San Jacinto River / Houston Lake				8E-04	
Mercury (elemental)	Sheldon Reservoir				8E-04	
Mercury (divalent)	Highlands Reservoir	9E-06		3E-09		9E-06
Mercury (divalent)	San Jacinto River / Houston Lake	9E-06		3E-09		9E-06
Mercury (divalent)	Sheldon Reservoir	9E-06		3E-09		9E-06
Nickel	Highlands Reservoir	6E-07	3E-07	8E-08		9E-07
Nickel	San Jacinto River / Houston Lake	6E-07	4E-09	8E-08		7E-07
Nickel	Sheldon Reservoir	6E-07	1E-06	8E-08		2E-06
Silver	Highlands Reservoir	4E-09	0E+00	2E-08		2E-08
Silver	San Jacinto River / Houston Lake	4E-09	0E+00	2E-08		2E-08
Silver	Sheldon Reservoir	4E-09	0E+00	2E-08		2E-08
Thallium	Highlands Reservoir	3E-04	3E-03	1E-05		4E-03
Thallium	San Jacinto River / Houston Lake	3E-04	4E-05	1E-05		3E-04
Thallium	Sheldon Reservoir	3E-04	1E-02	1E-05		1E-02
Antimony	Highlands Reservoir	2E-06	0E+00	3E-06		6E-06
Antimony	San Jacinto River / Houston Lake	2E-06	0E+00	3E-06		6E-06
Antimony	Sheldon Reservoir	2E-06	0E+00	3E-06		6E-06
Arsenic	Highlands Reservoir	5E-05	7E-05	5E-06		1E-04
Arsenic	San Jacinto River / Houston Lake	5E-05	9E-07	5E-06		5E-05
Arsenic	Sheldon Reservoir	5E-05	2E-04	5E-06		3E-04
Barium	Highlands Reservoir	4E-06	0E+00	6E-09	5E-04	4E-06
Barium	San Jacinto River / Houston Lake	4E-06	0E+00	6E-09	5E-04	4E-06
Barium	Sheldon Reservoir	4E-06	0E+00	6E-09	5E-04	4E-06
Beryllium	Highlands Reservoir	2E-07	4E-08	4E-10		2E-07
Beryllium	San Jacinto River / Houston Lake	2E-07	5E-10	4E-10		2E-07
Beryllium	Sheldon Reservoir	2E-07	2E-07	4E-10		3E-07

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Highlands Reservoir	7E-06	1E-04	4E-07		2E-04
Cadmium	San Jacinto River / Houston Lake	7E-06	2E-06	4E-07		1E-05
Cadmium	Sheldon Reservoir	7E-06	5E-04	4E-07		5E-04
Chromium VI	Highlands Reservoir	7E-09	3E-09	1E-09		1E-08
Chromium VI	San Jacinto River / Houston Lake	7E-09	4E-11	1E-09		8E-09
Chromium VI	Sheldon Reservoir	7E-09	1E-08	1E-09		2E-08
Chromium III	Highlands Reservoir	1E-07	7E-10	1E-12		1E-07
Chromium III	San Jacinto River / Houston Lake	1E-07	1E-11	1E-12		1E-07
Chromium III	Sheldon Reservoir	1E-07	3E-09	1E-12		1E-07
Cobalt	Highlands Reservoir	5E-08	0E+00	3E-09		5E-08
Cobalt	San Jacinto River / Houston Lake	5E-08	0E+00	3E-09		5E-08
Cobalt	Sheldon Reservoir	5E-08	0E+00	3E-09		5E-08
Hydrogen Chloride	Highlands Reservoir				6E-04	
Hydrogen Chloride	San Jacinto River / Houston Lake				6E-04	
Hydrogen Chloride	Sheldon Reservoir				6E-04	
Selenium	Highlands Reservoir	2E-08	5E-05	1E-08		5E-05
Selenium	San Jacinto River / Houston Lake	2E-08	7E-07	1E-08		8E-07
Selenium	Sheldon Reservoir	2E-08	2E-04	1E-08		2E-04
Chlorine	Highlands Reservoir				2E-04	
Chlorine	San Jacinto River / Houston Lake				2E-04	
Chlorine	Sheldon Reservoir				2E-04	
Methylmercury - Developmental Effects	Highlands Reservoir	6E-07	2E-04	3E-11		2E-04
Methylmercury - Developmental Effects	San Jacinto River / Houston Lake	6E-07	1E-05	3E-11		1E-05
Methylmercury - Developmental Effects	Sheldon Reservoir	6E-07	2E-04	3E-11		2E-04
Methylmercury - Neurological Effects	Highlands Reservoir	2E-07	5E-05	1E-11		5E-05
Methylmercury - Neurological Effects	San Jacinto River / Houston Lake	2E-07	3E-06	1E-11		3E-06
Methylmercury - Neurological Effects	Sheldon Reservoir	2E-07	5E-05	1E-11		5E-05

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Highlands Reservoir	1E-10	6E-09	2E-13	2E-10	7E-09
2,3,7,8-TCDD-TEQ	San Jacinto River / Houston Lake	1E-10	6E-10	2E-13	2E-10	7E-10
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	1E-10	1E-08	2E-13	2E-10	1E-08
Nickel	Highlands Reservoir				1E-08	
Nickel	San Jacinto River / Houston Lake				1E-08	
Nickel	Sheldon Reservoir				1E-08	
Arsenic	Highlands Reservoir	2E-09	7E-09	6E-10	2E-07	1E-08
Arsenic	San Jacinto River / Houston Lake	2E-09	1E-10	6E-10	2E-07	3E-09
Arsenic	Sheldon Reservoir	2E-09	3E-08	6E-10	2E-07	3E-08
Beryllium	Highlands Reservoir				1E-10	
Beryllium	San Jacinto River / Houston Lake				1E-10	
Beryllium	Sheldon Reservoir				1E-10	
Cadmium	Highlands Reservoir				1E-08	
Cadmium	San Jacinto River / Houston Lake				1E-08	
Cadmium	Sheldon Reservoir				1E-08	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	San Jacinto River / Houston Lake				2E-09	
Chromium VI	Sheldon Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Highlands Reservoir	8E-08	0E+00	1E-08	6E-03	9E-08
Manganese	San Jacinto River / Houston Lake	8E-08	0E+00	1E-08	6E-03	9E-08
Manganese	Sheldon Reservoir	8E-08	0E+00	1E-08	6E-03	9E-08
Mercury (elemental)	Highlands Reservoir				8E-04	
Mercury (elemental)	San Jacinto River / Houston Lake				8E-04	
Mercury (elemental)	Sheldon Reservoir				8E-04	
Mercury (divalent)	Highlands Reservoir	4E-06		4E-09		4E-06
Mercury (divalent)	San Jacinto River / Houston Lake	4E-06		4E-09		4E-06
Mercury (divalent)	Sheldon Reservoir	4E-06		4E-09		4E-06
Nickel	Highlands Reservoir	2E-07	3E-07	9E-08		6E-07
Nickel	San Jacinto River / Houston Lake	2E-07	4E-09	9E-08		3E-07
Nickel	Sheldon Reservoir	2E-07	1E-06	9E-08		1E-06
Silver	Highlands Reservoir	2E-09	0E+00	2E-08		3E-08
Silver	San Jacinto River / Houston Lake	2E-09	0E+00	2E-08		3E-08
Silver	Sheldon Reservoir	2E-09	0E+00	2E-08		3E-08
Thallium	Highlands Reservoir	1E-04	3E-03	1E-05		3E-03
Thallium	San Jacinto River / Houston Lake	1E-04	4E-05	1E-05		2E-04
Thallium	Sheldon Reservoir	1E-04	1E-02	1E-05		1E-02
Antimony	Highlands Reservoir	1E-06	0E+00	4E-06		5E-06
Antimony	San Jacinto River / Houston Lake	1E-06	0E+00	4E-06		5E-06
Antimony	Sheldon Reservoir	1E-06	0E+00	4E-06		5E-06
Arsenic	Highlands Reservoir	2E-05	7E-05	5E-06		9E-05
Arsenic	San Jacinto River / Houston Lake	2E-05	9E-07	5E-06		2E-05
Arsenic	Sheldon Reservoir	2E-05	2E-04	5E-06		3E-04
Barium	Highlands Reservoir	1E-06	0E+00	7E-09	5E-04	1E-06
Barium	San Jacinto River / Houston Lake	1E-06	0E+00	7E-09	5E-04	1E-06
Barium	Sheldon Reservoir	1E-06	0E+00	7E-09	5E-04	1E-06
Beryllium	Highlands Reservoir	7E-08	4E-08	4E-10		1E-07
Beryllium	San Jacinto River / Houston Lake	7E-08	5E-10	4E-10		7E-08
Beryllium	Sheldon Reservoir	7E-08	2E-07	4E-10		2E-07

Table IX-A6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 221) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Highlands Reservoir	3E-06	1E-04	4E-07		1E-04
Cadmium	San Jacinto River / Houston Lake	3E-06	2E-06	4E-07		5E-06
Cadmium	Sheldon Reservoir	3E-06	5E-04	4E-07		5E-04
Chromium VI	Highlands Reservoir	3E-09	3E-09	1E-09		7E-09
Chromium VI	San Jacinto River / Houston Lake	3E-09	4E-11	1E-09		4E-09
Chromium VI	Sheldon Reservoir	3E-09	1E-08	1E-09		1E-08
Chromium III	Highlands Reservoir	5E-08	7E-10	2E-12		5E-08
Chromium III	San Jacinto River / Houston Lake	5E-08	1E-11	2E-12		5E-08
Chromium III	Sheldon Reservoir	5E-08	3E-09	2E-12		6E-08
Cobalt	Highlands Reservoir	2E-08	0E+00	4E-09		2E-08
Cobalt	San Jacinto River / Houston Lake	2E-08	0E+00	4E-09		2E-08
Cobalt	Sheldon Reservoir	2E-08	0E+00	4E-09		2E-08
Hydrogen Chloride	Highlands Reservoir				6E-04	
Hydrogen Chloride	San Jacinto River / Houston Lake				6E-04	
Hydrogen Chloride	Sheldon Reservoir				6E-04	
Selenium	Highlands Reservoir	7E-09	5E-05	1E-08		5E-05
Selenium	San Jacinto River / Houston Lake	7E-09	7E-07	1E-08		8E-07
Selenium	Sheldon Reservoir	7E-09	2E-04	1E-08		2E-04
Chlorine	Highlands Reservoir				2E-04	
Chlorine	San Jacinto River / Houston Lake				2E-04	
Chlorine	Sheldon Reservoir				2E-04	
Methylmercury - Developmental Effects	Highlands Reservoir	2E-07	2E-04	4E-11		2E-04
Methylmercury - Developmental Effects	San Jacinto River / Houston Lake	2E-07	1E-05	4E-11		1E-05
Methylmercury - Developmental Effects	Sheldon Reservoir	2E-07	2E-04	4E-11		2E-04
Methylmercury - Neurological Effects	Highlands Reservoir	8E-08	5E-05	1E-11		5E-05
Methylmercury - Neurological Effects	San Jacinto River / Houston Lake	8E-08	3E-06	1E-11		3E-06
Methylmercury - Neurological Effects	Sheldon Reservoir	8E-08	5E-05	1E-11		5E-05

Table IX-A7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	5E-10	4E-10	1E-09	2E-07	2E-06	3E-08	3E-07	1E-07	9E-08		9E-10	3E-06
Nickel												1E-11	
Arsenic	1E-09	7E-10	3E-10	2E-09	6E-09	1E-08	3E-10			9E-09		1E-08	3E-08
Beryllium												9E-12	
Cadmium												1E-10	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	4E-07	2E-07	7E-07	1E-07	6E-06	9E-09			0E+00		5E-04	8E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	2E-05	6E-05	2E-04	2E-03	4E-07						3E-03
Nickel	7E-09	4E-09	2E-09	1E-08	1E-07	1E-06	6E-09			1E-08			1E-06
Silver	9E-11	1E-09	3E-10	4E-09	3E-08	1E-05	1E-09			0E+00			1E-05
Thallium	2E-06	2E-07	1E-08	6E-07	7E-05	2E-04	6E-06			9E-05			4E-04
Antimony	6E-09	3E-08	6E-09	7E-08	1E-07	8E-07	5E-09			0E+00			1E-06
Arsenic	4E-05	2E-05	7E-06	4E-05	1E-04	2E-04	8E-06			2E-04			7E-04
Barium	5E-06	5E-07	1E-07	1E-06	2E-07	3E-05	4E-08			0E+00		4E-05	4E-05
Beryllium	2E-07	3E-09	6E-10	8E-09	4E-08	1E-09	1E-08			1E-08			3E-07
Cadmium	1E-06	2E-06	8E-07	3E-06	2E-07	6E-07	3E-08			8E-05			9E-05
Chromium VI	6E-09	2E-09	7E-10	6E-09	9E-08	1E-06	4E-09			1E-08			1E-06
Chromium III	2E-07	3E-09	2E-09	8E-09	2E-07	2E-06	7E-08			2E-11			3E-06
Cobalt	6E-08	2E-08	9E-11	4E-08	2E-06	9E-06	1E-07			0E+00			1E-05
Hydrogen Chloride												1E-03	
Selenium	5E-09	7E-09	4E-09	2E-08	2E-07	1E-05	5E-07			7E-05			9E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	9E-06	1E-05	2E-06	9E-06	2E-05	3E-04	2E-08			3E-04			7E-04
Methylmercury - Neurological Effects	3E-06	3E-06	7E-07	3E-06	8E-06	1E-04	8E-09			9E-05			2E-04

Table IX-A7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	4E-10	3E-10	1E-09	4E-07	2E-06	2E-08	3E-07	2E-07	9E-08		1E-09	3E-06
Nickel												1E-11	
Arsenic	5E-10	6E-10	3E-10	2E-09	9E-09	7E-09	3E-10			9E-09		1E-08	3E-08
Beryllium												1E-11	
Cadmium												2E-10	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	7E-07	1E-07	3E-06	5E-09			0E+00		5E-04	4E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	1E-05	6E-05	2E-04	1E-03	2E-07						1E-03
Nickel	2E-09	2E-09	1E-09	1E-08	1E-07	5E-07	3E-09			1E-08			7E-07
Silver	2E-11	8E-10	2E-10	4E-09	3E-08	5E-06	6E-10			0E+00			5E-06
Thallium	6E-07	1E-07	9E-09	6E-07	8E-05	1E-04	4E-06			7E-05			3E-04
Antimony	1E-09	2E-08	4E-09	7E-08	2E-07	4E-07	3E-09			0E+00			7E-07
Arsenic	9E-06	1E-05	5E-06	4E-05	2E-04	1E-04	5E-06			2E-04			5E-04
Barium	1E-06	3E-07	9E-08	1E-06	3E-07	2E-05	2E-08			0E+00		4E-05	2E-05
Beryllium	6E-08	2E-09	4E-10	8E-09	4E-08	7E-10	7E-09			9E-09			1E-07
Cadmium	4E-07	1E-06	6E-07	3E-06	2E-07	3E-07	2E-08			6E-05			6E-05
Chromium VI	1E-09	1E-09	5E-10	6E-09	1E-07	7E-07	3E-09			7E-09			8E-07
Chromium III	7E-08	2E-09	1E-09	8E-09	2E-07	1E-06	4E-08			1E-11			2E-06
Cobalt	2E-08	1E-08	6E-11	4E-08	2E-06	5E-06	7E-08			0E+00			7E-06
Hydrogen Chloride												1E-03	
Selenium	1E-09	4E-09	2E-09	2E-08	2E-07	7E-06	3E-07			6E-05			6E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	2E-06	5E-06	2E-06	9E-06	3E-05	2E-04	1E-08			2E-04			4E-04
Methylmercury - Neurological Effects	8E-07	2E-06	5E-07	3E-06	1E-05	6E-05	5E-09			7E-05			1E-04

Table IX-A7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	3E-10	2E-10	8E-10	2E-07	8E-07	2E-08	2E-07	8E-08	5E-08		6E-10	1E-06
Nickel												7E-12	
Arsenic	3E-10	4E-10	2E-10	1E-09	4E-09	3E-09	2E-10			5E-09		8E-09	1E-08
Beryllium												7E-12	
Cadmium												1E-10	
Chromium VI												8E-11	
	Noncarcinogenic Chemicals												
Manganese	3E-08	2E-07	9E-08	4E-07	6E-08	1E-06	3E-09			0E+00		5E-04	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	2E-05	1E-05	8E-06	3E-05	1E-04	5E-04	1E-07			0E+00			7E-04
Nickel	9E-10	2E-09	8E-10	5E-09	6E-08	3E-07	2E-09			6E-09			3E-07
Silver	1E-11	6E-10	2E-10	2E-09	1E-08	2E-06	4E-10			0E+00			2E-06
Thallium	3E-07	1E-07	6E-09	3E-07	4E-05	5E-05	2E-06			3E-05			1E-04
Antimony	8E-10	1E-08	3E-09	4E-08	7E-08	2E-07	2E-09			0E+00			3E-07
Arsenic	5E-06	8E-06	4E-06	2E-05	7E-05	6E-05	3E-06			9E-05			3E-04
Barium	7E-07	2E-07	6E-08	5E-07	1E-07	7E-06	1E-08			0E+00		4E-05	9E-06
Beryllium	3E-08	1E-09	3E-10	4E-09	2E-08	3E-10	4E-09			5E-09			7E-08
Cadmium	2E-07	8E-07	4E-07	2E-06	9E-08	1E-07	1E-08			3E-05			3E-05
Chromium VI	8E-10	1E-09	4E-10	3E-09	5E-08	3E-07	2E-09			4E-09			4E-07
Chromium III	3E-08	1E-09	9E-10	4E-09	1E-07	6E-07	3E-08			7E-12			7E-07
Cobalt	9E-09	8E-09	4E-11	2E-08	9E-07	2E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												1E-03	
Selenium	7E-10	3E-09	2E-09	1E-08	8E-08	3E-06	2E-07			3E-05			3E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	1E-06	4E-06	1E-06	5E-06	1E-05	8E-05	9E-09			1E-04			2E-04
Methylmercury - Neurological Effects	4E-07	1E-06	4E-07	2E-06	4E-06	3E-05	3E-09			4E-05			7E-05

Table IX-A7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	7E-10	5E-10	1E-09	4E-07	6E-07	2E-08	3E-07	1E-07	1E-07		9E-10	2E-06
Nickel												1E-11	
Arsenic	2E-10	1E-09	4E-10	2E-09	9E-09	3E-09	3E-10			1E-08		1E-08	3E-08
Beryllium												1E-11	
Cadmium												1E-10	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	1E-07	3E-07	7E-08	6E-07	3E-09			0E+00		5E-04	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	8E-06	2E-05	9E-06	3E-05	1E-04	2E-04	1E-07			0E+00			4E-04
Nickel	4E-10	2E-09	9E-10	5E-09	7E-08	1E-07	2E-09			6E-09			2E-07
Silver	5E-12	9E-10	2E-10	2E-09	2E-08	1E-06	3E-10			0E+00			1E-06
Thallium	1E-07	1E-07	7E-09	3E-07	4E-05	2E-05	2E-06			4E-05			1E-04
Antimony	3E-10	2E-08	3E-09	4E-08	8E-08	8E-08	2E-09			0E+00			2E-07
Arsenic	2E-06	1E-05	4E-06	2E-05	8E-05	2E-05	3E-06			1E-04			3E-04
Barium	3E-07	3E-07	7E-08	5E-07	1E-07	3E-06	1E-08			0E+00		4E-05	4E-06
Beryllium	1E-08	2E-09	3E-10	4E-09	2E-08	1E-10	4E-09			5E-09			5E-08
Cadmium	8E-08	1E-06	5E-07	2E-06	1E-07	6E-08	9E-09			3E-05			4E-05
Chromium VI	3E-10	1E-09	4E-10	3E-09	5E-08	1E-07	1E-09			4E-09			2E-07
Chromium III	1E-08	2E-09	1E-09	4E-09	1E-07	3E-07	2E-08			8E-12			4E-07
Cobalt	4E-09	1E-08	5E-11	2E-08	1E-06	9E-07	4E-08			0E+00			2E-06
Hydrogen Chloride												1E-03	
Selenium	3E-10	4E-09	2E-09	9E-09	9E-08	1E-06	2E-07			3E-05			3E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	5E-07	6E-06	1E-06	4E-06	1E-05	3E-05	8E-09			1E-04			2E-04
Methylmercury - Neurological Effects	2E-07	2E-06	4E-07	1E-06	5E-06	1E-05	3E-09			4E-05			6E-05

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Shades Creek	1E-08	3E-08	4E-12	9E-10	4E-08
2,3,7,8-TCDD-TEQ	Valley Creek	1E-08	2E-07	4E-12	9E-10	2E-07
2,3,7,8-TCDD-TEQ	Cahaba River	1E-08	9E-09	4E-12	9E-10	2E-08
2,3,7,8-TCDD-TEQ	Bayview Lake	1E-08	2E-07	4E-12	9E-10	2E-07
Nickel	Shades Creek				1E-11	
Nickel	Valley Creek				1E-11	
Nickel	Cahaba River				1E-11	
Nickel	Bayview Lake				1E-11	
Arsenic	Shades Creek	1E-09	4E-11	7E-11	1E-08	2E-09
Arsenic	Valley Creek	1E-09	3E-10	7E-11	1E-08	2E-09
Arsenic	Cahaba River	1E-09	7E-12	7E-11	1E-08	2E-09
Arsenic	Bayview Lake	1E-09	1E-09	7E-11	1E-08	3E-09
Beryllium	Shades Creek				9E-12	
Beryllium	Valley Creek				9E-12	
Beryllium	Cahaba River				9E-12	
Beryllium	Bayview Lake				9E-12	
Cadmium	Shades Creek				1E-10	
Cadmium	Valley Creek				1E-10	
Cadmium	Cahaba River				1E-10	
Cadmium	Bayview Lake				1E-10	
Chromium VI	Shades Creek				1E-10	
Chromium VI	Valley Creek				1E-10	
Chromium VI	Cahaba River				1E-10	
Chromium VI	Bayview Lake				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Shades Creek	2E-07	0E+00	5E-09	5E-04	2E-07
Manganese	Valley Creek	2E-07	0E+00	5E-09	5E-04	2E-07
Manganese	Cahaba River	2E-07	0E+00	5E-09	5E-04	2E-07
Manganese	Bayview Lake	2E-07	0E+00	5E-09	5E-04	2E-07
Mercury (elemental)	Shades Creek				1E-05	
Mercury (elemental)	Valley Creek				1E-05	
Mercury (elemental)	Cahaba River				1E-05	
Mercury (elemental)	Bayview Lake				1E-05	
Mercury (divalent)	Shades Creek	1E-04		1E-07		1E-04
Mercury (divalent)	Valley Creek	1E-04		1E-07		1E-04
Mercury (divalent)	Cahaba River	1E-04		1E-07		1E-04
Mercury (divalent)	Bayview Lake	1E-04		1E-07		1E-04
Nickel	Shades Creek	7E-09	5E-11	5E-10		7E-09
Nickel	Valley Creek	7E-09	5E-10	5E-10		8E-09
Nickel	Cahaba River	7E-09	1E-11	5E-10		7E-09
Nickel	Bayview Lake	7E-09	1E-09	5E-10		9E-09
Silver	Shades Creek	9E-11	0E+00	2E-10		3E-10
Silver	Valley Creek	9E-11	0E+00	2E-10		3E-10
Silver	Cahaba River	9E-11	0E+00	2E-10		3E-10
Silver	Bayview Lake	9E-11	0E+00	2E-10		3E-10
Thallium	Shades Creek	2E-06	4E-07	4E-08		3E-06
Thallium	Valley Creek	2E-06	4E-06	4E-08		6E-06
Thallium	Cahaba River	2E-06	9E-08	4E-08		2E-06
Thallium	Bayview Lake	2E-06	1E-05	4E-08		1E-05

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Shades Creek	6E-09	0E+00	4E-09		9E-09
Antimony	Valley Creek	6E-09	0E+00	4E-09		9E-09
Antimony	Cahaba River	6E-09	0E+00	4E-09		9E-09
Antimony	Bayview Lake	6E-09	0E+00	4E-09		9E-09
Arsenic	Shades Creek	4E-05	9E-07	2E-06		4E-05
Arsenic	Valley Creek	4E-05	8E-06	2E-06		5E-05
Arsenic	Cahaba River	4E-05	2E-07	2E-06		4E-05
Arsenic	Bayview Lake	4E-05	2E-05	2E-06		6E-05
Barium	Shades Creek	5E-06	0E+00	6E-09	4E-05	5E-06
Barium	Valley Creek	5E-06	0E+00	6E-09	4E-05	5E-06
Barium	Cahaba River	5E-06	0E+00	6E-09	4E-05	5E-06
Barium	Bayview Lake	5E-06	0E+00	6E-09	4E-05	5E-06
Beryllium	Shades Creek	2E-07	8E-10	3E-10		2E-07
Beryllium	Valley Creek	2E-07	7E-09	3E-10		2E-07
Beryllium	Cahaba River	2E-07	2E-10	3E-10		2E-07
Beryllium	Bayview Lake	2E-07	1E-08	3E-10		2E-07
Cadmium	Shades Creek	1E-06	4E-07	3E-08		2E-06
Cadmium	Valley Creek	1E-06	4E-06	3E-08		5E-06
Cadmium	Cahaba River	1E-06	9E-08	3E-08		2E-06
Cadmium	Bayview Lake	1E-06	1E-05	3E-08		1E-05
Chromium VI	Shades Creek	6E-09	4E-11	4E-10		6E-09
Chromium VI	Valley Creek	6E-09	3E-10	4E-10		6E-09
Chromium VI	Cahaba River	6E-09	7E-12	4E-10		6E-09
Chromium VI	Bayview Lake	6E-09	1E-09	4E-10		7E-09
Chromium III	Shades Creek	2E-07	9E-12	2E-12		2E-07
Chromium III	Valley Creek	2E-07	7E-11	2E-12		2E-07
Chromium III	Cahaba River	2E-07	3E-12	2E-12		2E-07
Chromium III	Bayview Lake	2E-07	2E-11	2E-12		2E-07
Cobalt	Shades Creek	6E-08	0E+00	2E-12		6E-08
Cobalt	Valley Creek	6E-08	0E+00	2E-12		6E-08
Cobalt	Cahaba River	6E-08	0E+00	2E-12		6E-08
Cobalt	Bayview Lake	6E-08	0E+00	2E-12		6E-08
Hydrogen Chloride	Shades Creek				1E-03	
Hydrogen Chloride	Valley Creek				1E-03	
Hydrogen Chloride	Cahaba River				1E-03	
Hydrogen Chloride	Bayview Lake				1E-03	
Selenium	Shades Creek	5E-09	2E-07	1E-09		3E-07
Selenium	Valley Creek	5E-09	2E-06	1E-09		2E-06
Selenium	Cahaba River	5E-09	5E-08	1E-09		6E-08
Selenium	Bayview Lake	5E-09	7E-06	1E-09		7E-06
Chlorine	Shades Creek				1E-02	
Chlorine	Valley Creek				1E-02	
Chlorine	Cahaba River				1E-02	
Chlorine	Bayview Lake				1E-02	
Methylmercury - Developmental Effects	Shades Creek	9E-06	8E-04	2E-09		8E-04
Methylmercury - Developmental Effects	Valley Creek	9E-06	4E-03	2E-09		4E-03
Methylmercury - Developmental Effects	Cahaba River	9E-06	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Bayview Lake	9E-06	1E-02	2E-09		1E-02

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Shades Creek	3E-06	3E-04	7E-10		3E-04
Methylmercury - Neurological Effects	Valley Creek	3E-06	1E-03	7E-10		1E-03
Methylmercury - Neurological Effects	Cahaba River	3E-06	1E-04	7E-10		1E-04
Methylmercury - Neurological Effects	Bayview Lake	3E-06	4E-03	7E-10		4E-03

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Shades Creek	4E-09	4E-08	3E-12	1E-09	4E-08
2,3,7,8-TCDD-TEQ	Valley Creek	4E-09	3E-07	3E-12	1E-09	3E-07
2,3,7,8-TCDD-TEQ	Cahaba River	4E-09	1E-08	3E-12	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Bayview Lake	4E-09	3E-07	3E-12	1E-09	3E-07
Nickel	Shades Creek				1E-11	
Nickel	Valley Creek				1E-11	
Nickel	Cahaba River				1E-11	
Nickel	Bayview Lake				1E-11	
Arsenic	Shades Creek	5E-10	5E-11	5E-11	1E-08	6E-10
Arsenic	Valley Creek	5E-10	4E-10	5E-11	1E-08	1E-09
Arsenic	Cahaba River	5E-10	1E-11	5E-11	1E-08	6E-10
Arsenic	Bayview Lake	5E-10	1E-09	5E-11	1E-08	2E-09
Beryllium	Shades Creek				1E-11	
Beryllium	Valley Creek				1E-11	
Beryllium	Cahaba River				1E-11	
Beryllium	Bayview Lake				1E-11	
Cadmium	Shades Creek				2E-10	
Cadmium	Valley Creek				2E-10	
Cadmium	Cahaba River				2E-10	
Cadmium	Bayview Lake				2E-10	
Chromium VI	Shades Creek				1E-10	
Chromium VI	Valley Creek				1E-10	
Chromium VI	Cahaba River				1E-10	
Chromium VI	Bayview Lake				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Shades Creek	6E-08	0E+00	3E-09	5E-04	7E-08
Manganese	Valley Creek	6E-08	0E+00	3E-09	5E-04	7E-08
Manganese	Cahaba River	6E-08	0E+00	3E-09	5E-04	7E-08
Manganese	Bayview Lake	6E-08	0E+00	3E-09	5E-04	7E-08
Mercury (elemental)	Shades Creek				1E-05	
Mercury (elemental)	Valley Creek				1E-05	
Mercury (elemental)	Cahaba River				1E-05	
Mercury (elemental)	Bayview Lake				1E-05	
Mercury (divalent)	Shades Creek	4E-05		7E-08		4E-05
Mercury (divalent)	Valley Creek	4E-05		7E-08		4E-05
Mercury (divalent)	Cahaba River	4E-05		7E-08		4E-05
Mercury (divalent)	Bayview Lake	4E-05		7E-08		4E-05
Nickel	Shades Creek	2E-09	5E-11	3E-10		2E-09
Nickel	Valley Creek	2E-09	5E-10	3E-10		3E-09
Nickel	Cahaba River	2E-09	1E-11	3E-10		2E-09
Nickel	Bayview Lake	2E-09	1E-09	3E-10		4E-09
Silver	Shades Creek	2E-11	0E+00	1E-10		2E-10
Silver	Valley Creek	2E-11	0E+00	1E-10		2E-10
Silver	Cahaba River	2E-11	0E+00	1E-10		2E-10
Silver	Bayview Lake	2E-11	0E+00	1E-10		2E-10
Thallium	Shades Creek	6E-07	4E-07	2E-08		1E-06
Thallium	Valley Creek	6E-07	4E-06	2E-08		4E-06
Thallium	Cahaba River	6E-07	9E-08	2E-08		7E-07
Thallium	Bayview Lake	6E-07	1E-05	2E-08		1E-05

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Shades Creek	1E-09	0E+00	2E-09		4E-09
Antimony	Valley Creek	1E-09	0E+00	2E-09		4E-09
Antimony	Cahaba River	1E-09	0E+00	2E-09		4E-09
Antimony	Bayview Lake	1E-09	0E+00	2E-09		4E-09
Arsenic	Shades Creek	9E-06	9E-07	1E-06		1E-05
Arsenic	Valley Creek	9E-06	8E-06	1E-06		2E-05
Arsenic	Cahaba River	9E-06	2E-07	1E-06		1E-05
Arsenic	Bayview Lake	9E-06	2E-05	1E-06		4E-05
Barium	Shades Creek	1E-06	0E+00	3E-09	4E-05	1E-06
Barium	Valley Creek	1E-06	0E+00	3E-09	4E-05	1E-06
Barium	Cahaba River	1E-06	0E+00	3E-09	4E-05	1E-06
Barium	Bayview Lake	1E-06	0E+00	3E-09	4E-05	1E-06
Beryllium	Shades Creek	6E-08	8E-10	2E-10		6E-08
Beryllium	Valley Creek	6E-08	7E-09	2E-10		7E-08
Beryllium	Cahaba River	6E-08	2E-10	2E-10		6E-08
Beryllium	Bayview Lake	6E-08	1E-08	2E-10		7E-08
Cadmium	Shades Creek	4E-07	4E-07	2E-08		8E-07
Cadmium	Valley Creek	4E-07	4E-06	2E-08		4E-06
Cadmium	Cahaba River	4E-07	9E-08	2E-08		5E-07
Cadmium	Bayview Lake	4E-07	1E-05	2E-08		1E-05
Chromium VI	Shades Creek	1E-09	4E-11	2E-10		2E-09
Chromium VI	Valley Creek	1E-09	3E-10	2E-10		2E-09
Chromium VI	Cahaba River	1E-09	7E-12	2E-10		2E-09
Chromium VI	Bayview Lake	1E-09	1E-09	2E-10		3E-09
Chromium III	Shades Creek	7E-08	9E-12	1E-12		7E-08
Chromium III	Valley Creek	7E-08	7E-11	1E-12		7E-08
Chromium III	Cahaba River	7E-08	3E-12	1E-12		7E-08
Chromium III	Bayview Lake	7E-08	2E-11	1E-12		7E-08
Cobalt	Shades Creek	2E-08	0E+00	1E-12		2E-08
Cobalt	Valley Creek	2E-08	0E+00	1E-12		2E-08
Cobalt	Cahaba River	2E-08	0E+00	1E-12		2E-08
Cobalt	Bayview Lake	2E-08	0E+00	1E-12		2E-08
Hydrogen Chloride	Shades Creek				1E-03	
Hydrogen Chloride	Valley Creek				1E-03	
Hydrogen Chloride	Cahaba River				1E-03	
Hydrogen Chloride	Bayview Lake				1E-03	
Selenium	Shades Creek	1E-09	2E-07	8E-10		2E-07
Selenium	Valley Creek	1E-09	2E-06	8E-10		2E-06
Selenium	Cahaba River	1E-09	5E-08	8E-10		5E-08
Selenium	Bayview Lake	1E-09	7E-06	8E-10		7E-06
Chlorine	Shades Creek				1E-02	
Chlorine	Valley Creek				1E-02	
Chlorine	Cahaba River				1E-02	
Chlorine	Bayview Lake				1E-02	
Methylmercury - Developmental Effects	Shades Creek	2E-06	8E-04	1E-09		8E-04
Methylmercury - Developmental Effects	Valley Creek	2E-06	4E-03	1E-09		4E-03
Methylmercury - Developmental Effects	Cahaba River	2E-06	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Bayview Lake	2E-06	1E-02	1E-09		1E-02

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Shades Creek	8E-07	3E-04	4E-10		3E-04
Methylmercury - Neurological Effects	Valley Creek	8E-07	1E-03	4E-10		1E-03
Methylmercury - Neurological Effects	Cahaba River	8E-07	1E-04	4E-10		1E-04
Methylmercury - Neurological Effects	Bayview Lake	8E-07	4E-03	4E-10		4E-03

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Shades Creek	2E-09	3E-08	2E-12	6E-10	3E-08
2,3,7,8-TCDD-TEQ	Valley Creek	2E-09	2E-07	2E-12	6E-10	2E-07
2,3,7,8-TCDD-TEQ	Cahaba River	2E-09	9E-09	2E-12	6E-10	1E-08
2,3,7,8-TCDD-TEQ	Bayview Lake	2E-09	2E-07	2E-12	6E-10	2E-07
Nickel	Shades Creek				7E-12	
Nickel	Valley Creek				7E-12	
Nickel	Cahaba River				7E-12	
Nickel	Bayview Lake				7E-12	
Arsenic	Shades Creek	3E-10	4E-11	4E-11	8E-09	4E-10
Arsenic	Valley Creek	3E-10	3E-10	4E-11	8E-09	6E-10
Arsenic	Cahaba River	3E-10	7E-12	4E-11	8E-09	3E-10
Arsenic	Bayview Lake	3E-10	1E-09	4E-11	8E-09	1E-09
Beryllium	Shades Creek				7E-12	
Beryllium	Valley Creek				7E-12	
Beryllium	Cahaba River				7E-12	
Beryllium	Bayview Lake				7E-12	
Cadmium	Shades Creek				1E-10	
Cadmium	Valley Creek				1E-10	
Cadmium	Cahaba River				1E-10	
Cadmium	Bayview Lake				1E-10	
Chromium VI	Shades Creek				8E-11	
Chromium VI	Valley Creek				8E-11	
Chromium VI	Cahaba River				8E-11	
Chromium VI	Bayview Lake				8E-11	
	Noncarcinogenic Chemicals					
Manganese	Shades Creek	3E-08	0E+00	2E-09	5E-04	4E-08
Manganese	Valley Creek	3E-08	0E+00	2E-09	5E-04	4E-08
Manganese	Cahaba River	3E-08	0E+00	2E-09	5E-04	4E-08
Manganese	Bayview Lake	3E-08	0E+00	2E-09	5E-04	4E-08
Mercury (elemental)	Shades Creek				1E-05	
Mercury (elemental)	Valley Creek				1E-05	
Mercury (elemental)	Cahaba River				1E-05	
Mercury (elemental)	Bayview Lake				1E-05	
Mercury (divalent)	Shades Creek	2E-05		5E-08		2E-05
Mercury (divalent)	Valley Creek	2E-05		5E-08		2E-05
Mercury (divalent)	Cahaba River	2E-05		5E-08		2E-05
Mercury (divalent)	Bayview Lake	2E-05		5E-08		2E-05
Nickel	Shades Creek	9E-10	4E-11	2E-10		1E-09
Nickel	Valley Creek	9E-10	3E-10	2E-10		1E-09
Nickel	Cahaba River	9E-10	8E-12	2E-10		1E-09
Nickel	Bayview Lake	9E-10	1E-09	2E-10		2E-09
Silver	Shades Creek	1E-11	0E+00	9E-11		1E-10
Silver	Valley Creek	1E-11	0E+00	9E-11		1E-10
Silver	Cahaba River	1E-11	0E+00	9E-11		1E-10
Silver	Bayview Lake	1E-11	0E+00	9E-11		1E-10
Thallium	Shades Creek	3E-07	3E-07	2E-08		6E-07
Thallium	Valley Creek	3E-07	3E-06	2E-08		3E-06
Thallium	Cahaba River	3E-07	6E-08	2E-08		4E-07
Thallium	Bayview Lake	3E-07	8E-06	2E-08		9E-06

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Shades Creek	8E-10	0E+00	1E-09		2E-09
Antimony	Valley Creek	8E-10	0E+00	1E-09		2E-09
Antimony	Cahaba River	8E-10	0E+00	1E-09		2E-09
Antimony	Bayview Lake	8E-10	0E+00	1E-09		2E-09
Arsenic	Shades Creek	5E-06	6E-07	6E-07		6E-06
Arsenic	Valley Creek	5E-06	5E-06	6E-07		1E-05
Arsenic	Cahaba River	5E-06	1E-07	6E-07		6E-06
Arsenic	Bayview Lake	5E-06	2E-05	6E-07		2E-05
Barium	Shades Creek	7E-07	0E+00	2E-09	4E-05	7E-07
Barium	Valley Creek	7E-07	0E+00	2E-09	4E-05	7E-07
Barium	Cahaba River	7E-07	0E+00	2E-09	4E-05	7E-07
Barium	Bayview Lake	7E-07	0E+00	2E-09	4E-05	7E-07
Beryllium	Shades Creek	3E-08	6E-10	1E-10		3E-08
Beryllium	Valley Creek	3E-08	5E-09	1E-10		4E-08
Beryllium	Cahaba River	3E-08	1E-10	1E-10		3E-08
Beryllium	Bayview Lake	3E-08	9E-09	1E-10		4E-08
Cadmium	Shades Creek	2E-07	3E-07	1E-08		5E-07
Cadmium	Valley Creek	2E-07	3E-06	1E-08		3E-06
Cadmium	Cahaba River	2E-07	7E-08	1E-08		3E-07
Cadmium	Bayview Lake	2E-07	9E-06	1E-08		9E-06
Chromium VI	Shades Creek	8E-10	3E-11	2E-10		9E-10
Chromium VI	Valley Creek	8E-10	2E-10	2E-10		1E-09
Chromium VI	Cahaba River	8E-10	5E-12	2E-10		9E-10
Chromium VI	Bayview Lake	8E-10	7E-10	2E-10		2E-09
Chromium III	Shades Creek	3E-08	6E-12	8E-13		3E-08
Chromium III	Valley Creek	3E-08	5E-11	8E-13		3E-08
Chromium III	Cahaba River	3E-08	2E-12	8E-13		3E-08
Chromium III	Bayview Lake	3E-08	1E-11	8E-13		3E-08
Cobalt	Shades Creek	9E-09	0E+00	7E-10		1E-08
Cobalt	Valley Creek	9E-09	0E+00	7E-10		1E-08
Cobalt	Cahaba River	9E-09	0E+00	7E-10		1E-08
Cobalt	Bayview Lake	9E-09	0E+00	7E-10		1E-08
Hydrogen Chloride	Shades Creek				1E-03	
Hydrogen Chloride	Valley Creek				1E-03	
Hydrogen Chloride	Cahaba River				1E-03	
Hydrogen Chloride	Bayview Lake				1E-03	
Selenium	Shades Creek	7E-10	2E-07	5E-10		2E-07
Selenium	Valley Creek	7E-10	2E-06	5E-10		2E-06
Selenium	Cahaba River	7E-10	4E-08	5E-10		4E-08
Selenium	Bayview Lake	7E-10	5E-06	5E-10		5E-06
Chlorine	Shades Creek				1E-02	
Chlorine	Valley Creek				1E-02	
Chlorine	Cahaba River				1E-02	
Chlorine	Bayview Lake				1E-02	
Methylmercury - Developmental Effects	Shades Creek	1E-06	6E-04	7E-10		6E-04
Methylmercury - Developmental Effects	Valley Creek	1E-06	3E-03	7E-10		3E-03
Methylmercury - Developmental Effects	Cahaba River	1E-06	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Bayview Lake	1E-06	9E-03	7E-10		9E-03

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Shades Creek	4E-07	2E-04	2E-10		2E-04
Methylmercury - Neurological Effects	Valley Creek	4E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Cahaba River	4E-07	7E-05	2E-10		7E-05
Methylmercury - Neurological Effects	Bayview Lake	4E-07	3E-03	2E-10		3E-03

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Shades Creek	1E-09	5E-08	4E-12	9E-10	5E-08
2,3,7,8-TCDD-TEQ	Valley Creek	1E-09	4E-07	4E-12	9E-10	4E-07
2,3,7,8-TCDD-TEQ	Cahaba River	1E-09	2E-08	4E-12	9E-10	2E-08
2,3,7,8-TCDD-TEQ	Bayview Lake	1E-09	4E-07	4E-12	9E-10	4E-07
Nickel	Shades Creek				1E-11	
Nickel	Valley Creek				1E-11	
Nickel	Cahaba River				1E-11	
Nickel	Bayview Lake				1E-11	
Arsenic	Shades Creek	2E-10	7E-11	8E-11	1E-08	4E-10
Arsenic	Valley Creek	2E-10	6E-10	8E-11	1E-08	9E-10
Arsenic	Cahaba River	2E-10	1E-11	8E-11	1E-08	3E-10
Arsenic	Bayview Lake	2E-10	2E-09	8E-11	1E-08	2E-09
Beryllium	Shades Creek				1E-11	
Beryllium	Valley Creek				1E-11	
Beryllium	Cahaba River				1E-11	
Beryllium	Bayview Lake				1E-11	
Cadmium	Shades Creek				1E-10	
Cadmium	Valley Creek				1E-10	
Cadmium	Cahaba River				1E-10	
Cadmium	Bayview Lake				1E-10	
Chromium VI	Shades Creek				1E-10	
Chromium VI	Valley Creek				1E-10	
Chromium VI	Cahaba River				1E-10	
Chromium VI	Bayview Lake				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Shades Creek	1E-08	0E+00	2E-09	5E-04	2E-08
Manganese	Valley Creek	1E-08	0E+00	2E-09	5E-04	2E-08
Manganese	Cahaba River	1E-08	0E+00	2E-09	5E-04	2E-08
Manganese	Bayview Lake	1E-08	0E+00	2E-09	5E-04	2E-08
Mercury (elemental)	Shades Creek				1E-05	
Mercury (elemental)	Valley Creek				1E-05	
Mercury (elemental)	Cahaba River				1E-05	
Mercury (elemental)	Bayview Lake				1E-05	
Mercury (divalent)	Shades Creek	8E-06		6E-08		8E-06
Mercury (divalent)	Valley Creek	8E-06		6E-08		8E-06
Mercury (divalent)	Cahaba River	8E-06		6E-08		8E-06
Mercury (divalent)	Bayview Lake	8E-06		6E-08		8E-06
Nickel	Shades Creek	4E-10	4E-11	2E-10		6E-10
Nickel	Valley Creek	4E-10	3E-10	2E-10		9E-10
Nickel	Cahaba River	4E-10	8E-12	2E-10		6E-10
Nickel	Bayview Lake	4E-10	1E-09	2E-10		2E-09
Silver	Shades Creek	5E-12	0E+00	1E-10		1E-10
Silver	Valley Creek	5E-12	0E+00	1E-10		1E-10
Silver	Cahaba River	5E-12	0E+00	1E-10		1E-10
Silver	Bayview Lake	5E-12	0E+00	1E-10		1E-10
Thallium	Shades Creek	1E-07	3E-07	2E-08		4E-07
Thallium	Valley Creek	1E-07	3E-06	2E-08		3E-06
Thallium	Cahaba River	1E-07	6E-08	2E-08		2E-07
Thallium	Bayview Lake	1E-07	8E-06	2E-08		8E-06

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Shades Creek	3E-10	0E+00	2E-09		2E-09
Antimony	Valley Creek	3E-10	0E+00	2E-09		2E-09
Antimony	Cahaba River	3E-10	0E+00	2E-09		2E-09
Antimony	Bayview Lake	3E-10	0E+00	2E-09		2E-09
Arsenic	Shades Creek	2E-06	6E-07	8E-07		3E-06
Arsenic	Valley Creek	2E-06	5E-06	8E-07		8E-06
Arsenic	Cahaba River	2E-06	1E-07	8E-07		3E-06
Arsenic	Bayview Lake	2E-06	2E-05	8E-07		2E-05
Barium	Shades Creek	3E-07	0E+00	2E-09	4E-05	3E-07
Barium	Valley Creek	3E-07	0E+00	2E-09	4E-05	3E-07
Barium	Cahaba River	3E-07	0E+00	2E-09	4E-05	3E-07
Barium	Bayview Lake	3E-07	0E+00	2E-09	4E-05	3E-07
Beryllium	Shades Creek	1E-08	6E-10	1E-10		1E-08
Beryllium	Valley Creek	1E-08	5E-09	1E-10		2E-08
Beryllium	Cahaba River	1E-08	1E-10	1E-10		1E-08
Beryllium	Bayview Lake	1E-08	9E-09	1E-10		2E-08
Cadmium	Shades Creek	8E-08	3E-07	1E-08		4E-07
Cadmium	Valley Creek	8E-08	3E-06	1E-08		3E-06
Cadmium	Cahaba River	8E-08	7E-08	1E-08		2E-07
Cadmium	Bayview Lake	8E-08	9E-06	1E-08		9E-06
Chromium VI	Shades Creek	3E-10	3E-11	2E-10		5E-10
Chromium VI	Valley Creek	3E-10	2E-10	2E-10		7E-10
Chromium VI	Cahaba River	3E-10	5E-12	2E-10		5E-10
Chromium VI	Bayview Lake	3E-10	7E-10	2E-10		1E-09
Chromium III	Shades Creek	1E-08	6E-12	1E-12		1E-08
Chromium III	Valley Creek	1E-08	5E-11	1E-12		1E-08
Chromium III	Cahaba River	1E-08	2E-12	1E-12		1E-08
Chromium III	Bayview Lake	1E-08	1E-11	1E-12		1E-08
Cobalt	Shades Creek	4E-09	0E+00	9E-10		4E-09
Cobalt	Valley Creek	4E-09	0E+00	9E-10		4E-09
Cobalt	Cahaba River	4E-09	0E+00	9E-10		4E-09
Cobalt	Bayview Lake	4E-09	0E+00	9E-10		4E-09
Hydrogen Chloride	Shades Creek				1E-03	
Hydrogen Chloride	Valley Creek				1E-03	
Hydrogen Chloride	Cahaba River				1E-03	
Hydrogen Chloride	Bayview Lake				1E-03	
Selenium	Shades Creek	3E-10	2E-07	6E-10		2E-07
Selenium	Valley Creek	3E-10	2E-06	6E-10		2E-06
Selenium	Cahaba River	3E-10	4E-08	6E-10		4E-08
Selenium	Bayview Lake	3E-10	5E-06	6E-10		5E-06
Chlorine	Shades Creek				1E-02	
Chlorine	Valley Creek				1E-02	
Chlorine	Cahaba River				1E-02	
Chlorine	Bayview Lake				1E-02	
Methylmercury - Developmental Effects	Shades Creek	5E-07	6E-04	9E-10		6E-04
Methylmercury - Developmental Effects	Valley Creek	5E-07	3E-03	9E-10		3E-03
Methylmercury - Developmental Effects	Cahaba River	5E-07	2E-04	9E-10		2E-04
Methylmercury - Developmental Effects	Bayview Lake	5E-07	9E-03	9E-10		9E-03

Table IX-A8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 324) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Shades Creek	2E-07	2E-04	3E-10		2E-04
Methylmercury - Neurological Effects	Valley Creek	2E-07	1E-03	3E-10		1E-03
Methylmercury - Neurological Effects	Cahaba River	2E-07	7E-05	3E-10		7E-05
Methylmercury - Neurological Effects	Bayview Lake	2E-07	3E-03	3E-10		3E-03

Table IX-A9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	1E-09	5E-10	2E-09	5E-07	5E-06	4E-08	3E-07	1E-07	1E-07	1E-12	3E-09	6E-06
Nickel												8E-11	
Arsenic	8E-11	3E-11	1E-11	6E-11	2E-10	3E-10	1E-11			6E-10	1E-11	8E-10	1E-09
Beryllium												4E-11	
Cadmium												1E-10	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-07	4E-07	2E-07	7E-07	1E-07	7E-06	1E-08			0E+00	2E-08	1E-03	9E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	4E-05	2E-04	1E-04	1E-03	9E-03	5E-06				1E-06		1E-02
Nickel	4E-08	2E-08	7E-09	4E-08	4E-07	4E-06	2E-08			1E-07	7E-09		4E-06
Silver	2E-09	2E-08	6E-09	5E-08	3E-07	1E-04	1E-08			0E+00	1E-08		1E-04
Thallium	9E-05	5E-06	3E-07	2E-05	2E-03	5E-03	2E-04			4E-03	5E-06		1E-02
Antimony	3E-07	1E-06	3E-07	3E-06	4E-06	3E-05	2E-07			0E+00	5E-07		4E-05
Arsenic	2E-06	7E-07	3E-07	2E-06	4E-06	7E-06	3E-07			1E-05	2E-07		3E-05
Barium	2E-07	2E-08	5E-09	4E-08	1E-08	1E-06	2E-09			0E+00	2E-10	4E-06	2E-06
Beryllium	4E-07	6E-09	1E-09	2E-08	7E-08	3E-09	2E-08			3E-08	7E-10		6E-07
Cadmium	1E-06	8E-07	4E-07	2E-06	9E-08	3E-07	2E-08			6E-05	6E-08		6E-05
Chromium VI	2E-08	4E-09	2E-09	1E-08	1E-07	2E-06	9E-09			3E-08	3E-09		2E-06
Chromium III	2E-08	2E-10	1E-10	5E-10	1E-08	2E-07	4E-09			2E-12	6E-14		2E-07
Cobalt	1E-07	2E-08	1E-10	4E-08	2E-06	9E-06	2E-07			0E+00	9E-09		1E-05
Hydrogen Chloride												1E-04	
Selenium	2E-08	2E-08	2E-08	5E-08	4E-07	3E-05	1E-06			4E-04	2E-08		5E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	1E-04	1E-05	3E-05	1E-05	9E-05	8E-04	3E-07			5E-02	4E-08		5E-02
Methylmercury - Neurological Effects	4E-05	4E-06	1E-05	4E-06	3E-05	3E-04	9E-08			2E-02	1E-08		2E-02

Table IX-A9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	8E-10	5E-10	3E-09	8E-07	4E-06	4E-08	3E-07	2E-07	1E-07	9E-13	3E-09	5E-06
Nickel												9E-11	
Arsenic	3E-11	2E-11	1E-11	8E-11	3E-10	2E-10	1E-11			6E-10	8E-12	9E-10	1E-09
Beryllium												5E-11	
Cadmium												2E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	1E-07	7E-07	2E-07	4E-06	7E-09			0E+00	1E-08	1E-03	5E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	2E-04	9E-05	1E-03	5E-03	3E-06				6E-07		6E-03
Nickel	1E-08	9E-09	5E-09	4E-08	4E-07	2E-06	1E-08			7E-08	4E-09		2E-06
Silver	5E-10	1E-08	4E-09	5E-08	3E-07	5E-05	6E-09			0E+00	6E-09		6E-05
Thallium	2E-05	3E-06	2E-07	1E-05	2E-03	2E-03	1E-04			3E-03	3E-06		8E-03
Antimony	9E-08	7E-07	2E-07	3E-06	5E-06	1E-05	1E-07			0E+00	3E-07		2E-05
Arsenic	5E-07	4E-07	2E-07	1E-06	5E-06	4E-06	2E-07			1E-05	1E-07		2E-05
Barium	6E-08	1E-08	4E-09	4E-08	1E-08	7E-07	9E-10			0E+00	1E-10	4E-06	8E-07
Beryllium	1E-07	3E-09	8E-10	2E-08	8E-08	1E-09	1E-08			2E-08	4E-10		2E-07
Cadmium	3E-07	5E-07	3E-07	2E-06	1E-07	2E-07	1E-08			5E-05	4E-08		5E-05
Chromium VI	4E-09	2E-09	1E-09	1E-08	2E-07	1E-06	5E-09			2E-08	2E-09		1E-06
Chromium III	4E-09	1E-10	9E-11	5E-10	2E-08	8E-08	3E-09			1E-12	3E-14		1E-07
Cobalt	3E-08	1E-08	7E-11	4E-08	2E-06	5E-06	9E-08			0E+00	5E-09		7E-06
Hydrogen Chloride												1E-04	
Selenium	6E-09	1E-08	1E-08	5E-08	5E-07	2E-05	9E-07			3E-04	9E-09		3E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	3E-05	6E-06	2E-05	1E-05	1E-04	4E-04	2E-07			4E-02	2E-08		4E-02
Methylmercury - Neurological Effects	1E-05	2E-06	7E-06	4E-06	3E-05	1E-04	6E-08			1E-02	8E-09		1E-02

Table IX-A9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	6E-10	4E-10	2E-09	4E-07	2E-06	2E-08	2E-07	8E-08	7E-08	6E-13	2E-09	2E-06
Nickel												6E-11	
Arsenic	2E-11	2E-11	7E-12	4E-11	1E-10	1E-10	7E-12			3E-10	5E-12	6E-10	6E-10
Beryllium												3E-11	
Cadmium												1E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	4E-07	8E-08	2E-06	5E-09			0E+00	8E-09	1E-03	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	3E-04	2E-05	1E-04	5E-05	6E-04	2E-03	2E-06			0E+00	4E-07		3E-03
Nickel	5E-09	7E-09	3E-09	2E-08	2E-07	8E-07	9E-09			4E-08	2E-09		1E-06
Silver	2E-10	8E-09	3E-09	2E-08	1E-07	3E-05	4E-09			0E+00	4E-09		3E-05
Thallium	1E-05	2E-06	2E-07	8E-06	9E-04	1E-03	9E-05			2E-03	2E-06		4E-03
Antimony	5E-08	5E-07	2E-07	2E-06	2E-06	6E-06	7E-08			0E+00	2E-07		1E-05
Arsenic	3E-07	3E-07	1E-07	8E-07	2E-06	2E-06	1E-07			6E-06	9E-08		1E-05
Barium	3E-08	9E-09	3E-09	2E-08	6E-09	3E-07	6E-10			0E+00	8E-11	4E-06	4E-07
Beryllium	6E-08	3E-09	6E-10	8E-09	4E-08	6E-10	8E-09			1E-08	2E-10		1E-07
Cadmium	1E-07	4E-07	2E-07	8E-07	5E-08	7E-08	6E-09			2E-05	2E-08		3E-05
Chromium VI	2E-09	2E-09	8E-10	5E-09	7E-08	5E-07	3E-09			1E-08	1E-09		6E-07
Chromium III	2E-09	8E-11	6E-11	3E-10	7E-09	4E-08	2E-09			6E-13	2E-14		5E-08
Cobalt	2E-08	8E-09	5E-11	2E-08	9E-07	2E-06	6E-08			0E+00	3E-09		3E-06
Hydrogen Chloride												1E-04	
Selenium	3E-09	8E-09	9E-09	3E-08	2E-07	8E-06	6E-07			2E-04	6E-09		2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	2E-05	5E-06	1E-05	6E-06	5E-05	2E-04	1E-07			2E-02	2E-08		2E-02
Methylmercury - Neurological Effects	5E-06	2E-06	5E-06	2E-06	2E-05	6E-05	4E-08			7E-03	5E-09		7E-03

Table IX-A9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-09	7E-10	3E-09	8E-07	1E-06	4E-08	3E-07	1E-07	2E-07	1E-12	3E-09	3E-06
Nickel												8E-11	
Arsenic	1E-11	4E-11	1E-11	7E-11	3E-10	8E-11	1E-11			7E-10	1E-11	8E-10	1E-09
Beryllium												5E-11	
Cadmium												2E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-07	1E-07	4E-07	9E-08	7E-07	4E-09			0E+00	1E-08	1E-03	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	1E-04	2E-05	1E-04	5E-05	7E-04	9E-04	2E-06			0E+00	5E-07		2E-03
Nickel	2E-09	9E-09	4E-09	2E-08	2E-07	4E-07	8E-09			4E-08	3E-09		7E-07
Silver	1E-10	1E-08	3E-09	2E-08	2E-07	1E-05	3E-09			0E+00	5E-09		1E-05
Thallium	5E-06	3E-06	2E-07	7E-06	1E-03	5E-04	7E-05			2E-03	2E-06		3E-03
Antimony	2E-08	7E-07	2E-07	1E-06	3E-06	3E-06	6E-08			0E+00	2E-07		8E-06
Arsenic	1E-07	4E-07	2E-07	7E-07	3E-06	8E-07	1E-07			6E-06	1E-07		1E-05
Barium	1E-08	1E-08	3E-09	2E-08	6E-09	1E-07	5E-10			0E+00	9E-11	4E-06	2E-07
Beryllium	2E-08	4E-09	6E-10	7E-09	4E-08	3E-10	7E-09			1E-08	3E-10		1E-07
Cadmium	6E-08	5E-07	2E-07	8E-07	5E-08	3E-08	6E-09			3E-05	3E-08		3E-05
Chromium VI	9E-10	2E-09	9E-10	5E-09	8E-08	2E-07	3E-09			1E-08	1E-09		3E-07
Chromium III	9E-10	1E-10	7E-11	2E-10	8E-09	2E-08	1E-09			7E-13	2E-14		3E-08
Cobalt	6E-09	1E-08	6E-11	2E-08	1E-06	9E-07	5E-08			0E+00	4E-09		2E-06
Hydrogen Chloride												1E-04	
Selenium	1E-09	1E-08	1E-08	3E-08	2E-07	3E-06	5E-07			2E-04	7E-09		2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	7E-06	6E-06	2E-05	6E-06	5E-05	8E-05	9E-08			2E-02	2E-08		2E-02
Methylmercury - Neurological Effects	2E-06	2E-06	6E-06	2E-06	2E-05	3E-05	3E-08			8E-03	6E-09		8E-03

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	1E-08	3E-09	1E-12	3E-09	1E-08
2,3,7,8-TCDD-TEQ	Big Hill Creek	1E-08	6E-08	1E-12	3E-09	7E-08
2,3,7,8-TCDD-TEQ	Potato Creek	1E-08	5E-07	1E-12	3E-09	5E-07
2,3,7,8-TCDD-TEQ	Claymore Creek	1E-08	6E-08	1E-12	3E-09	7E-08
Nickel	Verdigris River				8E-11	
Nickel	Big Hill Creek				8E-11	
Nickel	Potato Creek				8E-11	
Nickel	Claymore Creek				8E-11	
Arsenic	Verdigris River	8E-11	1E-12	1E-11	8E-10	9E-11
Arsenic	Big Hill Creek	8E-11	1E-11	1E-11	8E-10	1E-10
Arsenic	Potato Creek	8E-11	1E-10	1E-11	8E-10	2E-10
Arsenic	Claymore Creek	8E-11	2E-11	1E-11	8E-10	1E-10
Beryllium	Verdigris River				4E-11	
Beryllium	Big Hill Creek				4E-11	
Beryllium	Potato Creek				4E-11	
Beryllium	Claymore Creek				4E-11	
Cadmium	Verdigris River				1E-10	
Cadmium	Big Hill Creek				1E-10	
Cadmium	Potato Creek				1E-10	
Cadmium	Claymore Creek				1E-10	
Chromium VI	Verdigris River				4E-10	
Chromium VI	Big Hill Creek				4E-10	
Chromium VI	Potato Creek				4E-10	
Chromium VI	Claymore Creek				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	4E-07	0E+00	2E-08	1E-03	4E-07
Manganese	Big Hill Creek	4E-07	0E+00	2E-08	1E-03	4E-07
Manganese	Potato Creek	4E-07	0E+00	2E-08	1E-03	4E-07
Manganese	Claymore Creek	4E-07	0E+00	2E-08	1E-03	4E-07
Mercury (elemental)	Verdigris River				1E-05	
Mercury (elemental)	Big Hill Creek				1E-05	
Mercury (elemental)	Potato Creek				1E-05	
Mercury (elemental)	Claymore Creek				1E-05	
Mercury (divalent)	Verdigris River	2E-03		1E-06		2E-03
Mercury (divalent)	Big Hill Creek	2E-03		1E-06		2E-03
Mercury (divalent)	Potato Creek	2E-03		1E-06		2E-03
Mercury (divalent)	Claymore Creek	2E-03		1E-06		2E-03
Nickel	Verdigris River	4E-08	2E-10	7E-09		5E-08
Nickel	Big Hill Creek	4E-08	2E-09	7E-09		5E-08
Nickel	Potato Creek	4E-08	2E-08	7E-09		7E-08
Nickel	Claymore Creek	4E-08	3E-09	7E-09		5E-08
Silver	Verdigris River	2E-09	0E+00	1E-08		1E-08
Silver	Big Hill Creek	2E-09	0E+00	1E-08		1E-08
Silver	Potato Creek	2E-09	0E+00	1E-08		1E-08
Silver	Claymore Creek	2E-09	0E+00	1E-08		1E-08
Thallium	Verdigris River	9E-05	9E-06	5E-06		1E-04
Thallium	Big Hill Creek	9E-05	1E-04	5E-06		2E-04
Thallium	Potato Creek	9E-05	1E-03	5E-06		1E-03
Thallium	Claymore Creek	9E-05	2E-04	5E-06		3E-04

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Verdigris River	3E-07	0E+00	5E-07		9E-07
Antimony	Big Hill Creek	3E-07	0E+00	5E-07		9E-07
Antimony	Potato Creek	3E-07	0E+00	5E-07		9E-07
Antimony	Claymore Creek	3E-07	0E+00	5E-07		9E-07
Arsenic	Verdigris River	2E-06	3E-08	2E-07		2E-06
Arsenic	Big Hill Creek	2E-06	4E-07	2E-07		3E-06
Arsenic	Potato Creek	2E-06	3E-06	2E-07		6E-06
Arsenic	Claymore Creek	2E-06	4E-07	2E-07		3E-06
Barium	Verdigris River	2E-07	0E+00	2E-10	4E-06	2E-07
Barium	Big Hill Creek	2E-07	0E+00	2E-10	4E-06	2E-07
Barium	Potato Creek	2E-07	0E+00	2E-10	4E-06	2E-07
Barium	Claymore Creek	2E-07	0E+00	2E-10	4E-06	2E-07
Beryllium	Verdigris River	4E-07	8E-10	7E-10		4E-07
Beryllium	Big Hill Creek	4E-07	2E-08	7E-10		5E-07
Beryllium	Potato Creek	4E-07	2E-07	7E-10		6E-07
Beryllium	Claymore Creek	4E-07	2E-08	7E-10		5E-07
Cadmium	Verdigris River	1E-06	2E-07	6E-08		1E-06
Cadmium	Big Hill Creek	1E-06	3E-06	6E-08		4E-06
Cadmium	Potato Creek	1E-06	3E-05	6E-08		3E-05
Cadmium	Claymore Creek	1E-06	3E-06	6E-08		4E-06
Chromium VI	Verdigris River	2E-08	5E-11	3E-09		2E-08
Chromium VI	Big Hill Creek	2E-08	8E-10	3E-09		2E-08
Chromium VI	Potato Creek	2E-08	7E-09	3E-09		3E-08
Chromium VI	Claymore Creek	2E-08	9E-10	3E-09		2E-08
Chromium III	Verdigris River	2E-08	7E-13	6E-14		2E-08
Chromium III	Big Hill Creek	2E-08	2E-11	6E-14		2E-08
Chromium III	Potato Creek	2E-08	2E-10	6E-14		2E-08
Chromium III	Claymore Creek	2E-08	2E-11	6E-14		2E-08
Cobalt	Verdigris River	1E-07	0E+00	6E-14		1E-07
Cobalt	Big Hill Creek	1E-07	0E+00	6E-14		1E-07
Cobalt	Potato Creek	1E-07	0E+00	6E-14		1E-07
Cobalt	Claymore Creek	1E-07	0E+00	6E-14		1E-07
Hydrogen Chloride	Verdigris River				1E-04	
Hydrogen Chloride	Big Hill Creek				1E-04	
Hydrogen Chloride	Potato Creek				1E-04	
Hydrogen Chloride	Claymore Creek				1E-04	
Selenium	Verdigris River	2E-08	6E-07	2E-08		7E-07
Selenium	Big Hill Creek	2E-08	9E-06	2E-08		9E-06
Selenium	Potato Creek	2E-08	8E-05	2E-08		8E-05
Selenium	Claymore Creek	2E-08	1E-05	2E-08		1E-05
Chlorine	Verdigris River				1E-04	
Chlorine	Big Hill Creek				1E-04	
Chlorine	Potato Creek				1E-04	
Chlorine	Claymore Creek				1E-04	
Methylmercury - Developmental Effects	Verdigris River	1E-04	6E-03	4E-08		7E-03
Methylmercury - Developmental Effects	Big Hill Creek	1E-04	9E-02	4E-08		9E-02
Methylmercury - Developmental Effects	Potato Creek	1E-04	4E-01	4E-08		4E-01
Methylmercury - Developmental Effects	Claymore Creek	1E-04	9E-02	4E-08		9E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Verdigris River	4E-05	2E-03	1E-08		2E-03
Methylmercury - Neurological Effects	Big Hill Creek	4E-05	3E-02	1E-08		3E-02
Methylmercury - Neurological Effects	Potato Creek	4E-05	1E-01	1E-08		1E-01
Methylmercury - Neurological Effects	Claymore Creek	4E-05	3E-02	1E-08		3E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	4E-09	4E-09	9E-13	3E-09	8E-09
2,3,7,8-TCDD-TEQ	Big Hill Creek	4E-09	8E-08	9E-13	3E-09	8E-08
2,3,7,8-TCDD-TEQ	Potato Creek	4E-09	7E-07	9E-13	3E-09	7E-07
2,3,7,8-TCDD-TEQ	Claymore Creek	4E-09	8E-08	9E-13	3E-09	9E-08
Nickel	Verdigris River				9E-11	
Nickel	Big Hill Creek				9E-11	
Nickel	Potato Creek				9E-11	
Nickel	Claymore Creek				9E-11	
Arsenic	Verdigris River	3E-11	1E-12	8E-12	9E-10	4E-11
Arsenic	Big Hill Creek	3E-11	2E-11	8E-12	9E-10	6E-11
Arsenic	Potato Creek	3E-11	2E-10	8E-12	9E-10	2E-10
Arsenic	Claymore Creek	3E-11	2E-11	8E-12	9E-10	6E-11
Beryllium	Verdigris River				5E-11	
Beryllium	Big Hill Creek				5E-11	
Beryllium	Potato Creek				5E-11	
Beryllium	Claymore Creek				5E-11	
Cadmium	Verdigris River				2E-10	
Cadmium	Big Hill Creek				2E-10	
Cadmium	Potato Creek				2E-10	
Cadmium	Claymore Creek				2E-10	
Chromium VI	Verdigris River				5E-10	
Chromium VI	Big Hill Creek				5E-10	
Chromium VI	Potato Creek				5E-10	
Chromium VI	Claymore Creek				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	1E-07	0E+00	1E-08	1E-03	1E-07
Manganese	Big Hill Creek	1E-07	0E+00	1E-08	1E-03	1E-07
Manganese	Potato Creek	1E-07	0E+00	1E-08	1E-03	1E-07
Manganese	Claymore Creek	1E-07	0E+00	1E-08	1E-03	1E-07
Mercury (elemental)	Verdigris River				1E-05	
Mercury (elemental)	Big Hill Creek				1E-05	
Mercury (elemental)	Potato Creek				1E-05	
Mercury (elemental)	Claymore Creek				1E-05	
Mercury (divalent)	Verdigris River	5E-04		6E-07		5E-04
Mercury (divalent)	Big Hill Creek	5E-04		6E-07		5E-04
Mercury (divalent)	Potato Creek	5E-04		6E-07		5E-04
Mercury (divalent)	Claymore Creek	5E-04		6E-07		5E-04
Nickel	Verdigris River	1E-08	2E-10	4E-09		1E-08
Nickel	Big Hill Creek	1E-08	2E-09	4E-09		2E-08
Nickel	Potato Creek	1E-08	2E-08	4E-09		4E-08
Nickel	Claymore Creek	1E-08	3E-09	4E-09		2E-08
Silver	Verdigris River	5E-10	0E+00	6E-09		7E-09
Silver	Big Hill Creek	5E-10	0E+00	6E-09		7E-09
Silver	Potato Creek	5E-10	0E+00	6E-09		7E-09
Silver	Claymore Creek	5E-10	0E+00	6E-09		7E-09
Thallium	Verdigris River	2E-05	9E-06	3E-06		4E-05
Thallium	Big Hill Creek	2E-05	1E-04	3E-06		2E-04
Thallium	Potato Creek	2E-05	1E-03	3E-06		1E-03
Thallium	Claymore Creek	2E-05	2E-04	3E-06		2E-04

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Verdigris River	9E-08	0E+00	3E-07		4E-07
Antimony	Big Hill Creek	9E-08	0E+00	3E-07		4E-07
Antimony	Potato Creek	9E-08	0E+00	3E-07		4E-07
Antimony	Claymore Creek	9E-08	0E+00	3E-07		4E-07
Arsenic	Verdigris River	5E-07	3E-08	1E-07		7E-07
Arsenic	Big Hill Creek	5E-07	4E-07	1E-07		1E-06
Arsenic	Potato Creek	5E-07	3E-06	1E-07		4E-06
Arsenic	Claymore Creek	5E-07	4E-07	1E-07		1E-06
Barium	Verdigris River	6E-08	0E+00	1E-10	4E-06	6E-08
Barium	Big Hill Creek	6E-08	0E+00	1E-10	4E-06	6E-08
Barium	Potato Creek	6E-08	0E+00	1E-10	4E-06	6E-08
Barium	Claymore Creek	6E-08	0E+00	1E-10	4E-06	6E-08
Beryllium	Verdigris River	1E-07	8E-10	4E-10		1E-07
Beryllium	Big Hill Creek	1E-07	2E-08	4E-10		1E-07
Beryllium	Potato Creek	1E-07	2E-07	4E-10		3E-07
Beryllium	Claymore Creek	1E-07	2E-08	4E-10		1E-07
Cadmium	Verdigris River	3E-07	2E-07	4E-08		5E-07
Cadmium	Big Hill Creek	3E-07	3E-06	4E-08		3E-06
Cadmium	Potato Creek	3E-07	3E-05	4E-08		3E-05
Cadmium	Claymore Creek	3E-07	3E-06	4E-08		4E-06
Chromium VI	Verdigris River	4E-09	5E-11	2E-09		6E-09
Chromium VI	Big Hill Creek	4E-09	8E-10	2E-09		7E-09
Chromium VI	Potato Creek	4E-09	7E-09	2E-09		1E-08
Chromium VI	Claymore Creek	4E-09	9E-10	2E-09		7E-09
Chromium III	Verdigris River	4E-09	7E-13	3E-14		4E-09
Chromium III	Big Hill Creek	4E-09	2E-11	3E-14		4E-09
Chromium III	Potato Creek	4E-09	2E-10	3E-14		4E-09
Chromium III	Claymore Creek	4E-09	2E-11	3E-14		4E-09
Cobalt	Verdigris River	3E-08	0E+00	3E-14		3E-08
Cobalt	Big Hill Creek	3E-08	0E+00	3E-14		3E-08
Cobalt	Potato Creek	3E-08	0E+00	3E-14		3E-08
Cobalt	Claymore Creek	3E-08	0E+00	3E-14		3E-08
Hydrogen Chloride	Verdigris River				1E-04	
Hydrogen Chloride	Big Hill Creek				1E-04	
Hydrogen Chloride	Potato Creek				1E-04	
Hydrogen Chloride	Claymore Creek				1E-04	
Selenium	Verdigris River	6E-09	6E-07	9E-09		6E-07
Selenium	Big Hill Creek	6E-09	9E-06	9E-09		9E-06
Selenium	Potato Creek	6E-09	8E-05	9E-09		8E-05
Selenium	Claymore Creek	6E-09	1E-05	9E-09		1E-05
Chlorine	Verdigris River				1E-04	
Chlorine	Big Hill Creek				1E-04	
Chlorine	Potato Creek				1E-04	
Chlorine	Claymore Creek				1E-04	
Methylmercury - Developmental Effects	Verdigris River	3E-05	6E-03	2E-08		6E-03
Methylmercury - Developmental Effects	Big Hill Creek	3E-05	9E-02	2E-08		9E-02
Methylmercury - Developmental Effects	Potato Creek	3E-05	4E-01	2E-08		4E-01
Methylmercury - Developmental Effects	Claymore Creek	3E-05	9E-02	2E-08		9E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Verdigris River	1E-05	2E-03	8E-09		2E-03
Methylmercury - Neurological Effects	Big Hill Creek	1E-05	3E-02	8E-09		3E-02
Methylmercury - Neurological Effects	Potato Creek	1E-05	1E-01	8E-09		1E-01
Methylmercury - Neurological Effects	Claymore Creek	1E-05	3E-02	8E-09		3E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	2E-09	3E-09	6E-13	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Big Hill Creek	2E-09	6E-08	6E-13	2E-09	6E-08
2,3,7,8-TCDD-TEQ	Potato Creek	2E-09	5E-07	6E-13	2E-09	5E-07
2,3,7,8-TCDD-TEQ	Claymore Creek	2E-09	6E-08	6E-13	2E-09	6E-08
Nickel	Verdigris River				6E-11	
Nickel	Big Hill Creek				6E-11	
Nickel	Potato Creek				6E-11	
Nickel	Claymore Creek				6E-11	
Arsenic	Verdigris River	2E-11	1E-12	5E-12	6E-10	2E-11
Arsenic	Big Hill Creek	2E-11	1E-11	5E-12	6E-10	4E-11
Arsenic	Potato Creek	2E-11	1E-10	5E-12	6E-10	2E-10
Arsenic	Claymore Creek	2E-11	2E-11	5E-12	6E-10	4E-11
Beryllium	Verdigris River				3E-11	
Beryllium	Big Hill Creek				3E-11	
Beryllium	Potato Creek				3E-11	
Beryllium	Claymore Creek				3E-11	
Cadmium	Verdigris River				1E-10	
Cadmium	Big Hill Creek				1E-10	
Cadmium	Potato Creek				1E-10	
Cadmium	Claymore Creek				1E-10	
Chromium VI	Verdigris River				3E-10	
Chromium VI	Big Hill Creek				3E-10	
Chromium VI	Potato Creek				3E-10	
Chromium VI	Claymore Creek				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	6E-08	0E+00	8E-09	1E-03	7E-08
Manganese	Big Hill Creek	6E-08	0E+00	8E-09	1E-03	7E-08
Manganese	Potato Creek	6E-08	0E+00	8E-09	1E-03	7E-08
Manganese	Claymore Creek	6E-08	0E+00	8E-09	1E-03	7E-08
Mercury (elemental)	Verdigris River				1E-05	
Mercury (elemental)	Big Hill Creek				1E-05	
Mercury (elemental)	Potato Creek				1E-05	
Mercury (elemental)	Claymore Creek				1E-05	
Mercury (divalent)	Verdigris River	3E-04		4E-07		3E-04
Mercury (divalent)	Big Hill Creek	3E-04		4E-07		3E-04
Mercury (divalent)	Potato Creek	3E-04		4E-07		3E-04
Mercury (divalent)	Claymore Creek	3E-04		4E-07		3E-04
Nickel	Verdigris River	5E-09	1E-10	2E-09		8E-09
Nickel	Big Hill Creek	5E-09	2E-09	2E-09		1E-08
Nickel	Potato Creek	5E-09	2E-08	2E-09		2E-08
Nickel	Claymore Creek	5E-09	2E-09	2E-09		1E-08
Silver	Verdigris River	2E-10	0E+00	4E-09		4E-09
Silver	Big Hill Creek	2E-10	0E+00	4E-09		4E-09
Silver	Potato Creek	2E-10	0E+00	4E-09		4E-09
Silver	Claymore Creek	2E-10	0E+00	4E-09		4E-09
Thallium	Verdigris River	1E-05	7E-06	2E-06		2E-05
Thallium	Big Hill Creek	1E-05	1E-04	2E-06		1E-04
Thallium	Potato Creek	1E-05	9E-04	2E-06		9E-04
Thallium	Claymore Creek	1E-05	1E-04	2E-06		1E-04

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Verdigris River	5E-08	0E+00	2E-07		2E-07
Antimony	Big Hill Creek	5E-08	0E+00	2E-07		2E-07
Antimony	Potato Creek	5E-08	0E+00	2E-07		2E-07
Antimony	Claymore Creek	5E-08	0E+00	2E-07		2E-07
Arsenic	Verdigris River	3E-07	2E-08	9E-08		4E-07
Arsenic	Big Hill Creek	3E-07	3E-07	9E-08		6E-07
Arsenic	Potato Creek	3E-07	2E-06	9E-08		3E-06
Arsenic	Claymore Creek	3E-07	3E-07	9E-08		7E-07
Barium	Verdigris River	3E-08	0E+00	8E-11	4E-06	3E-08
Barium	Big Hill Creek	3E-08	0E+00	8E-11	4E-06	3E-08
Barium	Potato Creek	3E-08	0E+00	8E-11	4E-06	3E-08
Barium	Claymore Creek	3E-08	0E+00	8E-11	4E-06	3E-08
Beryllium	Verdigris River	6E-08	5E-10	2E-10		6E-08
Beryllium	Big Hill Creek	6E-08	1E-08	2E-10		7E-08
Beryllium	Potato Creek	6E-08	1E-07	2E-10		2E-07
Beryllium	Claymore Creek	6E-08	1E-08	2E-10		8E-08
Cadmium	Verdigris River	1E-07	1E-07	2E-08		3E-07
Cadmium	Big Hill Creek	1E-07	2E-06	2E-08		2E-06
Cadmium	Potato Creek	1E-07	2E-05	2E-08		2E-05
Cadmium	Claymore Creek	1E-07	2E-06	2E-08		2E-06
Chromium VI	Verdigris River	2E-09	4E-11	1E-09		3E-09
Chromium VI	Big Hill Creek	2E-09	5E-10	1E-09		4E-09
Chromium VI	Potato Creek	2E-09	5E-09	1E-09		8E-09
Chromium VI	Claymore Creek	2E-09	6E-10	1E-09		4E-09
Chromium III	Verdigris River	2E-09	5E-13	2E-14		2E-09
Chromium III	Big Hill Creek	2E-09	1E-11	2E-14		2E-09
Chromium III	Potato Creek	2E-09	1E-10	2E-14		2E-09
Chromium III	Claymore Creek	2E-09	2E-11	2E-14		2E-09
Cobalt	Verdigris River	2E-08	0E+00	3E-09		2E-08
Cobalt	Big Hill Creek	2E-08	0E+00	3E-09		2E-08
Cobalt	Potato Creek	2E-08	0E+00	3E-09		2E-08
Cobalt	Claymore Creek	2E-08	0E+00	3E-09		2E-08
Hydrogen Chloride	Verdigris River				1E-04	
Hydrogen Chloride	Big Hill Creek				1E-04	
Hydrogen Chloride	Potato Creek				1E-04	
Hydrogen Chloride	Claymore Creek				1E-04	
Selenium	Verdigris River	3E-09	5E-07	6E-09		5E-07
Selenium	Big Hill Creek	3E-09	6E-06	6E-09		7E-06
Selenium	Potato Creek	3E-09	6E-05	6E-09		6E-05
Selenium	Claymore Creek	3E-09	8E-06	6E-09		8E-06
Chlorine	Verdigris River				1E-04	
Chlorine	Big Hill Creek				1E-04	
Chlorine	Potato Creek				1E-04	
Chlorine	Claymore Creek				1E-04	
Methylmercury - Developmental Effects	Verdigris River	2E-05	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Big Hill Creek	2E-05	6E-02	2E-08		6E-02
Methylmercury - Developmental Effects	Potato Creek	2E-05	3E-01	2E-08		3E-01
Methylmercury - Developmental Effects	Claymore Creek	2E-05	6E-02	2E-08		6E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Verdigris River	5E-06	2E-03	5E-09		2E-03
Methylmercury - Neurological Effects	Big Hill Creek	5E-06	2E-02	5E-09		2E-02
Methylmercury - Neurological Effects	Potato Creek	5E-06	9E-02	5E-09		9E-02
Methylmercury - Neurological Effects	Claymore Creek	5E-06	2E-02	5E-09		2E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	2E-09	5E-09	1E-12	3E-09	6E-09
2,3,7,8-TCDD-TEQ	Big Hill Creek	2E-09	1E-07	1E-12	3E-09	1E-07
2,3,7,8-TCDD-TEQ	Potato Creek	2E-09	9E-07	1E-12	3E-09	9E-07
2,3,7,8-TCDD-TEQ	Claymore Creek	2E-09	1E-07	1E-12	3E-09	1E-07
Nickel	Verdigris River				8E-11	
Nickel	Big Hill Creek				8E-11	
Nickel	Potato Creek				8E-11	
Nickel	Claymore Creek				8E-11	
Arsenic	Verdigris River	1E-11	2E-12	1E-11	8E-10	2E-11
Arsenic	Big Hill Creek	1E-11	3E-11	1E-11	8E-10	5E-11
Arsenic	Potato Creek	1E-11	3E-10	1E-11	8E-10	3E-10
Arsenic	Claymore Creek	1E-11	3E-11	1E-11	8E-10	6E-11
Beryllium	Verdigris River				5E-11	
Beryllium	Big Hill Creek				5E-11	
Beryllium	Potato Creek				5E-11	
Beryllium	Claymore Creek				5E-11	
Cadmium	Verdigris River				2E-10	
Cadmium	Big Hill Creek				2E-10	
Cadmium	Potato Creek				2E-10	
Cadmium	Claymore Creek				2E-10	
Chromium VI	Verdigris River				5E-10	
Chromium VI	Big Hill Creek				5E-10	
Chromium VI	Potato Creek				5E-10	
Chromium VI	Claymore Creek				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	2E-08	0E+00	1E-08	1E-03	3E-08
Manganese	Big Hill Creek	2E-08	0E+00	1E-08	1E-03	3E-08
Manganese	Potato Creek	2E-08	0E+00	1E-08	1E-03	3E-08
Manganese	Claymore Creek	2E-08	0E+00	1E-08	1E-03	3E-08
Mercury (elemental)	Verdigris River				1E-05	
Mercury (elemental)	Big Hill Creek				1E-05	
Mercury (elemental)	Potato Creek				1E-05	
Mercury (elemental)	Claymore Creek				1E-05	
Mercury (divalent)	Verdigris River	1E-04		5E-07		1E-04
Mercury (divalent)	Big Hill Creek	1E-04		5E-07		1E-04
Mercury (divalent)	Potato Creek	1E-04		5E-07		1E-04
Mercury (divalent)	Claymore Creek	1E-04		5E-07		1E-04
Nickel	Verdigris River	2E-09	1E-10	3E-09		5E-09
Nickel	Big Hill Creek	2E-09	2E-09	3E-09		7E-09
Nickel	Potato Creek	2E-09	2E-08	3E-09		2E-08
Nickel	Claymore Creek	2E-09	2E-09	3E-09		7E-09
Silver	Verdigris River	1E-10	0E+00	5E-09		5E-09
Silver	Big Hill Creek	1E-10	0E+00	5E-09		5E-09
Silver	Potato Creek	1E-10	0E+00	5E-09		5E-09
Silver	Claymore Creek	1E-10	0E+00	5E-09		5E-09
Thallium	Verdigris River	5E-06	7E-06	2E-06		1E-05
Thallium	Big Hill Creek	5E-06	1E-04	2E-06		1E-04
Thallium	Potato Creek	5E-06	9E-04	2E-06		9E-04
Thallium	Claymore Creek	5E-06	1E-04	2E-06		1E-04

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Verdigris River	2E-08	0E+00	2E-07		3E-07
Antimony	Big Hill Creek	2E-08	0E+00	2E-07		3E-07
Antimony	Potato Creek	2E-08	0E+00	2E-07		3E-07
Antimony	Claymore Creek	2E-08	0E+00	2E-07		3E-07
Arsenic	Verdigris River	1E-07	2E-08	1E-07		2E-07
Arsenic	Big Hill Creek	1E-07	3E-07	1E-07		5E-07
Arsenic	Potato Creek	1E-07	2E-06	1E-07		3E-06
Arsenic	Claymore Creek	1E-07	3E-07	1E-07		5E-07
Barium	Verdigris River	1E-08	0E+00	9E-11	4E-06	1E-08
Barium	Big Hill Creek	1E-08	0E+00	9E-11	4E-06	1E-08
Barium	Potato Creek	1E-08	0E+00	9E-11	4E-06	1E-08
Barium	Claymore Creek	1E-08	0E+00	9E-11	4E-06	1E-08
Beryllium	Verdigris River	2E-08	5E-10	3E-10		3E-08
Beryllium	Big Hill Creek	2E-08	1E-08	3E-10		4E-08
Beryllium	Potato Creek	2E-08	1E-07	3E-10		1E-07
Beryllium	Claymore Creek	2E-08	1E-08	3E-10		4E-08
Cadmium	Verdigris River	6E-08	1E-07	3E-08		2E-07
Cadmium	Big Hill Creek	6E-08	2E-06	3E-08		2E-06
Cadmium	Potato Creek	6E-08	2E-05	3E-08		2E-05
Cadmium	Claymore Creek	6E-08	2E-06	3E-08		2E-06
Chromium VI	Verdigris River	9E-10	4E-11	1E-09		2E-09
Chromium VI	Big Hill Creek	9E-10	5E-10	1E-09		3E-09
Chromium VI	Potato Creek	9E-10	5E-09	1E-09		7E-09
Chromium VI	Claymore Creek	9E-10	6E-10	1E-09		3E-09
Chromium III	Verdigris River	9E-10	5E-13	2E-14		9E-10
Chromium III	Big Hill Creek	9E-10	1E-11	2E-14		9E-10
Chromium III	Potato Creek	9E-10	1E-10	2E-14		1E-09
Chromium III	Claymore Creek	9E-10	2E-11	2E-14		9E-10
Cobalt	Verdigris River	6E-09	0E+00	4E-09		1E-08
Cobalt	Big Hill Creek	6E-09	0E+00	4E-09		1E-08
Cobalt	Potato Creek	6E-09	0E+00	4E-09		1E-08
Cobalt	Claymore Creek	6E-09	0E+00	4E-09		1E-08
Hydrogen Chloride	Verdigris River				1E-04	
Hydrogen Chloride	Big Hill Creek				1E-04	
Hydrogen Chloride	Potato Creek				1E-04	
Hydrogen Chloride	Claymore Creek				1E-04	
Selenium	Verdigris River	1E-09	5E-07	7E-09		5E-07
Selenium	Big Hill Creek	1E-09	6E-06	7E-09		7E-06
Selenium	Potato Creek	1E-09	6E-05	7E-09		6E-05
Selenium	Claymore Creek	1E-09	8E-06	7E-09		8E-06
Chlorine	Verdigris River				1E-04	
Chlorine	Big Hill Creek				1E-04	
Chlorine	Potato Creek				1E-04	
Chlorine	Claymore Creek				1E-04	
Methylmercury - Developmental Effects	Verdigris River	7E-06	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Big Hill Creek	7E-06	6E-02	2E-08		6E-02
Methylmercury - Developmental Effects	Potato Creek	7E-06	3E-01	2E-08		3E-01
Methylmercury - Developmental Effects	Claymore Creek	7E-06	6E-02	2E-08		6E-02

Table IX-A10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 325) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Verdigris River	2E-06	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Big Hill Creek	2E-06	2E-02	6E-09		2E-02
Methylmercury - Neurological Effects	Potato Creek	2E-06	9E-02	6E-09		9E-02
Methylmercury - Neurological Effects	Claymore Creek	2E-06	2E-02	6E-09		2E-02

Table IX-A11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	3E-10	2E-10	6E-10	1E-07	2E-06	1E-08	1E-07	6E-08	8E-08		7E-10	2E-06
Nickel												1E-09	
Arsenic	2E-09	9E-10	4E-10	2E-09	5E-09	9E-09	4E-10			2E-08		2E-08	4E-08
Beryllium												1E-10	
Cadmium												4E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	8E-07	9E-07	5E-07	2E-06	3E-07	2E-05	3E-08			0E+00		2E-03	2E-05
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	5E-05	2E-05	1E-04	2E-04	2E-03	4E-07						3E-03
Nickel	6E-07	3E-07	1E-07	6E-07	6E-06	6E-05	4E-07			1E-06			7E-05
Silver	2E-08	3E-07	7E-08	7E-07	4E-06	2E-03	2E-07			0E+00			2E-03
Thallium	1E-06	9E-08	6E-09	3E-07	3E-05	8E-05	3E-06			7E-05			2E-04
Antimony	2E-04	6E-04	2E-04	1E-03	2E-03	1E-02	9E-05			0E+00			2E-02
Arsenic	6E-05	2E-05	1E-05	5E-05	1E-04	2E-04	1E-05			4E-04			1E-03
Barium	1E-05	1E-06	3E-07	2E-06	6E-07	7E-05	9E-08			0E+00		2E-04	9E-05
Beryllium	2E-06	2E-08	4E-09	5E-08	2E-07	1E-08	8E-08			2E-07			2E-06
Cadmium	4E-06	4E-06	2E-06	7E-06	3E-07	1E-06	6E-08			3E-04			3E-04
Chromium VI	1E-08	3E-09	1E-09	9E-09	1E-07	2E-06	7E-09			2E-08			2E-06
Chromium III	4E-07	4E-09	3E-09	1E-08	3E-07	3E-06	9E-08			7E-11			4E-06
Cobalt	2E-07	4E-08	2E-10	1E-07	4E-06	2E-05	3E-07			0E+00			3E-05
Hydrogen Chloride												5E-05	
Selenium	6E-08	5E-08	4E-08	1E-07	1E-06	9E-05	4E-06			1E-03			1E-03
Chlorine												1E-05	
Methylmercury - Developmental Effects	9E-06	2E-05	2E-06	2E-05	4E-05	5E-04	3E-08			3E-03			3E-03
Methylmercury - Neurological Effects	3E-06	5E-06	7E-07	5E-06	1E-05	2E-04	9E-09			9E-04			1E-03

Table IX-A11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-10	2E-10	8E-10	2E-07	1E-06	1E-08	1E-07	6E-08	9E-08		8E-10	2E-06
Nickel												1E-09	
Arsenic	9E-10	6E-10	3E-10	3E-09	9E-09	7E-09	3E-10			2E-08		2E-08	4E-08
Beryllium												1E-10	
Cadmium												5E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	5E-07	3E-07	2E-06	4E-07	8E-06	2E-08			0E+00		2E-03	1E-05
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	3E-05	1E-05	1E-04	2E-04	1E-03	2E-07						2E-03
Nickel	2E-07	2E-07	8E-08	6E-07	7E-06	3E-05	2E-07			1E-06			4E-05
Silver	6E-09	2E-07	5E-08	7E-07	5E-06	8E-04	9E-08			0E+00			8E-04
Thallium	3E-07	5E-08	4E-09	2E-07	3E-05	4E-05	2E-06			5E-05			1E-04
Antimony	4E-05	4E-04	1E-04	1E-03	3E-03	7E-03	5E-05			0E+00			1E-02
Arsenic	2E-05	1E-05	7E-06	5E-05	2E-04	1E-04	6E-06			3E-04			7E-04
Barium	3E-06	7E-07	2E-07	2E-06	7E-07	4E-05	5E-08			0E+00		2E-04	4E-05
Beryllium	4E-07	1E-08	3E-09	5E-08	3E-07	5E-09	5E-08			2E-07			1E-06
Cadmium	1E-06	2E-06	1E-06	7E-06	4E-07	6E-07	4E-08			2E-04			2E-04
Chromium VI	3E-09	2E-09	9E-10	8E-09	1E-07	9E-07	4E-09			2E-08			1E-06
Chromium III	9E-08	2E-09	2E-09	1E-08	3E-07	2E-06	6E-08			5E-11			2E-06
Cobalt	6E-08	2E-08	2E-10	1E-07	4E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												5E-05	
Selenium	2E-08	3E-08	3E-08	1E-07	1E-06	5E-05	2E-06			7E-04			8E-04
Chlorine												1E-05	
Methylmercury - Developmental Effects	2E-06	9E-06	2E-06	1E-05	4E-05	3E-04	2E-08			2E-03			2E-03
Methylmercury - Neurological Effects	8E-07	3E-06	5E-07	5E-06	1E-05	9E-05	5E-09			7E-04			8E-04

Table IX-A11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-10	2E-10	1E-10	5E-10	1E-07	5E-07	8E-09	6E-08	3E-08	5E-08		5E-10	8E-07
Nickel												8E-10	
Arsenic	5E-10	5E-10	2E-10	1E-09	4E-09	3E-09	2E-10			1E-08		1E-08	2E-08
Beryllium												8E-11	
Cadmium												3E-10	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-07	4E-07	2E-07	9E-07	2E-07	3E-06	1E-08			0E+00		2E-03	5E-06
Mercury (elemental)												2E-05	
Mercury (divalent)	2E-05	2E-05	8E-06	5E-05	1E-04	6E-04	1E-07			0E+00			8E-04
Nickel	8E-08	1E-07	6E-08	3E-07	3E-06	1E-05	1E-07			6E-07			2E-05
Silver	3E-09	1E-07	4E-08	4E-07	2E-06	4E-04	6E-08			0E+00			4E-04
Thallium	2E-07	4E-08	3E-09	1E-07	2E-05	2E-05	1E-06			3E-05			6E-05
Antimony	2E-05	3E-04	8E-05	8E-04	1E-03	3E-03	4E-05			0E+00			5E-03
Arsenic	8E-06	1E-05	5E-06	3E-05	7E-05	5E-05	4E-06			2E-04			4E-04
Barium	2E-06	5E-07	2E-07	1E-06	3E-07	2E-05	3E-08			0E+00		2E-04	2E-05
Beryllium	2E-07	9E-09	2E-09	3E-08	1E-07	2E-09	3E-08			9E-08			5E-07
Cadmium	5E-07	2E-06	9E-07	4E-06	2E-07	3E-07	2E-08			1E-04			1E-04
Chromium VI	2E-09	1E-09	6E-10	4E-09	6E-08	4E-07	3E-09			9E-09			5E-07
Chromium III	5E-08	2E-09	1E-09	5E-09	1E-07	8E-07	4E-08			3E-11			1E-06
Cobalt	3E-08	2E-08	1E-10	5E-08	2E-06	5E-06	1E-07			0E+00			7E-06
Hydrogen Chloride												5E-05	
Selenium	8E-09	2E-08	2E-08	7E-08	6E-07	2E-05	1E-06			4E-04			4E-04
Chlorine												1E-05	
Methylmercury - Developmental Effects	1E-06	7E-06	1E-06	8E-06	2E-05	1E-04	1E-08			1E-03			1E-03
Methylmercury - Neurological Effects	4E-07	2E-06	4E-07	3E-06	7E-06	4E-05	3E-09			4E-04			4E-04

Table IX-A11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	4E-10	2E-10	8E-10	2E-07	4E-07	1E-08	1E-07	6E-08	1E-07		7E-10	9E-07
Nickel												1E-09	
Arsenic	4E-10	1E-09	5E-10	2E-09	9E-09	3E-09	4E-10			2E-08		2E-08	4E-08
Beryllium												1E-10	
Cadmium												5E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	5E-07	3E-07	8E-07	2E-07	2E-06	9E-09			0E+00		2E-03	3E-06
Mercury (elemental)												2E-05	
Mercury (divalent)	8E-06	3E-05	9E-06	5E-05	1E-04	2E-04	1E-07			0E+00			5E-04
Nickel	3E-08	2E-07	6E-08	3E-07	4E-06	6E-06	1E-07			6E-07			1E-05
Silver	1E-09	2E-07	4E-08	3E-07	3E-06	2E-04	5E-08			0E+00			2E-04
Thallium	7E-08	5E-08	3E-09	1E-07	2E-05	8E-06	1E-06			3E-05			6E-05
Antimony	9E-06	4E-04	9E-05	7E-04	1E-03	1E-03	3E-05			0E+00			4E-03
Arsenic	3E-06	1E-05	6E-06	2E-05	8E-05	2E-05	3E-06			2E-04			3E-04
Barium	7E-07	7E-07	2E-07	1E-06	4E-07	7E-06	3E-08			0E+00		2E-04	1E-05
Beryllium	9E-08	1E-08	2E-09	3E-08	1E-07	1E-09	3E-08			9E-08			4E-07
Cadmium	2E-07	2E-06	1E-06	3E-06	2E-07	1E-07	2E-08			1E-04			1E-04
Chromium VI	6E-10	2E-09	7E-10	4E-09	7E-08	2E-07	2E-09			1E-08			3E-07
Chromium III	2E-08	2E-09	1E-09	5E-09	2E-07	3E-07	3E-08			3E-11			6E-07
Cobalt	1E-08	2E-08	1E-10	5E-08	2E-06	2E-06	1E-07			0E+00			4E-06
Hydrogen Chloride												5E-05	
Selenium	3E-09	3E-08	2E-08	7E-08	6E-07	9E-06	1E-06			4E-04			4E-04
Chlorine												1E-05	
Methylmercury - Developmental Effects	5E-07	9E-06	1E-06	7E-06	2E-05	5E-05	9E-09			1E-03			1E-03
Methylmercury - Neurological Effects	2E-07	3E-06	4E-07	2E-06	8E-06	2E-05	3E-09			4E-04			4E-04

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River	4E-09	3E-08	1E-11	7E-10	4E-08
2,3,7,8-TCDD-TEQ	East Branch Black River	4E-09	1E-07	1E-11	7E-10	1E-07
2,3,7,8-TCDD-TEQ	Wyleswood Lake	4E-09	5E-08	1E-11	7E-10	5E-08
2,3,7,8-TCDD-TEQ	Baldwin Lake	4E-09	3E-08	1E-11	7E-10	3E-08
Nickel	Rocky River				1E-09	
Nickel	East Branch Black River				1E-09	
Nickel	Wyleswood Lake				1E-09	
Nickel	Baldwin Lake				1E-09	
Arsenic	Rocky River	2E-09	1E-10	3E-09	2E-08	6E-09
Arsenic	East Branch Black River	2E-09	6E-10	3E-09	2E-08	6E-09
Arsenic	Wyleswood Lake	2E-09	3E-09	3E-09	2E-08	9E-09
Arsenic	Baldwin Lake	2E-09	4E-10	3E-09	2E-08	6E-09
Beryllium	Rocky River				1E-10	
Beryllium	East Branch Black River				1E-10	
Beryllium	Wyleswood Lake				1E-10	
Beryllium	Baldwin Lake				1E-10	
Cadmium	Rocky River				4E-10	
Cadmium	East Branch Black River				4E-10	
Cadmium	Wyleswood Lake				4E-10	
Cadmium	Baldwin Lake				4E-10	
Chromium VI	Rocky River				3E-10	
Chromium VI	East Branch Black River				3E-10	
Chromium VI	Wyleswood Lake				3E-10	
Chromium VI	Baldwin Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Rocky River	8E-07	0E+00	5E-07	2E-03	1E-06
Manganese	East Branch Black River	8E-07	0E+00	5E-07	2E-03	1E-06
Manganese	Wyleswood Lake	8E-07	0E+00	5E-07	2E-03	1E-06
Manganese	Baldwin Lake	8E-07	0E+00	5E-07	2E-03	1E-06
Mercury (elemental)	Rocky River				2E-05	
Mercury (elemental)	East Branch Black River				2E-05	
Mercury (elemental)	Wyleswood Lake				2E-05	
Mercury (elemental)	Baldwin Lake				2E-05	
Mercury (divalent)	Rocky River	1E-04		3E-07		1E-04
Mercury (divalent)	East Branch Black River	1E-04		3E-07		1E-04
Mercury (divalent)	Wyleswood Lake	1E-04		3E-07		1E-04
Mercury (divalent)	Baldwin Lake	1E-04		3E-07		1E-04
Nickel	Rocky River	6E-07	1E-08	1E-06		2E-06
Nickel	East Branch Black River	6E-07	5E-08	1E-06		2E-06
Nickel	Wyleswood Lake	6E-07	2E-07	1E-06		2E-06
Nickel	Baldwin Lake	6E-07	3E-08	1E-06		2E-06
Silver	Rocky River	2E-08	0E+00	2E-06		2E-06
Silver	East Branch Black River	2E-08	0E+00	2E-06		2E-06
Silver	Wyleswood Lake	2E-08	0E+00	2E-06		2E-06
Silver	Baldwin Lake	2E-08	0E+00	2E-06		2E-06
Thallium	Rocky River	1E-06	6E-07	8E-07		3E-06
Thallium	East Branch Black River	1E-06	3E-06	8E-07		5E-06
Thallium	Wyleswood Lake	1E-06	1E-05	8E-07		2E-05
Thallium	Baldwin Lake	1E-06	2E-06	8E-07		4E-06

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Rocky River	2E-04	0E+00	3E-03		3E-03
Antimony	East Branch Black River	2E-04	0E+00	3E-03		3E-03
Antimony	Wyleswood Lake	2E-04	0E+00	3E-03		3E-03
Antimony	Baldwin Lake	2E-04	0E+00	3E-03		3E-03
Arsenic	Rocky River	6E-05	4E-06	9E-05		1E-04
Arsenic	East Branch Black River	6E-05	2E-05	9E-05		2E-04
Arsenic	Wyleswood Lake	6E-05	8E-05	9E-05		2E-04
Arsenic	Baldwin Lake	6E-05	9E-06	9E-05		2E-04
Barium	Rocky River	1E-05	0E+00	2E-07	2E-04	1E-05
Barium	East Branch Black River	1E-05	0E+00	2E-07	2E-04	1E-05
Barium	Wyleswood Lake	1E-05	0E+00	2E-07	2E-04	1E-05
Barium	Baldwin Lake	1E-05	0E+00	2E-07	2E-04	1E-05
Beryllium	Rocky River	2E-06	1E-08	3E-08		2E-06
Beryllium	East Branch Black River	2E-06	5E-08	3E-08		2E-06
Beryllium	Wyleswood Lake	2E-06	1E-07	3E-08		2E-06
Beryllium	Baldwin Lake	2E-06	2E-08	3E-08		2E-06
Cadmium	Rocky River	4E-06	3E-06	3E-06		1E-05
Cadmium	East Branch Black River	4E-06	1E-05	3E-06		2E-05
Cadmium	Wyleswood Lake	4E-06	6E-05	3E-06		7E-05
Cadmium	Baldwin Lake	4E-06	8E-06	3E-06		1E-05
Chromium VI	Rocky River	1E-08	2E-10	3E-08		4E-08
Chromium VI	East Branch Black River	1E-08	8E-10	3E-08		4E-08
Chromium VI	Wyleswood Lake	1E-08	4E-09	3E-08		4E-08
Chromium VI	Baldwin Lake	1E-08	5E-10	3E-08		4E-08
Chromium III	Rocky River	4E-07	5E-11	2E-11		4E-07
Chromium III	East Branch Black River	4E-07	2E-10	2E-11		4E-07
Chromium III	Wyleswood Lake	4E-07	3E-11	2E-11		4E-07
Chromium III	Baldwin Lake	4E-07	8E-12	2E-11		4E-07
Cobalt	Rocky River	2E-07	0E+00	2E-11		2E-07
Cobalt	East Branch Black River	2E-07	0E+00	2E-11		2E-07
Cobalt	Wyleswood Lake	2E-07	0E+00	2E-11		2E-07
Cobalt	Baldwin Lake	2E-07	0E+00	2E-11		2E-07
Hydrogen Chloride	Rocky River				5E-05	
Hydrogen Chloride	East Branch Black River				5E-05	
Hydrogen Chloride	Wyleswood Lake				5E-05	
Hydrogen Chloride	Baldwin Lake				5E-05	
Selenium	Rocky River	6E-08	8E-06	5E-07		8E-06
Selenium	East Branch Black River	6E-08	3E-05	5E-07		3E-05
Selenium	Wyleswood Lake	6E-08	2E-04	5E-07		2E-04
Selenium	Baldwin Lake	6E-08	2E-05	5E-07		2E-05
Chlorine	Rocky River				1E-05	
Chlorine	East Branch Black River				1E-05	
Chlorine	Wyleswood Lake				1E-05	
Chlorine	Baldwin Lake				1E-05	
Methylmercury - Developmental Effects	Rocky River	9E-06	1E-03	2E-08		1E-03
Methylmercury - Developmental Effects	East Branch Black River	9E-06	8E-03	2E-08		8E-03
Methylmercury - Developmental Effects	Wyleswood Lake	9E-06	3E-03	2E-08		3E-03
Methylmercury - Developmental Effects	Baldwin Lake	9E-06	2E-03	2E-08		2E-03

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Rocky River	3E-06	5E-04	6E-09		5E-04
Methylmercury - Neurological Effects	East Branch Black River	3E-06	3E-03	6E-09		3E-03
Methylmercury - Neurological Effects	Wyleswood Lake	3E-06	1E-03	6E-09		1E-03
Methylmercury - Neurological Effects	Baldwin Lake	3E-06	8E-04	6E-09		8E-04

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River	1E-09	5E-08	1E-11	8E-10	5E-08
2,3,7,8-TCDD-TEQ	East Branch Black River	1E-09	2E-07	1E-11	8E-10	2E-07
2,3,7,8-TCDD-TEQ	Wyleswood Lake	1E-09	7E-08	1E-11	8E-10	7E-08
2,3,7,8-TCDD-TEQ	Baldwin Lake	1E-09	4E-08	1E-11	8E-10	4E-08
Nickel	Rocky River				1E-09	
Nickel	East Branch Black River				1E-09	
Nickel	Wyleswood Lake				1E-09	
Nickel	Baldwin Lake				1E-09	
Arsenic	Rocky River	9E-10	2E-10	3E-09	2E-08	4E-09
Arsenic	East Branch Black River	9E-10	8E-10	3E-09	2E-08	4E-09
Arsenic	Wyleswood Lake	9E-10	4E-09	3E-09	2E-08	8E-09
Arsenic	Baldwin Lake	9E-10	5E-10	3E-09	2E-08	4E-09
Beryllium	Rocky River				1E-10	
Beryllium	East Branch Black River				1E-10	
Beryllium	Wyleswood Lake				1E-10	
Beryllium	Baldwin Lake				1E-10	
Cadmium	Rocky River				5E-10	
Cadmium	East Branch Black River				5E-10	
Cadmium	Wyleswood Lake				5E-10	
Cadmium	Baldwin Lake				5E-10	
Chromium VI	Rocky River				3E-10	
Chromium VI	East Branch Black River				3E-10	
Chromium VI	Wyleswood Lake				3E-10	
Chromium VI	Baldwin Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Rocky River	2E-07	0E+00	3E-07	2E-03	5E-07
Manganese	East Branch Black River	2E-07	0E+00	3E-07	2E-03	5E-07
Manganese	Wyleswood Lake	2E-07	0E+00	3E-07	2E-03	5E-07
Manganese	Baldwin Lake	2E-07	0E+00	3E-07	2E-03	5E-07
Mercury (elemental)	Rocky River				2E-05	
Mercury (elemental)	East Branch Black River				2E-05	
Mercury (elemental)	Wyleswood Lake				2E-05	
Mercury (elemental)	Baldwin Lake				2E-05	
Mercury (divalent)	Rocky River	4E-05		2E-07		4E-05
Mercury (divalent)	East Branch Black River	4E-05		2E-07		4E-05
Mercury (divalent)	Wyleswood Lake	4E-05		2E-07		4E-05
Mercury (divalent)	Baldwin Lake	4E-05		2E-07		4E-05
Nickel	Rocky River	2E-07	1E-08	7E-07		8E-07
Nickel	East Branch Black River	2E-07	5E-08	7E-07		9E-07
Nickel	Wyleswood Lake	2E-07	2E-07	7E-07		1E-06
Nickel	Baldwin Lake	2E-07	3E-08	7E-07		8E-07
Silver	Rocky River	6E-09	0E+00	1E-06		1E-06
Silver	East Branch Black River	6E-09	0E+00	1E-06		1E-06
Silver	Wyleswood Lake	6E-09	0E+00	1E-06		1E-06
Silver	Baldwin Lake	6E-09	0E+00	1E-06		1E-06
Thallium	Rocky River	3E-07	6E-07	4E-07		1E-06
Thallium	East Branch Black River	3E-07	3E-06	4E-07		3E-06
Thallium	Wyleswood Lake	3E-07	1E-05	4E-07		1E-05
Thallium	Baldwin Lake	3E-07	2E-06	4E-07		2E-06

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Number 331) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Rocky River	4E-05	0E+00	2E-03		2E-03
Antimony	East Branch Black River	4E-05	0E+00	2E-03		2E-03
Antimony	Wyleswood Lake	4E-05	0E+00	2E-03		2E-03
Antimony	Baldwin Lake	4E-05	0E+00	2E-03		2E-03
Arsenic	Rocky River	2E-05	4E-06	5E-05		7E-05
Arsenic	East Branch Black River	2E-05	2E-05	5E-05		8E-05
Arsenic	Wyleswood Lake	2E-05	8E-05	5E-05		1E-04
Arsenic	Baldwin Lake	2E-05	9E-06	5E-05		7E-05
Barium	Rocky River	3E-06	0E+00	1E-07	2E-04	3E-06
Barium	East Branch Black River	3E-06	0E+00	1E-07	2E-04	3E-06
Barium	Wyleswood Lake	3E-06	0E+00	1E-07	2E-04	3E-06
Barium	Baldwin Lake	3E-06	0E+00	1E-07	2E-04	3E-06
Beryllium	Rocky River	4E-07	1E-08	2E-08		4E-07
Beryllium	East Branch Black River	4E-07	5E-08	2E-08		5E-07
Beryllium	Wyleswood Lake	4E-07	1E-07	2E-08		6E-07
Beryllium	Baldwin Lake	4E-07	2E-08	2E-08		5E-07
Cadmium	Rocky River	1E-06	3E-06	2E-06		6E-06
Cadmium	East Branch Black River	1E-06	1E-05	2E-06		2E-05
Cadmium	Wyleswood Lake	1E-06	6E-05	2E-06		7E-05
Cadmium	Baldwin Lake	1E-06	8E-06	2E-06		1E-05
Chromium VI	Rocky River	3E-09	2E-10	1E-08		2E-08
Chromium VI	East Branch Black River	3E-09	8E-10	1E-08		2E-08
Chromium VI	Wyleswood Lake	3E-09	4E-09	1E-08		2E-08
Chromium VI	Baldwin Lake	3E-09	5E-10	1E-08		2E-08
Chromium III	Rocky River	9E-08	5E-11	1E-11		9E-08
Chromium III	East Branch Black River	9E-08	2E-10	1E-11		9E-08
Chromium III	Wyleswood Lake	9E-08	3E-11	1E-11		9E-08
Chromium III	Baldwin Lake	9E-08	8E-12	1E-11		9E-08
Cobalt	Rocky River	6E-08	0E+00	1E-11		6E-08
Cobalt	East Branch Black River	6E-08	0E+00	1E-11		6E-08
Cobalt	Wyleswood Lake	6E-08	0E+00	1E-11		6E-08
Cobalt	Baldwin Lake	6E-08	0E+00	1E-11		6E-08
Hydrogen Chloride	Rocky River				5E-05	
Hydrogen Chloride	East Branch Black River				5E-05	
Hydrogen Chloride	Wyleswood Lake				5E-05	
Hydrogen Chloride	Baldwin Lake				5E-05	
Selenium	Rocky River	2E-08	8E-06	3E-07		8E-06
Selenium	East Branch Black River	2E-08	3E-05	3E-07		3E-05
Selenium	Wyleswood Lake	2E-08	2E-04	3E-07		2E-04
Selenium	Baldwin Lake	2E-08	2E-05	3E-07		2E-05
Chlorine	Rocky River				1E-05	
Chlorine	East Branch Black River				1E-05	
Chlorine	Wyleswood Lake				1E-05	
Chlorine	Baldwin Lake				1E-05	
Methylmercury - Developmental Effects	Rocky River	2E-06	1E-03	9E-09		1E-03
Methylmercury - Developmental Effects	East Branch Black River	2E-06	8E-03	9E-09		8E-03
Methylmercury - Developmental Effects	Wyleswood Lake	2E-06	3E-03	9E-09		3E-03
Methylmercury - Developmental Effects	Baldwin Lake	2E-06	2E-03	9E-09		2E-03

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Rocky River	8E-07	5E-04	3E-09		5E-04
Methylmercury - Neurological Effects	East Branch Black River	8E-07	3E-03	3E-09		3E-03
Methylmercury - Neurological Effects	Wyleswood Lake	8E-07	1E-03	3E-09		1E-03
Methylmercury - Neurological Effects	Baldwin Lake	8E-07	8E-04	3E-09		8E-04

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River	8E-10	3E-08	7E-12	5E-10	3E-08
2,3,7,8-TCDD-TEQ	East Branch Black River	8E-10	1E-07	7E-12	5E-10	1E-07
2,3,7,8-TCDD-TEQ	Wyleswood Lake	8E-10	5E-08	7E-12	5E-10	5E-08
2,3,7,8-TCDD-TEQ	Baldwin Lake	8E-10	3E-08	7E-12	5E-10	3E-08
Nickel	Rocky River				8E-10	
Nickel	East Branch Black River				8E-10	
Nickel	Wyleswood Lake				8E-10	
Nickel	Baldwin Lake				8E-10	
Arsenic	Rocky River	5E-10	1E-10	2E-09	1E-08	2E-09
Arsenic	East Branch Black River	5E-10	6E-10	2E-09	1E-08	3E-09
Arsenic	Wyleswood Lake	5E-10	3E-09	2E-09	1E-08	5E-09
Arsenic	Baldwin Lake	5E-10	4E-10	2E-09	1E-08	3E-09
Beryllium	Rocky River				8E-11	
Beryllium	East Branch Black River				8E-11	
Beryllium	Wyleswood Lake				8E-11	
Beryllium	Baldwin Lake				8E-11	
Cadmium	Rocky River				3E-10	
Cadmium	East Branch Black River				3E-10	
Cadmium	Wyleswood Lake				3E-10	
Cadmium	Baldwin Lake				3E-10	
Chromium VI	Rocky River				2E-10	
Chromium VI	East Branch Black River				2E-10	
Chromium VI	Wyleswood Lake				2E-10	
Chromium VI	Baldwin Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Rocky River	1E-07	0E+00	2E-07	2E-03	3E-07
Manganese	East Branch Black River	1E-07	0E+00	2E-07	2E-03	3E-07
Manganese	Wyleswood Lake	1E-07	0E+00	2E-07	2E-03	3E-07
Manganese	Baldwin Lake	1E-07	0E+00	2E-07	2E-03	3E-07
Mercury (elemental)	Rocky River				2E-05	
Mercury (elemental)	East Branch Black River				2E-05	
Mercury (elemental)	Wyleswood Lake				2E-05	
Mercury (elemental)	Baldwin Lake				2E-05	
Mercury (divalent)	Rocky River	2E-05		1E-07		2E-05
Mercury (divalent)	East Branch Black River	2E-05		1E-07		2E-05
Mercury (divalent)	Wyleswood Lake	2E-05		1E-07		2E-05
Mercury (divalent)	Baldwin Lake	2E-05		1E-07		2E-05
Nickel	Rocky River	8E-08	8E-09	4E-07		5E-07
Nickel	East Branch Black River	8E-08	3E-08	4E-07		5E-07
Nickel	Wyleswood Lake	8E-08	2E-07	4E-07		7E-07
Nickel	Baldwin Lake	8E-08	2E-08	4E-07		5E-07
Silver	Rocky River	3E-09	0E+00	6E-07		6E-07
Silver	East Branch Black River	3E-09	0E+00	6E-07		6E-07
Silver	Wyleswood Lake	3E-09	0E+00	6E-07		6E-07
Silver	Baldwin Lake	3E-09	0E+00	6E-07		6E-07
Thallium	Rocky River	2E-07	5E-07	3E-07		9E-07
Thallium	East Branch Black River	2E-07	2E-06	3E-07		2E-06
Thallium	Wyleswood Lake	2E-07	9E-06	3E-07		1E-05
Thallium	Baldwin Lake	2E-07	1E-06	3E-07		2E-06

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Rocky River	2E-05	0E+00	1E-03		1E-03
Antimony	East Branch Black River	2E-05	0E+00	1E-03		1E-03
Antimony	Wyleswood Lake	2E-05	0E+00	1E-03		1E-03
Antimony	Baldwin Lake	2E-05	0E+00	1E-03		1E-03
Arsenic	Rocky River	8E-06	3E-06	3E-05		4E-05
Arsenic	East Branch Black River	8E-06	1E-05	3E-05		5E-05
Arsenic	Wyleswood Lake	8E-06	5E-05	3E-05		9E-05
Arsenic	Baldwin Lake	8E-06	6E-06	3E-05		5E-05
Barium	Rocky River	2E-06	0E+00	6E-08	2E-04	2E-06
Barium	East Branch Black River	2E-06	0E+00	6E-08	2E-04	2E-06
Barium	Wyleswood Lake	2E-06	0E+00	6E-08	2E-04	2E-06
Barium	Baldwin Lake	2E-06	0E+00	6E-08	2E-04	2E-06
Beryllium	Rocky River	2E-07	7E-09	1E-08		2E-07
Beryllium	East Branch Black River	2E-07	4E-08	1E-08		3E-07
Beryllium	Wyleswood Lake	2E-07	1E-07	1E-08		3E-07
Beryllium	Baldwin Lake	2E-07	1E-08	1E-08		2E-07
Cadmium	Rocky River	5E-07	2E-06	1E-06		4E-06
Cadmium	East Branch Black River	5E-07	9E-06	1E-06		1E-05
Cadmium	Wyleswood Lake	5E-07	5E-05	1E-06		5E-05
Cadmium	Baldwin Lake	5E-07	6E-06	1E-06		7E-06
Chromium VI	Rocky River	2E-09	1E-10	9E-09		1E-08
Chromium VI	East Branch Black River	2E-09	5E-10	9E-09		1E-08
Chromium VI	Wyleswood Lake	2E-09	3E-09	9E-09		1E-08
Chromium VI	Baldwin Lake	2E-09	3E-10	9E-09		1E-08
Chromium III	Rocky River	5E-08	4E-11	7E-12		5E-08
Chromium III	East Branch Black River	5E-08	2E-10	7E-12		5E-08
Chromium III	Wyleswood Lake	5E-08	2E-11	7E-12		5E-08
Chromium III	Baldwin Lake	5E-08	5E-12	7E-12		5E-08
Cobalt	Rocky River	3E-08	0E+00	7E-08		1E-07
Cobalt	East Branch Black River	3E-08	0E+00	7E-08		1E-07
Cobalt	Wyleswood Lake	3E-08	0E+00	7E-08		1E-07
Cobalt	Baldwin Lake	3E-08	0E+00	7E-08		1E-07
Hydrogen Chloride	Rocky River				5E-05	
Hydrogen Chloride	East Branch Black River				5E-05	
Hydrogen Chloride	Wyleswood Lake				5E-05	
Hydrogen Chloride	Baldwin Lake				5E-05	
Selenium	Rocky River	8E-09	5E-06	2E-07		6E-06
Selenium	East Branch Black River	8E-09	2E-05	2E-07		2E-05
Selenium	Wyleswood Lake	8E-09	1E-04	2E-07		1E-04
Selenium	Baldwin Lake	8E-09	1E-05	2E-07		1E-05
Chlorine	Rocky River				1E-05	
Chlorine	East Branch Black River				1E-05	
Chlorine	Wyleswood Lake				1E-05	
Chlorine	Baldwin Lake				1E-05	
Methylmercury - Developmental Effects	Rocky River	1E-06	1E-03	6E-09		1E-03
Methylmercury - Developmental Effects	East Branch Black River	1E-06	6E-03	6E-09		6E-03
Methylmercury - Developmental Effects	Wyleswood Lake	1E-06	2E-03	6E-09		2E-03
Methylmercury - Developmental Effects	Baldwin Lake	1E-06	2E-03	6E-09		2E-03

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Rocky River	4E-07	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	East Branch Black River	4E-07	2E-03	2E-09		2E-03
Methylmercury - Neurological Effects	Wyleswood Lake	4E-07	7E-04	2E-09		7E-04
Methylmercury - Neurological Effects	Baldwin Lake	4E-07	6E-04	2E-09		6E-04

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River	6E-10	6E-08	2E-11	7E-10	6E-08
2,3,7,8-TCDD-TEQ	East Branch Black River	6E-10	3E-07	2E-11	7E-10	3E-07
2,3,7,8-TCDD-TEQ	Wyleswood Lake	6E-10	9E-08	2E-11	7E-10	9E-08
2,3,7,8-TCDD-TEQ	Baldwin Lake	6E-10	6E-08	2E-11	7E-10	6E-08
Nickel	Rocky River				1E-09	
Nickel	East Branch Black River				1E-09	
Nickel	Wyleswood Lake				1E-09	
Nickel	Baldwin Lake				1E-09	
Arsenic	Rocky River	4E-10	3E-10	4E-09	2E-08	5E-09
Arsenic	East Branch Black River	4E-10	1E-09	4E-09	2E-08	5E-09
Arsenic	Wyleswood Lake	4E-10	6E-09	4E-09	2E-08	1E-08
Arsenic	Baldwin Lake	4E-10	7E-10	4E-09	2E-08	5E-09
Beryllium	Rocky River				1E-10	
Beryllium	East Branch Black River				1E-10	
Beryllium	Wyleswood Lake				1E-10	
Beryllium	Baldwin Lake				1E-10	
Cadmium	Rocky River				5E-10	
Cadmium	East Branch Black River				5E-10	
Cadmium	Wyleswood Lake				5E-10	
Cadmium	Baldwin Lake				5E-10	
Chromium VI	Rocky River				3E-10	
Chromium VI	East Branch Black River				3E-10	
Chromium VI	Wyleswood Lake				3E-10	
Chromium VI	Baldwin Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Rocky River	5E-08	0E+00	2E-07	2E-03	3E-07
Manganese	East Branch Black River	5E-08	0E+00	2E-07	2E-03	3E-07
Manganese	Wyleswood Lake	5E-08	0E+00	2E-07	2E-03	3E-07
Manganese	Baldwin Lake	5E-08	0E+00	2E-07	2E-03	3E-07
Mercury (elemental)	Rocky River				2E-05	
Mercury (elemental)	East Branch Black River				2E-05	
Mercury (elemental)	Wyleswood Lake				2E-05	
Mercury (elemental)	Baldwin Lake				2E-05	
Mercury (divalent)	Rocky River	8E-06		1E-07		8E-06
Mercury (divalent)	East Branch Black River	8E-06		1E-07		8E-06
Mercury (divalent)	Wyleswood Lake	8E-06		1E-07		8E-06
Mercury (divalent)	Baldwin Lake	8E-06		1E-07		8E-06
Nickel	Rocky River	3E-08	8E-09	5E-07		5E-07
Nickel	East Branch Black River	3E-08	3E-08	5E-07		6E-07
Nickel	Wyleswood Lake	3E-08	2E-07	5E-07		7E-07
Nickel	Baldwin Lake	3E-08	2E-08	5E-07		6E-07
Silver	Rocky River	1E-09	0E+00	7E-07		7E-07
Silver	East Branch Black River	1E-09	0E+00	7E-07		7E-07
Silver	Wyleswood Lake	1E-09	0E+00	7E-07		7E-07
Silver	Baldwin Lake	1E-09	0E+00	7E-07		7E-07
Thallium	Rocky River	7E-08	5E-07	3E-07		9E-07
Thallium	East Branch Black River	7E-08	2E-06	3E-07		2E-06
Thallium	Wyleswood Lake	7E-08	9E-06	3E-07		1E-05
Thallium	Baldwin Lake	7E-08	1E-06	3E-07		2E-06

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Rocky River	9E-06	0E+00	1E-03		1E-03
Antimony	East Branch Black River	9E-06	0E+00	1E-03		1E-03
Antimony	Wyleswood Lake	9E-06	0E+00	1E-03		1E-03
Antimony	Baldwin Lake	9E-06	0E+00	1E-03		1E-03
Arsenic	Rocky River	3E-06	3E-06	4E-05		4E-05
Arsenic	East Branch Black River	3E-06	1E-05	4E-05		5E-05
Arsenic	Wyleswood Lake	3E-06	5E-05	4E-05		9E-05
Arsenic	Baldwin Lake	3E-06	6E-06	4E-05		5E-05
Barium	Rocky River	7E-07	0E+00	7E-08	2E-04	7E-07
Barium	East Branch Black River	7E-07	0E+00	7E-08	2E-04	7E-07
Barium	Wyleswood Lake	7E-07	0E+00	7E-08	2E-04	7E-07
Barium	Baldwin Lake	7E-07	0E+00	7E-08	2E-04	7E-07
Beryllium	Rocky River	9E-08	7E-09	1E-08		1E-07
Beryllium	East Branch Black River	9E-08	4E-08	1E-08		1E-07
Beryllium	Wyleswood Lake	9E-08	1E-07	1E-08		2E-07
Beryllium	Baldwin Lake	9E-08	1E-08	1E-08		1E-07
Cadmium	Rocky River	2E-07	2E-06	1E-06		4E-06
Cadmium	East Branch Black River	2E-07	9E-06	1E-06		1E-05
Cadmium	Wyleswood Lake	2E-07	5E-05	1E-06		5E-05
Cadmium	Baldwin Lake	2E-07	6E-06	1E-06		7E-06
Chromium VI	Rocky River	6E-10	1E-10	1E-08		1E-08
Chromium VI	East Branch Black River	6E-10	5E-10	1E-08		1E-08
Chromium VI	Wyleswood Lake	6E-10	3E-09	1E-08		1E-08
Chromium VI	Baldwin Lake	6E-10	3E-10	1E-08		1E-08
Chromium III	Rocky River	2E-08	4E-11	9E-12		2E-08
Chromium III	East Branch Black River	2E-08	2E-10	9E-12		2E-08
Chromium III	Wyleswood Lake	2E-08	2E-11	9E-12		2E-08
Chromium III	Baldwin Lake	2E-08	5E-12	9E-12		2E-08
Cobalt	Rocky River	1E-08	0E+00	9E-08		1E-07
Cobalt	East Branch Black River	1E-08	0E+00	9E-08		1E-07
Cobalt	Wyleswood Lake	1E-08	0E+00	9E-08		1E-07
Cobalt	Baldwin Lake	1E-08	0E+00	9E-08		1E-07
Hydrogen Chloride	Rocky River				5E-05	
Hydrogen Chloride	East Branch Black River				5E-05	
Hydrogen Chloride	Wyleswood Lake				5E-05	
Hydrogen Chloride	Baldwin Lake				5E-05	
Selenium	Rocky River	3E-09	5E-06	2E-07		6E-06
Selenium	East Branch Black River	3E-09	2E-05	2E-07		2E-05
Selenium	Wyleswood Lake	3E-09	1E-04	2E-07		1E-04
Selenium	Baldwin Lake	3E-09	1E-05	2E-07		1E-05
Chlorine	Rocky River				1E-05	
Chlorine	East Branch Black River				1E-05	
Chlorine	Wyleswood Lake				1E-05	
Chlorine	Baldwin Lake				1E-05	
Methylmercury - Developmental Effects	Rocky River	5E-07	1E-03	7E-09		1E-03
Methylmercury - Developmental Effects	East Branch Black River	5E-07	6E-03	7E-09		6E-03
Methylmercury - Developmental Effects	Wyleswood Lake	5E-07	2E-03	7E-09		2E-03
Methylmercury - Developmental Effects	Baldwin Lake	5E-07	2E-03	7E-09		2E-03

Table IX-A12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 331) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Rocky River	2E-07	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	East Branch Black River	2E-07	2E-03	2E-09		2E-03
Methylmercury - Neurological Effects	Wyleswood Lake	2E-07	7E-04	2E-09		7E-04
Methylmercury - Neurological Effects	Baldwin Lake	2E-07	6E-04	2E-09		6E-04

Table IX-A13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	1E-09	6E-10	2E-09	5E-07	6E-06	5E-08	4E-07	2E-07	2E-07	3E-13	3E-09	7E-06
Nickel												2E-10	
Arsenic	4E-09	2E-09	6E-10	4E-09	1E-08	2E-08	7E-10			2E-08	9E-12	5E-08	7E-08
Beryllium												2E-10	
Cadmium												6E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-08	7E-08	4E-08	1E-07	2E-08	1E-06	2E-09			0E+00	6E-11	2E-04	1E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	1E-03	2E-06	2E-03	1E-03	1E-02	4E-07						2E-02
Nickel	6E-08	3E-08	1E-08	7E-08	8E-07	7E-06	4E-08			1E-07	2E-10		9E-06
Silver	1E-09	2E-08	4E-09	4E-08	3E-07	1E-04	1E-08			0E+00	2E-10		1E-04
Thallium	8E-07	7E-08	4E-09	2E-07	2E-05	6E-05	2E-06			4E-05	8E-10		1E-04
Antimony	7E-05	3E-04	7E-05	7E-04	1E-03	7E-03	5E-05			0E+00	2E-06		1E-02
Arsenic	1E-04	4E-05	2E-05	1E-04	3E-04	5E-04	2E-05			6E-04	2E-07		2E-03
Barium	2E-06	2E-07	5E-08	4E-07	1E-07	1E-05	2E-08			0E+00	1E-10	4E-05	2E-05
Beryllium	2E-06	3E-08	6E-09	8E-08	3E-07	1E-08	1E-07			2E-07	1E-10		3E-06
Cadmium	3E-06	4E-06	2E-06	7E-06	3E-07	1E-06	6E-08			2E-04	4E-09		2E-04
Chromium VI	8E-08	3E-08	1E-08	8E-08	1E-06	2E-05	6E-08			1E-07	3E-10		2E-05
Chromium III	8E-08	1E-09	6E-10	3E-09	6E-08	8E-07	2E-08			1E-11	5E-14		1E-06
Cobalt	1E-08	3E-09	2E-11	8E-09	3E-07	2E-06	2E-08			0E+00	2E-11		2E-06
Hydrogen Chloride												3E-03	
Selenium	3E-08	4E-08	2E-08	1E-07	8E-07	7E-05	3E-06			5E-04	5E-10		5E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	1E-06	4E-04	2E-07	4E-04	8E-04	1E-02	1E-07			6E-04			1E-02
Methylmercury - Neurological Effects	3E-07	1E-04	8E-08	1E-04	3E-04	4E-03	5E-08			2E-04			5E-03

Table IX-A13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	8E-10	5E-10	3E-09	9E-07	4E-06	4E-08	4E-07	2E-07	2E-07	2E-13	3E-09	6E-06
Nickel												2E-10	
Arsenic	1E-09	1E-09	6E-10	5E-09	2E-08	1E-08	6E-10			2E-08	7E-12	6E-08	7E-08
Beryllium												2E-10	
Cadmium												7E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	4E-08	3E-08	1E-07	3E-08	6E-07	1E-09			0E+00	3E-11	2E-04	8E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	7E-04	1E-06	2E-03	1E-03	7E-03	3E-07						1E-02
Nickel	2E-08	2E-08	8E-09	7E-08	9E-07	4E-06	3E-08			9E-08	1E-10		5E-06
Silver	3E-10	9E-09	3E-09	4E-08	3E-07	6E-05	6E-09			0E+00	9E-11		6E-05
Thallium	2E-07	4E-08	3E-09	2E-07	3E-05	3E-05	1E-06			3E-05	5E-10		9E-05
Antimony	2E-05	2E-04	5E-05	7E-04	1E-03	4E-03	3E-05			0E+00	1E-06		6E-03
Arsenic	2E-05	2E-05	1E-05	1E-04	3E-04	3E-04	1E-05			4E-04	1E-07		1E-03
Barium	5E-07	1E-07	4E-08	4E-07	1E-07	6E-06	9E-09			0E+00	6E-11	4E-05	8E-06
Beryllium	6E-07	2E-08	4E-09	8E-08	4E-07	7E-09	6E-08			2E-07	8E-11		1E-06
Cadmium	9E-07	2E-06	1E-06	7E-06	4E-07	6E-07	4E-08			2E-04	2E-09		2E-04
Chromium VI	2E-08	2E-08	7E-09	7E-08	1E-06	8E-06	3E-08			1E-07	2E-10		1E-05
Chromium III	2E-08	5E-10	4E-10	2E-09	8E-08	4E-07	1E-08			8E-12	3E-14		5E-07
Cobalt	4E-09	2E-09	1E-11	8E-09	4E-07	9E-07	1E-08			0E+00	1E-11		1E-06
Hydrogen Chloride												3E-03	
Selenium	9E-09	2E-08	2E-08	1E-07	1E-06	4E-05	2E-06			4E-04	3E-10		4E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	3E-07	2E-04	2E-07	4E-04	1E-03	6E-03	8E-08			5E-04			8E-03
Methylmercury - Neurological Effects	9E-08	7E-05	6E-08	1E-04	3E-04	2E-03	3E-08			2E-04			3E-03

Table IX-A13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	6E-10	4E-10	2E-09	4E-07	2E-06	3E-08	2E-07	1E-07	1E-07	1E-13	2E-09	3E-06
Nickel												1E-10	
Arsenic	7E-10	1E-09	4E-10	3E-09	9E-09	7E-09	4E-10			1E-08	5E-12	4E-08	3E-08
Beryllium												2E-10	
Cadmium												5E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-09	3E-08	2E-08	7E-08	1E-08	3E-07	7E-10			0E+00	2E-11	2E-04	4E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	2E-06	5E-04	9E-07	1E-03	5E-04	3E-03	2E-07			0E+00			6E-03
Nickel	8E-09	1E-08	6E-09	4E-08	4E-07	2E-06	2E-08			5E-08	7E-11		2E-06
Silver	2E-10	7E-09	2E-09	2E-08	2E-07	3E-05	4E-09			0E+00	6E-11		3E-05
Thallium	1E-07	3E-08	2E-09	1E-07	1E-05	1E-05	8E-07			1E-05	3E-10		4E-05
Antimony	9E-06	1E-04	3E-05	4E-04	7E-04	2E-03	2E-05			0E+00	8E-07		3E-03
Arsenic	1E-05	2E-05	8E-06	5E-05	2E-04	1E-04	7E-06			2E-04	8E-08		6E-04
Barium	3E-07	9E-08	3E-08	2E-07	5E-08	3E-06	6E-09			0E+00	4E-11	4E-05	4E-06
Beryllium	3E-07	1E-08	3E-09	4E-08	2E-07	3E-09	4E-08			9E-08	5E-11		7E-07
Cadmium	5E-07	2E-06	9E-07	4E-06	2E-07	3E-07	2E-08			9E-05	1E-09		9E-05
Chromium VI	1E-08	1E-08	5E-09	4E-08	6E-07	4E-06	2E-08			6E-08	1E-10		5E-06
Chromium III	1E-08	4E-10	3E-10	1E-09	3E-08	2E-07	8E-09			4E-12	2E-14		2E-07
Cobalt	2E-09	1E-09	9E-12	4E-09	2E-07	4E-07	9E-09			0E+00	8E-12		6E-07
Hydrogen Chloride												3E-03	
Selenium	5E-09	2E-08	1E-08	5E-08	4E-07	2E-05	1E-06			2E-04	2E-10		2E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	1E-07	2E-04	1E-07	2E-04	4E-04	3E-03	5E-08			3E-04			4E-03
Methylmercury - Neurological Effects	5E-08	6E-05	4E-08	7E-05	1E-04	9E-04	2E-08			9E-05			1E-03

Table IX-A13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-09	7E-10	3E-09	9E-07	2E-06	5E-08	3E-07	2E-07	2E-07	3E-13	3E-09	3E-06
Nickel												2E-10	
Arsenic	6E-10	2E-09	8E-10	4E-09	2E-08	5E-09	7E-10			3E-08	1E-11	6E-08	6E-08
Beryllium												2E-10	
Cadmium												7E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	4E-08	2E-08	6E-08	1E-08	1E-07	6E-10			0E+00	2E-11	2E-04	3E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	9E-07	7E-04	1E-06	1E-03	6E-04	1E-03	2E-07			0E+00			4E-03
Nickel	3E-09	2E-08	7E-09	4E-08	5E-07	8E-07	1E-08			5E-08	8E-11		1E-06
Silver	7E-11	1E-08	2E-09	2E-08	2E-07	1E-05	4E-09			0E+00	6E-11		1E-05
Thallium	5E-08	4E-08	2E-09	9E-08	1E-05	6E-06	7E-07			2E-05	3E-10		4E-05
Antimony	4E-06	2E-04	4E-05	4E-04	8E-04	8E-04	2E-05			0E+00	9E-07		2E-03
Arsenic	5E-06	2E-05	1E-05	5E-05	2E-04	5E-05	6E-06			3E-04	1E-07		6E-04
Barium	1E-07	1E-07	3E-08	2E-07	6E-08	1E-06	5E-09			0E+00	5E-11	4E-05	2E-06
Beryllium	1E-07	2E-08	3E-09	4E-08	2E-07	1E-09	4E-08			9E-08	6E-11		5E-07
Cadmium	2E-07	2E-06	1E-06	3E-06	2E-07	1E-07	2E-08			1E-04	2E-09		1E-04
Chromium VI	5E-09	2E-08	6E-09	4E-08	6E-07	2E-06	2E-08			6E-08	1E-10		2E-06
Chromium III	5E-09	6E-10	3E-10	1E-09	4E-08	8E-08	7E-09			5E-12	2E-14		1E-07
Cobalt	8E-10	2E-09	1E-11	4E-09	2E-07	2E-07	8E-09			0E+00	1E-11		4E-07
Hydrogen Chloride												3E-03	
Selenium	2E-09	2E-08	1E-08	5E-08	5E-07	7E-06	9E-07			2E-04	2E-10		2E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	6E-08	2E-04	1E-07	2E-04	5E-04	1E-03	5E-08			3E-04			2E-03
Methylmercury - Neurological Effects	2E-08	8E-05	5E-08	6E-05	2E-04	4E-04	2E-08			9E-05			8E-04

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	1E-08	6E-10	3E-13	3E-09	1E-08
2,3,7,8-TCDD-TEQ	Kentucky River	1E-08	1E-08	3E-13	3E-09	2E-08
2,3,7,8-TCDD-TEQ	Indian Creek	1E-08	6E-08	3E-13	3E-09	7E-08
2,3,7,8-TCDD-TEQ	Indian Kentuck Creek	1E-08	3E-08	3E-13	3E-09	4E-08
Nickel	Ohio River				2E-10	
Nickel	Kentucky River				2E-10	
Nickel	Indian Creek				2E-10	
Nickel	Indian Kentuck Creek				2E-10	
Arsenic	Ohio River	4E-09	9E-13	9E-12	5E-08	4E-09
Arsenic	Kentucky River	4E-09	2E-11	9E-12	5E-08	4E-09
Arsenic	Indian Creek	4E-09	1E-10	9E-12	5E-08	4E-09
Arsenic	Indian Kentuck Creek	4E-09	3E-10	9E-12	5E-08	4E-09
Beryllium	Ohio River				2E-10	
Beryllium	Kentucky River				2E-10	
Beryllium	Indian Creek				2E-10	
Beryllium	Indian Kentuck Creek				2E-10	
Cadmium	Ohio River				6E-10	
Cadmium	Kentucky River				6E-10	
Cadmium	Indian Creek				6E-10	
Cadmium	Indian Kentuck Creek				6E-10	
Chromium VI	Ohio River				3E-09	
Chromium VI	Kentucky River				3E-09	
Chromium VI	Indian Creek				3E-09	
Chromium VI	Indian Kentuck Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	5E-08	0E+00	6E-11	2E-04	5E-08
Manganese	Kentucky River	5E-08	0E+00	6E-11	2E-04	5E-08
Manganese	Indian Creek	5E-08	0E+00	6E-11	2E-04	5E-08
Manganese	Indian Kentuck Creek	5E-08	0E+00	6E-11	2E-04	5E-08
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Kentucky River				5E-04	
Mercury (elemental)	Indian Creek				5E-04	
Mercury (elemental)	Indian Kentuck Creek				5E-04	
Mercury (divalent)	Ohio River	2E-05		0E+00		2E-05
Mercury (divalent)	Kentucky River	2E-05		0E+00		2E-05
Mercury (divalent)	Indian Creek	2E-05		0E+00		2E-05
Mercury (divalent)	Indian Kentuck Creek	2E-05		0E+00		2E-05
Nickel	Ohio River	6E-08	5E-12	2E-10		6E-08
Nickel	Kentucky River	6E-08	9E-11	2E-10		6E-08
Nickel	Indian Creek	6E-08	7E-10	2E-10		6E-08
Nickel	Indian Kentuck Creek	6E-08	1E-09	2E-10		6E-08
Silver	Ohio River	1E-09	0E+00	2E-10		1E-09
Silver	Kentucky River	1E-09	0E+00	2E-10		1E-09
Silver	Indian Creek	1E-09	0E+00	2E-10		1E-09
Silver	Indian Kentuck Creek	1E-09	0E+00	2E-10		1E-09
Thallium	Ohio River	8E-07	2E-09	8E-10		8E-07
Thallium	Kentucky River	8E-07	3E-08	8E-10		9E-07
Thallium	Indian Creek	8E-07	2E-07	8E-10		1E-06
Thallium	Indian Kentuck Creek	8E-07	5E-07	8E-10		1E-06

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Ohio River	7E-05	0E+00	2E-06		7E-05
Antimony	Kentucky River	7E-05	0E+00	2E-06		7E-05
Antimony	Indian Creek	7E-05	0E+00	2E-06		7E-05
Antimony	Indian Kentuck Creek	7E-05	0E+00	2E-06		7E-05
Arsenic	Ohio River	1E-04	2E-08	2E-07		1E-04
Arsenic	Kentucky River	1E-04	5E-07	2E-07		1E-04
Arsenic	Indian Creek	1E-04	3E-06	2E-07		1E-04
Arsenic	Indian Kentuck Creek	1E-04	7E-06	2E-07		1E-04
Barium	Ohio River	2E-06	0E+00	1E-10	4E-05	2E-06
Barium	Kentucky River	2E-06	0E+00	1E-10	4E-05	2E-06
Barium	Indian Creek	2E-06	0E+00	1E-10	4E-05	2E-06
Barium	Indian Kentuck Creek	2E-06	0E+00	1E-10	4E-05	2E-06
Beryllium	Ohio River	2E-06	9E-11	1E-10		2E-06
Beryllium	Kentucky River	2E-06	2E-09	1E-10		2E-06
Beryllium	Indian Creek	2E-06	1E-08	1E-10		2E-06
Beryllium	Indian Kentuck Creek	2E-06	1E-08	1E-10		2E-06
Cadmium	Ohio River	3E-06	1E-08	4E-09		3E-06
Cadmium	Kentucky River	3E-06	2E-07	4E-09		4E-06
Cadmium	Indian Creek	3E-06	2E-06	4E-09		5E-06
Cadmium	Indian Kentuck Creek	3E-06	4E-06	4E-09		7E-06
Chromium VI	Ohio River	8E-08	5E-12	3E-10		8E-08
Chromium VI	Kentucky River	8E-08	1E-10	3E-10		8E-08
Chromium VI	Indian Creek	8E-08	8E-10	3E-10		9E-08
Chromium VI	Indian Kentuck Creek	8E-08	2E-09	3E-10		9E-08
Chromium III	Ohio River	8E-08	9E-14	5E-14		8E-08
Chromium III	Kentucky River	8E-08	2E-12	5E-14		8E-08
Chromium III	Indian Creek	8E-08	5E-12	5E-14		8E-08
Chromium III	Indian Kentuck Creek	8E-08	2E-12	5E-14		8E-08
Cobalt	Ohio River	1E-08	0E+00	5E-14		1E-08
Cobalt	Kentucky River	1E-08	0E+00	5E-14		1E-08
Cobalt	Indian Creek	1E-08	0E+00	5E-14		1E-08
Cobalt	Indian Kentuck Creek	1E-08	0E+00	5E-14		1E-08
Hydrogen Chloride	Ohio River				3E-03	
Hydrogen Chloride	Kentucky River				3E-03	
Hydrogen Chloride	Indian Creek				3E-03	
Hydrogen Chloride	Indian Kentuck Creek				3E-03	
Selenium	Ohio River	3E-08	2E-08	5E-10		5E-08
Selenium	Kentucky River	3E-08	3E-07	5E-10		4E-07
Selenium	Indian Creek	3E-08	3E-06	5E-10		3E-06
Selenium	Indian Kentuck Creek	3E-08	6E-06	5E-10		6E-06
Chlorine	Ohio River				4E-02	
Chlorine	Kentucky River				4E-02	
Chlorine	Indian Creek				4E-02	
Chlorine	Indian Kentuck Creek				4E-02	
Methylmercury - Developmental Effects	Ohio River	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Kentucky River	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Indian Creek	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Indian Kentuck Creek	1E-06	0E+00	0E+00		1E-06

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Ohio River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Kentucky River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Indian Creek	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Indian Kentuck Creek	3E-07	0E+00	0E+00		3E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	5E-09	8E-10	2E-13	3E-09	6E-09
2,3,7,8-TCDD-TEQ	Kentucky River	5E-09	1E-08	2E-13	3E-09	2E-08
2,3,7,8-TCDD-TEQ	Indian Creek	5E-09	8E-08	2E-13	3E-09	9E-08
2,3,7,8-TCDD-TEQ	Indian Kentuck Creek	5E-09	4E-08	2E-13	3E-09	5E-08
Nickel	Ohio River				2E-10	
Nickel	Kentucky River				2E-10	
Nickel	Indian Creek				2E-10	
Nickel	Indian Kentuck Creek				2E-10	
Arsenic	Ohio River	1E-09	1E-12	7E-12	6E-08	1E-09
Arsenic	Kentucky River	1E-09	3E-11	7E-12	6E-08	1E-09
Arsenic	Indian Creek	1E-09	2E-10	7E-12	6E-08	2E-09
Arsenic	Indian Kentuck Creek	1E-09	4E-10	7E-12	6E-08	2E-09
Beryllium	Ohio River				2E-10	
Beryllium	Kentucky River				2E-10	
Beryllium	Indian Creek				2E-10	
Beryllium	Indian Kentuck Creek				2E-10	
Cadmium	Ohio River				7E-10	
Cadmium	Kentucky River				7E-10	
Cadmium	Indian Creek				7E-10	
Cadmium	Indian Kentuck Creek				7E-10	
Chromium VI	Ohio River				4E-09	
Chromium VI	Kentucky River				4E-09	
Chromium VI	Indian Creek				4E-09	
Chromium VI	Indian Kentuck Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	1E-08	0E+00	3E-11	2E-04	1E-08
Manganese	Kentucky River	1E-08	0E+00	3E-11	2E-04	1E-08
Manganese	Indian Creek	1E-08	0E+00	3E-11	2E-04	1E-08
Manganese	Indian Kentuck Creek	1E-08	0E+00	3E-11	2E-04	1E-08
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Kentucky River				5E-04	
Mercury (elemental)	Indian Creek				5E-04	
Mercury (elemental)	Indian Kentuck Creek				5E-04	
Mercury (divalent)	Ohio River	4E-06		0E+00		4E-06
Mercury (divalent)	Kentucky River	4E-06		0E+00		4E-06
Mercury (divalent)	Indian Creek	4E-06		0E+00		4E-06
Mercury (divalent)	Indian Kentuck Creek	4E-06		0E+00		4E-06
Nickel	Ohio River	2E-08	5E-12	1E-10		2E-08
Nickel	Kentucky River	2E-08	9E-11	1E-10		2E-08
Nickel	Indian Creek	2E-08	7E-10	1E-10		2E-08
Nickel	Indian Kentuck Creek	2E-08	1E-09	1E-10		2E-08
Silver	Ohio River	3E-10	0E+00	9E-11		4E-10
Silver	Kentucky River	3E-10	0E+00	9E-11		4E-10
Silver	Indian Creek	3E-10	0E+00	9E-11		4E-10
Silver	Indian Kentuck Creek	3E-10	0E+00	9E-11		4E-10
Thallium	Ohio River	2E-07	2E-09	5E-10		2E-07
Thallium	Kentucky River	2E-07	3E-08	5E-10		2E-07
Thallium	Indian Creek	2E-07	2E-07	5E-10		5E-07
Thallium	Indian Kentuck Creek	2E-07	5E-07	5E-10		7E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Ohio River	2E-05	0E+00	1E-06		2E-05
Antimony	Kentucky River	2E-05	0E+00	1E-06		2E-05
Antimony	Indian Creek	2E-05	0E+00	1E-06		2E-05
Antimony	Indian Kentuck Creek	2E-05	0E+00	1E-06		2E-05
Arsenic	Ohio River	2E-05	2E-08	1E-07		2E-05
Arsenic	Kentucky River	2E-05	5E-07	1E-07		3E-05
Arsenic	Indian Creek	2E-05	3E-06	1E-07		3E-05
Arsenic	Indian Kentuck Creek	2E-05	7E-06	1E-07		3E-05
Barium	Ohio River	5E-07	0E+00	6E-11	4E-05	5E-07
Barium	Kentucky River	5E-07	0E+00	6E-11	4E-05	5E-07
Barium	Indian Creek	5E-07	0E+00	6E-11	4E-05	5E-07
Barium	Indian Kentuck Creek	5E-07	0E+00	6E-11	4E-05	5E-07
Beryllium	Ohio River	6E-07	9E-11	8E-11		6E-07
Beryllium	Kentucky River	6E-07	2E-09	8E-11		6E-07
Beryllium	Indian Creek	6E-07	1E-08	8E-11		6E-07
Beryllium	Indian Kentuck Creek	6E-07	1E-08	8E-11		6E-07
Cadmium	Ohio River	9E-07	1E-08	2E-09		9E-07
Cadmium	Kentucky River	9E-07	2E-07	2E-09		1E-06
Cadmium	Indian Creek	9E-07	2E-06	2E-09		3E-06
Cadmium	Indian Kentuck Creek	9E-07	4E-06	2E-09		4E-06
Chromium VI	Ohio River	2E-08	5E-12	2E-10		2E-08
Chromium VI	Kentucky River	2E-08	1E-10	2E-10		2E-08
Chromium VI	Indian Creek	2E-08	8E-10	2E-10		2E-08
Chromium VI	Indian Kentuck Creek	2E-08	2E-09	2E-10		2E-08
Chromium III	Ohio River	2E-08	9E-14	3E-14		2E-08
Chromium III	Kentucky River	2E-08	2E-12	3E-14		2E-08
Chromium III	Indian Creek	2E-08	5E-12	3E-14		2E-08
Chromium III	Indian Kentuck Creek	2E-08	2E-12	3E-14		2E-08
Cobalt	Ohio River	4E-09	0E+00	3E-14		4E-09
Cobalt	Kentucky River	4E-09	0E+00	3E-14		4E-09
Cobalt	Indian Creek	4E-09	0E+00	3E-14		4E-09
Cobalt	Indian Kentuck Creek	4E-09	0E+00	3E-14		4E-09
Hydrogen Chloride	Ohio River				3E-03	
Hydrogen Chloride	Kentucky River				3E-03	
Hydrogen Chloride	Indian Creek				3E-03	
Hydrogen Chloride	Indian Kentuck Creek				3E-03	
Selenium	Ohio River	9E-09	2E-08	3E-10		3E-08
Selenium	Kentucky River	9E-09	3E-07	3E-10		4E-07
Selenium	Indian Creek	9E-09	3E-06	3E-10		3E-06
Selenium	Indian Kentuck Creek	9E-09	6E-06	3E-10		6E-06
Chlorine	Ohio River				4E-02	
Chlorine	Kentucky River				4E-02	
Chlorine	Indian Creek				4E-02	
Chlorine	Indian Kentuck Creek				4E-02	
Methylmercury - Developmental Effects	Ohio River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Kentucky River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Indian Creek	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Indian Kentuck Creek	3E-07	0E+00	0E+00		3E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Ohio River	9E-08	0E+00	0E+00		9E-08
Methylmercury - Neurological Effects	Kentucky River	9E-08	0E+00	0E+00		9E-08
Methylmercury - Neurological Effects	Indian Creek	9E-08	0E+00	0E+00		9E-08
Methylmercury - Neurological Effects	Indian Kentuck Creek	9E-08	0E+00	0E+00		9E-08

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	3E-09	6E-10	1E-13	2E-09	3E-09
2,3,7,8-TCDD-TEQ	Kentucky River	3E-09	1E-08	1E-13	2E-09	1E-08
2,3,7,8-TCDD-TEQ	Indian Creek	3E-09	6E-08	1E-13	2E-09	6E-08
2,3,7,8-TCDD-TEQ	Indian Kentuck Creek	3E-09	3E-08	1E-13	2E-09	3E-08
Nickel	Ohio River				1E-10	
Nickel	Kentucky River				1E-10	
Nickel	Indian Creek				1E-10	
Nickel	Indian Kentuck Creek				1E-10	
Arsenic	Ohio River	7E-10	9E-13	5E-12	4E-08	7E-10
Arsenic	Kentucky River	7E-10	2E-11	5E-12	4E-08	8E-10
Arsenic	Indian Creek	7E-10	1E-10	5E-12	4E-08	9E-10
Arsenic	Indian Kentuck Creek	7E-10	3E-10	5E-12	4E-08	1E-09
Beryllium	Ohio River				2E-10	
Beryllium	Kentucky River				2E-10	
Beryllium	Indian Creek				2E-10	
Beryllium	Indian Kentuck Creek				2E-10	
Cadmium	Ohio River				5E-10	
Cadmium	Kentucky River				5E-10	
Cadmium	Indian Creek				5E-10	
Cadmium	Indian Kentuck Creek				5E-10	
Chromium VI	Ohio River				2E-09	
Chromium VI	Kentucky River				2E-09	
Chromium VI	Indian Creek				2E-09	
Chromium VI	Indian Kentuck Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	8E-09	0E+00	2E-11	2E-04	8E-09
Manganese	Kentucky River	8E-09	0E+00	2E-11	2E-04	8E-09
Manganese	Indian Creek	8E-09	0E+00	2E-11	2E-04	8E-09
Manganese	Indian Kentuck Creek	8E-09	0E+00	2E-11	2E-04	8E-09
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Kentucky River				5E-04	
Mercury (elemental)	Indian Creek				5E-04	
Mercury (elemental)	Indian Kentuck Creek				5E-04	
Mercury (divalent)	Ohio River	2E-06		0E+00		2E-06
Mercury (divalent)	Kentucky River	2E-06		0E+00		2E-06
Mercury (divalent)	Indian Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Indian Kentuck Creek	2E-06		0E+00		2E-06
Nickel	Ohio River	8E-09	3E-12	7E-11		8E-09
Nickel	Kentucky River	8E-09	7E-11	7E-11		8E-09
Nickel	Indian Creek	8E-09	5E-10	7E-11		9E-09
Nickel	Indian Kentuck Creek	8E-09	1E-09	7E-11		9E-09
Silver	Ohio River	2E-10	0E+00	6E-11		2E-10
Silver	Kentucky River	2E-10	0E+00	6E-11		2E-10
Silver	Indian Creek	2E-10	0E+00	6E-11		2E-10
Silver	Indian Kentuck Creek	2E-10	0E+00	6E-11		2E-10
Thallium	Ohio River	1E-07	1E-09	3E-10		1E-07
Thallium	Kentucky River	1E-07	2E-08	3E-10		1E-07
Thallium	Indian Creek	1E-07	2E-07	3E-10		3E-07
Thallium	Indian Kentuck Creek	1E-07	4E-07	3E-10		5E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Ohio River	9E-06	0E+00	8E-07		1E-05
Antimony	Kentucky River	9E-06	0E+00	8E-07		1E-05
Antimony	Indian Creek	9E-06	0E+00	8E-07		1E-05
Antimony	Indian Kentuck Creek	9E-06	0E+00	8E-07		1E-05
Arsenic	Ohio River	1E-05	2E-08	8E-08		1E-05
Arsenic	Kentucky River	1E-05	3E-07	8E-08		1E-05
Arsenic	Indian Creek	1E-05	2E-06	8E-08		2E-05
Arsenic	Indian Kentuck Creek	1E-05	5E-06	8E-08		2E-05
Barium	Ohio River	3E-07	0E+00	4E-11	4E-05	3E-07
Barium	Kentucky River	3E-07	0E+00	4E-11	4E-05	3E-07
Barium	Indian Creek	3E-07	0E+00	4E-11	4E-05	3E-07
Barium	Indian Kentuck Creek	3E-07	0E+00	4E-11	4E-05	3E-07
Beryllium	Ohio River	3E-07	6E-11	5E-11		3E-07
Beryllium	Kentucky River	3E-07	1E-09	5E-11		3E-07
Beryllium	Indian Creek	3E-07	1E-08	5E-11		3E-07
Beryllium	Indian Kentuck Creek	3E-07	9E-09	5E-11		3E-07
Cadmium	Ohio River	5E-07	8E-09	1E-09		5E-07
Cadmium	Kentucky River	5E-07	2E-07	1E-09		6E-07
Cadmium	Indian Creek	5E-07	1E-06	1E-09		2E-06
Cadmium	Indian Kentuck Creek	5E-07	3E-06	1E-09		3E-06
Chromium VI	Ohio River	1E-08	4E-12	1E-10		1E-08
Chromium VI	Kentucky River	1E-08	8E-11	1E-10		1E-08
Chromium VI	Indian Creek	1E-08	6E-10	1E-10		1E-08
Chromium VI	Indian Kentuck Creek	1E-08	1E-09	1E-10		1E-08
Chromium III	Ohio River	1E-08	6E-14	2E-14		1E-08
Chromium III	Kentucky River	1E-08	1E-12	2E-14		1E-08
Chromium III	Indian Creek	1E-08	3E-12	2E-14		1E-08
Chromium III	Indian Kentuck Creek	1E-08	1E-12	2E-14		1E-08
Cobalt	Ohio River	2E-09	0E+00	8E-12		2E-09
Cobalt	Kentucky River	2E-09	0E+00	8E-12		2E-09
Cobalt	Indian Creek	2E-09	0E+00	8E-12		2E-09
Cobalt	Indian Kentuck Creek	2E-09	0E+00	8E-12		2E-09
Hydrogen Chloride	Ohio River				3E-03	
Hydrogen Chloride	Kentucky River				3E-03	
Hydrogen Chloride	Indian Creek				3E-03	
Hydrogen Chloride	Indian Kentuck Creek				3E-03	
Selenium	Ohio River	5E-09	1E-08	2E-10		2E-08
Selenium	Kentucky River	5E-09	2E-07	2E-10		3E-07
Selenium	Indian Creek	5E-09	2E-06	2E-10		2E-06
Selenium	Indian Kentuck Creek	5E-09	4E-06	2E-10		4E-06
Chlorine	Ohio River				4E-02	
Chlorine	Kentucky River				4E-02	
Chlorine	Indian Creek				4E-02	
Chlorine	Indian Kentuck Creek				4E-02	
Methylmercury - Developmental Effects	Ohio River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Kentucky River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Indian Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Indian Kentuck Creek	1E-07	0E+00	0E+00		1E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Ohio River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Kentucky River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Indian Creek	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Indian Kentuck Creek	5E-08	0E+00	0E+00		5E-08

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	2E-09	1E-09	3E-13	3E-09	3E-09
2,3,7,8-TCDD-TEQ	Kentucky River	2E-09	2E-08	3E-13	3E-09	2E-08
2,3,7,8-TCDD-TEQ	Indian Creek	2E-09	1E-07	3E-13	3E-09	1E-07
2,3,7,8-TCDD-TEQ	Indian Kentuck Creek	2E-09	5E-08	3E-13	3E-09	6E-08
Nickel	Ohio River				2E-10	
Nickel	Kentucky River				2E-10	
Nickel	Indian Creek				2E-10	
Nickel	Indian Kentuck Creek				2E-10	
Arsenic	Ohio River	6E-10	2E-12	1E-11	6E-08	6E-10
Arsenic	Kentucky River	6E-10	4E-11	1E-11	6E-08	6E-10
Arsenic	Indian Creek	6E-10	3E-10	1E-11	6E-08	8E-10
Arsenic	Indian Kentuck Creek	6E-10	6E-10	1E-11	6E-08	1E-09
Beryllium	Ohio River				2E-10	
Beryllium	Kentucky River				2E-10	
Beryllium	Indian Creek				2E-10	
Beryllium	Indian Kentuck Creek				2E-10	
Cadmium	Ohio River				7E-10	
Cadmium	Kentucky River				7E-10	
Cadmium	Indian Creek				7E-10	
Cadmium	Indian Kentuck Creek				7E-10	
Chromium VI	Ohio River				4E-09	
Chromium VI	Kentucky River				4E-09	
Chromium VI	Indian Creek				4E-09	
Chromium VI	Indian Kentuck Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	3E-09	0E+00	2E-11	2E-04	3E-09
Manganese	Kentucky River	3E-09	0E+00	2E-11	2E-04	3E-09
Manganese	Indian Creek	3E-09	0E+00	2E-11	2E-04	3E-09
Manganese	Indian Kentuck Creek	3E-09	0E+00	2E-11	2E-04	3E-09
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Kentucky River				5E-04	
Mercury (elemental)	Indian Creek				5E-04	
Mercury (elemental)	Indian Kentuck Creek				5E-04	
Mercury (divalent)	Ohio River	9E-07		0E+00		9E-07
Mercury (divalent)	Kentucky River	9E-07		0E+00		9E-07
Mercury (divalent)	Indian Creek	9E-07		0E+00		9E-07
Mercury (divalent)	Indian Kentuck Creek	9E-07		0E+00		9E-07
Nickel	Ohio River	3E-09	3E-12	8E-11		3E-09
Nickel	Kentucky River	3E-09	7E-11	8E-11		3E-09
Nickel	Indian Creek	3E-09	5E-10	8E-11		4E-09
Nickel	Indian Kentuck Creek	3E-09	1E-09	8E-11		4E-09
Silver	Ohio River	7E-11	0E+00	6E-11		1E-10
Silver	Kentucky River	7E-11	0E+00	6E-11		1E-10
Silver	Indian Creek	7E-11	0E+00	6E-11		1E-10
Silver	Indian Kentuck Creek	7E-11	0E+00	6E-11		1E-10
Thallium	Ohio River	5E-08	1E-09	3E-10		5E-08
Thallium	Kentucky River	5E-08	2E-08	3E-10		7E-08
Thallium	Indian Creek	5E-08	2E-07	3E-10		2E-07
Thallium	Indian Kentuck Creek	5E-08	4E-07	3E-10		4E-07

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Ohio River	4E-06	0E+00	9E-07		5E-06
Antimony	Kentucky River	4E-06	0E+00	9E-07		5E-06
Antimony	Indian Creek	4E-06	0E+00	9E-07		5E-06
Antimony	Indian Kentuck Creek	4E-06	0E+00	9E-07		5E-06
Arsenic	Ohio River	5E-06	2E-08	1E-07		5E-06
Arsenic	Kentucky River	5E-06	3E-07	1E-07		6E-06
Arsenic	Indian Creek	5E-06	2E-06	1E-07		8E-06
Arsenic	Indian Kentuck Creek	5E-06	5E-06	1E-07		1E-05
Barium	Ohio River	1E-07	0E+00	5E-11	4E-05	1E-07
Barium	Kentucky River	1E-07	0E+00	5E-11	4E-05	1E-07
Barium	Indian Creek	1E-07	0E+00	5E-11	4E-05	1E-07
Barium	Indian Kentuck Creek	1E-07	0E+00	5E-11	4E-05	1E-07
Beryllium	Ohio River	1E-07	6E-11	6E-11		1E-07
Beryllium	Kentucky River	1E-07	1E-09	6E-11		1E-07
Beryllium	Indian Creek	1E-07	1E-08	6E-11		1E-07
Beryllium	Indian Kentuck Creek	1E-07	9E-09	6E-11		1E-07
Cadmium	Ohio River	2E-07	8E-09	2E-09		2E-07
Cadmium	Kentucky River	2E-07	2E-07	2E-09		4E-07
Cadmium	Indian Creek	2E-07	1E-06	2E-09		1E-06
Cadmium	Indian Kentuck Creek	2E-07	3E-06	2E-09		3E-06
Chromium VI	Ohio River	5E-09	4E-12	1E-10		5E-09
Chromium VI	Kentucky River	5E-09	8E-11	1E-10		5E-09
Chromium VI	Indian Creek	5E-09	6E-10	1E-10		5E-09
Chromium VI	Indian Kentuck Creek	5E-09	1E-09	1E-10		6E-09
Chromium III	Ohio River	5E-09	6E-14	2E-14		5E-09
Chromium III	Kentucky River	5E-09	1E-12	2E-14		5E-09
Chromium III	Indian Creek	5E-09	3E-12	2E-14		5E-09
Chromium III	Indian Kentuck Creek	5E-09	1E-12	2E-14		5E-09
Cobalt	Ohio River	8E-10	0E+00	1E-11		8E-10
Cobalt	Kentucky River	8E-10	0E+00	1E-11		8E-10
Cobalt	Indian Creek	8E-10	0E+00	1E-11		8E-10
Cobalt	Indian Kentuck Creek	8E-10	0E+00	1E-11		8E-10
Hydrogen Chloride	Ohio River				3E-03	
Hydrogen Chloride	Kentucky River				3E-03	
Hydrogen Chloride	Indian Creek				3E-03	
Hydrogen Chloride	Indian Kentuck Creek				3E-03	
Selenium	Ohio River	2E-09	1E-08	2E-10		1E-08
Selenium	Kentucky River	2E-09	2E-07	2E-10		3E-07
Selenium	Indian Creek	2E-09	2E-06	2E-10		2E-06
Selenium	Indian Kentuck Creek	2E-09	4E-06	2E-10		4E-06
Chlorine	Ohio River				4E-02	
Chlorine	Kentucky River				4E-02	
Chlorine	Indian Creek				4E-02	
Chlorine	Indian Kentuck Creek				4E-02	
Methylmercury - Developmental Effects	Ohio River	6E-08	0E+00	0E+00		6E-08
Methylmercury - Developmental Effects	Kentucky River	6E-08	0E+00	0E+00		6E-08
Methylmercury - Developmental Effects	Indian Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Developmental Effects	Indian Kentuck Creek	6E-08	0E+00	0E+00		6E-08

Table IX-A14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 359) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Ohio River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Kentucky River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Indian Creek	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Indian Kentuck Creek	2E-08	0E+00	0E+00		2E-08

Table IX-A15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 601) - Sector 5

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	3E-10	8E-11	7E-10	2E-07	2E-06	1E-08	4E-08	2E-08	7E-08		1E-09	2E-06
Nickel												3E-10	
Arsenic	1E-10	2E-11	1E-11	5E-11	1E-10	2E-10	2E-11			2E-09		2E-09	3E-09
Beryllium												3E-11	
Cadmium												4E-10	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	3E-08	2E-08	6E-08	1E-08	7E-07	1E-09			0E+00		3E-04	8E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	5E-04	6E-07	9E-04	4E-04	6E-03	2E-07						8E-03
Nickel	7E-08	2E-08	8E-09	4E-08	4E-07	4E-06	3E-08			4E-07			5E-06
Silver	2E-09	2E-08	7E-09	4E-08	2E-07	7E-05	7E-09			0E+00			7E-05
Thallium	1E-05	4E-07	3E-08	1E-06	1E-04	4E-04	3E-05			2E-03			2E-03
Antimony	3E-08	8E-08	3E-08	2E-07	2E-07	1E-06	8E-09			0E+00			2E-06
Arsenic	3E-06	6E-07	3E-07	1E-06	4E-06	6E-06	4E-07			5E-05			7E-05
Barium	7E-08	7E-09	2E-09	1E-08	3E-09	4E-07	5E-10			0E+00		5E-06	5E-07
Beryllium	7E-08	9E-10	2E-10	2E-09	1E-08	4E-10	3E-09			4E-08			1E-07
Cadmium	1E-06	5E-07	3E-07	1E-06	7E-08	2E-07	2E-08			2E-04			2E-04
Chromium VI	1E-08	2E-09	9E-10	4E-09	6E-08	9E-07	5E-09			6E-08			1E-06
Chromium III	1E-08	1E-10	9E-11	4E-10	9E-09	1E-07	3E-09			1E-11			1E-07
Cobalt	3E-08	3E-09	2E-11	6E-09	2E-07	1E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												3E-04	
Selenium	1E-08	7E-09	1E-08	2E-08	1E-07	1E-05	5E-07			6E-04			6E-04
Chlorine												2E-04	
Methylmercury - Developmental Effects	3E-07	2E-04	8E-08	2E-04	3E-04	5E-03	6E-08			0E+00			6E-03
Methylmercury - Neurological Effects	1E-07	5E-05	3E-08	5E-05	1E-04	2E-03	2E-08			0E+00			2E-03

Table IX-A15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 601) - Sector 5

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	3E-10	7E-11	9E-10	3E-07	1E-06	1E-08	4E-08	3E-08	7E-08		1E-09	2E-06
Nickel												3E-10	
Arsenic	4E-11	2E-11	9E-12	6E-11	2E-10	2E-10	1E-11			2E-09		3E-09	3E-09
Beryllium												3E-11	
Cadmium												4E-10	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	1E-08	5E-08	2E-08	3E-07	8E-10			0E+00		3E-04	4E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	3E-04	4E-07	9E-04	5E-04	3E-03	1E-07						5E-03
Nickel	2E-08	1E-08	6E-09	4E-08	4E-07	2E-06	2E-08			3E-07			3E-06
Silver	6E-10	9E-09	5E-09	4E-08	2E-07	3E-05	4E-09			0E+00			4E-05
Thallium	3E-06	2E-07	2E-08	1E-06	2E-04	2E-04	2E-05			1E-03			1E-03
Antimony	7E-09	5E-08	2E-08	2E-07	2E-07	5E-07	5E-09			0E+00			1E-06
Arsenic	8E-07	3E-07	2E-07	1E-06	4E-06	3E-06	2E-07			4E-05			5E-05
Barium	2E-08	4E-09	1E-09	1E-08	4E-09	2E-07	3E-10			0E+00		5E-06	3E-07
Beryllium	2E-08	5E-10	1E-10	2E-09	1E-08	2E-10	2E-09			3E-08			6E-08
Cadmium	3E-07	3E-07	2E-07	1E-06	9E-08	1E-07	9E-09			2E-04			2E-04
Chromium VI	3E-09	9E-10	6E-10	4E-09	7E-08	5E-07	3E-09			5E-08			6E-07
Chromium III	3E-09	8E-11	6E-11	3E-10	1E-08	6E-08	2E-09			7E-12			7E-08
Cobalt	8E-09	1E-09	1E-11	6E-09	3E-07	7E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												3E-04	
Selenium	4E-09	4E-09	7E-09	2E-08	1E-07	5E-06	3E-07			4E-04			5E-04
Chlorine												2E-04	
Methylmercury - Developmental Effects	9E-08	9E-05	6E-08	1E-04	4E-04	2E-03	3E-08			0E+00			3E-03
Methylmercury - Neurological Effects	3E-08	3E-05	2E-08	5E-05	1E-04	8E-04	1E-08			0E+00			1E-03

Table IX-A15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 601) - Sector 5

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	2E-10	5E-11	5E-10	1E-07	6E-07	7E-09	3E-08	1E-08	4E-08		8E-10	9E-07
Nickel												2E-10	
Arsenic	2E-11	1E-11	7E-12	3E-11	1E-10	8E-11	8E-12			1E-09		2E-09	1E-09
Beryllium												2E-11	
Cadmium												3E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	7E-09	1E-08	7E-09	3E-08	7E-09	2E-07	5E-10			0E+00		3E-04	2E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	7E-07	2E-04	3E-07	5E-04	2E-04	1E-03	7E-08			0E+00			2E-03
Nickel	1E-08	7E-09	4E-09	2E-08	2E-07	8E-07	1E-08			2E-07			1E-06
Silver	3E-10	7E-09	4E-09	2E-08	9E-08	2E-05	3E-09			0E+00			2E-05
Thallium	2E-06	2E-07	1E-08	5E-07	7E-05	8E-05	1E-05			6E-04			8E-04
Antimony	4E-09	4E-08	1E-08	9E-08	9E-08	2E-07	3E-09			0E+00			5E-07
Arsenic	4E-07	3E-07	1E-07	7E-07	2E-06	1E-06	2E-07			2E-05			3E-05
Barium	1E-08	3E-09	9E-10	7E-09	2E-09	1E-07	2E-10			0E+00		5E-06	1E-07
Beryllium	1E-08	4E-10	9E-11	1E-09	5E-09	1E-10	1E-09			1E-08			3E-08
Cadmium	2E-07	2E-07	1E-07	5E-07	4E-08	6E-08	6E-09			9E-05			9E-05
Chromium VI	2E-09	7E-10	4E-10	2E-09	3E-08	2E-07	2E-09			2E-08			3E-07
Chromium III	2E-09	6E-11	4E-11	2E-10	5E-09	3E-08	1E-09			4E-12			3E-08
Cobalt	4E-09	1E-09	8E-12	3E-09	1E-07	3E-07	1E-08			0E+00			5E-07
Hydrogen Chloride												3E-04	
Selenium	2E-09	3E-09	5E-09	9E-09	6E-08	2E-06	2E-07			2E-04			2E-04
Chlorine												2E-04	
Methylmercury - Developmental Effects	5E-08	7E-05	4E-08	8E-05	2E-04	1E-03	2E-08			0E+00			1E-03
Methylmercury - Neurological Effects	2E-08	2E-05	1E-08	3E-05	6E-05	4E-04	7E-09			0E+00			5E-04

Table IX-A15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number 601) - Sector 5

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	5E-10	9E-11	8E-10	3E-07	5E-07	1E-08	4E-08	2E-08	8E-08		1E-09	1E-06
Nickel												3E-10	
Arsenic	2E-11	3E-11	1E-11	6E-11	2E-10	7E-11	1E-11			3E-09		3E-09	3E-09
Beryllium												3E-11	
Cadmium												4E-10	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-09	2E-08	9E-09	3E-08	8E-09	7E-08	4E-10			0E+00		3E-04	1E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	3E-07	3E-04	3E-07	5E-04	2E-04	6E-04	6E-08			0E+00			2E-03
Nickel	4E-09	1E-08	4E-09	2E-08	2E-07	4E-07	1E-08			2E-07			8E-07
Silver	1E-10	1E-08	4E-09	2E-08	1E-07	7E-06	2E-09			0E+00			7E-06
Thallium	7E-07	2E-07	1E-08	5E-07	8E-05	4E-05	9E-06			7E-04			8E-04
Antimony	2E-09	5E-08	1E-08	8E-08	1E-07	1E-07	3E-09			0E+00			4E-07
Arsenic	2E-07	3E-07	2E-07	6E-07	2E-06	6E-07	1E-07			2E-05			3E-05
Barium	4E-09	4E-09	1E-09	6E-09	2E-09	4E-08	2E-10			0E+00		5E-06	6E-08
Beryllium	4E-09	5E-10	1E-10	1E-09	6E-09	4E-11	1E-09			2E-08			3E-08
Cadmium	6E-08	3E-07	1E-07	5E-07	4E-08	2E-08	5E-09			1E-04			1E-04
Chromium VI	7E-10	1E-09	5E-10	2E-09	4E-08	9E-08	2E-09			3E-08			2E-07
Chromium III	7E-10	8E-11	5E-11	2E-10	6E-09	1E-08	1E-09			4E-12			2E-08
Cobalt	2E-09	2E-09	9E-12	3E-09	1E-07	1E-07	1E-08			0E+00			3E-07
Hydrogen Chloride												3E-04	
Selenium	8E-10	4E-09	5E-09	9E-09	7E-08	1E-06	2E-07			3E-04			3E-04
Chlorine												2E-04	
Methylmercury - Developmental Effects	2E-08	9E-05	5E-08	7E-05	2E-04	5E-04	2E-08			0E+00			9E-04
Methylmercury - Neurological Effects	6E-09	3E-05	2E-08	2E-05	7E-05	2E-04	6E-09			0E+00			3E-04

Table IX-A16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number 601) - Sector 13

	All Subsistence Fisher Age Groups					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
	This site has no waterbodies					
	Noncarcinogenic Chemicals					
	This site has no waterbodies					

Table IX-A17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	7E-11	2E-11	1E-10	3E-08	4E-07	2E-09	9E-09	5E-09	1E-08	2E-12	2E-10	4E-07
Nickel												1E-10	
Arsenic	6E-12	2E-12	9E-13	5E-12	2E-11	3E-11	1E-12			4E-11	4E-12	2E-10	1E-10
Beryllium												2E-11	
Cadmium												2E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-08	6E-09	2E-08	4E-09	2E-07	3E-10			0E+00	3E-09	8E-05	3E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	4E-06	6E-05	7E-05	8E-04	1E-07				2E-07		1E-03
Nickel	2E-08	9E-09	3E-09	2E-08	2E-07	2E-06	1E-08			3E-08	2E-08		2E-06
Silver	5E-11	6E-10	2E-10	2E-09	1E-08	4E-06	4E-10			0E+00	2E-09		4E-06
Thallium	9E-08	7E-09	4E-10	2E-08	2E-06	6E-06	2E-07			4E-06	2E-08		1E-05
Antimony	2E-08	9E-08	2E-08	2E-07	4E-07	2E-06	1E-08			0E+00	2E-07		3E-06
Arsenic	1E-07	6E-08	2E-08	1E-07	4E-07	7E-07	3E-08			9E-07	1E-07		3E-06
Barium	2E-08	2E-09	4E-10	3E-09	8E-10	1E-07	1E-10			0E+00	2E-10	8E-07	1E-07
Beryllium	1E-07	1E-09	3E-10	4E-09	2E-08	6E-10	5E-09			2E-08	1E-09		1E-07
Cadmium	5E-07	5E-07	2E-07	9E-07	5E-08	2E-07	8E-09			3E-05	2E-07		4E-05
Chromium VI	4E-08	1E-08	5E-09	4E-08	5E-07	8E-06	3E-08			7E-08	4E-08		8E-06
Chromium III	6E-08	7E-10	4E-10	2E-09	5E-08	6E-07	2E-08			1E-11	7E-12		7E-07
Cobalt	3E-09	6E-10	3E-12	1E-09	5E-08	3E-07	4E-09			0E+00	1E-09		4E-07
Hydrogen Chloride												5E-05	
Selenium	4E-10	4E-10	3E-10	1E-09	8E-09	7E-07	3E-08			5E-06	1E-09		5E-06
Chlorine												2E-05	
Methylmercury - Developmental Effects	2E-06	1E-05	6E-07	1E-05	2E-05	3E-04	9E-09			5E-04	3E-09		8E-04
Methylmercury - Neurological Effects	8E-07	4E-06	2E-07	3E-06	8E-06	1E-04	3E-09			2E-04	1E-09		3E-04

Table IX-A17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	5E-11	2E-11	2E-10	5E-08	3E-07	2E-09	9E-09	5E-09	1E-08	1E-12	2E-10	3E-07
Nickel												1E-10	
Arsenic	2E-12	2E-12	9E-13	7E-12	3E-11	2E-11	9E-13			4E-11	3E-12	2E-10	1E-10
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	7E-09	4E-09	2E-08	5E-09	1E-07	2E-10			0E+00	2E-09	8E-05	1E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	3E-06	6E-05	8E-05	4E-04	6E-08				9E-08		6E-04
Nickel	5E-09	5E-09	2E-09	2E-08	2E-07	1E-06	7E-09			3E-08	9E-09		1E-06
Silver	1E-11	4E-10	1E-10	2E-09	1E-08	2E-06	2E-10			0E+00	1E-09		2E-06
Thallium	2E-08	4E-09	3E-10	2E-08	3E-06	3E-06	1E-07			3E-06	1E-08		9E-06
Antimony	6E-09	5E-08	1E-08	2E-07	4E-07	1E-06	9E-09			0E+00	1E-07		2E-06
Arsenic	4E-08	3E-08	2E-08	1E-07	5E-07	4E-07	2E-08			7E-07	6E-08		2E-06
Barium	4E-09	9E-10	3E-10	3E-09	9E-10	5E-08	7E-11			0E+00	8E-11	8E-07	6E-08
Beryllium	3E-08	8E-10	2E-10	4E-09	2E-08	3E-10	3E-09			1E-08	6E-10		7E-08
Cadmium	1E-07	3E-07	2E-07	9E-07	6E-08	9E-08	5E-09			3E-05	9E-08		3E-05
Chromium VI	1E-08	7E-09	4E-09	3E-08	6E-07	4E-06	2E-08			5E-08	2E-08		5E-06
Chromium III	2E-08	4E-10	3E-10	2E-09	6E-08	3E-07	9E-09			1E-11	4E-12		4E-07
Cobalt	7E-10	3E-10	2E-12	1E-09	6E-08	1E-07	3E-09			0E+00	7E-10		2E-07
Hydrogen Chloride												5E-05	
Selenium	1E-10	2E-10	2E-10	1E-09	9E-09	3E-07	2E-08			4E-06	8E-10		4E-06
Chlorine												2E-05	
Methylmercury - Developmental Effects	6E-07	6E-06	4E-07	1E-05	3E-05	2E-04	6E-09			3E-04	2E-09		6E-04
Methylmercury - Neurological Effects	2E-07	2E-06	1E-07	3E-06	9E-06	6E-05	2E-09			1E-04	6E-10		2E-04

Table IX-A17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-11	4E-11	1E-11	9E-11	3E-08	1E-07	1E-09	5E-09	3E-09	6E-09	1E-12	1E-10	2E-07
Nickel												8E-11	
Arsenic	1E-12	1E-12	6E-13	4E-12	1E-11	9E-12	6E-13			2E-11	2E-12	1E-10	5E-11
Beryllium												2E-11	
Cadmium												2E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	5E-09	3E-09	1E-08	2E-09	5E-08	1E-10			0E+00	1E-09	8E-05	7E-08
Mercury (elemental)												1E-05	
Mercury (divalent)	5E-06	1E-05	2E-06	3E-05	4E-05	2E-04	4E-08			0E+00	6E-08		3E-04
Nickel	2E-09	4E-09	2E-09	1E-08	1E-07	5E-07	5E-09			1E-08	6E-09		6E-07
Silver	7E-12	3E-10	8E-11	9E-10	6E-09	1E-06	2E-10			0E+00	6E-10		1E-06
Thallium	1E-08	3E-09	2E-10	1E-08	1E-06	1E-06	9E-08			2E-06	9E-09		4E-06
Antimony	3E-09	4E-08	1E-08	1E-07	2E-07	5E-07	6E-09			0E+00	7E-08		9E-07
Arsenic	2E-08	3E-08	1E-08	7E-08	2E-07	2E-07	1E-08			4E-07	4E-08		9E-07
Barium	2E-09	7E-10	2E-10	2E-09	4E-10	2E-08	5E-11			0E+00	5E-11	8E-07	3E-08
Beryllium	1E-08	6E-10	1E-10	2E-09	8E-09	1E-10	2E-09			7E-09	4E-10		3E-08
Cadmium	7E-08	2E-07	1E-07	5E-07	3E-08	4E-08	3E-09			1E-05	6E-08		1E-05
Chromium VI	6E-09	6E-09	2E-09	2E-08	3E-07	2E-06	1E-08			3E-08	2E-08		2E-06
Chromium III	8E-09	3E-10	2E-10	9E-10	3E-08	1E-07	6E-09			6E-12	3E-12		2E-07
Cobalt	4E-10	3E-10	2E-12	7E-10	3E-08	7E-08	2E-09			0E+00	4E-10		1E-07
Hydrogen Chloride												5E-05	
Selenium	5E-11	2E-10	1E-10	5E-10	4E-09	2E-07	1E-08			2E-06	5E-10		2E-06
Chlorine												2E-05	
Methylmercury - Developmental Effects	3E-07	5E-06	3E-07	5E-06	1E-05	8E-05	4E-09			2E-04	1E-09		3E-04
Methylmercury - Neurological Effects	1E-07	2E-06	1E-07	2E-06	4E-06	3E-05	1E-09			6E-05	4E-10		9E-05

Table IX-A17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-11	1E-10	2E-11	2E-10	5E-08	1E-07	2E-09	9E-09	5E-09	1E-08	2E-12	2E-10	2E-07
Nickel												1E-10	
Arsenic	9E-13	3E-12	1E-12	6E-12	3E-11	8E-12	1E-12			4E-11	4E-12	2E-10	9E-11
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-10	7E-09	3E-09	1E-08	3E-09	2E-08	1E-10			0E+00	1E-09	8E-05	5E-08
Mercury (elemental)												1E-05	
Mercury (divalent)	2E-06	2E-05	2E-06	3E-05	4E-05	8E-05	4E-08			0E+00	7E-08		2E-04
Nickel	1E-09	5E-09	2E-09	1E-08	1E-07	2E-07	4E-09			2E-08	7E-09		4E-07
Silver	3E-12	4E-10	9E-11	8E-10	6E-09	4E-07	1E-10			0E+00	7E-10		4E-07
Thallium	5E-09	4E-09	2E-10	9E-09	1E-06	6E-07	8E-08			2E-06	1E-08		4E-06
Antimony	1E-09	5E-08	1E-08	1E-07	2E-07	2E-07	5E-09			0E+00	8E-08		7E-07
Arsenic	8E-09	4E-08	1E-08	7E-08	3E-07	7E-08	9E-09			4E-07	4E-08		9E-07
Barium	9E-10	9E-10	2E-10	2E-09	5E-10	1E-08	4E-11			0E+00	6E-11	8E-07	1E-08
Beryllium	6E-09	8E-10	2E-10	2E-09	9E-09	7E-11	2E-09			7E-09	5E-10		3E-08
Cadmium	3E-08	3E-07	1E-07	5E-07	3E-08	2E-08	3E-09			2E-05	7E-08		2E-05
Chromium VI	2E-09	7E-09	3E-09	2E-08	3E-07	8E-07	9E-09			3E-08	2E-08		1E-06
Chromium III	3E-09	4E-10	2E-10	9E-10	3E-08	6E-08	5E-09			6E-12	3E-12		1E-07
Cobalt	2E-10	3E-10	2E-12	7E-10	3E-08	3E-08	1E-09			0E+00	5E-10		6E-08
Hydrogen Chloride												5E-05	
Selenium	2E-11	2E-10	1E-10	5E-10	5E-09	7E-08	9E-09			2E-06	6E-10		2E-06
Chlorine												2E-05	
Methylmercury - Developmental Effects	1E-07	6E-06	3E-07	5E-06	1E-05	3E-05	3E-09			2E-04	1E-09		3E-04
Methylmercury - Neurological Effects	4E-08	2E-06	1E-07	2E-06	5E-06	1E-05	1E-09			7E-05	4E-10		9E-05

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ellicott Creek	3E-10	4E-09	2E-12	2E-10	4E-09
2,3,7,8-TCDD-TEQ	Tonawanda Creek	3E-10	3E-09	2E-12	2E-10	3E-09
2,3,7,8-TCDD-TEQ	Murder Creek	3E-10	4E-09	2E-12	2E-10	4E-09
Nickel	Ellicott Creek				1E-10	
Nickel	Tonawanda Creek				1E-10	
Nickel	Murder Creek				1E-10	
Arsenic	Ellicott Creek	6E-12	4E-13	4E-12	2E-10	1E-11
Arsenic	Tonawanda Creek	6E-12	4E-13	4E-12	2E-10	1E-11
Arsenic	Murder Creek	6E-12	5E-13	4E-12	2E-10	1E-11
Beryllium	Ellicott Creek				2E-11	
Beryllium	Tonawanda Creek				2E-11	
Beryllium	Murder Creek				2E-11	
Cadmium	Ellicott Creek				2E-10	
Cadmium	Tonawanda Creek				2E-10	
Cadmium	Murder Creek				2E-10	
Chromium VI	Ellicott Creek				4E-09	
Chromium VI	Tonawanda Creek				4E-09	
Chromium VI	Murder Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Ellicott Creek	1E-08	0E+00	3E-09	8E-05	1E-08
Manganese	Tonawanda Creek	1E-08	0E+00	3E-09	8E-05	1E-08
Manganese	Murder Creek	1E-08	0E+00	3E-09	8E-05	1E-08
Mercury (elemental)	Ellicott Creek				1E-05	
Mercury (elemental)	Tonawanda Creek				1E-05	
Mercury (elemental)	Murder Creek				1E-05	
Mercury (divalent)	Ellicott Creek	4E-05		2E-07		4E-05
Mercury (divalent)	Tonawanda Creek	4E-05		2E-07		4E-05
Mercury (divalent)	Murder Creek	4E-05		2E-07		4E-05
Nickel	Ellicott Creek	2E-08	4E-10	2E-08		3E-08
Nickel	Tonawanda Creek	2E-08	4E-10	2E-08		3E-08
Nickel	Murder Creek	2E-08	5E-10	2E-08		3E-08
Silver	Ellicott Creek	5E-11	0E+00	2E-09		2E-09
Silver	Tonawanda Creek	5E-11	0E+00	2E-09		2E-09
Silver	Murder Creek	5E-11	0E+00	2E-09		2E-09
Thallium	Ellicott Creek	9E-08	5E-08	2E-08		2E-07
Thallium	Tonawanda Creek	9E-08	5E-08	2E-08		2E-07
Thallium	Murder Creek	9E-08	6E-08	2E-08		2E-07
Antimony	Ellicott Creek	2E-08	0E+00	2E-07		2E-07
Antimony	Tonawanda Creek	2E-08	0E+00	2E-07		2E-07
Antimony	Murder Creek	2E-08	0E+00	2E-07		2E-07
Arsenic	Ellicott Creek	1E-07	1E-08	1E-07		3E-07
Arsenic	Tonawanda Creek	1E-07	9E-09	1E-07		3E-07
Arsenic	Murder Creek	1E-07	1E-08	1E-07		3E-07
Barium	Ellicott Creek	2E-08	0E+00	2E-10	8E-07	2E-08
Barium	Tonawanda Creek	2E-08	0E+00	2E-10	8E-07	2E-08
Barium	Murder Creek	2E-08	0E+00	2E-10	8E-07	2E-08
Beryllium	Ellicott Creek	1E-07	7E-10	1E-09		1E-07
Beryllium	Tonawanda Creek	1E-07	6E-10	1E-09		1E-07
Beryllium	Murder Creek	1E-07	9E-10	1E-09		1E-07

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ellicott Creek	5E-07	5E-07	2E-07		1E-06
Cadmium	Tonawanda Creek	5E-07	4E-07	2E-07		1E-06
Cadmium	Murder Creek	5E-07	6E-07	2E-07		1E-06
Chromium VI	Ellicott Creek	4E-08	8E-10	4E-08		9E-08
Chromium VI	Tonawanda Creek	4E-08	7E-10	4E-08		9E-08
Chromium VI	Murder Creek	4E-08	1E-09	4E-08		9E-08
Chromium III	Ellicott Creek	6E-08	9E-12	7E-12		6E-08
Chromium III	Tonawanda Creek	6E-08	7E-12	7E-12		6E-08
Chromium III	Murder Creek	6E-08	6E-12	7E-12		6E-08
Cobalt	Ellicott Creek	3E-09	0E+00	7E-12		3E-09
Cobalt	Tonawanda Creek	3E-09	0E+00	7E-12		3E-09
Cobalt	Murder Creek	3E-09	0E+00	7E-12		3E-09
Hydrogen Chloride	Ellicott Creek				5E-05	
Hydrogen Chloride	Tonawanda Creek				5E-05	
Hydrogen Chloride	Murder Creek				5E-05	
Selenium	Ellicott Creek	4E-10	5E-08	1E-09		5E-08
Selenium	Tonawanda Creek	4E-10	5E-08	1E-09		5E-08
Selenium	Murder Creek	4E-10	7E-08	1E-09		7E-08
Chlorine	Ellicott Creek				2E-05	
Chlorine	Tonawanda Creek				2E-05	
Chlorine	Murder Creek				2E-05	
Methylmercury - Developmental Effects	Ellicott Creek	2E-06	4E-04	3E-09		4E-04
Methylmercury - Developmental Effects	Tonawanda Creek	2E-06	3E-04	3E-09		3E-04
Methylmercury - Developmental Effects	Murder Creek	2E-06	4E-04	3E-09		4E-04
Methylmercury - Neurological Effects	Ellicott Creek	8E-07	1E-04	1E-09		1E-04
Methylmercury - Neurological Effects	Tonawanda Creek	8E-07	1E-04	1E-09		1E-04
Methylmercury - Neurological Effects	Murder Creek	8E-07	1E-04	1E-09		1E-04

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ellicott Creek	1E-10	6E-09	1E-12	2E-10	6E-09
2,3,7,8-TCDD-TEQ	Tonawanda Creek	1E-10	4E-09	1E-12	2E-10	4E-09
2,3,7,8-TCDD-TEQ	Murder Creek	1E-10	5E-09	1E-12	2E-10	5E-09
Nickel	Ellicott Creek				1E-10	
Nickel	Tonawanda Creek				1E-10	
Nickel	Murder Creek				1E-10	
Arsenic	Ellicott Creek	2E-12	6E-13	3E-12	2E-10	6E-12
Arsenic	Tonawanda Creek	2E-12	5E-13	3E-12	2E-10	6E-12
Arsenic	Murder Creek	2E-12	7E-13	3E-12	2E-10	6E-12
Beryllium	Ellicott Creek				3E-11	
Beryllium	Tonawanda Creek				3E-11	
Beryllium	Murder Creek				3E-11	
Cadmium	Ellicott Creek				2E-10	
Cadmium	Tonawanda Creek				2E-10	
Cadmium	Murder Creek				2E-10	
Chromium VI	Ellicott Creek				4E-09	
Chromium VI	Tonawanda Creek				4E-09	
Chromium VI	Murder Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Ellicott Creek	3E-09	0E+00	2E-09	8E-05	4E-09
Manganese	Tonawanda Creek	3E-09	0E+00	2E-09	8E-05	4E-09
Manganese	Murder Creek	3E-09	0E+00	2E-09	8E-05	4E-09
Mercury (elemental)	Ellicott Creek				1E-05	
Mercury (elemental)	Tonawanda Creek				1E-05	
Mercury (elemental)	Murder Creek				1E-05	
Mercury (divalent)	Ellicott Creek	1E-05		9E-08		1E-05
Mercury (divalent)	Tonawanda Creek	1E-05		9E-08		1E-05
Mercury (divalent)	Murder Creek	1E-05		9E-08		1E-05
Nickel	Ellicott Creek	5E-09	4E-10	9E-09		1E-08
Nickel	Tonawanda Creek	5E-09	4E-10	9E-09		1E-08
Nickel	Murder Creek	5E-09	5E-10	9E-09		1E-08
Silver	Ellicott Creek	1E-11	0E+00	1E-09		1E-09
Silver	Tonawanda Creek	1E-11	0E+00	1E-09		1E-09
Silver	Murder Creek	1E-11	0E+00	1E-09		1E-09
Thallium	Ellicott Creek	2E-08	5E-08	1E-08		9E-08
Thallium	Tonawanda Creek	2E-08	5E-08	1E-08		8E-08
Thallium	Murder Creek	2E-08	6E-08	1E-08		1E-07
Antimony	Ellicott Creek	6E-09	0E+00	1E-07		1E-07
Antimony	Tonawanda Creek	6E-09	0E+00	1E-07		1E-07
Antimony	Murder Creek	6E-09	0E+00	1E-07		1E-07
Arsenic	Ellicott Creek	4E-08	1E-08	6E-08		1E-07
Arsenic	Tonawanda Creek	4E-08	9E-09	6E-08		1E-07
Arsenic	Murder Creek	4E-08	1E-08	6E-08		1E-07
Barium	Ellicott Creek	4E-09	0E+00	8E-11	8E-07	4E-09
Barium	Tonawanda Creek	4E-09	0E+00	8E-11	8E-07	4E-09
Barium	Murder Creek	4E-09	0E+00	8E-11	8E-07	4E-09
Beryllium	Ellicott Creek	3E-08	7E-10	6E-10		3E-08
Beryllium	Tonawanda Creek	3E-08	6E-10	6E-10		3E-08
Beryllium	Murder Creek	3E-08	9E-10	6E-10		3E-08

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ellicott Creek	1E-07	5E-07	9E-08		7E-07
Cadmium	Tonawanda Creek	1E-07	4E-07	9E-08		6E-07
Cadmium	Murder Creek	1E-07	6E-07	9E-08		8E-07
Chromium VI	Ellicott Creek	1E-08	8E-10	2E-08		4E-08
Chromium VI	Tonawanda Creek	1E-08	7E-10	2E-08		4E-08
Chromium VI	Murder Creek	1E-08	1E-09	2E-08		4E-08
Chromium III	Ellicott Creek	2E-08	9E-12	4E-12		2E-08
Chromium III	Tonawanda Creek	2E-08	7E-12	4E-12		2E-08
Chromium III	Murder Creek	2E-08	6E-12	4E-12		2E-08
Cobalt	Ellicott Creek	7E-10	0E+00	4E-12		7E-10
Cobalt	Tonawanda Creek	7E-10	0E+00	4E-12		7E-10
Cobalt	Murder Creek	7E-10	0E+00	4E-12		7E-10
Hydrogen Chloride	Ellicott Creek				5E-05	
Hydrogen Chloride	Tonawanda Creek				5E-05	
Hydrogen Chloride	Murder Creek				5E-05	
Selenium	Ellicott Creek	1E-10	5E-08	8E-10		5E-08
Selenium	Tonawanda Creek	1E-10	5E-08	8E-10		5E-08
Selenium	Murder Creek	1E-10	7E-08	8E-10		7E-08
Chlorine	Ellicott Creek				2E-05	
Chlorine	Tonawanda Creek				2E-05	
Chlorine	Murder Creek				2E-05	
Methylmercury - Developmental Effects	Ellicott Creek	6E-07	4E-04	2E-09		4E-04
Methylmercury - Developmental Effects	Tonawanda Creek	6E-07	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Murder Creek	6E-07	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	Ellicott Creek	2E-07	1E-04	6E-10		1E-04
Methylmercury - Neurological Effects	Tonawanda Creek	2E-07	1E-04	6E-10		1E-04
Methylmercury - Neurological Effects	Murder Creek	2E-07	1E-04	6E-10		1E-04

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ellicott Creek	7E-11	4E-09	1E-12	1E-10	4E-09
2,3,7,8-TCDD-TEQ	Tonawanda Creek	7E-11	3E-09	1E-12	1E-10	3E-09
2,3,7,8-TCDD-TEQ	Murder Creek	7E-11	4E-09	1E-12	1E-10	4E-09
Nickel	Ellicott Creek				8E-11	
Nickel	Tonawanda Creek				8E-11	
Nickel	Murder Creek				8E-11	
Arsenic	Ellicott Creek	1E-12	4E-13	2E-12	1E-10	4E-12
Arsenic	Tonawanda Creek	1E-12	4E-13	2E-12	1E-10	4E-12
Arsenic	Murder Creek	1E-12	5E-13	2E-12	1E-10	4E-12
Beryllium	Ellicott Creek				2E-11	
Beryllium	Tonawanda Creek				2E-11	
Beryllium	Murder Creek				2E-11	
Cadmium	Ellicott Creek				2E-10	
Cadmium	Tonawanda Creek				2E-10	
Cadmium	Murder Creek				2E-10	
Chromium VI	Ellicott Creek				3E-09	
Chromium VI	Tonawanda Creek				3E-09	
Chromium VI	Murder Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Ellicott Creek	1E-09	0E+00	1E-09	8E-05	3E-09
Manganese	Tonawanda Creek	1E-09	0E+00	1E-09	8E-05	3E-09
Manganese	Murder Creek	1E-09	0E+00	1E-09	8E-05	3E-09
Mercury (elemental)	Ellicott Creek				1E-05	
Mercury (elemental)	Tonawanda Creek				1E-05	
Mercury (elemental)	Murder Creek				1E-05	
Mercury (divalent)	Ellicott Creek	5E-06		6E-08		5E-06
Mercury (divalent)	Tonawanda Creek	5E-06		6E-08		5E-06
Mercury (divalent)	Murder Creek	5E-06		6E-08		5E-06
Nickel	Ellicott Creek	2E-09	3E-10	6E-09		9E-09
Nickel	Tonawanda Creek	2E-09	3E-10	6E-09		9E-09
Nickel	Murder Creek	2E-09	4E-10	6E-09		9E-09
Silver	Ellicott Creek	7E-12	0E+00	6E-10		6E-10
Silver	Tonawanda Creek	7E-12	0E+00	6E-10		6E-10
Silver	Murder Creek	7E-12	0E+00	6E-10		6E-10
Thallium	Ellicott Creek	1E-08	4E-08	9E-09		6E-08
Thallium	Tonawanda Creek	1E-08	3E-08	9E-09		5E-08
Thallium	Murder Creek	1E-08	5E-08	9E-09		7E-08
Antimony	Ellicott Creek	3E-09	0E+00	7E-08		7E-08
Antimony	Tonawanda Creek	3E-09	0E+00	7E-08		7E-08
Antimony	Murder Creek	3E-09	0E+00	7E-08		7E-08
Arsenic	Ellicott Creek	2E-08	7E-09	4E-08		6E-08
Arsenic	Tonawanda Creek	2E-08	7E-09	4E-08		6E-08
Arsenic	Murder Creek	2E-08	9E-09	4E-08		7E-08
Barium	Ellicott Creek	2E-09	0E+00	5E-11	8E-07	2E-09
Barium	Tonawanda Creek	2E-09	0E+00	5E-11	8E-07	2E-09
Barium	Murder Creek	2E-09	0E+00	5E-11	8E-07	2E-09
Beryllium	Ellicott Creek	1E-08	5E-10	4E-10		1E-08
Beryllium	Tonawanda Creek	1E-08	4E-10	4E-10		1E-08
Beryllium	Murder Creek	1E-08	6E-10	4E-10		2E-08

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ellicott Creek	7E-08	3E-07	6E-08		5E-07
Cadmium	Tonawanda Creek	7E-08	3E-07	6E-08		4E-07
Cadmium	Murder Creek	7E-08	4E-07	6E-08		6E-07
Chromium VI	Ellicott Creek	6E-09	6E-10	2E-08		2E-08
Chromium VI	Tonawanda Creek	6E-09	5E-10	2E-08		2E-08
Chromium VI	Murder Creek	6E-09	7E-10	2E-08		2E-08
Chromium III	Ellicott Creek	8E-09	7E-12	3E-12		8E-09
Chromium III	Tonawanda Creek	8E-09	5E-12	3E-12		8E-09
Chromium III	Murder Creek	8E-09	5E-12	3E-12		8E-09
Cobalt	Ellicott Creek	4E-10	0E+00	4E-10		8E-10
Cobalt	Tonawanda Creek	4E-10	0E+00	4E-10		8E-10
Cobalt	Murder Creek	4E-10	0E+00	4E-10		8E-10
Hydrogen Chloride	Ellicott Creek				5E-05	
Hydrogen Chloride	Tonawanda Creek				5E-05	
Hydrogen Chloride	Murder Creek				5E-05	
Selenium	Ellicott Creek	5E-11	4E-08	5E-10		4E-08
Selenium	Tonawanda Creek	5E-11	3E-08	5E-10		3E-08
Selenium	Murder Creek	5E-11	5E-08	5E-10		5E-08
Chlorine	Ellicott Creek				2E-05	
Chlorine	Tonawanda Creek				2E-05	
Chlorine	Murder Creek				2E-05	
Methylmercury - Developmental Effects	Ellicott Creek	3E-07	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Tonawanda Creek	3E-07	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Murder Creek	3E-07	3E-04	1E-09		3E-04
Methylmercury - Neurological Effects	Ellicott Creek	1E-07	1E-04	4E-10		1E-04
Methylmercury - Neurological Effects	Tonawanda Creek	1E-07	7E-05	4E-10		7E-05
Methylmercury - Neurological Effects	Murder Creek	1E-07	9E-05	4E-10		9E-05

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ellicott Creek	5E-11	8E-09	2E-12	2E-10	8E-09
2,3,7,8-TCDD-TEQ	Tonawanda Creek	5E-11	6E-09	2E-12	2E-10	6E-09
2,3,7,8-TCDD-TEQ	Murder Creek	5E-11	7E-09	2E-12	2E-10	7E-09
Nickel	Ellicott Creek				1E-10	
Nickel	Tonawanda Creek				1E-10	
Nickel	Murder Creek				1E-10	
Arsenic	Ellicott Creek	9E-13	8E-13	4E-12	2E-10	6E-12
Arsenic	Tonawanda Creek	9E-13	7E-13	4E-12	2E-10	6E-12
Arsenic	Murder Creek	9E-13	1E-12	4E-12	2E-10	6E-12
Beryllium	Ellicott Creek				3E-11	
Beryllium	Tonawanda Creek				3E-11	
Beryllium	Murder Creek				3E-11	
Cadmium	Ellicott Creek				2E-10	
Cadmium	Tonawanda Creek				2E-10	
Cadmium	Murder Creek				2E-10	
Chromium VI	Ellicott Creek				4E-09	
Chromium VI	Tonawanda Creek				4E-09	
Chromium VI	Murder Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Ellicott Creek	6E-10	0E+00	1E-09	8E-05	2E-09
Manganese	Tonawanda Creek	6E-10	0E+00	1E-09	8E-05	2E-09
Manganese	Murder Creek	6E-10	0E+00	1E-09	8E-05	2E-09
Mercury (elemental)	Ellicott Creek				1E-05	
Mercury (elemental)	Tonawanda Creek				1E-05	
Mercury (elemental)	Murder Creek				1E-05	
Mercury (divalent)	Ellicott Creek	2E-06		7E-08		2E-06
Mercury (divalent)	Tonawanda Creek	2E-06		7E-08		2E-06
Mercury (divalent)	Murder Creek	2E-06		7E-08		2E-06
Nickel	Ellicott Creek	1E-09	3E-10	7E-09		8E-09
Nickel	Tonawanda Creek	1E-09	3E-10	7E-09		8E-09
Nickel	Murder Creek	1E-09	4E-10	7E-09		8E-09
Silver	Ellicott Creek	3E-12	0E+00	7E-10		8E-10
Silver	Tonawanda Creek	3E-12	0E+00	7E-10		8E-10
Silver	Murder Creek	3E-12	0E+00	7E-10		8E-10
Thallium	Ellicott Creek	5E-09	4E-08	1E-08		5E-08
Thallium	Tonawanda Creek	5E-09	3E-08	1E-08		5E-08
Thallium	Murder Creek	5E-09	5E-08	1E-08		6E-08
Antimony	Ellicott Creek	1E-09	0E+00	8E-08		8E-08
Antimony	Tonawanda Creek	1E-09	0E+00	8E-08		8E-08
Antimony	Murder Creek	1E-09	0E+00	8E-08		8E-08
Arsenic	Ellicott Creek	8E-09	7E-09	4E-08		6E-08
Arsenic	Tonawanda Creek	8E-09	7E-09	4E-08		6E-08
Arsenic	Murder Creek	8E-09	9E-09	4E-08		6E-08
Barium	Ellicott Creek	9E-10	0E+00	6E-11	8E-07	1E-09
Barium	Tonawanda Creek	9E-10	0E+00	6E-11	8E-07	1E-09
Barium	Murder Creek	9E-10	0E+00	6E-11	8E-07	1E-09
Beryllium	Ellicott Creek	6E-09	5E-10	5E-10		7E-09
Beryllium	Tonawanda Creek	6E-09	4E-10	5E-10		7E-09
Beryllium	Murder Creek	6E-09	6E-10	5E-10		7E-09

Table IX-A18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A15) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ellicott Creek	3E-08	3E-07	7E-08		4E-07
Cadmium	Tonawanda Creek	3E-08	3E-07	7E-08		4E-07
Cadmium	Murder Creek	3E-08	4E-07	7E-08		5E-07
Chromium VI	Ellicott Creek	2E-09	6E-10	2E-08		2E-08
Chromium VI	Tonawanda Creek	2E-09	5E-10	2E-08		2E-08
Chromium VI	Murder Creek	2E-09	7E-10	2E-08		2E-08
Chromium III	Ellicott Creek	3E-09	7E-12	3E-12		3E-09
Chromium III	Tonawanda Creek	3E-09	5E-12	3E-12		3E-09
Chromium III	Murder Creek	3E-09	5E-12	3E-12		3E-09
Cobalt	Ellicott Creek	2E-10	0E+00	5E-10		7E-10
Cobalt	Tonawanda Creek	2E-10	0E+00	5E-10		7E-10
Cobalt	Murder Creek	2E-10	0E+00	5E-10		7E-10
Hydrogen Chloride	Ellicott Creek				5E-05	
Hydrogen Chloride	Tonawanda Creek				5E-05	
Hydrogen Chloride	Murder Creek				5E-05	
Selenium	Ellicott Creek	2E-11	4E-08	6E-10		4E-08
Selenium	Tonawanda Creek	2E-11	3E-08	6E-10		3E-08
Selenium	Murder Creek	2E-11	5E-08	6E-10		5E-08
Chlorine	Ellicott Creek				2E-05	
Chlorine	Tonawanda Creek				2E-05	
Chlorine	Murder Creek				2E-05	
Methylmercury - Developmental Effects	Ellicott Creek	1E-07	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Tonawanda Creek	1E-07	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Murder Creek	1E-07	3E-04	1E-09		3E-04
Methylmercury - Neurological Effects	Ellicott Creek	4E-08	1E-04	4E-10		1E-04
Methylmercury - Neurological Effects	Tonawanda Creek	4E-08	7E-05	4E-10		7E-05
Methylmercury - Neurological Effects	Murder Creek	4E-08	9E-05	4E-10		9E-05

Table IX-A19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	3E-11	2E-11	7E-11	2E-08	2E-07	1E-09	7E-09	4E-09	5E-09	2E-12	2E-10	2E-07
Nickel												1E-10	
Arsenic	7E-11	3E-11	1E-11	7E-11	2E-10	3E-10	1E-11			4E-10	3E-10	3E-09	1E-09
Beryllium												1E-11	
Cadmium												9E-10	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	2E-07	7E-07	1E-07	5E-06	8E-09			0E+00	5E-07	2E-03	7E-06
Mercury (elemental)												7E-04	
Mercury (divalent)	NA	2E-03	1E-05	4E-03	2E-03	2E-02	9E-07						3E-02
Nickel	2E-08	1E-08	4E-09	2E-08	2E-07	2E-06	1E-08			4E-08	1E-07		3E-06
Silver	3E-09	5E-08	1E-08	1E-07	9E-07	3E-04	3E-08			0E+00	9E-07		3E-04
Thallium	1E-05	1E-06	8E-08	3E-06	4E-04	1E-03	4E-05			5E-04	3E-05		2E-03
Antimony	9E-06	4E-05	9E-06	9E-05	1E-04	9E-04	6E-06			0E+00	6E-04		2E-03
Arsenic	2E-06	8E-07	3E-07	2E-06	5E-06	8E-06	3E-07			1E-05	9E-06		4E-05
Barium	2E-07	2E-08	4E-09	3E-08	8E-09	1E-06	1E-09			0E+00	4E-09	7E-06	1E-06
Beryllium	5E-08	7E-10	1E-10	2E-09	8E-09	3E-10	3E-09			2E-09	2E-09		7E-08
Cadmium	2E-06	2E-06	1E-06	4E-06	2E-07	6E-07	3E-08			9E-05	4E-06		1E-04
Chromium VI	6E-09	2E-09	8E-10	6E-09	8E-08	1E-06	5E-09			1E-08	5E-08		2E-06
Chromium III	2E-08	2E-10	2E-10	6E-10	2E-08	2E-07	5E-09			1E-12	2E-12		2E-07
Cobalt	6E-08	2E-08	8E-11	4E-08	1E-06	8E-06	1E-07			0E+00	2E-07		9E-06
Hydrogen Chloride												3E-05	
Selenium	3E-07	3E-07	2E-07	8E-07	6E-06	5E-04	2E-05			5E-03	8E-06		5E-03
Chlorine												5E-04	
Methylmercury - Developmental Effects	6E-06	6E-04	1E-06	6E-04	1E-03	2E-02	2E-07			3E-03			2E-02
Methylmercury - Neurological Effects	2E-06	2E-04	5E-07	2E-04	4E-04	6E-03	8E-08			9E-04			8E-03

Table IX-A19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	3E-11	2E-11	9E-11	3E-08	1E-07	1E-09	7E-09	5E-09	5E-09	1E-12	2E-10	2E-07
Nickel												2E-10	
Arsenic	2E-11	2E-11	1E-11	9E-11	3E-10	2E-10	1E-11			5E-10	3E-10	3E-09	1E-09
Beryllium												1E-11	
Cadmium												1E-09	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	6E-07	1E-07	3E-06	5E-09			0E+00	3E-07	2E-03	4E-06
Mercury (elemental)												7E-04	
Mercury (divalent)	NA	1E-03	7E-06	4E-03	2E-03	1E-02	5E-07						2E-02
Nickel	4E-09	6E-09	3E-09	2E-08	3E-07	1E-06	8E-09			3E-08	7E-08		2E-06
Silver	9E-10	3E-08	8E-09	1E-07	1E-06	2E-04	2E-08			0E+00	5E-07		2E-04
Thallium	3E-06	7E-07	5E-08	3E-06	4E-04	5E-04	2E-05			4E-04	2E-05		1E-03
Antimony	2E-06	2E-05	6E-06	9E-05	2E-04	4E-04	4E-06			0E+00	4E-04		1E-03
Arsenic	4E-07	4E-07	2E-07	2E-06	5E-06	4E-06	2E-07			8E-06	5E-06		3E-05
Barium	4E-08	9E-09	3E-09	3E-08	1E-08	5E-07	7E-10			0E+00	2E-09	7E-06	6E-07
Beryllium	1E-08	4E-10	1E-10	2E-09	9E-09	2E-10	2E-09			1E-09	1E-09		3E-08
Cadmium	4E-07	1E-06	7E-07	4E-06	2E-07	3E-07	2E-08			6E-05	2E-06		7E-05
Chromium VI	2E-09	1E-09	6E-10	6E-09	1E-07	7E-07	3E-09			9E-09	3E-08		8E-07
Chromium III	5E-09	1E-10	1E-10	5E-10	2E-08	9E-08	3E-09			8E-13	1E-12		1E-07
Cobalt	2E-08	9E-09	6E-11	4E-08	2E-06	4E-06	6E-08			0E+00	1E-07		6E-06
Hydrogen Chloride												3E-05	
Selenium	8E-08	2E-07	1E-07	8E-07	7E-06	3E-04	1E-05			3E-03	5E-06		4E-03
Chlorine												5E-04	
Methylmercury - Developmental Effects	1E-06	3E-04	1E-06	6E-04	2E-03	1E-02	1E-07			2E-03			1E-02
Methylmercury - Neurological Effects	5E-07	1E-04	3E-07	2E-04	5E-04	3E-03	5E-08			6E-04			5E-03

Table IX-A19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-11	2E-11	2E-11	5E-11	1E-08	6E-08	8E-10	4E-09	2E-09	3E-09	8E-13	1E-10	8E-08
Nickel												1E-10	
Arsenic	1E-11	2E-11	9E-12	5E-11	1E-10	1E-10	7E-12			2E-10	2E-10	2E-09	8E-10
Beryllium												9E-12	
Cadmium												7E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	9E-08	3E-07	5E-08	1E-06	3E-09			0E+00	2E-07	2E-03	2E-06
Mercury (elemental)												7E-04	
Mercury (divalent)	1E-05	8E-04	5E-06	2E-03	9E-04	5E-03	3E-07			0E+00			9E-03
Nickel	2E-09	4E-09	2E-09	1E-08	1E-07	5E-07	5E-09			1E-08	4E-08		8E-07
Silver	5E-10	2E-08	6E-09	7E-08	5E-07	8E-05	1E-08			0E+00	3E-07		8E-05
Thallium	2E-06	5E-07	4E-08	2E-06	2E-04	2E-04	1E-05			2E-04	1E-05		7E-04
Antimony	1E-06	2E-05	4E-06	5E-05	8E-05	2E-04	2E-06			0E+00	2E-04		6E-04
Arsenic	2E-07	3E-07	2E-07	9E-07	2E-06	2E-06	1E-07			4E-06	3E-06		1E-05
Barium	2E-08	7E-09	2E-09	2E-08	4E-09	2E-07	5E-10			0E+00	2E-09	7E-06	3E-07
Beryllium	7E-09	3E-10	7E-11	9E-10	4E-09	7E-11	1E-09			8E-10	8E-10		2E-08
Cadmium	2E-07	9E-07	5E-07	2E-06	9E-08	1E-07	1E-08			3E-05	1E-06		4E-05
Chromium VI	9E-10	1E-09	4E-10	3E-09	5E-08	3E-07	2E-09			5E-09	2E-08		4E-07
Chromium III	3E-09	9E-11	8E-11	3E-10	8E-09	4E-08	2E-09			4E-13	7E-13		6E-08
Cobalt	8E-09	7E-09	4E-11	2E-08	7E-07	2E-06	4E-08			0E+00	7E-08		3E-06
Hydrogen Chloride												3E-05	
Selenium	4E-08	1E-07	1E-07	4E-07	3E-06	1E-04	8E-06			2E-03	3E-06		2E-03
Chlorine												5E-04	
Methylmercury - Developmental Effects	8E-07	3E-04	7E-07	3E-04	7E-04	4E-03	9E-08			1E-03			7E-03
Methylmercury - Neurological Effects	3E-07	9E-05	2E-07	1E-04	2E-04	1E-03	3E-08			3E-04			2E-03

Table IX-A19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-11	5E-11	3E-11	9E-11	3E-08	5E-08	1E-09	7E-09	4E-09	6E-09	2E-12	2E-10	9E-08
Nickel												1E-10	
Arsenic	1E-11	4E-11	2E-11	8E-11	3E-10	8E-11	1E-11			5E-10	4E-10	3E-09	1E-09
Beryllium												1E-11	
Cadmium												1E-09	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	1E-07	3E-07	6E-08	5E-07	3E-09			0E+00	2E-07	2E-03	1E-06
Mercury (elemental)												7E-04	
Mercury (divalent)	5E-06	1E-03	6E-06	2E-03	1E-03	2E-03	3E-07			0E+00			6E-03
Nickel	1E-09	6E-09	2E-09	1E-08	1E-07	2E-07	4E-09			2E-08	5E-08		5E-07
Silver	2E-10	3E-08	6E-09	6E-08	5E-07	3E-05	1E-08			0E+00	4E-07		4E-05
Thallium	7E-07	7E-07	4E-08	2E-06	2E-04	1E-04	1E-05			2E-04	1E-05		6E-04
Antimony	5E-07	2E-05	5E-06	4E-05	9E-05	9E-05	2E-06			0E+00	3E-04		5E-04
Arsenic	9E-08	5E-07	2E-07	8E-07	3E-06	8E-07	1E-07			5E-06	4E-06		1E-05
Barium	9E-09	1E-08	2E-09	2E-08	5E-09	1E-07	4E-10			0E+00	2E-09	7E-06	1E-07
Beryllium	3E-09	4E-10	8E-11	8E-10	5E-09	3E-11	9E-10			9E-10	9E-10		1E-08
Cadmium	9E-08	1E-06	6E-07	2E-06	1E-07	6E-08	1E-08			4E-05	2E-06		4E-05
Chromium VI	4E-10	1E-09	5E-10	3E-09	5E-08	1E-07	2E-09			5E-09	2E-08		2E-07
Chromium III	1E-09	1E-10	9E-11	3E-10	9E-09	2E-08	2E-09			5E-13	9E-13		3E-08
Cobalt	3E-09	9E-09	5E-11	2E-08	8E-07	8E-07	3E-08			0E+00	8E-08		2E-06
Hydrogen Chloride												3E-05	
Selenium	2E-08	2E-07	1E-07	4E-07	4E-06	5E-05	7E-06			2E-03	4E-06		2E-03
Chlorine												5E-04	
Methylmercury - Developmental Effects	3E-07	4E-04	8E-07	3E-04	8E-04	2E-03	8E-08			1E-03			4E-03
Methylmercury - Neurological Effects	1E-07	1E-04	3E-07	1E-04	3E-04	6E-04	3E-08			4E-04			1E-03

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Taylor Bayou	3E-10	3E-09	6E-12	2E-10	3E-09
2,3,7,8-TCDD-TEQ	Hillebrandt Bayou	3E-10	6E-09	6E-12	2E-10	6E-09
2,3,7,8-TCDD-TEQ	Viterbo Reservoir	3E-10	1E-08	6E-12	2E-10	1E-08
Nickel	Taylor Bayou				1E-10	
Nickel	Hillebrandt Bayou				1E-10	
Nickel	Viterbo Reservoir				1E-10	
Arsenic	Taylor Bayou	7E-11	4E-11	1E-09	3E-09	1E-09
Arsenic	Hillebrandt Bayou	7E-11	1E-10	1E-09	3E-09	1E-09
Arsenic	Viterbo Reservoir	7E-11	9E-11	1E-09	3E-09	1E-09
Beryllium	Taylor Bayou				1E-11	
Beryllium	Hillebrandt Bayou				1E-11	
Beryllium	Viterbo Reservoir				1E-11	
Cadmium	Taylor Bayou				9E-10	
Cadmium	Hillebrandt Bayou				9E-10	
Cadmium	Viterbo Reservoir				9E-10	
Chromium VI	Taylor Bayou				7E-10	
Chromium VI	Hillebrandt Bayou				7E-10	
Chromium VI	Viterbo Reservoir				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Taylor Bayou	2E-07	0E+00	2E-06	2E-03	2E-06
Manganese	Hillebrandt Bayou	2E-07	0E+00	2E-06	2E-03	2E-06
Manganese	Viterbo Reservoir	2E-07	0E+00	2E-06	2E-03	2E-06
Mercury (elemental)	Taylor Bayou				7E-04	
Mercury (elemental)	Hillebrandt Bayou				7E-04	
Mercury (elemental)	Viterbo Reservoir				7E-04	
Mercury (divalent)	Taylor Bayou	9E-05		0E+00		9E-05
Mercury (divalent)	Hillebrandt Bayou	9E-05		0E+00		9E-05
Mercury (divalent)	Viterbo Reservoir	9E-05		0E+00		9E-05
Nickel	Taylor Bayou	2E-08	3E-09	4E-07		4E-07
Nickel	Hillebrandt Bayou	2E-08	1E-08	4E-07		4E-07
Nickel	Viterbo Reservoir	2E-08	7E-09	4E-07		4E-07
Silver	Taylor Bayou	3E-09	0E+00	3E-06		3E-06
Silver	Hillebrandt Bayou	3E-09	0E+00	3E-06		3E-06
Silver	Viterbo Reservoir	3E-09	0E+00	3E-06		3E-06
Thallium	Taylor Bayou	1E-05	5E-05	9E-05		2E-04
Thallium	Hillebrandt Bayou	1E-05	2E-04	9E-05		3E-04
Thallium	Viterbo Reservoir	1E-05	1E-04	9E-05		2E-04
Antimony	Taylor Bayou	9E-06	0E+00	2E-03		2E-03
Antimony	Hillebrandt Bayou	9E-06	0E+00	2E-03		2E-03
Antimony	Viterbo Reservoir	9E-06	0E+00	2E-03		2E-03
Arsenic	Taylor Bayou	2E-06	9E-07	3E-05		3E-05
Arsenic	Hillebrandt Bayou	2E-06	3E-06	3E-05		3E-05
Arsenic	Viterbo Reservoir	2E-06	2E-06	3E-05		3E-05
Barium	Taylor Bayou	2E-07	0E+00	2E-08	7E-06	2E-07
Barium	Hillebrandt Bayou	2E-07	0E+00	2E-08	7E-06	2E-07
Barium	Viterbo Reservoir	2E-07	0E+00	2E-08	7E-06	2E-07
Beryllium	Taylor Bayou	5E-08	2E-09	9E-09		6E-08
Beryllium	Hillebrandt Bayou	5E-08	4E-09	9E-09		7E-08
Beryllium	Viterbo Reservoir	5E-08	7E-09	9E-09		7E-08

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Taylor Bayou	2E-06	1E-05	1E-05		3E-05
Cadmium	Hillebrandt Bayou	2E-06	4E-05	1E-05		5E-05
Cadmium	Viterbo Reservoir	2E-06	3E-05	1E-05		4E-05
Chromium VI	Taylor Bayou	6E-09	9E-10	2E-07		2E-07
Chromium VI	Hillebrandt Bayou	6E-09	3E-09	2E-07		2E-07
Chromium VI	Viterbo Reservoir	6E-09	2E-09	2E-07		2E-07
Chromium III	Taylor Bayou	2E-08	9E-12	8E-12		2E-08
Chromium III	Hillebrandt Bayou	2E-08	1E-11	8E-12		2E-08
Chromium III	Viterbo Reservoir	2E-08	3E-11	8E-12		2E-08
Cobalt	Taylor Bayou	6E-08	0E+00	8E-12		6E-08
Cobalt	Hillebrandt Bayou	6E-08	0E+00	8E-12		6E-08
Cobalt	Viterbo Reservoir	6E-08	0E+00	8E-12		6E-08
Hydrogen Chloride	Taylor Bayou				3E-05	
Hydrogen Chloride	Hillebrandt Bayou				3E-05	
Hydrogen Chloride	Viterbo Reservoir				3E-05	
Selenium	Taylor Bayou	3E-07	3E-04	3E-05		3E-04
Selenium	Hillebrandt Bayou	3E-07	1E-03	3E-05		1E-03
Selenium	Viterbo Reservoir	3E-07	8E-04	3E-05		8E-04
Chlorine	Taylor Bayou				5E-04	
Chlorine	Hillebrandt Bayou				5E-04	
Chlorine	Viterbo Reservoir				5E-04	
Methylmercury - Developmental Effects	Taylor Bayou	6E-06	0E+00	0E+00		6E-06
Methylmercury - Developmental Effects	Hillebrandt Bayou	6E-06	0E+00	0E+00		6E-06
Methylmercury - Developmental Effects	Viterbo Reservoir	6E-06	0E+00	0E+00		6E-06
Methylmercury - Neurological Effects	Taylor Bayou	2E-06	0E+00	0E+00		2E-06
Methylmercury - Neurological Effects	Hillebrandt Bayou	2E-06	0E+00	0E+00		2E-06
Methylmercury - Neurological Effects	Viterbo Reservoir	2E-06	0E+00	0E+00		2E-06

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Taylor Bayou	1E-10	4E-09	4E-12	2E-10	4E-09
2,3,7,8-TCDD-TEQ	Hillebrandt Bayou	1E-10	8E-09	4E-12	2E-10	8E-09
2,3,7,8-TCDD-TEQ	Viterbo Reservoir	1E-10	2E-08	4E-12	2E-10	2E-08
Nickel	Taylor Bayou				2E-10	
Nickel	Hillebrandt Bayou				2E-10	
Nickel	Viterbo Reservoir				2E-10	
Arsenic	Taylor Bayou	2E-11	5E-11	9E-10	3E-09	1E-09
Arsenic	Hillebrandt Bayou	2E-11	2E-10	9E-10	3E-09	1E-09
Arsenic	Viterbo Reservoir	2E-11	1E-10	9E-10	3E-09	1E-09
Beryllium	Taylor Bayou				1E-11	
Beryllium	Hillebrandt Bayou				1E-11	
Beryllium	Viterbo Reservoir				1E-11	
Cadmium	Taylor Bayou				1E-09	
Cadmium	Hillebrandt Bayou				1E-09	
Cadmium	Viterbo Reservoir				1E-09	
Chromium VI	Taylor Bayou				8E-10	
Chromium VI	Hillebrandt Bayou				8E-10	
Chromium VI	Viterbo Reservoir				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Taylor Bayou	6E-08	0E+00	9E-07	2E-03	1E-06
Manganese	Hillebrandt Bayou	6E-08	0E+00	9E-07	2E-03	1E-06
Manganese	Viterbo Reservoir	6E-08	0E+00	9E-07	2E-03	1E-06
Mercury (elemental)	Taylor Bayou				7E-04	
Mercury (elemental)	Hillebrandt Bayou				7E-04	
Mercury (elemental)	Viterbo Reservoir				7E-04	
Mercury (divalent)	Taylor Bayou	2E-05		0E+00		2E-05
Mercury (divalent)	Hillebrandt Bayou	2E-05		0E+00		2E-05
Mercury (divalent)	Viterbo Reservoir	2E-05		0E+00		2E-05
Nickel	Taylor Bayou	4E-09	3E-09	2E-07		2E-07
Nickel	Hillebrandt Bayou	4E-09	1E-08	2E-07		2E-07
Nickel	Viterbo Reservoir	4E-09	7E-09	2E-07		2E-07
Silver	Taylor Bayou	9E-10	0E+00	2E-06		2E-06
Silver	Hillebrandt Bayou	9E-10	0E+00	2E-06		2E-06
Silver	Viterbo Reservoir	9E-10	0E+00	2E-06		2E-06
Thallium	Taylor Bayou	3E-06	5E-05	5E-05		1E-04
Thallium	Hillebrandt Bayou	3E-06	2E-04	5E-05		2E-04
Thallium	Viterbo Reservoir	3E-06	1E-04	5E-05		2E-04
Antimony	Taylor Bayou	2E-06	0E+00	1E-03		1E-03
Antimony	Hillebrandt Bayou	2E-06	0E+00	1E-03		1E-03
Antimony	Viterbo Reservoir	2E-06	0E+00	1E-03		1E-03
Arsenic	Taylor Bayou	4E-07	9E-07	2E-05		2E-05
Arsenic	Hillebrandt Bayou	4E-07	3E-06	2E-05		2E-05
Arsenic	Viterbo Reservoir	4E-07	2E-06	2E-05		2E-05
Barium	Taylor Bayou	4E-08	0E+00	1E-08	7E-06	5E-08
Barium	Hillebrandt Bayou	4E-08	0E+00	1E-08	7E-06	5E-08
Barium	Viterbo Reservoir	4E-08	0E+00	1E-08	7E-06	5E-08
Beryllium	Taylor Bayou	1E-08	2E-09	5E-09		2E-08
Beryllium	Hillebrandt Bayou	1E-08	4E-09	5E-09		2E-08
Beryllium	Viterbo Reservoir	1E-08	7E-09	5E-09		3E-08

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Taylor Bayou	4E-07	1E-05	8E-06		2E-05
Cadmium	Hillebrandt Bayou	4E-07	4E-05	8E-06		5E-05
Cadmium	Viterbo Reservoir	4E-07	3E-05	8E-06		4E-05
Chromium VI	Taylor Bayou	2E-09	9E-10	9E-08		9E-08
Chromium VI	Hillebrandt Bayou	2E-09	3E-09	9E-08		1E-07
Chromium VI	Viterbo Reservoir	2E-09	2E-09	9E-08		1E-07
Chromium III	Taylor Bayou	5E-09	9E-12	4E-12		5E-09
Chromium III	Hillebrandt Bayou	5E-09	1E-11	4E-12		5E-09
Chromium III	Viterbo Reservoir	5E-09	3E-11	4E-12		5E-09
Cobalt	Taylor Bayou	2E-08	0E+00	4E-12		2E-08
Cobalt	Hillebrandt Bayou	2E-08	0E+00	4E-12		2E-08
Cobalt	Viterbo Reservoir	2E-08	0E+00	4E-12		2E-08
Hydrogen Chloride	Taylor Bayou				3E-05	
Hydrogen Chloride	Hillebrandt Bayou				3E-05	
Hydrogen Chloride	Viterbo Reservoir				3E-05	
Selenium	Taylor Bayou	8E-08	3E-04	2E-05		3E-04
Selenium	Hillebrandt Bayou	8E-08	1E-03	2E-05		1E-03
Selenium	Viterbo Reservoir	8E-08	8E-04	2E-05		8E-04
Chlorine	Taylor Bayou				5E-04	
Chlorine	Hillebrandt Bayou				5E-04	
Chlorine	Viterbo Reservoir				5E-04	
Methylmercury - Developmental Effects	Taylor Bayou	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Hillebrandt Bayou	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Viterbo Reservoir	1E-06	0E+00	0E+00		1E-06
Methylmercury - Neurological Effects	Taylor Bayou	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Hillebrandt Bayou	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Viterbo Reservoir	5E-07	0E+00	0E+00		5E-07

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Taylor Bayou	6E-11	3E-09	3E-12	1E-10	3E-09
2,3,7,8-TCDD-TEQ	Hillebrandt Bayou	6E-11	6E-09	3E-12	1E-10	6E-09
2,3,7,8-TCDD-TEQ	Viterbo Reservoir	6E-11	1E-08	3E-12	1E-10	1E-08
Nickel	Taylor Bayou				1E-10	
Nickel	Hillebrandt Bayou				1E-10	
Nickel	Viterbo Reservoir				1E-10	
Arsenic	Taylor Bayou	1E-11	4E-11	6E-10	2E-09	6E-10
Arsenic	Hillebrandt Bayou	1E-11	1E-10	6E-10	2E-09	7E-10
Arsenic	Viterbo Reservoir	1E-11	9E-11	6E-10	2E-09	7E-10
Beryllium	Taylor Bayou				9E-12	
Beryllium	Hillebrandt Bayou				9E-12	
Beryllium	Viterbo Reservoir				9E-12	
Cadmium	Taylor Bayou				7E-10	
Cadmium	Hillebrandt Bayou				7E-10	
Cadmium	Viterbo Reservoir				7E-10	
Chromium VI	Taylor Bayou				5E-10	
Chromium VI	Hillebrandt Bayou				5E-10	
Chromium VI	Viterbo Reservoir				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Taylor Bayou	3E-08	0E+00	6E-07	2E-03	6E-07
Manganese	Hillebrandt Bayou	3E-08	0E+00	6E-07	2E-03	6E-07
Manganese	Viterbo Reservoir	3E-08	0E+00	6E-07	2E-03	6E-07
Mercury (elemental)	Taylor Bayou				7E-04	
Mercury (elemental)	Hillebrandt Bayou				7E-04	
Mercury (elemental)	Viterbo Reservoir				7E-04	
Mercury (divalent)	Taylor Bayou	1E-05		0E+00		1E-05
Mercury (divalent)	Hillebrandt Bayou	1E-05		0E+00		1E-05
Mercury (divalent)	Viterbo Reservoir	1E-05		0E+00		1E-05
Nickel	Taylor Bayou	2E-09	2E-09	1E-07		1E-07
Nickel	Hillebrandt Bayou	2E-09	7E-09	1E-07		2E-07
Nickel	Viterbo Reservoir	2E-09	5E-09	1E-07		2E-07
Silver	Taylor Bayou	5E-10	0E+00	1E-06		1E-06
Silver	Hillebrandt Bayou	5E-10	0E+00	1E-06		1E-06
Silver	Viterbo Reservoir	5E-10	0E+00	1E-06		1E-06
Thallium	Taylor Bayou	2E-06	4E-05	3E-05		7E-05
Thallium	Hillebrandt Bayou	2E-06	1E-04	3E-05		2E-04
Thallium	Viterbo Reservoir	2E-06	9E-05	3E-05		1E-04
Antimony	Taylor Bayou	1E-06	0E+00	8E-04		8E-04
Antimony	Hillebrandt Bayou	1E-06	0E+00	8E-04		8E-04
Antimony	Viterbo Reservoir	1E-06	0E+00	8E-04		8E-04
Arsenic	Taylor Bayou	2E-07	6E-07	1E-05		1E-05
Arsenic	Hillebrandt Bayou	2E-07	2E-06	1E-05		1E-05
Arsenic	Viterbo Reservoir	2E-07	2E-06	1E-05		1E-05
Barium	Taylor Bayou	2E-08	0E+00	7E-09	7E-06	3E-08
Barium	Hillebrandt Bayou	2E-08	0E+00	7E-09	7E-06	3E-08
Barium	Viterbo Reservoir	2E-08	0E+00	7E-09	7E-06	3E-08
Beryllium	Taylor Bayou	7E-09	1E-09	3E-09		1E-08
Beryllium	Hillebrandt Bayou	7E-09	3E-09	3E-09		1E-08
Beryllium	Viterbo Reservoir	7E-09	5E-09	3E-09		2E-08

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Taylor Bayou	2E-07	8E-06	5E-06		1E-05
Cadmium	Hillebrandt Bayou	2E-07	3E-05	5E-06		3E-05
Cadmium	Viterbo Reservoir	2E-07	2E-05	5E-06		3E-05
Chromium VI	Taylor Bayou	9E-10	6E-10	6E-08		6E-08
Chromium VI	Hillebrandt Bayou	9E-10	2E-09	6E-08		6E-08
Chromium VI	Viterbo Reservoir	9E-10	2E-09	6E-08		6E-08
Chromium III	Taylor Bayou	3E-09	6E-12	3E-12		3E-09
Chromium III	Hillebrandt Bayou	3E-09	8E-12	3E-12		3E-09
Chromium III	Viterbo Reservoir	3E-09	2E-11	3E-12		3E-09
Cobalt	Taylor Bayou	8E-09	0E+00	2E-07		2E-07
Cobalt	Hillebrandt Bayou	8E-09	0E+00	2E-07		2E-07
Cobalt	Viterbo Reservoir	8E-09	0E+00	2E-07		2E-07
Hydrogen Chloride	Taylor Bayou				3E-05	
Hydrogen Chloride	Hillebrandt Bayou				3E-05	
Hydrogen Chloride	Viterbo Reservoir				3E-05	
Selenium	Taylor Bayou	4E-08	2E-04	1E-05		2E-04
Selenium	Hillebrandt Bayou	4E-08	8E-04	1E-05		8E-04
Selenium	Viterbo Reservoir	4E-08	5E-04	1E-05		6E-04
Chlorine	Taylor Bayou				5E-04	
Chlorine	Hillebrandt Bayou				5E-04	
Chlorine	Viterbo Reservoir				5E-04	
Methylmercury - Developmental Effects	Taylor Bayou	8E-07	0E+00	0E+00		8E-07
Methylmercury - Developmental Effects	Hillebrandt Bayou	8E-07	0E+00	0E+00		8E-07
Methylmercury - Developmental Effects	Viterbo Reservoir	8E-07	0E+00	0E+00		8E-07
Methylmercury - Neurological Effects	Taylor Bayou	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Hillebrandt Bayou	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Viterbo Reservoir	3E-07	0E+00	0E+00		3E-07

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Taylor Bayou	4E-11	5E-09	6E-12	2E-10	5E-09
2,3,7,8-TCDD-TEQ	Hillebrandt Bayou	4E-11	1E-08	6E-12	2E-10	1E-08
2,3,7,8-TCDD-TEQ	Viterbo Reservoir	4E-11	2E-08	6E-12	2E-10	2E-08
Nickel	Taylor Bayou				1E-10	
Nickel	Hillebrandt Bayou				1E-10	
Nickel	Viterbo Reservoir				1E-10	
Arsenic	Taylor Bayou	1E-11	7E-11	1E-09	3E-09	1E-09
Arsenic	Hillebrandt Bayou	1E-11	2E-10	1E-09	3E-09	2E-09
Arsenic	Viterbo Reservoir	1E-11	2E-10	1E-09	3E-09	1E-09
Beryllium	Taylor Bayou				1E-11	
Beryllium	Hillebrandt Bayou				1E-11	
Beryllium	Viterbo Reservoir				1E-11	
Cadmium	Taylor Bayou				1E-09	
Cadmium	Hillebrandt Bayou				1E-09	
Cadmium	Viterbo Reservoir				1E-09	
Chromium VI	Taylor Bayou				8E-10	
Chromium VI	Hillebrandt Bayou				8E-10	
Chromium VI	Viterbo Reservoir				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Taylor Bayou	1E-08	0E+00	7E-07	2E-03	7E-07
Manganese	Hillebrandt Bayou	1E-08	0E+00	7E-07	2E-03	7E-07
Manganese	Viterbo Reservoir	1E-08	0E+00	7E-07	2E-03	7E-07
Mercury (elemental)	Taylor Bayou				7E-04	
Mercury (elemental)	Hillebrandt Bayou				7E-04	
Mercury (elemental)	Viterbo Reservoir				7E-04	
Mercury (divalent)	Taylor Bayou	5E-06		0E+00		5E-06
Mercury (divalent)	Hillebrandt Bayou	5E-06		0E+00		5E-06
Mercury (divalent)	Viterbo Reservoir	5E-06		0E+00		5E-06
Nickel	Taylor Bayou	1E-09	2E-09	2E-07		2E-07
Nickel	Hillebrandt Bayou	1E-09	7E-09	2E-07		2E-07
Nickel	Viterbo Reservoir	1E-09	5E-09	2E-07		2E-07
Silver	Taylor Bayou	2E-10	0E+00	1E-06		1E-06
Silver	Hillebrandt Bayou	2E-10	0E+00	1E-06		1E-06
Silver	Viterbo Reservoir	2E-10	0E+00	1E-06		1E-06
Thallium	Taylor Bayou	7E-07	4E-05	4E-05		8E-05
Thallium	Hillebrandt Bayou	7E-07	1E-04	4E-05		2E-04
Thallium	Viterbo Reservoir	7E-07	9E-05	4E-05		1E-04
Antimony	Taylor Bayou	5E-07	0E+00	9E-04		9E-04
Antimony	Hillebrandt Bayou	5E-07	0E+00	9E-04		9E-04
Antimony	Viterbo Reservoir	5E-07	0E+00	9E-04		9E-04
Arsenic	Taylor Bayou	9E-08	6E-07	1E-05		1E-05
Arsenic	Hillebrandt Bayou	9E-08	2E-06	1E-05		1E-05
Arsenic	Viterbo Reservoir	9E-08	2E-06	1E-05		1E-05
Barium	Taylor Bayou	9E-09	0E+00	8E-09	7E-06	2E-08
Barium	Hillebrandt Bayou	9E-09	0E+00	8E-09	7E-06	2E-08
Barium	Viterbo Reservoir	9E-09	0E+00	8E-09	7E-06	2E-08
Beryllium	Taylor Bayou	3E-09	1E-09	4E-09		8E-09
Beryllium	Hillebrandt Bayou	3E-09	3E-09	4E-09		1E-08
Beryllium	Viterbo Reservoir	3E-09	5E-09	4E-09		1E-08

Table IX-A20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Number A18) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Taylor Bayou	9E-08	8E-06	6E-06		1E-05
Cadmium	Hillebrandt Bayou	9E-08	3E-05	6E-06		3E-05
Cadmium	Viterbo Reservoir	9E-08	2E-05	6E-06		3E-05
Chromium VI	Taylor Bayou	4E-10	6E-10	7E-08		7E-08
Chromium VI	Hillebrandt Bayou	4E-10	2E-09	7E-08		7E-08
Chromium VI	Viterbo Reservoir	4E-10	2E-09	7E-08		7E-08
Chromium III	Taylor Bayou	1E-09	6E-12	3E-12		1E-09
Chromium III	Hillebrandt Bayou	1E-09	8E-12	3E-12		1E-09
Chromium III	Viterbo Reservoir	1E-09	2E-11	3E-12		1E-09
Cobalt	Taylor Bayou	3E-09	0E+00	3E-07		3E-07
Cobalt	Hillebrandt Bayou	3E-09	0E+00	3E-07		3E-07
Cobalt	Viterbo Reservoir	3E-09	0E+00	3E-07		3E-07
Hydrogen Chloride	Taylor Bayou				3E-05	
Hydrogen Chloride	Hillebrandt Bayou				3E-05	
Hydrogen Chloride	Viterbo Reservoir				3E-05	
Selenium	Taylor Bayou	2E-08	2E-04	1E-05		2E-04
Selenium	Hillebrandt Bayou	2E-08	8E-04	1E-05		8E-04
Selenium	Viterbo Reservoir	2E-08	5E-04	1E-05		6E-04
Chlorine	Taylor Bayou				5E-04	
Chlorine	Hillebrandt Bayou				5E-04	
Chlorine	Viterbo Reservoir				5E-04	
Methylmercury - Developmental Effects	Taylor Bayou	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Hillebrandt Bayou	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Viterbo Reservoir	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Taylor Bayou	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Hillebrandt Bayou	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Viterbo Reservoir	1E-07	0E+00	0E+00		1E-07

Table IX-A21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	1E-09	1E-09	3E-09	7E-07	7E-06	8E-08	7E-07	4E-07	4E-07		5E-09	1E-05
Nickel												4E-10	
Arsenic	2E-10	6E-11	3E-11	1E-10	3E-10	5E-10	3E-11			1E-09		2E-09	2E-09
Beryllium												3E-10	
Cadmium												4E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-07	5E-07	3E-07	1E-06	2E-07	8E-06	1E-08			0E+00		2E-03	1E-05
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	7E-04	1E-05	1E-03	7E-04	9E-03	5E-07						1E-02
Nickel	1E-07	7E-08	3E-08	2E-07	1E-06	1E-05	9E-08			3E-07			2E-05
Silver	3E-09	3E-08	8E-09	7E-08	4E-07	2E-04	2E-08			0E+00			2E-04
Thallium	2E-04	1E-05	8E-07	3E-05	4E-03	1E-02	4E-04			7E-03			2E-02
Antimony	9E-07	3E-06	8E-07	7E-06	8E-06	5E-05	4E-07			0E+00			7E-05
Arsenic	4E-06	2E-06	7E-07	3E-06	7E-06	1E-05	6E-07			2E-05			5E-05
Barium	2E-06	2E-07	5E-08	4E-07	9E-08	1E-05	1E-08			0E+00		3E-05	1E-05
Beryllium	3E-06	4E-08	9E-09	1E-07	5E-07	2E-08	2E-07			3E-07			5E-06
Cadmium	3E-05	3E-05	1E-05	5E-05	2E-06	8E-06	5E-07			2E-03			2E-03
Chromium VI	5E-08	1E-08	6E-09	4E-08	5E-07	8E-06	3E-08			9E-08			9E-06
Chromium III	2E-07	2E-09	2E-09	6E-09	2E-07	2E-06	6E-08			3E-11			2E-06
Cobalt	1E-07	2E-08	1E-10	6E-08	2E-06	1E-05	2E-07			0E+00			1E-05
Hydrogen Chloride												6E-03	
Selenium	6E-08	4E-08	4E-08	1E-07	8E-07	7E-05	3E-06			8E-04			9E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	7E-06	2E-04	2E-06	2E-04	5E-04	7E-03	1E-07			2E-03			1E-02
Methylmercury - Neurological Effects	2E-06	8E-05	6E-07	7E-05	2E-04	2E-03	3E-08			8E-04			3E-03

Table IX-A21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	1E-09	1E-09	4E-09	1E-06	5E-06	7E-08	7E-07	4E-07	4E-07		5E-09	8E-06
Nickel												4E-10	
Arsenic	6E-11	4E-11	2E-11	2E-10	5E-10	3E-10	2E-11			1E-09		3E-09	2E-09
Beryllium												3E-10	
Cadmium												5E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-07	3E-07	2E-07	1E-06	2E-07	4E-06	9E-09			0E+00		2E-03	6E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	4E-04	9E-06	1E-03	8E-04	5E-03	3E-07						7E-03
Nickel	4E-08	4E-08	2E-08	1E-07	2E-06	7E-06	5E-08			2E-07			9E-06
Silver	7E-10	2E-08	6E-09	7E-08	5E-07	8E-05	1E-08			0E+00			9E-05
Thallium	5E-05	7E-06	6E-07	3E-05	4E-03	5E-03	3E-04			5E-03			2E-02
Antimony	2E-07	2E-06	6E-07	6E-06	1E-05	2E-05	2E-07			0E+00			4E-05
Arsenic	1E-06	8E-07	5E-07	3E-06	9E-06	6E-06	4E-07			2E-05			4E-05
Barium	5E-07	1E-07	3E-08	3E-07	1E-07	5E-06	8E-09			0E+00		3E-05	6E-06
Beryllium	9E-07	2E-08	6E-09	1E-07	6E-07	1E-08	1E-07			2E-07			2E-06
Cadmium	7E-06	2E-05	9E-06	5E-05	3E-06	4E-06	3E-07			1E-03			1E-03
Chromium VI	1E-08	8E-09	4E-09	4E-08	6E-07	4E-06	2E-08			6E-08			5E-06
Chromium III	6E-08	1E-09	1E-09	6E-09	2E-07	1E-06	4E-08			2E-11			1E-06
Cobalt	3E-08	1E-08	1E-10	6E-08	2E-06	6E-06	1E-07			0E+00			8E-06
Hydrogen Chloride												6E-03	
Selenium	2E-08	2E-08	3E-08	1E-07	9E-07	3E-05	2E-06			6E-04			6E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	2E-06	1E-04	1E-06	2E-04	6E-04	4E-03	6E-08			2E-03			6E-03
Methylmercury - Neurological Effects	6E-07	4E-05	4E-07	7E-05	2E-04	1E-03	2E-08			6E-04			2E-03

Table IX-A21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	8E-10	8E-10	2E-09	5E-07	2E-06	5E-08	4E-07	2E-07	2E-07		3E-09	4E-06
Nickel												3E-10	
Arsenic	3E-11	3E-11	2E-11	9E-11	2E-10	2E-10	1E-11			5E-10		2E-09	1E-09
Beryllium												2E-10	
Cadmium												3E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	5E-07	9E-08	2E-06	6E-09			0E+00		2E-03	3E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	2E-05	3E-04	6E-06	7E-04	4E-04	2E-03	2E-07			0E+00			4E-03
Nickel	2E-08	3E-08	1E-08	8E-08	8E-07	3E-06	3E-08			1E-07			4E-06
Silver	3E-10	1E-08	4E-09	4E-08	2E-07	4E-05	6E-09			0E+00			4E-05
Thallium	3E-05	5E-06	4E-07	2E-05	2E-03	2E-03	2E-04			3E-03			7E-03
Antimony	1E-07	1E-06	4E-07	3E-06	4E-06	1E-05	1E-07			0E+00			2E-05
Arsenic	6E-07	7E-07	4E-07	2E-06	4E-06	3E-06	2E-07			1E-05			2E-05
Barium	3E-07	8E-08	2E-08	2E-07	5E-08	2E-06	5E-09			0E+00		3E-05	3E-06
Beryllium	5E-07	2E-08	5E-09	5E-08	3E-07	4E-09	6E-08			1E-07			1E-06
Cadmium	4E-06	1E-05	7E-06	3E-05	1E-06	2E-06	2E-07			6E-04			7E-04
Chromium VI	7E-09	6E-09	3E-09	2E-08	3E-07	2E-06	1E-08			3E-08			2E-06
Chromium III	3E-08	1E-09	9E-10	3E-09	9E-08	5E-07	2E-08			1E-11			6E-07
Cobalt	2E-08	1E-08	7E-11	3E-08	1E-06	3E-06	7E-08			0E+00			4E-06
Hydrogen Chloride												6E-03	
Selenium	9E-09	2E-08	2E-08	6E-08	4E-07	2E-05	1E-06			3E-04			3E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	9E-07	1E-04	9E-07	1E-04	3E-04	2E-03	4E-08			9E-04			3E-03
Methylmercury - Neurological Effects	3E-07	3E-05	3E-07	4E-05	8E-05	5E-04	1E-08			3E-04			1E-03

Table IX-A21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	2E-09	1E-09	4E-09	1E-06	2E-06	7E-08	7E-07	4E-07	4E-07		5E-09	5E-06
Nickel												4E-10	
Arsenic	3E-11	8E-11	3E-11	1E-10	5E-10	1E-10	2E-11			1E-09		2E-09	2E-09
Beryllium												3E-10	
Cadmium												4E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-08	3E-07	2E-07	5E-07	1E-07	8E-07	5E-09			0E+00		2E-03	2E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	6E-06	4E-04	7E-06	6E-04	4E-04	9E-04	2E-07			0E+00			2E-03
Nickel	8E-09	4E-08	2E-08	7E-08	9E-07	1E-06	3E-08			1E-07			3E-06
Silver	1E-10	2E-08	5E-09	3E-08	3E-07	2E-05	5E-09			0E+00			2E-05
Thallium	1E-05	7E-06	5E-07	2E-05	2E-03	1E-03	1E-04			3E-03			7E-03
Antimony	5E-08	2E-06	5E-07	3E-06	5E-06	5E-06	1E-07			0E+00			2E-05
Arsenic	2E-07	9E-07	4E-07	2E-06	4E-06	1E-06	2E-07			1E-05			2E-05
Barium	1E-07	1E-07	3E-08	2E-07	5E-08	1E-06	4E-09			0E+00		3E-05	2E-06
Beryllium	2E-07	2E-08	5E-09	5E-08	3E-07	2E-09	6E-08			1E-07			7E-07
Cadmium	2E-06	2E-05	8E-06	3E-05	1E-06	8E-07	2E-07			7E-04			8E-04
Chromium VI	3E-09	8E-09	4E-09	2E-08	3E-07	8E-07	1E-08			4E-08			1E-06
Chromium III	1E-08	1E-09	1E-09	3E-09	1E-07	2E-07	2E-08			1E-11			3E-07
Cobalt	7E-09	1E-08	8E-11	3E-08	1E-06	1E-06	6E-08			0E+00			2E-06
Hydrogen Chloride												6E-03	
Selenium	4E-09	2E-08	3E-08	5E-08	5E-07	7E-06	1E-06			4E-04			4E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	4E-07	1E-04	1E-06	1E-04	3E-04	7E-04	3E-08			1E-03			2E-03
Methylmercury - Neurological Effects	1E-07	4E-05	3E-07	4E-05	1E-04	2E-04	1E-08			3E-04			7E-04

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tennessee River	3E-08	4E-09	0E+00	5E-09	4E-08
2,3,7,8-TCDD-TEQ	Kentucky Lake	3E-08	5E-07	0E+00	5E-09	6E-07
2,3,7,8-TCDD-TEQ	Barkley Lake	3E-08	1E-07	0E+00	5E-09	2E-07
2,3,7,8-TCDD-TEQ	Cumberland River	3E-08	4E-09	0E+00	5E-09	4E-08
Nickel	Tennessee River				4E-10	
Nickel	Kentucky Lake				4E-10	
Nickel	Barkley Lake				4E-10	
Nickel	Cumberland River				4E-10	
Arsenic	Tennessee River	2E-10	1E-13	0E+00	2E-09	2E-10
Arsenic	Kentucky Lake	2E-10	3E-10	0E+00	2E-09	5E-10
Arsenic	Barkley Lake	2E-10	5E-11	0E+00	2E-09	2E-10
Arsenic	Cumberland River	2E-10	2E-13	0E+00	2E-09	2E-10
Beryllium	Tennessee River				3E-10	
Beryllium	Kentucky Lake				3E-10	
Beryllium	Barkley Lake				3E-10	
Beryllium	Cumberland River				3E-10	
Cadmium	Tennessee River				4E-09	
Cadmium	Kentucky Lake				4E-09	
Cadmium	Barkley Lake				4E-09	
Cadmium	Cumberland River				4E-09	
Chromium VI	Tennessee River				2E-09	
Chromium VI	Kentucky Lake				2E-09	
Chromium VI	Barkley Lake				2E-09	
Chromium VI	Cumberland River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Tennessee River	5E-07	0E+00	0E+00	2E-03	5E-07
Manganese	Kentucky Lake	5E-07	0E+00	0E+00	2E-03	5E-07
Manganese	Barkley Lake	5E-07	0E+00	0E+00	2E-03	5E-07
Manganese	Cumberland River	5E-07	0E+00	0E+00	2E-03	5E-07
Mercury (elemental)	Tennessee River				3E-04	
Mercury (elemental)	Kentucky Lake				3E-04	
Mercury (elemental)	Barkley Lake				3E-04	
Mercury (elemental)	Cumberland River				3E-04	
Mercury (divalent)	Tennessee River	1E-04		0E+00		1E-04
Mercury (divalent)	Kentucky Lake	1E-04		0E+00		1E-04
Mercury (divalent)	Barkley Lake	1E-04		0E+00		1E-04
Mercury (divalent)	Cumberland River	1E-04		0E+00		1E-04
Nickel	Tennessee River	1E-07	4E-11	0E+00		1E-07
Nickel	Kentucky Lake	1E-07	8E-08	0E+00		2E-07
Nickel	Barkley Lake	1E-07	1E-08	0E+00		2E-07
Nickel	Cumberland River	1E-07	5E-11	0E+00		1E-07
Silver	Tennessee River	3E-09	0E+00	0E+00		3E-09
Silver	Kentucky Lake	3E-09	0E+00	0E+00		3E-09
Silver	Barkley Lake	3E-09	0E+00	0E+00		3E-09
Silver	Cumberland River	3E-09	0E+00	0E+00		3E-09
Thallium	Tennessee River	2E-04	1E-06	0E+00		2E-04
Thallium	Kentucky Lake	2E-04	2E-03	0E+00		3E-03
Thallium	Barkley Lake	2E-04	4E-04	0E+00		6E-04
Thallium	Cumberland River	2E-04	1E-06	0E+00		2E-04

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tennessee River	9E-07	0E+00	0E+00		9E-07
Antimony	Kentucky Lake	9E-07	0E+00	0E+00		9E-07
Antimony	Barkley Lake	9E-07	0E+00	0E+00		9E-07
Antimony	Cumberland River	9E-07	0E+00	0E+00		9E-07
Arsenic	Tennessee River	4E-06	4E-09	0E+00		4E-06
Arsenic	Kentucky Lake	4E-06	7E-06	0E+00		1E-05
Arsenic	Barkley Lake	4E-06	1E-06	0E+00		5E-06
Arsenic	Cumberland River	4E-06	4E-09	0E+00		4E-06
Barium	Tennessee River	2E-06	0E+00	0E+00	3E-05	2E-06
Barium	Kentucky Lake	2E-06	0E+00	0E+00	3E-05	2E-06
Barium	Barkley Lake	2E-06	0E+00	0E+00	3E-05	2E-06
Barium	Cumberland River	2E-06	0E+00	0E+00	3E-05	2E-06
Beryllium	Tennessee River	3E-06	4E-10	0E+00		3E-06
Beryllium	Kentucky Lake	3E-06	3E-07	0E+00		4E-06
Beryllium	Barkley Lake	3E-06	8E-08	0E+00		4E-06
Beryllium	Cumberland River	3E-06	6E-10	0E+00		3E-06
Cadmium	Tennessee River	3E-05	3E-07	0E+00		3E-05
Cadmium	Kentucky Lake	3E-05	6E-04	0E+00		6E-04
Cadmium	Barkley Lake	3E-05	1E-04	0E+00		1E-04
Cadmium	Cumberland River	3E-05	4E-07	0E+00		3E-05
Chromium VI	Tennessee River	5E-08	1E-11	0E+00		5E-08
Chromium VI	Kentucky Lake	5E-08	2E-08	0E+00		8E-08
Chromium VI	Barkley Lake	5E-08	4E-09	0E+00		6E-08
Chromium VI	Cumberland River	5E-08	1E-11	0E+00		5E-08
Chromium III	Tennessee River	2E-07	7E-13	0E+00		2E-07
Chromium III	Kentucky Lake	2E-07	2E-11	0E+00		2E-07
Chromium III	Barkley Lake	2E-07	6E-12	0E+00		2E-07
Chromium III	Cumberland River	2E-07	1E-12	0E+00		2E-07
Cobalt	Tennessee River	1E-07	0E+00	0E+00		1E-07
Cobalt	Kentucky Lake	1E-07	0E+00	0E+00		1E-07
Cobalt	Barkley Lake	1E-07	0E+00	0E+00		1E-07
Cobalt	Cumberland River	1E-07	0E+00	0E+00		1E-07
Hydrogen Chloride	Tennessee River				6E-03	
Hydrogen Chloride	Kentucky Lake				6E-03	
Hydrogen Chloride	Barkley Lake				6E-03	
Hydrogen Chloride	Cumberland River				6E-03	
Selenium	Tennessee River	6E-08	1E-07	0E+00		2E-07
Selenium	Kentucky Lake	6E-08	2E-04	0E+00		2E-04
Selenium	Barkley Lake	6E-08	4E-05	0E+00		4E-05
Selenium	Cumberland River	6E-08	1E-07	0E+00		2E-07
Chlorine	Tennessee River				1E-02	
Chlorine	Kentucky Lake				1E-02	
Chlorine	Barkley Lake				1E-02	
Chlorine	Cumberland River				1E-02	
Methylmercury - Developmental Effects	Tennessee River	7E-06	6E-05	0E+00		7E-05
Methylmercury - Developmental Effects	Kentucky Lake	7E-06	3E-03	0E+00		3E-03
Methylmercury - Developmental Effects	Barkley Lake	7E-06	6E-04	0E+00		6E-04
Methylmercury - Developmental Effects	Cumberland River	7E-06	8E-05	0E+00		9E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tennessee River	2E-06	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Kentucky Lake	2E-06	9E-04	0E+00		1E-03
Methylmercury - Neurological Effects	Barkley Lake	2E-06	2E-04	0E+00		2E-04
Methylmercury - Neurological Effects	Cumberland River	2E-06	3E-05	0E+00		3E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tennessee River	1E-08	6E-09	0E+00	5E-09	2E-08
2,3,7,8-TCDD-TEQ	Kentucky Lake	1E-08	7E-07	0E+00	5E-09	7E-07
2,3,7,8-TCDD-TEQ	Barkley Lake	1E-08	2E-07	0E+00	5E-09	2E-07
2,3,7,8-TCDD-TEQ	Cumberland River	1E-08	5E-09	0E+00	5E-09	2E-08
Nickel	Tennessee River				4E-10	
Nickel	Kentucky Lake				4E-10	
Nickel	Barkley Lake				4E-10	
Nickel	Cumberland River				4E-10	
Arsenic	Tennessee River	6E-11	2E-13	0E+00	3E-09	6E-11
Arsenic	Kentucky Lake	6E-11	4E-10	0E+00	3E-09	5E-10
Arsenic	Barkley Lake	6E-11	7E-11	0E+00	3E-09	1E-10
Arsenic	Cumberland River	6E-11	2E-13	0E+00	3E-09	6E-11
Beryllium	Tennessee River				3E-10	
Beryllium	Kentucky Lake				3E-10	
Beryllium	Barkley Lake				3E-10	
Beryllium	Cumberland River				3E-10	
Cadmium	Tennessee River				5E-09	
Cadmium	Kentucky Lake				5E-09	
Cadmium	Barkley Lake				5E-09	
Cadmium	Cumberland River				5E-09	
Chromium VI	Tennessee River				2E-09	
Chromium VI	Kentucky Lake				2E-09	
Chromium VI	Barkley Lake				2E-09	
Chromium VI	Cumberland River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Tennessee River	1E-07	0E+00	0E+00	2E-03	1E-07
Manganese	Kentucky Lake	1E-07	0E+00	0E+00	2E-03	1E-07
Manganese	Barkley Lake	1E-07	0E+00	0E+00	2E-03	1E-07
Manganese	Cumberland River	1E-07	0E+00	0E+00	2E-03	1E-07
Mercury (elemental)	Tennessee River				3E-04	
Mercury (elemental)	Kentucky Lake				3E-04	
Mercury (elemental)	Barkley Lake				3E-04	
Mercury (elemental)	Cumberland River				3E-04	
Mercury (divalent)	Tennessee River	3E-05		0E+00		3E-05
Mercury (divalent)	Kentucky Lake	3E-05		0E+00		3E-05
Mercury (divalent)	Barkley Lake	3E-05		0E+00		3E-05
Mercury (divalent)	Cumberland River	3E-05		0E+00		3E-05
Nickel	Tennessee River	4E-08	4E-11	0E+00		4E-08
Nickel	Kentucky Lake	4E-08	8E-08	0E+00		1E-07
Nickel	Barkley Lake	4E-08	1E-08	0E+00		5E-08
Nickel	Cumberland River	4E-08	5E-11	0E+00		4E-08
Silver	Tennessee River	7E-10	0E+00	0E+00		7E-10
Silver	Kentucky Lake	7E-10	0E+00	0E+00		7E-10
Silver	Barkley Lake	7E-10	0E+00	0E+00		7E-10
Silver	Cumberland River	7E-10	0E+00	0E+00		7E-10
Thallium	Tennessee River	5E-05	1E-06	0E+00		5E-05
Thallium	Kentucky Lake	5E-05	2E-03	0E+00		3E-03
Thallium	Barkley Lake	5E-05	4E-04	0E+00		5E-04
Thallium	Cumberland River	5E-05	1E-06	0E+00		5E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tennessee River	2E-07	0E+00	0E+00		2E-07
Antimony	Kentucky Lake	2E-07	0E+00	0E+00		2E-07
Antimony	Barkley Lake	2E-07	0E+00	0E+00		2E-07
Antimony	Cumberland River	2E-07	0E+00	0E+00		2E-07
Arsenic	Tennessee River	1E-06	4E-09	0E+00		1E-06
Arsenic	Kentucky Lake	1E-06	7E-06	0E+00		8E-06
Arsenic	Barkley Lake	1E-06	1E-06	0E+00		2E-06
Arsenic	Cumberland River	1E-06	4E-09	0E+00		1E-06
Barium	Tennessee River	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Kentucky Lake	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Barkley Lake	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Cumberland River	5E-07	0E+00	0E+00	3E-05	5E-07
Beryllium	Tennessee River	9E-07	4E-10	0E+00		9E-07
Beryllium	Kentucky Lake	9E-07	3E-07	0E+00		1E-06
Beryllium	Barkley Lake	9E-07	8E-08	0E+00		1E-06
Beryllium	Cumberland River	9E-07	6E-10	0E+00		9E-07
Cadmium	Tennessee River	7E-06	3E-07	0E+00		8E-06
Cadmium	Kentucky Lake	7E-06	6E-04	0E+00		6E-04
Cadmium	Barkley Lake	7E-06	1E-04	0E+00		1E-04
Cadmium	Cumberland River	7E-06	4E-07	0E+00		8E-06
Chromium VI	Tennessee River	1E-08	1E-11	0E+00		1E-08
Chromium VI	Kentucky Lake	1E-08	2E-08	0E+00		4E-08
Chromium VI	Barkley Lake	1E-08	4E-09	0E+00		2E-08
Chromium VI	Cumberland River	1E-08	1E-11	0E+00		1E-08
Chromium III	Tennessee River	6E-08	7E-13	0E+00		6E-08
Chromium III	Kentucky Lake	6E-08	2E-11	0E+00		6E-08
Chromium III	Barkley Lake	6E-08	6E-12	0E+00		6E-08
Chromium III	Cumberland River	6E-08	1E-12	0E+00		6E-08
Cobalt	Tennessee River	3E-08	0E+00	0E+00		3E-08
Cobalt	Kentucky Lake	3E-08	0E+00	0E+00		3E-08
Cobalt	Barkley Lake	3E-08	0E+00	0E+00		3E-08
Cobalt	Cumberland River	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Tennessee River				6E-03	
Hydrogen Chloride	Kentucky Lake				6E-03	
Hydrogen Chloride	Barkley Lake				6E-03	
Hydrogen Chloride	Cumberland River				6E-03	
Selenium	Tennessee River	2E-08	1E-07	0E+00		1E-07
Selenium	Kentucky Lake	2E-08	2E-04	0E+00		2E-04
Selenium	Barkley Lake	2E-08	4E-05	0E+00		4E-05
Selenium	Cumberland River	2E-08	1E-07	0E+00		1E-07
Chlorine	Tennessee River				1E-02	
Chlorine	Kentucky Lake				1E-02	
Chlorine	Barkley Lake				1E-02	
Chlorine	Cumberland River				1E-02	
Methylmercury - Developmental Effects	Tennessee River	2E-06	6E-05	0E+00		6E-05
Methylmercury - Developmental Effects	Kentucky Lake	2E-06	3E-03	0E+00		3E-03
Methylmercury - Developmental Effects	Barkley Lake	2E-06	6E-04	0E+00		6E-04
Methylmercury - Developmental Effects	Cumberland River	2E-06	8E-05	0E+00		9E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tennessee River	6E-07	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Kentucky Lake	6E-07	9E-04	0E+00		9E-04
Methylmercury - Neurological Effects	Barkley Lake	6E-07	2E-04	0E+00		2E-04
Methylmercury - Neurological Effects	Cumberland River	6E-07	3E-05	0E+00		3E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tennessee River	6E-09	4E-09	0E+00	3E-09	1E-08
2,3,7,8-TCDD-TEQ	Kentucky Lake	6E-09	5E-07	0E+00	3E-09	5E-07
2,3,7,8-TCDD-TEQ	Barkley Lake	6E-09	1E-07	0E+00	3E-09	1E-07
2,3,7,8-TCDD-TEQ	Cumberland River	6E-09	4E-09	0E+00	3E-09	1E-08
Nickel	Tennessee River				3E-10	
Nickel	Kentucky Lake				3E-10	
Nickel	Barkley Lake				3E-10	
Nickel	Cumberland River				3E-10	
Arsenic	Tennessee River	3E-11	1E-13	0E+00	2E-09	3E-11
Arsenic	Kentucky Lake	3E-11	3E-10	0E+00	2E-09	3E-10
Arsenic	Barkley Lake	3E-11	5E-11	0E+00	2E-09	8E-11
Arsenic	Cumberland River	3E-11	2E-13	0E+00	2E-09	3E-11
Beryllium	Tennessee River				2E-10	
Beryllium	Kentucky Lake				2E-10	
Beryllium	Barkley Lake				2E-10	
Beryllium	Cumberland River				2E-10	
Cadmium	Tennessee River				3E-09	
Cadmium	Kentucky Lake				3E-09	
Cadmium	Barkley Lake				3E-09	
Cadmium	Cumberland River				3E-09	
Chromium VI	Tennessee River				1E-09	
Chromium VI	Kentucky Lake				1E-09	
Chromium VI	Barkley Lake				1E-09	
Chromium VI	Cumberland River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Tennessee River	6E-08	0E+00	0E+00	2E-03	6E-08
Manganese	Kentucky Lake	6E-08	0E+00	0E+00	2E-03	6E-08
Manganese	Barkley Lake	6E-08	0E+00	0E+00	2E-03	6E-08
Manganese	Cumberland River	6E-08	0E+00	0E+00	2E-03	6E-08
Mercury (elemental)	Tennessee River				3E-04	
Mercury (elemental)	Kentucky Lake				3E-04	
Mercury (elemental)	Barkley Lake				3E-04	
Mercury (elemental)	Cumberland River				3E-04	
Mercury (divalent)	Tennessee River	2E-05		0E+00		2E-05
Mercury (divalent)	Kentucky Lake	2E-05		0E+00		2E-05
Mercury (divalent)	Barkley Lake	2E-05		0E+00		2E-05
Mercury (divalent)	Cumberland River	2E-05		0E+00		2E-05
Nickel	Tennessee River	2E-08	3E-11	0E+00		2E-08
Nickel	Kentucky Lake	2E-08	6E-08	0E+00		8E-08
Nickel	Barkley Lake	2E-08	1E-08	0E+00		3E-08
Nickel	Cumberland River	2E-08	3E-11	0E+00		2E-08
Silver	Tennessee River	3E-10	0E+00	0E+00		3E-10
Silver	Kentucky Lake	3E-10	0E+00	0E+00		3E-10
Silver	Barkley Lake	3E-10	0E+00	0E+00		3E-10
Silver	Cumberland River	3E-10	0E+00	0E+00		3E-10
Thallium	Tennessee River	3E-05	9E-07	0E+00		3E-05
Thallium	Kentucky Lake	3E-05	2E-03	0E+00		2E-03
Thallium	Barkley Lake	3E-05	3E-04	0E+00		3E-04
Thallium	Cumberland River	3E-05	1E-06	0E+00		3E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tennessee River	1E-07	0E+00	0E+00		1E-07
Antimony	Kentucky Lake	1E-07	0E+00	0E+00		1E-07
Antimony	Barkley Lake	1E-07	0E+00	0E+00		1E-07
Antimony	Cumberland River	1E-07	0E+00	0E+00		1E-07
Arsenic	Tennessee River	6E-07	3E-09	0E+00		6E-07
Arsenic	Kentucky Lake	6E-07	5E-06	0E+00		6E-06
Arsenic	Barkley Lake	6E-07	9E-07	0E+00		1E-06
Arsenic	Cumberland River	6E-07	3E-09	0E+00		6E-07
Barium	Tennessee River	3E-07	0E+00	0E+00	3E-05	3E-07
Barium	Kentucky Lake	3E-07	0E+00	0E+00	3E-05	3E-07
Barium	Barkley Lake	3E-07	0E+00	0E+00	3E-05	3E-07
Barium	Cumberland River	3E-07	0E+00	0E+00	3E-05	3E-07
Beryllium	Tennessee River	5E-07	3E-10	0E+00		5E-07
Beryllium	Kentucky Lake	5E-07	2E-07	0E+00		7E-07
Beryllium	Barkley Lake	5E-07	6E-08	0E+00		5E-07
Beryllium	Cumberland River	5E-07	4E-10	0E+00		5E-07
Cadmium	Tennessee River	4E-06	2E-07	0E+00		4E-06
Cadmium	Kentucky Lake	4E-06	4E-04	0E+00		4E-04
Cadmium	Barkley Lake	4E-06	8E-05	0E+00		9E-05
Cadmium	Cumberland River	4E-06	3E-07	0E+00		4E-06
Chromium VI	Tennessee River	7E-09	9E-12	0E+00		7E-09
Chromium VI	Kentucky Lake	7E-09	2E-08	0E+00		3E-08
Chromium VI	Barkley Lake	7E-09	3E-09	0E+00		1E-08
Chromium VI	Cumberland River	7E-09	1E-11	0E+00		7E-09
Chromium III	Tennessee River	3E-08	5E-13	0E+00		3E-08
Chromium III	Kentucky Lake	3E-08	1E-11	0E+00		3E-08
Chromium III	Barkley Lake	3E-08	4E-12	0E+00		3E-08
Chromium III	Cumberland River	3E-08	8E-13	0E+00		3E-08
Cobalt	Tennessee River	2E-08	0E+00	0E+00		2E-08
Cobalt	Kentucky Lake	2E-08	0E+00	0E+00		2E-08
Cobalt	Barkley Lake	2E-08	0E+00	0E+00		2E-08
Cobalt	Cumberland River	2E-08	0E+00	0E+00		2E-08
Hydrogen Chloride	Tennessee River				6E-03	
Hydrogen Chloride	Kentucky Lake				6E-03	
Hydrogen Chloride	Barkley Lake				6E-03	
Hydrogen Chloride	Cumberland River				6E-03	
Selenium	Tennessee River	9E-09	8E-08	0E+00		9E-08
Selenium	Kentucky Lake	9E-09	2E-04	0E+00		2E-04
Selenium	Barkley Lake	9E-09	3E-05	0E+00		3E-05
Selenium	Cumberland River	9E-09	9E-08	0E+00		1E-07
Chlorine	Tennessee River				1E-02	
Chlorine	Kentucky Lake				1E-02	
Chlorine	Barkley Lake				1E-02	
Chlorine	Cumberland River				1E-02	
Methylmercury - Developmental Effects	Tennessee River	9E-07	4E-05	0E+00		4E-05
Methylmercury - Developmental Effects	Kentucky Lake	9E-07	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Barkley Lake	9E-07	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Cumberland River	9E-07	6E-05	0E+00		6E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tennessee River	3E-07	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	Kentucky Lake	3E-07	7E-04	0E+00		7E-04
Methylmercury - Neurological Effects	Barkley Lake	3E-07	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Cumberland River	3E-07	2E-05	0E+00		2E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tennessee River	4E-09	7E-09	0E+00	5E-09	1E-08
2,3,7,8-TCDD-TEQ	Kentucky Lake	4E-09	1E-06	0E+00	5E-09	1E-06
2,3,7,8-TCDD-TEQ	Barkley Lake	4E-09	2E-07	0E+00	5E-09	2E-07
2,3,7,8-TCDD-TEQ	Cumberland River	4E-09	7E-09	0E+00	5E-09	1E-08
Nickel	Tennessee River				4E-10	
Nickel	Kentucky Lake				4E-10	
Nickel	Barkley Lake				4E-10	
Nickel	Cumberland River				4E-10	
Arsenic	Tennessee River	3E-11	3E-13	0E+00	2E-09	3E-11
Arsenic	Kentucky Lake	3E-11	6E-10	0E+00	2E-09	6E-10
Arsenic	Barkley Lake	3E-11	1E-10	0E+00	2E-09	1E-10
Arsenic	Cumberland River	3E-11	3E-13	0E+00	2E-09	3E-11
Beryllium	Tennessee River				3E-10	
Beryllium	Kentucky Lake				3E-10	
Beryllium	Barkley Lake				3E-10	
Beryllium	Cumberland River				3E-10	
Cadmium	Tennessee River				4E-09	
Cadmium	Kentucky Lake				4E-09	
Cadmium	Barkley Lake				4E-09	
Cadmium	Cumberland River				4E-09	
Chromium VI	Tennessee River				2E-09	
Chromium VI	Kentucky Lake				2E-09	
Chromium VI	Barkley Lake				2E-09	
Chromium VI	Cumberland River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Tennessee River	3E-08	0E+00	0E+00	2E-03	3E-08
Manganese	Kentucky Lake	3E-08	0E+00	0E+00	2E-03	3E-08
Manganese	Barkley Lake	3E-08	0E+00	0E+00	2E-03	3E-08
Manganese	Cumberland River	3E-08	0E+00	0E+00	2E-03	3E-08
Mercury (elemental)	Tennessee River				3E-04	
Mercury (elemental)	Kentucky Lake				3E-04	
Mercury (elemental)	Barkley Lake				3E-04	
Mercury (elemental)	Cumberland River				3E-04	
Mercury (divalent)	Tennessee River	6E-06		0E+00		6E-06
Mercury (divalent)	Kentucky Lake	6E-06		0E+00		6E-06
Mercury (divalent)	Barkley Lake	6E-06		0E+00		6E-06
Mercury (divalent)	Cumberland River	6E-06		0E+00		6E-06
Nickel	Tennessee River	8E-09	3E-11	0E+00		8E-09
Nickel	Kentucky Lake	8E-09	6E-08	0E+00		7E-08
Nickel	Barkley Lake	8E-09	1E-08	0E+00		2E-08
Nickel	Cumberland River	8E-09	3E-11	0E+00		8E-09
Silver	Tennessee River	1E-10	0E+00	0E+00		1E-10
Silver	Kentucky Lake	1E-10	0E+00	0E+00		1E-10
Silver	Barkley Lake	1E-10	0E+00	0E+00		1E-10
Silver	Cumberland River	1E-10	0E+00	0E+00		1E-10
Thallium	Tennessee River	1E-05	9E-07	0E+00		1E-05
Thallium	Kentucky Lake	1E-05	2E-03	0E+00		2E-03
Thallium	Barkley Lake	1E-05	3E-04	0E+00		3E-04
Thallium	Cumberland River	1E-05	1E-06	0E+00		1E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tennessee River	5E-08	0E+00	0E+00		5E-08
Antimony	Kentucky Lake	5E-08	0E+00	0E+00		5E-08
Antimony	Barkley Lake	5E-08	0E+00	0E+00		5E-08
Antimony	Cumberland River	5E-08	0E+00	0E+00		5E-08
Arsenic	Tennessee River	2E-07	3E-09	0E+00		2E-07
Arsenic	Kentucky Lake	2E-07	5E-06	0E+00		5E-06
Arsenic	Barkley Lake	2E-07	9E-07	0E+00		1E-06
Arsenic	Cumberland River	2E-07	3E-09	0E+00		2E-07
Barium	Tennessee River	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Kentucky Lake	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Barkley Lake	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Cumberland River	1E-07	0E+00	0E+00	3E-05	1E-07
Beryllium	Tennessee River	2E-07	3E-10	0E+00		2E-07
Beryllium	Kentucky Lake	2E-07	2E-07	0E+00		4E-07
Beryllium	Barkley Lake	2E-07	6E-08	0E+00		3E-07
Beryllium	Cumberland River	2E-07	4E-10	0E+00		2E-07
Cadmium	Tennessee River	2E-06	2E-07	0E+00		2E-06
Cadmium	Kentucky Lake	2E-06	4E-04	0E+00		4E-04
Cadmium	Barkley Lake	2E-06	8E-05	0E+00		8E-05
Cadmium	Cumberland River	2E-06	3E-07	0E+00		2E-06
Chromium VI	Tennessee River	3E-09	9E-12	0E+00		3E-09
Chromium VI	Kentucky Lake	3E-09	2E-08	0E+00		2E-08
Chromium VI	Barkley Lake	3E-09	3E-09	0E+00		6E-09
Chromium VI	Cumberland River	3E-09	1E-11	0E+00		3E-09
Chromium III	Tennessee River	1E-08	5E-13	0E+00		1E-08
Chromium III	Kentucky Lake	1E-08	1E-11	0E+00		1E-08
Chromium III	Barkley Lake	1E-08	4E-12	0E+00		1E-08
Chromium III	Cumberland River	1E-08	8E-13	0E+00		1E-08
Cobalt	Tennessee River	7E-09	0E+00	0E+00		7E-09
Cobalt	Kentucky Lake	7E-09	0E+00	0E+00		7E-09
Cobalt	Barkley Lake	7E-09	0E+00	0E+00		7E-09
Cobalt	Cumberland River	7E-09	0E+00	0E+00		7E-09
Hydrogen Chloride	Tennessee River				6E-03	
Hydrogen Chloride	Kentucky Lake				6E-03	
Hydrogen Chloride	Barkley Lake				6E-03	
Hydrogen Chloride	Cumberland River				6E-03	
Selenium	Tennessee River	4E-09	8E-08	0E+00		9E-08
Selenium	Kentucky Lake	4E-09	2E-04	0E+00		2E-04
Selenium	Barkley Lake	4E-09	3E-05	0E+00		3E-05
Selenium	Cumberland River	4E-09	9E-08	0E+00		1E-07
Chlorine	Tennessee River				1E-02	
Chlorine	Kentucky Lake				1E-02	
Chlorine	Barkley Lake				1E-02	
Chlorine	Cumberland River				1E-02	
Methylmercury - Developmental Effects	Tennessee River	4E-07	4E-05	0E+00		4E-05
Methylmercury - Developmental Effects	Kentucky Lake	4E-07	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Barkley Lake	4E-07	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Cumberland River	4E-07	6E-05	0E+00		6E-05

Table IX-A22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 210, 211, 212) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tennessee River	1E-07	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	Kentucky Lake	1E-07	7E-04	0E+00		7E-04
Methylmercury - Neurological Effects	Barkley Lake	1E-07	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Cumberland River	1E-07	2E-05	0E+00		2E-05

Table IX-A23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	2E-11	2E-11	5E-11	1E-08	1E-07	1E-09	7E-09	5E-09	6E-09		9E-11	1E-07
Nickel												5E-11	
Arsenic	2E-09	8E-10	4E-10	2E-09	5E-09	8E-09	3E-10			1E-08		4E-08	3E-08
Beryllium												8E-09	
Cadmium												2E-09	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	7E-08	3E-07	4E-08	2E-06	3E-09			0E+00		5E-04	3E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	6E-04	6E-06	1E-03	5E-04	8E-03	3E-07						1E-02
Nickel	1E-08	7E-09	3E-09	2E-08	2E-07	2E-06	9E-09			3E-08			2E-06
Silver	4E-09	5E-08	1E-08	1E-07	8E-07	3E-04	3E-08			0E+00			3E-04
Thallium	4E-07	3E-08	2E-09	1E-07	1E-05	3E-05	1E-06			2E-05			6E-05
Antimony	1E-08	5E-08	1E-08	1E-07	2E-07	1E-06	7E-09			0E+00			1E-06
Arsenic	5E-05	2E-05	1E-05	5E-05	1E-04	2E-04	9E-06			3E-04			8E-04
Barium	3E-06	3E-07	8E-08	6E-07	1E-07	2E-05	2E-08			0E+00		7E-05	2E-05
Beryllium	6E-05	8E-07	2E-07	2E-06	9E-06	3E-07	3E-06			3E-06			8E-05
Cadmium	7E-06	8E-06	4E-06	2E-05	7E-07	2E-06	1E-07			4E-04			4E-04
Chromium VI	2E-09	6E-10	2E-10	2E-09	2E-08	3E-07	1E-09			3E-09			4E-07
Chromium III	7E-08	8E-10	5E-10	2E-09	5E-08	7E-07	2E-08			5E-12			8E-07
Cobalt	3E-08	6E-09	3E-11	1E-08	5E-07	3E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												6E-04	
Selenium	3E-08	2E-08	2E-08	6E-08	4E-07	4E-05	2E-06			3E-04			4E-04
Chlorine												4E-04	
Methylmercury - Developmental Effects	3E-06	2E-04	8E-07	2E-04	4E-04	6E-03	8E-08			2E-03			9E-03
Methylmercury - Neurological Effects	1E-06	7E-05	3E-07	6E-05	1E-04	2E-03	3E-08			6E-04			3E-03

Table IX-A23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	2E-11	2E-11	7E-11	2E-08	8E-08	1E-09	7E-09	5E-09	6E-09		1E-10	1E-07
Nickel												6E-11	
Arsenic	8E-10	6E-10	3E-10	2E-09	7E-09	5E-09	3E-10			1E-08		4E-08	3E-08
Beryllium												9E-09	
Cadmium												2E-09	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	5E-08	2E-07	5E-08	1E-06	2E-09			0E+00		5E-04	1E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	3E-04	4E-06	1E-03	6E-04	4E-03	2E-07						6E-03
Nickel	4E-09	4E-09	2E-09	2E-08	2E-07	8E-07	6E-09			2E-08			1E-06
Silver	1E-09	3E-08	8E-09	1E-07	9E-07	2E-04	2E-08			0E+00			2E-04
Thallium	1E-07	2E-08	2E-09	9E-08	1E-05	1E-05	7E-07			1E-05			4E-05
Antimony	4E-09	3E-08	9E-09	1E-07	2E-07	5E-07	4E-09			0E+00			9E-07
Arsenic	1E-05	1E-05	7E-06	5E-05	1E-04	1E-04	5E-06			2E-04			5E-04
Barium	8E-07	2E-07	6E-08	6E-07	2E-07	9E-06	1E-08			0E+00		7E-05	1E-05
Beryllium	2E-05	4E-07	1E-07	2E-06	1E-05	2E-07	2E-06			2E-06			3E-05
Cadmium	2E-06	4E-06	3E-06	1E-05	8E-07	1E-06	7E-08			3E-04			3E-04
Chromium VI	5E-10	3E-10	2E-10	2E-09	2E-08	2E-07	7E-10			2E-09			2E-07
Chromium III	2E-08	4E-10	4E-10	2E-09	6E-08	3E-07	1E-08			4E-12			4E-07
Cobalt	7E-09	3E-09	2E-11	1E-08	6E-07	1E-06	2E-08			0E+00			2E-06
Hydrogen Chloride												6E-04	
Selenium	7E-09	1E-08	1E-08	5E-08	5E-07	2E-05	9E-07			3E-04			3E-04
Chlorine												4E-04	
Methylmercury - Developmental Effects	8E-07	1E-04	5E-07	2E-04	5E-04	3E-03	5E-08			1E-03			5E-03
Methylmercury - Neurological Effects	3E-07	4E-05	2E-07	6E-05	2E-04	1E-03	2E-08			4E-04			2E-03

Table IX-A23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-11	1E-11	2E-11	4E-11	8E-09	4E-08	6E-10	4E-09	3E-09	3E-09		7E-11	6E-08
Nickel												4E-11	
Arsenic	4E-10	5E-10	2E-10	1E-09	3E-09	3E-09	2E-10			7E-09		3E-08	2E-08
Beryllium												6E-09	
Cadmium												1E-09	
Chromium VI												8E-11	
	Noncarcinogenic Chemicals												
Manganese	1E-08	6E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00		5E-04	7E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	7E-06	3E-04	3E-06	6E-04	3E-04	2E-03	1E-07			0E+00			3E-03
Nickel	2E-09	3E-09	1E-09	8E-09	9E-08	4E-07	4E-09			1E-08			5E-07
Silver	5E-10	2E-08	6E-09	6E-08	4E-07	7E-05	1E-08			0E+00			7E-05
Thallium	6E-08	1E-08	1E-09	5E-08	6E-06	7E-06	4E-07			7E-06			2E-05
Antimony	2E-09	2E-08	7E-09	6E-08	9E-08	2E-07	3E-09			0E+00			4E-07
Arsenic	7E-06	9E-06	5E-06	2E-05	6E-05	5E-05	3E-06			1E-04			3E-04
Barium	4E-07	1E-07	4E-08	3E-07	8E-08	4E-06	9E-09			0E+00		7E-05	5E-06
Beryllium	8E-06	3E-07	8E-08	1E-06	5E-06	8E-08	1E-06			1E-06			2E-05
Cadmium	1E-06	3E-06	2E-06	8E-06	4E-07	5E-07	5E-08			1E-04			2E-04
Chromium VI	3E-10	2E-10	1E-10	8E-10	1E-08	8E-08	5E-10			1E-09			9E-08
Chromium III	1E-08	3E-10	3E-10	1E-09	3E-08	2E-07	7E-09			2E-12			2E-07
Cobalt	4E-09	3E-09	2E-11	7E-09	3E-07	7E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												6E-04	
Selenium	3E-09	9E-09	9E-09	3E-08	2E-07	8E-06	6E-07			1E-04			1E-04
Chlorine												4E-04	
Methylmercury - Developmental Effects	4E-07	9E-05	4E-07	1E-04	2E-04	1E-03	3E-08			7E-04			3E-03
Methylmercury - Neurological Effects	1E-07	3E-05	1E-07	3E-05	7E-05	5E-04	1E-08			2E-04			8E-04

Table IX-A23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-11	4E-11	3E-11	6E-11	2E-08	3E-08	1E-09	7E-09	5E-09	7E-09		1E-10	7E-08
Nickel												6E-11	
Arsenic	3E-10	1E-09	5E-10	2E-09	7E-09	2E-09	3E-10			1E-08		4E-08	3E-08
Beryllium												9E-09	
Cadmium												2E-09	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-09	8E-08	4E-08	1E-07	2E-08	2E-07	1E-09			0E+00		5E-04	5E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	3E-06	3E-04	3E-06	6E-04	3E-04	8E-04	1E-07			0E+00			2E-03
Nickel	8E-10	4E-09	2E-09	8E-09	1E-07	2E-07	3E-09			1E-08			3E-07
Silver	2E-10	3E-08	7E-09	6E-08	5E-07	3E-05	9E-09			0E+00			3E-05
Thallium	2E-08	2E-08	1E-09	5E-08	6E-06	3E-06	4E-07			7E-06			2E-05
Antimony	8E-10	3E-08	8E-09	6E-08	1E-07	1E-07	2E-09			0E+00			3E-07
Arsenic	3E-06	1E-05	6E-06	2E-05	7E-05	2E-05	3E-06			1E-04			3E-04
Barium	2E-07	2E-07	4E-08	3E-07	9E-08	2E-06	8E-09			0E+00		7E-05	3E-06
Beryllium	3E-06	5E-07	9E-08	9E-07	5E-06	4E-08	1E-06			1E-06			1E-05
Cadmium	4E-07	5E-06	2E-06	7E-06	4E-07	2E-07	4E-08			2E-04			2E-04
Chromium VI	1E-10	3E-10	1E-10	8E-10	1E-08	3E-08	4E-10			1E-09			5E-08
Chromium III	4E-09	5E-10	3E-10	1E-09	3E-08	7E-08	6E-09			2E-12			1E-07
Cobalt	2E-09	3E-09	2E-11	7E-09	3E-07	3E-07	1E-08			0E+00			6E-07
Hydrogen Chloride												6E-04	
Selenium	1E-09	1E-08	1E-08	3E-08	3E-07	4E-06	5E-07			2E-04			2E-04
Chlorine												4E-04	
Methylmercury - Developmental Effects	2E-07	1E-04	4E-07	9E-05	3E-04	6E-04	3E-08			8E-04			2E-03
Methylmercury - Neurological Effects	6E-08	4E-05	1E-07	3E-05	8E-05	2E-04	9E-09			3E-04			6E-04

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Flat Creek	3E-10	2E-08	0E+00	9E-11	2E-08
2,3,7,8-TCDD-TEQ	Salt Creek	3E-10	4E-08	0E+00	9E-11	4E-08
2,3,7,8-TCDD-TEQ	Calion Lake	3E-10	2E-08	0E+00	9E-11	2E-08
2,3,7,8-TCDD-TEQ	Ouachita River	3E-10	2E-10	0E+00	9E-11	5E-10
Nickel	Flat Creek				5E-11	
Nickel	Salt Creek				5E-11	
Nickel	Calion Lake				5E-11	
Nickel	Ouachita River				5E-11	
Arsenic	Flat Creek	2E-09	4E-09	0E+00	4E-08	7E-09
Arsenic	Salt Creek	2E-09	1E-08	0E+00	4E-08	2E-08
Arsenic	Calion Lake	2E-09	4E-09	0E+00	4E-08	6E-09
Arsenic	Ouachita River	2E-09	5E-11	0E+00	4E-08	2E-09
Beryllium	Flat Creek				8E-09	
Beryllium	Salt Creek				8E-09	
Beryllium	Calion Lake				8E-09	
Beryllium	Ouachita River				8E-09	
Cadmium	Flat Creek				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Calion Lake				2E-09	
Cadmium	Ouachita River				2E-09	
Chromium VI	Flat Creek				1E-10	
Chromium VI	Salt Creek				1E-10	
Chromium VI	Calion Lake				1E-10	
Chromium VI	Ouachita River				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Flat Creek	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Salt Creek	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Calion Lake	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Ouachita River	1E-07	0E+00	0E+00	5E-04	1E-07
Mercury (elemental)	Flat Creek				2E-04	
Mercury (elemental)	Salt Creek				2E-04	
Mercury (elemental)	Calion Lake				2E-04	
Mercury (elemental)	Ouachita River				2E-04	
Mercury (divalent)	Flat Creek	5E-05		0E+00		5E-05
Mercury (divalent)	Salt Creek	5E-05		0E+00		5E-05
Mercury (divalent)	Calion Lake	5E-05		0E+00		5E-05
Mercury (divalent)	Ouachita River	5E-05		0E+00		5E-05
Nickel	Flat Creek	1E-08	8E-09	0E+00		2E-08
Nickel	Salt Creek	1E-08	3E-08	0E+00		4E-08
Nickel	Calion Lake	1E-08	8E-09	0E+00		2E-08
Nickel	Ouachita River	1E-08	9E-11	0E+00		1E-08
Silver	Flat Creek	4E-09	0E+00	0E+00		4E-09
Silver	Salt Creek	4E-09	0E+00	0E+00		4E-09
Silver	Calion Lake	4E-09	0E+00	0E+00		4E-09
Silver	Ouachita River	4E-09	0E+00	0E+00		4E-09
Thallium	Flat Creek	4E-07	7E-06	0E+00		7E-06
Thallium	Salt Creek	4E-07	2E-05	0E+00		2E-05
Thallium	Calion Lake	4E-07	6E-06	0E+00		7E-06
Thallium	Ouachita River	4E-07	7E-08	0E+00		5E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Flat Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Salt Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Calion Lake	1E-08	0E+00	0E+00		1E-08
Antimony	Ouachita River	1E-08	0E+00	0E+00		1E-08
Arsenic	Flat Creek	5E-05	1E-04	0E+00		2E-04
Arsenic	Salt Creek	5E-05	4E-04	0E+00		4E-04
Arsenic	Calion Lake	5E-05	1E-04	0E+00		2E-04
Arsenic	Ouachita River	5E-05	1E-06	0E+00		5E-05
Barium	Flat Creek	3E-06	0E+00	0E+00	7E-05	3E-06
Barium	Salt Creek	3E-06	0E+00	0E+00	7E-05	3E-06
Barium	Calion Lake	3E-06	0E+00	0E+00	7E-05	3E-06
Barium	Ouachita River	3E-06	0E+00	0E+00	7E-05	3E-06
Beryllium	Flat Creek	6E-05	1E-05	0E+00		7E-05
Beryllium	Salt Creek	6E-05	3E-05	0E+00		1E-04
Beryllium	Calion Lake	6E-05	1E-05	0E+00		7E-05
Beryllium	Ouachita River	6E-05	1E-07	0E+00		6E-05
Cadmium	Flat Creek	7E-06	2E-04	0E+00		2E-04
Cadmium	Salt Creek	7E-06	6E-04	0E+00		6E-04
Cadmium	Calion Lake	7E-06	2E-04	0E+00		2E-04
Cadmium	Ouachita River	7E-06	2E-06	0E+00		9E-06
Chromium VI	Flat Creek	2E-09	1E-09	0E+00		3E-09
Chromium VI	Salt Creek	2E-09	3E-09	0E+00		5E-09
Chromium VI	Calion Lake	2E-09	9E-10	0E+00		3E-09
Chromium VI	Ouachita River	2E-09	1E-11	0E+00		2E-09
Chromium III	Flat Creek	7E-08	4E-10	0E+00		7E-08
Chromium III	Salt Creek	7E-08	1E-09	0E+00		7E-08
Chromium III	Calion Lake	7E-08	3E-10	0E+00		7E-08
Chromium III	Ouachita River	7E-08	3E-12	0E+00		7E-08
Cobalt	Flat Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Salt Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Calion Lake	3E-08	0E+00	0E+00		3E-08
Cobalt	Ouachita River	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Flat Creek				6E-04	
Hydrogen Chloride	Salt Creek				6E-04	
Hydrogen Chloride	Calion Lake				6E-04	
Hydrogen Chloride	Ouachita River				6E-04	
Selenium	Flat Creek	3E-08	1E-04	0E+00		1E-04
Selenium	Salt Creek	3E-08	3E-04	0E+00		3E-04
Selenium	Calion Lake	3E-08	1E-04	0E+00		1E-04
Selenium	Ouachita River	3E-08	1E-06	0E+00		1E-06
Chlorine	Flat Creek				4E-04	
Chlorine	Salt Creek				4E-04	
Chlorine	Calion Lake				4E-04	
Chlorine	Ouachita River				4E-04	
Methylmercury - Developmental Effects	Flat Creek	3E-06	0E+00	0E+00		3E-06
Methylmercury - Developmental Effects	Salt Creek	3E-06	0E+00	0E+00		3E-06
Methylmercury - Developmental Effects	Calion Lake	3E-06	0E+00	0E+00		3E-06
Methylmercury - Developmental Effects	Ouachita River	3E-06	0E+00	0E+00		3E-06

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Flat Creek	1E-06	0E+00	0E+00		1E-06
Methylmercury - Neurological Effects	Salt Creek	1E-06	0E+00	0E+00		1E-06
Methylmercury - Neurological Effects	Calion Lake	1E-06	0E+00	0E+00		1E-06
Methylmercury - Neurological Effects	Ouachita River	1E-06	0E+00	0E+00		1E-06

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Flat Creek	1E-10	2E-08	0E+00	1E-10	2E-08
2,3,7,8-TCDD-TEQ	Salt Creek	1E-10	6E-08	0E+00	1E-10	6E-08
2,3,7,8-TCDD-TEQ	Calion Lake	1E-10	3E-08	0E+00	1E-10	3E-08
2,3,7,8-TCDD-TEQ	Ouachita River	1E-10	2E-10	0E+00	1E-10	3E-10
Nickel	Flat Creek				6E-11	
Nickel	Salt Creek				6E-11	
Nickel	Calion Lake				6E-11	
Nickel	Ouachita River				6E-11	
Arsenic	Flat Creek	8E-10	6E-09	0E+00	4E-08	7E-09
Arsenic	Salt Creek	8E-10	2E-08	0E+00	4E-08	2E-08
Arsenic	Calion Lake	8E-10	6E-09	0E+00	4E-08	7E-09
Arsenic	Ouachita River	8E-10	7E-11	0E+00	4E-08	8E-10
Beryllium	Flat Creek				9E-09	
Beryllium	Salt Creek				9E-09	
Beryllium	Calion Lake				9E-09	
Beryllium	Ouachita River				9E-09	
Cadmium	Flat Creek				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Calion Lake				2E-09	
Cadmium	Ouachita River				2E-09	
Chromium VI	Flat Creek				1E-10	
Chromium VI	Salt Creek				1E-10	
Chromium VI	Calion Lake				1E-10	
Chromium VI	Ouachita River				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Flat Creek	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Salt Creek	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Calion Lake	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Ouachita River	3E-08	0E+00	0E+00	5E-04	3E-08
Mercury (elemental)	Flat Creek				2E-04	
Mercury (elemental)	Salt Creek				2E-04	
Mercury (elemental)	Calion Lake				2E-04	
Mercury (elemental)	Ouachita River				2E-04	
Mercury (divalent)	Flat Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Salt Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Calion Lake	1E-05		0E+00		1E-05
Mercury (divalent)	Ouachita River	1E-05		0E+00		1E-05
Nickel	Flat Creek	4E-09	8E-09	0E+00		1E-08
Nickel	Salt Creek	4E-09	3E-08	0E+00		3E-08
Nickel	Calion Lake	4E-09	8E-09	0E+00		1E-08
Nickel	Ouachita River	4E-09	9E-11	0E+00		4E-09
Silver	Flat Creek	1E-09	0E+00	0E+00		1E-09
Silver	Salt Creek	1E-09	0E+00	0E+00		1E-09
Silver	Calion Lake	1E-09	0E+00	0E+00		1E-09
Silver	Ouachita River	1E-09	0E+00	0E+00		1E-09
Thallium	Flat Creek	1E-07	7E-06	0E+00		7E-06
Thallium	Salt Creek	1E-07	2E-05	0E+00		2E-05
Thallium	Calion Lake	1E-07	6E-06	0E+00		6E-06
Thallium	Ouachita River	1E-07	7E-08	0E+00		2E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Flat Creek	4E-09	0E+00	0E+00		4E-09
Antimony	Salt Creek	4E-09	0E+00	0E+00		4E-09
Antimony	Calion Lake	4E-09	0E+00	0E+00		4E-09
Antimony	Ouachita River	4E-09	0E+00	0E+00		4E-09
Arsenic	Flat Creek	1E-05	1E-04	0E+00		1E-04
Arsenic	Salt Creek	1E-05	4E-04	0E+00		4E-04
Arsenic	Calion Lake	1E-05	1E-04	0E+00		1E-04
Arsenic	Ouachita River	1E-05	1E-06	0E+00		2E-05
Barium	Flat Creek	8E-07	0E+00	0E+00	7E-05	8E-07
Barium	Salt Creek	8E-07	0E+00	0E+00	7E-05	8E-07
Barium	Calion Lake	8E-07	0E+00	0E+00	7E-05	8E-07
Barium	Ouachita River	8E-07	0E+00	0E+00	7E-05	8E-07
Beryllium	Flat Creek	2E-05	1E-05	0E+00		3E-05
Beryllium	Salt Creek	2E-05	3E-05	0E+00		5E-05
Beryllium	Calion Lake	2E-05	1E-05	0E+00		3E-05
Beryllium	Ouachita River	2E-05	1E-07	0E+00		2E-05
Cadmium	Flat Creek	2E-06	2E-04	0E+00		2E-04
Cadmium	Salt Creek	2E-06	6E-04	0E+00		6E-04
Cadmium	Calion Lake	2E-06	2E-04	0E+00		2E-04
Cadmium	Ouachita River	2E-06	2E-06	0E+00		4E-06
Chromium VI	Flat Creek	5E-10	1E-09	0E+00		1E-09
Chromium VI	Salt Creek	5E-10	3E-09	0E+00		4E-09
Chromium VI	Calion Lake	5E-10	9E-10	0E+00		1E-09
Chromium VI	Ouachita River	5E-10	1E-11	0E+00		5E-10
Chromium III	Flat Creek	2E-08	4E-10	0E+00		2E-08
Chromium III	Salt Creek	2E-08	1E-09	0E+00		2E-08
Chromium III	Calion Lake	2E-08	3E-10	0E+00		2E-08
Chromium III	Ouachita River	2E-08	3E-12	0E+00		2E-08
Cobalt	Flat Creek	7E-09	0E+00	0E+00		7E-09
Cobalt	Salt Creek	7E-09	0E+00	0E+00		7E-09
Cobalt	Calion Lake	7E-09	0E+00	0E+00		7E-09
Cobalt	Ouachita River	7E-09	0E+00	0E+00		7E-09
Hydrogen Chloride	Flat Creek				6E-04	
Hydrogen Chloride	Salt Creek				6E-04	
Hydrogen Chloride	Calion Lake				6E-04	
Hydrogen Chloride	Ouachita River				6E-04	
Selenium	Flat Creek	7E-09	1E-04	0E+00		1E-04
Selenium	Salt Creek	7E-09	3E-04	0E+00		3E-04
Selenium	Calion Lake	7E-09	1E-04	0E+00		1E-04
Selenium	Ouachita River	7E-09	1E-06	0E+00		1E-06
Chlorine	Flat Creek				4E-04	
Chlorine	Salt Creek				4E-04	
Chlorine	Calion Lake				4E-04	
Chlorine	Ouachita River				4E-04	
Methylmercury - Developmental Effects	Flat Creek	8E-07	0E+00	0E+00		8E-07
Methylmercury - Developmental Effects	Salt Creek	8E-07	0E+00	0E+00		8E-07
Methylmercury - Developmental Effects	Calion Lake	8E-07	0E+00	0E+00		8E-07
Methylmercury - Developmental Effects	Ouachita River	8E-07	0E+00	0E+00		8E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Flat Creek	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Salt Creek	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Calion Lake	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Ouachita River	3E-07	0E+00	0E+00		3E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Flat Creek	7E-11	2E-08	0E+00	7E-11	2E-08
2,3,7,8-TCDD-TEQ	Salt Creek	7E-11	4E-08	0E+00	7E-11	4E-08
2,3,7,8-TCDD-TEQ	Calion Lake	7E-11	2E-08	0E+00	7E-11	2E-08
2,3,7,8-TCDD-TEQ	Ouachita River	7E-11	2E-10	0E+00	7E-11	2E-10
Nickel	Flat Creek				4E-11	
Nickel	Salt Creek				4E-11	
Nickel	Calion Lake				4E-11	
Nickel	Ouachita River				4E-11	
Arsenic	Flat Creek	4E-10	4E-09	0E+00	3E-08	5E-09
Arsenic	Salt Creek	4E-10	1E-08	0E+00	3E-08	1E-08
Arsenic	Calion Lake	4E-10	4E-09	0E+00	3E-08	5E-09
Arsenic	Ouachita River	4E-10	5E-11	0E+00	3E-08	5E-10
Beryllium	Flat Creek				6E-09	
Beryllium	Salt Creek				6E-09	
Beryllium	Calion Lake				6E-09	
Beryllium	Ouachita River				6E-09	
Cadmium	Flat Creek				1E-09	
Cadmium	Salt Creek				1E-09	
Cadmium	Calion Lake				1E-09	
Cadmium	Ouachita River				1E-09	
Chromium VI	Flat Creek				8E-11	
Chromium VI	Salt Creek				8E-11	
Chromium VI	Calion Lake				8E-11	
Chromium VI	Ouachita River				8E-11	
	Noncarcinogenic Chemicals					
Manganese	Flat Creek	1E-08	0E+00	0E+00	5E-04	1E-08
Manganese	Salt Creek	1E-08	0E+00	0E+00	5E-04	1E-08
Manganese	Calion Lake	1E-08	0E+00	0E+00	5E-04	1E-08
Manganese	Ouachita River	1E-08	0E+00	0E+00	5E-04	1E-08
Mercury (elemental)	Flat Creek				2E-04	
Mercury (elemental)	Salt Creek				2E-04	
Mercury (elemental)	Calion Lake				2E-04	
Mercury (elemental)	Ouachita River				2E-04	
Mercury (divalent)	Flat Creek	7E-06		0E+00		7E-06
Mercury (divalent)	Salt Creek	7E-06		0E+00		7E-06
Mercury (divalent)	Calion Lake	7E-06		0E+00		7E-06
Mercury (divalent)	Ouachita River	7E-06		0E+00		7E-06
Nickel	Flat Creek	2E-09	6E-09	0E+00		8E-09
Nickel	Salt Creek	2E-09	2E-08	0E+00		2E-08
Nickel	Calion Lake	2E-09	5E-09	0E+00		7E-09
Nickel	Ouachita River	2E-09	6E-11	0E+00		2E-09
Silver	Flat Creek	5E-10	0E+00	0E+00		5E-10
Silver	Salt Creek	5E-10	0E+00	0E+00		5E-10
Silver	Calion Lake	5E-10	0E+00	0E+00		5E-10
Silver	Ouachita River	5E-10	0E+00	0E+00		5E-10
Thallium	Flat Creek	6E-08	5E-06	0E+00		5E-06
Thallium	Salt Creek	6E-08	2E-05	0E+00		2E-05
Thallium	Calion Lake	6E-08	5E-06	0E+00		5E-06
Thallium	Ouachita River	6E-08	5E-08	0E+00		1E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Flat Creek	2E-09	0E+00	0E+00		2E-09
Antimony	Salt Creek	2E-09	0E+00	0E+00		2E-09
Antimony	Calion Lake	2E-09	0E+00	0E+00		2E-09
Antimony	Ouachita River	2E-09	0E+00	0E+00		2E-09
Arsenic	Flat Creek	7E-06	8E-05	0E+00		9E-05
Arsenic	Salt Creek	7E-06	3E-04	0E+00		3E-04
Arsenic	Calion Lake	7E-06	8E-05	0E+00		8E-05
Arsenic	Ouachita River	7E-06	9E-07	0E+00		8E-06
Barium	Flat Creek	4E-07	0E+00	0E+00	7E-05	4E-07
Barium	Salt Creek	4E-07	0E+00	0E+00	7E-05	4E-07
Barium	Calion Lake	4E-07	0E+00	0E+00	7E-05	4E-07
Barium	Ouachita River	4E-07	0E+00	0E+00	7E-05	4E-07
Beryllium	Flat Creek	8E-06	9E-06	0E+00		2E-05
Beryllium	Salt Creek	8E-06	2E-05	0E+00		3E-05
Beryllium	Calion Lake	8E-06	9E-06	0E+00		2E-05
Beryllium	Ouachita River	8E-06	8E-08	0E+00		8E-06
Cadmium	Flat Creek	1E-06	1E-04	0E+00		1E-04
Cadmium	Salt Creek	1E-06	4E-04	0E+00		4E-04
Cadmium	Calion Lake	1E-06	1E-04	0E+00		1E-04
Cadmium	Ouachita River	1E-06	1E-06	0E+00		2E-06
Chromium VI	Flat Creek	3E-10	7E-10	0E+00		1E-09
Chromium VI	Salt Creek	3E-10	2E-09	0E+00		2E-09
Chromium VI	Calion Lake	3E-10	7E-10	0E+00		9E-10
Chromium VI	Ouachita River	3E-10	8E-12	0E+00		3E-10
Chromium III	Flat Creek	1E-08	3E-10	0E+00		1E-08
Chromium III	Salt Creek	1E-08	7E-10	0E+00		1E-08
Chromium III	Calion Lake	1E-08	2E-10	0E+00		1E-08
Chromium III	Ouachita River	1E-08	2E-12	0E+00		1E-08
Cobalt	Flat Creek	4E-09	0E+00	0E+00		4E-09
Cobalt	Salt Creek	4E-09	0E+00	0E+00		4E-09
Cobalt	Calion Lake	4E-09	0E+00	0E+00		4E-09
Cobalt	Ouachita River	4E-09	0E+00	0E+00		4E-09
Hydrogen Chloride	Flat Creek				6E-04	
Hydrogen Chloride	Salt Creek				6E-04	
Hydrogen Chloride	Calion Lake				6E-04	
Hydrogen Chloride	Ouachita River				6E-04	
Selenium	Flat Creek	3E-09	7E-05	0E+00		7E-05
Selenium	Salt Creek	3E-09	2E-04	0E+00		2E-04
Selenium	Calion Lake	3E-09	7E-05	0E+00		7E-05
Selenium	Ouachita River	3E-09	8E-07	0E+00		8E-07
Chlorine	Flat Creek				4E-04	
Chlorine	Salt Creek				4E-04	
Chlorine	Calion Lake				4E-04	
Chlorine	Ouachita River				4E-04	
Methylmercury - Developmental Effects	Flat Creek	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Salt Creek	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Calion Lake	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Ouachita River	4E-07	0E+00	0E+00		4E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Flat Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Salt Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Calion Lake	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Ouachita River	1E-07	0E+00	0E+00		1E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Flat Creek	5E-11	3E-08	0E+00	1E-10	3E-08
2,3,7,8-TCDD-TEQ	Salt Creek	5E-11	8E-08	0E+00	1E-10	8E-08
2,3,7,8-TCDD-TEQ	Calion Lake	5E-11	5E-08	0E+00	1E-10	5E-08
2,3,7,8-TCDD-TEQ	Ouachita River	5E-11	3E-10	0E+00	1E-10	3E-10
Nickel	Flat Creek				6E-11	
Nickel	Salt Creek				6E-11	
Nickel	Calion Lake				6E-11	
Nickel	Ouachita River				6E-11	
Arsenic	Flat Creek	3E-10	9E-09	0E+00	4E-08	9E-09
Arsenic	Salt Creek	3E-10	3E-08	0E+00	4E-08	3E-08
Arsenic	Calion Lake	3E-10	8E-09	0E+00	4E-08	8E-09
Arsenic	Ouachita River	3E-10	1E-10	0E+00	4E-08	4E-10
Beryllium	Flat Creek				9E-09	
Beryllium	Salt Creek				9E-09	
Beryllium	Calion Lake				9E-09	
Beryllium	Ouachita River				9E-09	
Cadmium	Flat Creek				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Calion Lake				2E-09	
Cadmium	Ouachita River				2E-09	
Chromium VI	Flat Creek				1E-10	
Chromium VI	Salt Creek				1E-10	
Chromium VI	Calion Lake				1E-10	
Chromium VI	Ouachita River				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Flat Creek	6E-09	0E+00	0E+00	5E-04	6E-09
Manganese	Salt Creek	6E-09	0E+00	0E+00	5E-04	6E-09
Manganese	Calion Lake	6E-09	0E+00	0E+00	5E-04	6E-09
Manganese	Ouachita River	6E-09	0E+00	0E+00	5E-04	6E-09
Mercury (elemental)	Flat Creek				2E-04	
Mercury (elemental)	Salt Creek				2E-04	
Mercury (elemental)	Calion Lake				2E-04	
Mercury (elemental)	Ouachita River				2E-04	
Mercury (divalent)	Flat Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Salt Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Calion Lake	3E-06		0E+00		3E-06
Mercury (divalent)	Ouachita River	3E-06		0E+00		3E-06
Nickel	Flat Creek	8E-10	6E-09	0E+00		7E-09
Nickel	Salt Creek	8E-10	2E-08	0E+00		2E-08
Nickel	Calion Lake	8E-10	5E-09	0E+00		6E-09
Nickel	Ouachita River	8E-10	6E-11	0E+00		8E-10
Silver	Flat Creek	2E-10	0E+00	0E+00		2E-10
Silver	Salt Creek	2E-10	0E+00	0E+00		2E-10
Silver	Calion Lake	2E-10	0E+00	0E+00		2E-10
Silver	Ouachita River	2E-10	0E+00	0E+00		2E-10
Thallium	Flat Creek	2E-08	5E-06	0E+00		5E-06
Thallium	Salt Creek	2E-08	2E-05	0E+00		2E-05
Thallium	Calion Lake	2E-08	5E-06	0E+00		5E-06
Thallium	Ouachita River	2E-08	5E-08	0E+00		8E-08

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Flat Creek	8E-10	0E+00	0E+00		8E-10
Antimony	Salt Creek	8E-10	0E+00	0E+00		8E-10
Antimony	Calion Lake	8E-10	0E+00	0E+00		8E-10
Antimony	Ouachita River	8E-10	0E+00	0E+00		8E-10
Arsenic	Flat Creek	3E-06	8E-05	0E+00		8E-05
Arsenic	Salt Creek	3E-06	3E-04	0E+00		3E-04
Arsenic	Calion Lake	3E-06	8E-05	0E+00		8E-05
Arsenic	Ouachita River	3E-06	9E-07	0E+00		4E-06
Barium	Flat Creek	2E-07	0E+00	0E+00	7E-05	2E-07
Barium	Salt Creek	2E-07	0E+00	0E+00	7E-05	2E-07
Barium	Calion Lake	2E-07	0E+00	0E+00	7E-05	2E-07
Barium	Ouachita River	2E-07	0E+00	0E+00	7E-05	2E-07
Beryllium	Flat Creek	3E-06	9E-06	0E+00		1E-05
Beryllium	Salt Creek	3E-06	2E-05	0E+00		3E-05
Beryllium	Calion Lake	3E-06	9E-06	0E+00		1E-05
Beryllium	Ouachita River	3E-06	8E-08	0E+00		3E-06
Cadmium	Flat Creek	4E-07	1E-04	0E+00		1E-04
Cadmium	Salt Creek	4E-07	4E-04	0E+00		4E-04
Cadmium	Calion Lake	4E-07	1E-04	0E+00		1E-04
Cadmium	Ouachita River	4E-07	1E-06	0E+00		2E-06
Chromium VI	Flat Creek	1E-10	7E-10	0E+00		8E-10
Chromium VI	Salt Creek	1E-10	2E-09	0E+00		2E-09
Chromium VI	Calion Lake	1E-10	7E-10	0E+00		8E-10
Chromium VI	Ouachita River	1E-10	8E-12	0E+00		1E-10
Chromium III	Flat Creek	4E-09	3E-10	0E+00		4E-09
Chromium III	Salt Creek	4E-09	7E-10	0E+00		5E-09
Chromium III	Calion Lake	4E-09	2E-10	0E+00		4E-09
Chromium III	Ouachita River	4E-09	2E-12	0E+00		4E-09
Cobalt	Flat Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Salt Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Calion Lake	2E-09	0E+00	0E+00		2E-09
Cobalt	Ouachita River	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Flat Creek				6E-04	
Hydrogen Chloride	Salt Creek				6E-04	
Hydrogen Chloride	Calion Lake				6E-04	
Hydrogen Chloride	Ouachita River				6E-04	
Selenium	Flat Creek	1E-09	7E-05	0E+00		7E-05
Selenium	Salt Creek	1E-09	2E-04	0E+00		2E-04
Selenium	Calion Lake	1E-09	7E-05	0E+00		7E-05
Selenium	Ouachita River	1E-09	8E-07	0E+00		8E-07
Chlorine	Flat Creek				4E-04	
Chlorine	Salt Creek				4E-04	
Chlorine	Calion Lake				4E-04	
Chlorine	Ouachita River				4E-04	
Methylmercury - Developmental Effects	Flat Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Salt Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Calion Lake	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Ouachita River	2E-07	0E+00	0E+00		2E-07

Table IX-A24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 486, 487) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Flat Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Salt Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Calion Lake	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Ouachita River	6E-08	0E+00	0E+00		6E-08

Table IX-A25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	6E-10	4E-10	1E-09	3E-07	3E-06	3E-08	2E-07	1E-07	1E-07	3E-13	2E-09	4E-06
Nickel												3E-10	
Arsenic	3E-11	1E-11	5E-12	3E-11	7E-11	1E-10	5E-12			3E-10	1E-13	5E-10	5E-10
Beryllium												2E-10	
Cadmium												1E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	1E-07	5E-07	9E-08	5E-06	8E-09			0E+00	5E-10	1E-03	6E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	4E-05	8E-06	8E-05	1E-04	1E-03	2E-07				2E-08		1E-03
Nickel	8E-08	4E-08	2E-08	9E-08	9E-07	9E-06	5E-08			2E-07	5E-10		1E-05
Silver	1E-09	1E-08	4E-09	3E-08	2E-07	8E-05	7E-09			0E+00	3E-10		8E-05
Thallium	2E-05	1E-06	7E-08	3E-06	3E-04	9E-04	4E-05			8E-04	3E-08		2E-03
Antimony	7E-05	3E-04	7E-05	7E-04	1E-03	6E-03	4E-05			0E+00	4E-06		9E-03
Arsenic	8E-07	3E-07	1E-07	7E-07	2E-06	3E-06	1E-07			6E-06	3E-09		1E-05
Barium	3E-06	3E-07	6E-08	5E-07	1E-07	2E-05	2E-08			0E+00	3E-10	7E-05	2E-05
Beryllium	1E-06	2E-08	4E-09	5E-08	2E-07	8E-09	7E-08			1E-07	2E-10		2E-06
Cadmium	5E-06	5E-06	2E-06	9E-06	4E-07	2E-06	8E-08			3E-04	1E-08		4E-04
Chromium VI	1E-08	4E-09	2E-09	1E-08	1E-07	2E-06	8E-09			3E-08	1E-10		2E-06
Chromium III	2E-07	2E-09	2E-09	6E-09	2E-07	2E-06	5E-08			2E-11	2E-13		2E-06
Cobalt	7E-08	1E-08	7E-11	3E-08	1E-06	6E-06	1E-07			0E+00	2E-10		7E-06
Hydrogen Chloride												3E-03	
Selenium	2E-08	1E-08	1E-08	4E-08	3E-07	2E-05	1E-06			3E-04	4E-10		3E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	4E-06	1E-05	1E-06	1E-05	3E-05	4E-04	1E-08			3E-03	1E-10		3E-03
Methylmercury - Neurological Effects	1E-06	4E-06	4E-07	4E-06	9E-06	1E-04	5E-09			9E-04	3E-11		1E-03

Table IX-A25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	4E-10	4E-10	2E-09	5E-07	2E-06	3E-08	2E-07	1E-07	1E-07	2E-13	2E-09	3E-06
Nickel												3E-10	
Arsenic	1E-11	8E-12	4E-12	3E-11	1E-10	8E-11	4E-12			3E-10	1E-13	6E-10	5E-10
Beryllium												2E-10	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	5E-07	1E-07	2E-06	5E-09			0E+00	3E-10	1E-03	3E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	6E-06	7E-05	1E-04	6E-04	1E-07				1E-08		9E-04
Nickel	2E-08	2E-08	1E-08	9E-08	1E-06	4E-06	3E-08			2E-07	3E-10		6E-06
Silver	3E-10	7E-09	3E-09	3E-08	2E-07	4E-05	4E-09			0E+00	2E-10		4E-05
Thallium	4E-06	6E-07	5E-08	3E-06	4E-04	5E-04	2E-05			6E-04	2E-08		2E-03
Antimony	2E-05	2E-04	5E-05	7E-04	1E-03	3E-03	3E-05			0E+00	2E-06		5E-03
Arsenic	2E-07	2E-07	9E-08	6E-07	2E-06	2E-06	8E-08			5E-06	2E-09		9E-06
Barium	7E-07	1E-07	4E-08	5E-07	1E-07	8E-06	1E-08			0E+00	2E-10	7E-05	9E-06
Beryllium	4E-07	1E-08	3E-09	5E-08	2E-07	4E-09	4E-08			9E-08	1E-10		8E-07
Cadmium	1E-06	3E-06	2E-06	9E-06	5E-07	8E-07	5E-08			3E-04	6E-09		3E-04
Chromium VI	4E-09	2E-09	1E-09	1E-08	2E-07	1E-06	5E-09			2E-08	5E-11		1E-06
Chromium III	5E-08	1E-09	1E-09	6E-09	2E-07	1E-06	3E-08			2E-11	1E-13		1E-06
Cobalt	2E-08	7E-09	5E-11	3E-08	1E-06	3E-06	6E-08			0E+00	1E-10		4E-06
Hydrogen Chloride												3E-03	
Selenium	4E-09	7E-09	8E-09	4E-08	3E-07	1E-05	6E-07			2E-04	2E-10		2E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	1E-06	7E-06	8E-07	1E-05	3E-05	2E-04	9E-09			2E-03	6E-11		2E-03
Methylmercury - Neurological Effects	4E-07	2E-06	3E-07	4E-06	1E-05	7E-05	3E-09			7E-04	2E-11		8E-04

Table IX-A25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	3E-10	3E-10	9E-10	2E-07	1E-06	2E-08	1E-07	7E-08	8E-08	2E-13	2E-09	1E-06
Nickel												2E-10	
Arsenic	6E-12	7E-12	3E-12	2E-11	5E-11	4E-11	3E-12			1E-10	7E-14	4E-10	3E-10
Beryllium												1E-10	
Cadmium												8E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	7E-08	3E-07	5E-08	1E-06	3E-09			0E+00	2E-10	1E-03	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	1E-05	2E-05	4E-06	4E-05	6E-05	3E-04	7E-08			0E+00	7E-09		4E-04
Nickel	1E-08	2E-08	8E-09	5E-08	5E-07	2E-06	2E-08			9E-08	2E-10		3E-06
Silver	2E-10	6E-09	2E-09	2E-08	1E-07	2E-05	3E-09			0E+00	1E-10		2E-05
Thallium	2E-06	5E-07	3E-08	2E-06	2E-04	2E-04	2E-05			3E-04	1E-08		7E-04
Antimony	1E-05	1E-04	4E-05	4E-04	6E-04	1E-03	2E-05			0E+00	1E-06		3E-03
Arsenic	1E-07	1E-07	6E-08	3E-07	9E-07	7E-07	5E-08			2E-06	1E-09		5E-06
Barium	3E-07	1E-07	3E-08	3E-07	7E-08	4E-06	7E-09			0E+00	1E-10	7E-05	4E-06
Beryllium	2E-07	8E-09	2E-09	2E-08	1E-07	2E-09	3E-08			5E-08	9E-11		4E-07
Cadmium	7E-07	2E-06	1E-06	5E-06	2E-07	4E-07	3E-08			1E-04	4E-09		1E-04
Chromium VI	2E-09	2E-09	8E-10	5E-09	7E-08	5E-07	3E-09			1E-08	3E-11		6E-07
Chromium III	3E-08	1E-09	8E-10	3E-09	9E-08	5E-07	2E-08			1E-11	6E-14		6E-07
Cobalt	9E-09	6E-09	4E-11	2E-08	6E-07	1E-06	4E-08			0E+00	8E-11		2E-06
Hydrogen Chloride												3E-03	
Selenium	2E-09	6E-09	6E-09	2E-08	1E-07	5E-06	4E-07			1E-04	2E-10		1E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	6E-07	5E-06	5E-07	6E-06	2E-05	9E-05	6E-09			1E-03	4E-11		1E-03
Methylmercury - Neurological Effects	2E-07	2E-06	2E-07	2E-06	5E-06	3E-05	2E-09			4E-04	1E-11		4E-04

Table IX-A25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	9E-10	5E-10	2E-09	5E-07	8E-07	3E-08	2E-07	1E-07	2E-07	3E-13	2E-09	2E-06
Nickel												3E-10	
Arsenic	5E-12	2E-11	6E-12	3E-11	1E-10	3E-11	5E-12			3E-10	2E-13	5E-10	5E-10
Beryllium												2E-10	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	8E-08	3E-07	6E-08	5E-07	3E-09			0E+00	2E-10	1E-03	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	4E-06	2E-05	5E-06	4E-05	6E-05	1E-04	6E-08			0E+00	9E-09		3E-04
Nickel	5E-09	2E-08	9E-09	4E-08	5E-07	9E-07	2E-08			1E-07	2E-10		2E-06
Silver	6E-11	7E-09	2E-09	2E-08	1E-07	8E-06	2E-09			0E+00	1E-10		8E-06
Thallium	9E-07	6E-07	4E-08	1E-06	2E-04	1E-04	1E-05			4E-04	1E-08		7E-04
Antimony	4E-06	2E-04	4E-05	3E-04	6E-04	6E-04	1E-05			0E+00	2E-06		2E-03
Arsenic	4E-08	2E-07	7E-08	3E-07	1E-06	3E-07	4E-08			3E-06	1E-09		5E-06
Barium	1E-07	1E-07	4E-08	2E-07	7E-08	2E-06	6E-09			0E+00	1E-10	7E-05	2E-06
Beryllium	8E-08	1E-08	2E-09	2E-08	1E-07	8E-10	2E-08			5E-08	1E-10		3E-07
Cadmium	3E-07	3E-06	1E-06	4E-06	3E-07	2E-07	3E-08			1E-04	4E-09		2E-04
Chromium VI	8E-10	2E-09	9E-10	5E-09	8E-08	2E-07	3E-09			1E-08	4E-11		3E-07
Chromium III	1E-08	1E-09	9E-10	3E-09	1E-07	2E-07	2E-08			1E-11	7E-14		3E-07
Cobalt	4E-09	7E-09	4E-11	1E-08	7E-07	6E-07	3E-08			0E+00	9E-11		1E-06
Hydrogen Chloride												3E-03	
Selenium	9E-10	8E-09	7E-09	2E-08	2E-07	2E-06	3E-07			1E-04	2E-10		1E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	2E-07	7E-06	6E-07	6E-06	2E-05	4E-05	5E-09			1E-03	4E-11		1E-03
Methylmercury - Neurological Effects	8E-08	2E-06	2E-07	2E-06	6E-06	1E-05	2E-09			4E-04	1E-11		4E-04

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-08	7E-10	3E-13	2E-09	1E-08
2,3,7,8-TCDD-TEQ	Horseshoe Lake	1E-08	1E-07	3E-13	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Old Cahokia Creek	1E-08	4E-08	3E-13	2E-09	5E-08
Nickel	Mississippi River				3E-10	
Nickel	Horseshoe Lake				3E-10	
Nickel	Old Cahokia Creek				3E-10	
Arsenic	Mississippi River	3E-11	1E-14	1E-13	5E-10	3E-11
Arsenic	Horseshoe Lake	3E-11	2E-11	1E-13	5E-10	5E-11
Arsenic	Old Cahokia Creek	3E-11	7E-13	1E-13	5E-10	3E-11
Beryllium	Mississippi River				2E-10	
Beryllium	Horseshoe Lake				2E-10	
Beryllium	Old Cahokia Creek				2E-10	
Cadmium	Mississippi River				1E-09	
Cadmium	Horseshoe Lake				1E-09	
Cadmium	Old Cahokia Creek				1E-09	
Chromium VI	Mississippi River				6E-10	
Chromium VI	Horseshoe Lake				6E-10	
Chromium VI	Old Cahokia Creek				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-07	0E+00	5E-10	1E-03	2E-07
Manganese	Horseshoe Lake	2E-07	0E+00	5E-10	1E-03	2E-07
Manganese	Old Cahokia Creek	2E-07	0E+00	5E-10	1E-03	2E-07
Mercury (elemental)	Mississippi River				1E-05	
Mercury (elemental)	Horseshoe Lake				1E-05	
Mercury (elemental)	Old Cahokia Creek				1E-05	
Mercury (divalent)	Mississippi River	7E-05		2E-08		7E-05
Mercury (divalent)	Horseshoe Lake	7E-05		2E-08		7E-05
Mercury (divalent)	Old Cahokia Creek	7E-05		2E-08		7E-05
Nickel	Mississippi River	8E-08	1E-11	5E-10		8E-08
Nickel	Horseshoe Lake	8E-08	1E-08	5E-10		1E-07
Nickel	Old Cahokia Creek	8E-08	5E-10	5E-10		8E-08
Silver	Mississippi River	1E-09	0E+00	3E-10		1E-09
Silver	Horseshoe Lake	1E-09	0E+00	3E-10		1E-09
Silver	Old Cahokia Creek	1E-09	0E+00	3E-10		1E-09
Thallium	Mississippi River	2E-05	5E-08	3E-08		2E-05
Thallium	Horseshoe Lake	2E-05	7E-05	3E-08		9E-05
Thallium	Old Cahokia Creek	2E-05	3E-06	3E-08		2E-05
Antimony	Mississippi River	7E-05	0E+00	4E-06		8E-05
Antimony	Horseshoe Lake	7E-05	0E+00	4E-06		8E-05
Antimony	Old Cahokia Creek	7E-05	0E+00	4E-06		8E-05
Arsenic	Mississippi River	8E-07	4E-10	3E-09		8E-07
Arsenic	Horseshoe Lake	8E-07	5E-07	3E-09		1E-06
Arsenic	Old Cahokia Creek	8E-07	2E-08	3E-09		8E-07
Barium	Mississippi River	3E-06	0E+00	3E-10	7E-05	3E-06
Barium	Horseshoe Lake	3E-06	0E+00	3E-10	7E-05	3E-06
Barium	Old Cahokia Creek	3E-06	0E+00	3E-10	7E-05	3E-06
Beryllium	Mississippi River	1E-06	2E-10	2E-10		1E-06
Beryllium	Horseshoe Lake	1E-06	2E-07	2E-10		2E-06
Beryllium	Old Cahokia Creek	1E-06	1E-08	2E-10		1E-06

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	5E-06	3E-08	1E-08		5E-06
Cadmium	Horseshoe Lake	5E-06	4E-05	1E-08		4E-05
Cadmium	Old Cahokia Creek	5E-06	1E-06	1E-08		6E-06
Chromium VI	Mississippi River	1E-08	2E-12	1E-10		1E-08
Chromium VI	Horseshoe Lake	1E-08	2E-09	1E-10		2E-08
Chromium VI	Old Cahokia Creek	1E-08	8E-11	1E-10		1E-08
Chromium III	Mississippi River	2E-07	7E-13	2E-13		2E-07
Chromium III	Horseshoe Lake	2E-07	3E-10	2E-13		2E-07
Chromium III	Old Cahokia Creek	2E-07	5E-11	2E-13		2E-07
Cobalt	Mississippi River	7E-08	0E+00	2E-13		7E-08
Cobalt	Horseshoe Lake	7E-08	0E+00	2E-13		7E-08
Cobalt	Old Cahokia Creek	7E-08	0E+00	2E-13		7E-08
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Horseshoe Lake				3E-03	
Hydrogen Chloride	Old Cahokia Creek				3E-03	
Selenium	Mississippi River	2E-08	2E-08	4E-10		3E-08
Selenium	Horseshoe Lake	2E-08	2E-05	4E-10		2E-05
Selenium	Old Cahokia Creek	2E-08	8E-07	4E-10		8E-07
Chlorine	Mississippi River				8E-04	
Chlorine	Horseshoe Lake				8E-04	
Chlorine	Old Cahokia Creek				8E-04	
Methylmercury - Developmental Effects	Mississippi River	4E-06	2E-05	1E-10		2E-05
Methylmercury - Developmental Effects	Horseshoe Lake	4E-06	2E-03	1E-10		2E-03
Methylmercury - Developmental Effects	Old Cahokia Creek	4E-06	9E-04	1E-10		9E-04
Methylmercury - Neurological Effects	Mississippi River	1E-06	5E-06	3E-11		6E-06
Methylmercury - Neurological Effects	Horseshoe Lake	1E-06	6E-04	3E-11		6E-04
Methylmercury - Neurological Effects	Old Cahokia Creek	1E-06	3E-04	3E-11		3E-04

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	4E-09	9E-10	2E-13	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Horseshoe Lake	4E-09	2E-07	2E-13	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Old Cahokia Creek	4E-09	6E-08	2E-13	2E-09	6E-08
Nickel	Mississippi River				3E-10	
Nickel	Horseshoe Lake				3E-10	
Nickel	Old Cahokia Creek				3E-10	
Arsenic	Mississippi River	1E-11	2E-14	1E-13	6E-10	1E-11
Arsenic	Horseshoe Lake	1E-11	3E-11	1E-13	6E-10	4E-11
Arsenic	Old Cahokia Creek	1E-11	9E-13	1E-13	6E-10	1E-11
Beryllium	Mississippi River				2E-10	
Beryllium	Horseshoe Lake				2E-10	
Beryllium	Old Cahokia Creek				2E-10	
Cadmium	Mississippi River				1E-09	
Cadmium	Horseshoe Lake				1E-09	
Cadmium	Old Cahokia Creek				1E-09	
Chromium VI	Mississippi River				7E-10	
Chromium VI	Horseshoe Lake				7E-10	
Chromium VI	Old Cahokia Creek				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	6E-08	0E+00	3E-10	1E-03	7E-08
Manganese	Horseshoe Lake	6E-08	0E+00	3E-10	1E-03	7E-08
Manganese	Old Cahokia Creek	6E-08	0E+00	3E-10	1E-03	7E-08
Mercury (elemental)	Mississippi River				1E-05	
Mercury (elemental)	Horseshoe Lake				1E-05	
Mercury (elemental)	Old Cahokia Creek				1E-05	
Mercury (divalent)	Mississippi River	2E-05		1E-08		2E-05
Mercury (divalent)	Horseshoe Lake	2E-05		1E-08		2E-05
Mercury (divalent)	Old Cahokia Creek	2E-05		1E-08		2E-05
Nickel	Mississippi River	2E-08	1E-11	3E-10		2E-08
Nickel	Horseshoe Lake	2E-08	1E-08	3E-10		4E-08
Nickel	Old Cahokia Creek	2E-08	5E-10	3E-10		2E-08
Silver	Mississippi River	3E-10	0E+00	2E-10		5E-10
Silver	Horseshoe Lake	3E-10	0E+00	2E-10		5E-10
Silver	Old Cahokia Creek	3E-10	0E+00	2E-10		5E-10
Thallium	Mississippi River	4E-06	5E-08	2E-08		4E-06
Thallium	Horseshoe Lake	4E-06	7E-05	2E-08		8E-05
Thallium	Old Cahokia Creek	4E-06	3E-06	2E-08		7E-06
Antimony	Mississippi River	2E-05	0E+00	2E-06		2E-05
Antimony	Horseshoe Lake	2E-05	0E+00	2E-06		2E-05
Antimony	Old Cahokia Creek	2E-05	0E+00	2E-06		2E-05
Arsenic	Mississippi River	2E-07	4E-10	2E-09		2E-07
Arsenic	Horseshoe Lake	2E-07	5E-07	2E-09		7E-07
Arsenic	Old Cahokia Creek	2E-07	2E-08	2E-09		2E-07
Barium	Mississippi River	7E-07	0E+00	2E-10	7E-05	7E-07
Barium	Horseshoe Lake	7E-07	0E+00	2E-10	7E-05	7E-07
Barium	Old Cahokia Creek	7E-07	0E+00	2E-10	7E-05	7E-07
Beryllium	Mississippi River	4E-07	2E-10	1E-10		4E-07
Beryllium	Horseshoe Lake	4E-07	2E-07	1E-10		6E-07
Beryllium	Old Cahokia Creek	4E-07	1E-08	1E-10		4E-07

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	1E-06	3E-08	6E-09		1E-06
Cadmium	Horseshoe Lake	1E-06	4E-05	6E-09		4E-05
Cadmium	Old Cahokia Creek	1E-06	1E-06	6E-09		3E-06
Chromium VI	Mississippi River	4E-09	2E-12	5E-11		4E-09
Chromium VI	Horseshoe Lake	4E-09	2E-09	5E-11		6E-09
Chromium VI	Old Cahokia Creek	4E-09	8E-11	5E-11		4E-09
Chromium III	Mississippi River	5E-08	7E-13	1E-13		5E-08
Chromium III	Horseshoe Lake	5E-08	3E-10	1E-13		6E-08
Chromium III	Old Cahokia Creek	5E-08	5E-11	1E-13		5E-08
Cobalt	Mississippi River	2E-08	0E+00	1E-13		2E-08
Cobalt	Horseshoe Lake	2E-08	0E+00	1E-13		2E-08
Cobalt	Old Cahokia Creek	2E-08	0E+00	1E-13		2E-08
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Horseshoe Lake				3E-03	
Hydrogen Chloride	Old Cahokia Creek				3E-03	
Selenium	Mississippi River	4E-09	2E-08	2E-10		2E-08
Selenium	Horseshoe Lake	4E-09	2E-05	2E-10		2E-05
Selenium	Old Cahokia Creek	4E-09	8E-07	2E-10		8E-07
Chlorine	Mississippi River				8E-04	
Chlorine	Horseshoe Lake				8E-04	
Chlorine	Old Cahokia Creek				8E-04	
Methylmercury - Developmental Effects	Mississippi River	1E-06	2E-05	6E-11		2E-05
Methylmercury - Developmental Effects	Horseshoe Lake	1E-06	2E-03	6E-11		2E-03
Methylmercury - Developmental Effects	Old Cahokia Creek	1E-06	9E-04	6E-11		9E-04
Methylmercury - Neurological Effects	Mississippi River	4E-07	5E-06	2E-11		5E-06
Methylmercury - Neurological Effects	Horseshoe Lake	4E-07	6E-04	2E-11		6E-04
Methylmercury - Neurological Effects	Old Cahokia Creek	4E-07	3E-04	2E-11		3E-04

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-09	7E-10	2E-13	2E-09	3E-09
2,3,7,8-TCDD-TEQ	Horseshoe Lake	2E-09	1E-07	2E-13	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Old Cahokia Creek	2E-09	4E-08	2E-13	2E-09	4E-08
Nickel	Mississippi River				2E-10	
Nickel	Horseshoe Lake				2E-10	
Nickel	Old Cahokia Creek				2E-10	
Arsenic	Mississippi River	6E-12	1E-14	7E-14	4E-10	6E-12
Arsenic	Horseshoe Lake	6E-12	2E-11	7E-14	4E-10	3E-11
Arsenic	Old Cahokia Creek	6E-12	7E-13	7E-14	4E-10	7E-12
Beryllium	Mississippi River				1E-10	
Beryllium	Horseshoe Lake				1E-10	
Beryllium	Old Cahokia Creek				1E-10	
Cadmium	Mississippi River				8E-10	
Cadmium	Horseshoe Lake				8E-10	
Cadmium	Old Cahokia Creek				8E-10	
Chromium VI	Mississippi River				5E-10	
Chromium VI	Horseshoe Lake				5E-10	
Chromium VI	Old Cahokia Creek				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	3E-08	0E+00	2E-10	1E-03	3E-08
Manganese	Horseshoe Lake	3E-08	0E+00	2E-10	1E-03	3E-08
Manganese	Old Cahokia Creek	3E-08	0E+00	2E-10	1E-03	3E-08
Mercury (elemental)	Mississippi River				1E-05	
Mercury (elemental)	Horseshoe Lake				1E-05	
Mercury (elemental)	Old Cahokia Creek				1E-05	
Mercury (divalent)	Mississippi River	1E-05		7E-09		1E-05
Mercury (divalent)	Horseshoe Lake	1E-05		7E-09		1E-05
Mercury (divalent)	Old Cahokia Creek	1E-05		7E-09		1E-05
Nickel	Mississippi River	1E-08	8E-12	2E-10		1E-08
Nickel	Horseshoe Lake	1E-08	1E-08	2E-10		2E-08
Nickel	Old Cahokia Creek	1E-08	4E-10	2E-10		1E-08
Silver	Mississippi River	2E-10	0E+00	1E-10		3E-10
Silver	Horseshoe Lake	2E-10	0E+00	1E-10		3E-10
Silver	Old Cahokia Creek	2E-10	0E+00	1E-10		3E-10
Thallium	Mississippi River	2E-06	4E-08	1E-08		2E-06
Thallium	Horseshoe Lake	2E-06	5E-05	1E-08		5E-05
Thallium	Old Cahokia Creek	2E-06	2E-06	1E-08		4E-06
Antimony	Mississippi River	1E-05	0E+00	1E-06		1E-05
Antimony	Horseshoe Lake	1E-05	0E+00	1E-06		1E-05
Antimony	Old Cahokia Creek	1E-05	0E+00	1E-06		1E-05
Arsenic	Mississippi River	1E-07	3E-10	1E-09		1E-07
Arsenic	Horseshoe Lake	1E-07	4E-07	1E-09		5E-07
Arsenic	Old Cahokia Creek	1E-07	1E-08	1E-09		1E-07
Barium	Mississippi River	3E-07	0E+00	1E-10	7E-05	3E-07
Barium	Horseshoe Lake	3E-07	0E+00	1E-10	7E-05	3E-07
Barium	Old Cahokia Creek	3E-07	0E+00	1E-10	7E-05	3E-07
Beryllium	Mississippi River	2E-07	1E-10	9E-11		2E-07
Beryllium	Horseshoe Lake	2E-07	1E-07	9E-11		3E-07
Beryllium	Old Cahokia Creek	2E-07	9E-09	9E-11		2E-07

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	7E-07	2E-08	4E-09		7E-07
Cadmium	Horseshoe Lake	7E-07	3E-05	4E-09		3E-05
Cadmium	Old Cahokia Creek	7E-07	1E-06	4E-09		2E-06
Chromium VI	Mississippi River	2E-09	1E-12	3E-11		2E-09
Chromium VI	Horseshoe Lake	2E-09	2E-09	3E-11		4E-09
Chromium VI	Old Cahokia Creek	2E-09	6E-11	3E-11		2E-09
Chromium III	Mississippi River	3E-08	5E-13	6E-14		3E-08
Chromium III	Horseshoe Lake	3E-08	2E-10	6E-14		3E-08
Chromium III	Old Cahokia Creek	3E-08	4E-11	6E-14		3E-08
Cobalt	Mississippi River	9E-09	0E+00	8E-11		9E-09
Cobalt	Horseshoe Lake	9E-09	0E+00	8E-11		9E-09
Cobalt	Old Cahokia Creek	9E-09	0E+00	8E-11		9E-09
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Horseshoe Lake				3E-03	
Hydrogen Chloride	Old Cahokia Creek				3E-03	
Selenium	Mississippi River	2E-09	1E-08	2E-10		1E-08
Selenium	Horseshoe Lake	2E-09	2E-05	2E-10		2E-05
Selenium	Old Cahokia Creek	2E-09	5E-07	2E-10		5E-07
Chlorine	Mississippi River				8E-04	
Chlorine	Horseshoe Lake				8E-04	
Chlorine	Old Cahokia Creek				8E-04	
Methylmercury - Developmental Effects	Mississippi River	6E-07	1E-05	4E-11		1E-05
Methylmercury - Developmental Effects	Horseshoe Lake	6E-07	1E-03	4E-11		1E-03
Methylmercury - Developmental Effects	Old Cahokia Creek	6E-07	6E-04	4E-11		6E-04
Methylmercury - Neurological Effects	Mississippi River	2E-07	4E-06	1E-11		4E-06
Methylmercury - Neurological Effects	Horseshoe Lake	2E-07	4E-04	1E-11		4E-04
Methylmercury - Neurological Effects	Old Cahokia Creek	2E-07	2E-04	1E-11		2E-04

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std: Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-09	1E-09	3E-13	2E-09	3E-09
2,3,7,8-TCDD-TEQ	Horseshoe Lake	2E-09	2E-07	3E-13	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Old Cahokia Creek	2E-09	8E-08	3E-13	2E-09	8E-08
Nickel	Mississippi River				3E-10	
Nickel	Horseshoe Lake				3E-10	
Nickel	Old Cahokia Creek				3E-10	
Arsenic	Mississippi River	5E-12	3E-14	2E-13	5E-10	5E-12
Arsenic	Horseshoe Lake	5E-12	4E-11	2E-13	5E-10	4E-11
Arsenic	Old Cahokia Creek	5E-12	1E-12	2E-13	5E-10	6E-12
Beryllium	Mississippi River				2E-10	
Beryllium	Horseshoe Lake				2E-10	
Beryllium	Old Cahokia Creek				2E-10	
Cadmium	Mississippi River				1E-09	
Cadmium	Horseshoe Lake				1E-09	
Cadmium	Old Cahokia Creek				1E-09	
Chromium VI	Mississippi River				7E-10	
Chromium VI	Horseshoe Lake				7E-10	
Chromium VI	Old Cahokia Creek				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	2E-10	1E-03	1E-08
Manganese	Horseshoe Lake	1E-08	0E+00	2E-10	1E-03	1E-08
Manganese	Old Cahokia Creek	1E-08	0E+00	2E-10	1E-03	1E-08
Mercury (elemental)	Mississippi River				1E-05	
Mercury (elemental)	Horseshoe Lake				1E-05	
Mercury (elemental)	Old Cahokia Creek				1E-05	
Mercury (divalent)	Mississippi River	4E-06		9E-09		4E-06
Mercury (divalent)	Horseshoe Lake	4E-06		9E-09		4E-06
Mercury (divalent)	Old Cahokia Creek	4E-06		9E-09		4E-06
Nickel	Mississippi River	5E-09	8E-12	2E-10		5E-09
Nickel	Horseshoe Lake	5E-09	1E-08	2E-10		2E-08
Nickel	Old Cahokia Creek	5E-09	4E-10	2E-10		5E-09
Silver	Mississippi River	6E-11	0E+00	1E-10		2E-10
Silver	Horseshoe Lake	6E-11	0E+00	1E-10		2E-10
Silver	Old Cahokia Creek	6E-11	0E+00	1E-10		2E-10
Thallium	Mississippi River	9E-07	4E-08	1E-08		9E-07
Thallium	Horseshoe Lake	9E-07	5E-05	1E-08		5E-05
Thallium	Old Cahokia Creek	9E-07	2E-06	1E-08		3E-06
Antimony	Mississippi River	4E-06	0E+00	2E-06		6E-06
Antimony	Horseshoe Lake	4E-06	0E+00	2E-06		6E-06
Antimony	Old Cahokia Creek	4E-06	0E+00	2E-06		6E-06
Arsenic	Mississippi River	4E-08	3E-10	1E-09		5E-08
Arsenic	Horseshoe Lake	4E-08	4E-07	1E-09		4E-07
Arsenic	Old Cahokia Creek	4E-08	1E-08	1E-09		6E-08
Barium	Mississippi River	1E-07	0E+00	1E-10	7E-05	1E-07
Barium	Horseshoe Lake	1E-07	0E+00	1E-10	7E-05	1E-07
Barium	Old Cahokia Creek	1E-07	0E+00	1E-10	7E-05	1E-07
Beryllium	Mississippi River	8E-08	1E-10	1E-10		8E-08
Beryllium	Horseshoe Lake	8E-08	1E-07	1E-10		2E-07
Beryllium	Old Cahokia Creek	8E-08	9E-09	1E-10		9E-08

Table IX-A26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Commercial Incinerator (Stack Numbers 333, 612) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	3E-07	2E-08	4E-09		3E-07
Cadmium	Horseshoe Lake	3E-07	3E-05	4E-09		3E-05
Cadmium	Old Cahokia Creek	3E-07	1E-06	4E-09		1E-06
Chromium VI	Mississippi River	8E-10	1E-12	4E-11		8E-10
Chromium VI	Horseshoe Lake	8E-10	2E-09	4E-11		3E-09
Chromium VI	Old Cahokia Creek	8E-10	6E-11	4E-11		9E-10
Chromium III	Mississippi River	1E-08	5E-13	7E-14		1E-08
Chromium III	Horseshoe Lake	1E-08	2E-10	7E-14		1E-08
Chromium III	Old Cahokia Creek	1E-08	4E-11	7E-14		1E-08
Cobalt	Mississippi River	4E-09	0E+00	9E-11		4E-09
Cobalt	Horseshoe Lake	4E-09	0E+00	9E-11		4E-09
Cobalt	Old Cahokia Creek	4E-09	0E+00	9E-11		4E-09
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Horseshoe Lake				3E-03	
Hydrogen Chloride	Old Cahokia Creek				3E-03	
Selenium	Mississippi River	9E-10	1E-08	2E-10		1E-08
Selenium	Horseshoe Lake	9E-10	2E-05	2E-10		2E-05
Selenium	Old Cahokia Creek	9E-10	5E-07	2E-10		5E-07
Chlorine	Mississippi River				8E-04	
Chlorine	Horseshoe Lake				8E-04	
Chlorine	Old Cahokia Creek				8E-04	
Methylmercury - Developmental Effects	Mississippi River	2E-07	1E-05	4E-11		1E-05
Methylmercury - Developmental Effects	Horseshoe Lake	2E-07	1E-03	4E-11		1E-03
Methylmercury - Developmental Effects	Old Cahokia Creek	2E-07	6E-04	4E-11		6E-04
Methylmercury - Neurological Effects	Mississippi River	8E-08	4E-06	1E-11		4E-06
Methylmercury - Neurological Effects	Horseshoe Lake	8E-08	4E-04	1E-11		4E-04
Methylmercury - Neurological Effects	Old Cahokia Creek	8E-08	2E-04	1E-11		2E-04

Table IX-B1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	5E-11	1E-10	1E-10	2E-08	2E-07	4E-09	3E-08	2E-08	3E-08	2E-12	1E-10	3E-07
Nickel												4E-12	
Arsenic	7E-11	2E-11	8E-12	4E-11	8E-11	1E-10	8E-12			5E-10	6E-11	1E-10	9E-10
Beryllium												4E-11	
Cadmium												2E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-08	1E-08	4E-08	6E-09	3E-07	6E-10			0E+00	8E-09	1E-05	4E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	4E-06	2E-06	8E-06	2E-05	2E-04	4E-08				4E-08		3E-04
Nickel	9E-09	3E-09	1E-09	7E-09	6E-08	6E-07	4E-09			2E-08	1E-08		7E-07
Silver	7E-10	6E-09	2E-09	2E-08	8E-08	3E-05	3E-09			0E+00	3E-08		3E-05
Thallium	2E-04	8E-06	6E-07	2E-05	3E-03	7E-03	4E-04			8E-03	6E-05		2E-02
Antimony	3E-06	9E-06	3E-06	2E-05	2E-05	1E-04	8E-07			0E+00	3E-05		2E-04
Arsenic	2E-06	5E-07	2E-07	9E-07	2E-06	3E-06	2E-07			1E-05	1E-06		2E-05
Barium	2E-06	2E-07	5E-08	4E-07	9E-08	1E-05	1E-08			0E+00	2E-08	9E-06	1E-05
Beryllium	2E-06	2E-08	4E-09	5E-08	2E-07	8E-09	7E-08			1E-07	2E-08		2E-06
Cadmium	5E-05	4E-05	2E-05	7E-05	3E-06	1E-05	7E-07			3E-03	2E-05		3E-03
Chromium VI	1E-07	3E-08	2E-08	8E-08	1E-06	2E-05	7E-08			3E-07	2E-07		2E-05
Chromium III	1E-07	1E-09	8E-10	3E-09	7E-08	9E-07	3E-08			1E-11	3E-12		1E-06
Cobalt	2E-08	4E-09	2E-11	8E-09	3E-07	2E-06	3E-08			0E+00	1E-08		2E-06
Hydrogen Chloride												1E-03	
Selenium	2E-08	8E-09	1E-08	2E-08	1E-07	1E-05	6E-07			3E-04	8E-08		3E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	1E-06	1E-06	3E-07	1E-06	3E-06	4E-05	3E-09			2E-03	9E-10		2E-03
Methylmercury - Neurological Effects	3E-07	4E-07	9E-08	4E-07	1E-06	1E-05	1E-09			5E-04	3E-10		5E-04

Table IX-B1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	4E-11	9E-11	2E-10	4E-08	2E-07	3E-09	3E-08	2E-08	3E-08	2E-12	1E-10	3E-07
Nickel												5E-12	
Arsenic	2E-11	1E-11	8E-12	5E-11	1E-10	9E-11	7E-12			5E-10	4E-11	2E-10	9E-10
Beryllium												4E-11	
Cadmium												2E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-09	1E-08	7E-09	3E-08	7E-09	1E-07	3E-10			0E+00	5E-09	1E-05	2E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	2E-06	1E-06	8E-06	2E-05	1E-04	3E-08				2E-08		2E-04
Nickel	2E-09	2E-09	1E-09	7E-09	7E-08	3E-07	3E-09			2E-08	6E-09		4E-07
Silver	2E-10	4E-09	2E-09	2E-08	1E-07	2E-05	2E-09			0E+00	2E-08		2E-05
Thallium	4E-05	5E-06	4E-07	2E-05	3E-03	3E-03	2E-04			6E-03	3E-05		1E-02
Antimony	8E-07	5E-06	2E-06	2E-05	2E-05	5E-05	5E-07			0E+00	2E-05		1E-04
Arsenic	4E-07	3E-07	2E-07	9E-07	2E-06	2E-06	1E-07			9E-06	8E-07		2E-05
Barium	5E-07	1E-07	3E-08	4E-07	1E-07	6E-06	8E-09			0E+00	9E-09	9E-06	7E-06
Beryllium	4E-07	1E-08	3E-09	4E-08	2E-07	4E-09	4E-08			1E-07	1E-08		9E-07
Cadmium	1E-05	2E-05	1E-05	7E-05	4E-06	6E-06	4E-07			2E-03	1E-05		2E-03
Chromium VI	4E-08	2E-08	1E-08	7E-08	1E-06	8E-06	4E-08			2E-07	1E-07		9E-06
Chromium III	3E-08	6E-10	5E-10	3E-09	9E-08	4E-07	2E-08			9E-12	2E-12		6E-07
Cobalt	6E-09	2E-09	2E-11	8E-09	3E-07	8E-07	2E-08			0E+00	8E-09		1E-06
Hydrogen Chloride												1E-03	
Selenium	4E-09	5E-09	8E-09	2E-08	2E-07	6E-06	3E-07			2E-04	5E-08		2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	3E-07	7E-07	2E-07	1E-06	4E-06	2E-05	2E-09			1E-03	5E-10		1E-03
Methylmercury - Neurological Effects	9E-08	2E-07	6E-08	4E-07	1E-06	7E-06	6E-10			4E-04	2E-10		4E-04

Table IX-B1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	3E-11	7E-11	9E-11	2E-08	7E-08	2E-09	2E-08	1E-08	2E-08	1E-12	7E-11	1E-07
Nickel												3E-12	
Arsenic	1E-11	1E-11	6E-12	3E-11	6E-11	4E-11	4E-12			3E-10	3E-11	1E-10	5E-10
Beryllium												3E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-09	8E-09	5E-09	2E-08	3E-09	7E-08	2E-10			0E+00	3E-09	1E-05	1E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	2E-06	2E-06	9E-07	4E-06	1E-05	5E-05	2E-08			0E+00	1E-08		7E-05
Nickel	1E-09	1E-09	7E-10	4E-09	3E-08	1E-07	2E-09			9E-09	4E-09		2E-07
Silver	1E-10	3E-09	1E-09	8E-09	4E-08	8E-06	1E-09			0E+00	1E-08		8E-06
Thallium	2E-05	4E-06	3E-07	1E-05	1E-03	2E-03	1E-04			3E-03	2E-05		6E-03
Antimony	4E-07	4E-06	1E-06	1E-05	1E-05	3E-05	3E-07			0E+00	1E-05		6E-05
Arsenic	2E-07	2E-07	1E-07	5E-07	1E-06	7E-07	8E-08			5E-06	5E-07		8E-06
Barium	3E-07	8E-08	2E-08	2E-07	5E-08	3E-06	5E-09			0E+00	6E-09	9E-06	3E-06
Beryllium	2E-07	8E-09	2E-09	2E-08	1E-07	2E-09	3E-08			5E-08	7E-09		5E-07
Cadmium	7E-06	2E-05	9E-06	4E-05	2E-06	3E-06	3E-07			1E-03	7E-06		1E-03
Chromium VI	2E-08	1E-08	8E-09	4E-08	5E-07	4E-06	3E-08			1E-07	7E-08		4E-06
Chromium III	1E-08	4E-10	4E-10	1E-09	4E-08	2E-07	1E-08			5E-12	1E-12		3E-07
Cobalt	3E-09	2E-09	1E-11	4E-09	1E-07	4E-07	1E-08			0E+00	5E-09		5E-07
Hydrogen Chloride												1E-03	
Selenium	2E-09	3E-09	6E-09	1E-08	7E-08	3E-06	2E-07			1E-04	3E-08		1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	1E-07	6E-07	1E-07	6E-07	2E-06	1E-05	1E-09			6E-04	3E-10		6E-04
Methylmercury - Neurological Effects	5E-08	2E-07	4E-08	2E-07	6E-07	3E-06	4E-10			2E-04	1E-10		2E-04

Table IX-B1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	8E-11	1E-10	2E-10	4E-08	6E-08	3E-09	3E-08	2E-08	4E-08	2E-12	1E-10	2E-07
Nickel												4E-12	
Arsenic	1E-11	2E-11	1E-11	4E-11	1E-10	3E-11	7E-12			6E-10	6E-11	2E-10	9E-10
Beryllium												4E-11	
Cadmium												2E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	1E-08	6E-09	2E-08	4E-09	3E-08	2E-10			0E+00	3E-09	1E-05	7E-08
Mercury (elemental)												1E-06	
Mercury (divalent)	9E-07	2E-06	1E-06	4E-06	1E-05	2E-05	1E-08			0E+00	2E-08		4E-05
Nickel	5E-10	2E-09	8E-10	3E-09	4E-08	6E-08	1E-09			1E-08	4E-09		1E-07
Silver	4E-11	4E-09	1E-09	8E-09	5E-08	3E-06	1E-09			0E+00	1E-08		3E-06
Thallium	1E-05	5E-06	3E-07	1E-05	2E-03	7E-04	1E-04			4E-03	3E-05		6E-03
Antimony	2E-07	5E-06	2E-06	9E-06	1E-05	1E-05	3E-07			0E+00	1E-05		5E-05
Arsenic	9E-08	3E-07	1E-07	5E-07	1E-06	3E-07	7E-08			5E-06	6E-07		9E-06
Barium	1E-07	1E-07	3E-08	2E-07	5E-08	1E-06	5E-09			0E+00	7E-09	9E-06	2E-06
Beryllium	9E-08	1E-08	2E-09	2E-08	1E-07	8E-10	2E-08			6E-08	8E-09		3E-07
Cadmium	3E-06	2E-05	1E-05	3E-05	2E-06	1E-06	2E-07			1E-03	9E-06		1E-03
Chromium VI	8E-09	2E-08	9E-09	4E-08	6E-07	2E-06	2E-08			1E-07	8E-08		2E-06
Chromium III	6E-09	6E-10	4E-10	1E-09	4E-08	9E-08	9E-09			5E-12	1E-12		2E-07
Cobalt	1E-09	2E-09	1E-11	4E-09	2E-07	2E-07	1E-08			0E+00	6E-09		3E-07
Hydrogen Chloride												1E-03	
Selenium	1E-09	5E-09	7E-09	1E-08	8E-08	1E-06	2E-07			1E-04	4E-08		1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	6E-08	7E-07	1E-07	6E-07	2E-06	4E-06	1E-09			7E-04	4E-10		7E-04
Methylmercury - Neurological Effects	2E-08	2E-07	5E-08	2E-07	7E-07	1E-06	3E-10			2E-04	1E-10		2E-04

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	2E-09	5E-09	2E-12	1E-10	7E-09
2,3,7,8-TCDD-TEQ	Elk City Lake	2E-09	3E-08	2E-12	1E-10	3E-08
2,3,7,8-TCDD-TEQ	Montgomery County State Park Lake	2E-09	2E-07	2E-12	1E-10	2E-07
Nickel	Verdigris River				4E-12	
Nickel	Elk City Lake				4E-12	
Nickel	Montgomery County State Park Lake				4E-12	
Arsenic	Verdigris River	7E-11	6E-12	6E-11	1E-10	1E-10
Arsenic	Elk City Lake	7E-11	5E-11	6E-11	1E-10	2E-10
Arsenic	Montgomery County State Park Lake	7E-11	3E-10	6E-11	1E-10	4E-10
Beryllium	Verdigris River				4E-11	
Beryllium	Elk City Lake				4E-11	
Beryllium	Montgomery County State Park Lake				4E-11	
Cadmium	Verdigris River				2E-09	
Cadmium	Elk City Lake				2E-09	
Cadmium	Montgomery County State Park Lake				2E-09	
Chromium VI	Verdigris River				1E-09	
Chromium VI	Elk City Lake				1E-09	
Chromium VI	Montgomery County State Park Lake				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	2E-08	0E+00	8E-09	1E-05	3E-08
Manganese	Elk City Lake	2E-08	0E+00	8E-09	1E-05	3E-08
Manganese	Montgomery County State Park Lake	2E-08	0E+00	8E-09	1E-05	3E-08
Mercury (elemental)	Verdigris River				1E-06	
Mercury (elemental)	Elk City Lake				1E-06	
Mercury (elemental)	Montgomery County State Park Lake				1E-06	
Mercury (divalent)	Verdigris River	2E-05		4E-08		2E-05
Mercury (divalent)	Elk City Lake	2E-05		4E-08		2E-05
Mercury (divalent)	Montgomery County State Park Lake	2E-05		4E-08		2E-05
Nickel	Verdigris River	9E-09	3E-10	1E-08		2E-08
Nickel	Elk City Lake	9E-09	2E-09	1E-08		2E-08
Nickel	Montgomery County State Park Lake	9E-09	1E-08	1E-08		3E-08
Silver	Verdigris River	7E-10	0E+00	3E-08		3E-08
Silver	Elk City Lake	7E-10	0E+00	3E-08		3E-08
Silver	Montgomery County State Park Lake	7E-10	0E+00	3E-08		3E-08
Thallium	Verdigris River	2E-04	1E-04	6E-05		4E-04
Thallium	Elk City Lake	2E-04	1E-03	6E-05		1E-03
Thallium	Montgomery County State Park Lake	2E-04	7E-03	6E-05		7E-03
Antimony	Verdigris River	3E-06	0E+00	3E-05		4E-05
Antimony	Elk City Lake	3E-06	0E+00	3E-05		4E-05
Antimony	Montgomery County State Park Lake	3E-06	0E+00	3E-05		4E-05
Arsenic	Verdigris River	2E-06	1E-07	1E-06		3E-06
Arsenic	Elk City Lake	2E-06	1E-06	1E-06		4E-06
Arsenic	Montgomery County State Park Lake	2E-06	8E-06	1E-06		1E-05
Barium	Verdigris River	2E-06	0E+00	2E-08	9E-06	2E-06
Barium	Elk City Lake	2E-06	0E+00	2E-08	9E-06	2E-06
Barium	Montgomery County State Park Lake	2E-06	0E+00	2E-08	9E-06	2E-06
Beryllium	Verdigris River	2E-06	2E-08	2E-08		2E-06
Beryllium	Elk City Lake	2E-06	2E-07	2E-08		2E-06
Beryllium	Montgomery County State Park Lake	2E-06	8E-07	2E-08		2E-06

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Verdigris River	5E-05	6E-05	2E-05		1E-04
Cadmium	Elk City Lake	5E-05	5E-04	2E-05		6E-04
Cadmium	Montgomery County State Park Lake	5E-05	3E-03	2E-05		3E-03
Chromium VI	Verdigris River	1E-07	4E-09	2E-07		4E-07
Chromium VI	Elk City Lake	1E-07	3E-08	2E-07		4E-07
Chromium VI	Montgomery County State Park Lake	1E-07	2E-07	2E-07		5E-07
Chromium III	Verdigris River	1E-07	4E-11	3E-12		1E-07
Chromium III	Elk City Lake	1E-07	2E-10	3E-12		1E-07
Chromium III	Montgomery County State Park Lake	1E-07	5E-10	3E-12		1E-07
Cobalt	Verdigris River	2E-08	0E+00	3E-12		2E-08
Cobalt	Elk City Lake	2E-08	0E+00	3E-12		2E-08
Cobalt	Montgomery County State Park Lake	2E-08	0E+00	3E-12		2E-08
Hydrogen Chloride	Verdigris River				1E-03	
Hydrogen Chloride	Elk City Lake				1E-03	
Hydrogen Chloride	Montgomery County State Park Lake				1E-03	
Selenium	Verdigris River	2E-08	3E-06	8E-08		3E-06
Selenium	Elk City Lake	2E-08	3E-05	8E-08		3E-05
Selenium	Montgomery County State Park Lake	2E-08	2E-04	8E-08		2E-04
Chlorine	Verdigris River				1E-04	
Chlorine	Elk City Lake				1E-04	
Chlorine	Montgomery County State Park Lake				1E-04	
Methylmercury - Developmental Effects	Verdigris River	1E-06	1E-04	9E-10		1E-04
Methylmercury - Developmental Effects	Elk City Lake	1E-06	6E-04	9E-10		6E-04
Methylmercury - Developmental Effects	Montgomery County State Park Lake	1E-06	8E-03	9E-10		8E-03
Methylmercury - Neurological Effects	Verdigris River	3E-07	5E-05	3E-10		5E-05
Methylmercury - Neurological Effects	Elk City Lake	3E-07	2E-04	3E-10		2E-04
Methylmercury - Neurological Effects	Montgomery County State Park Lake	3E-07	3E-03	3E-10		3E-03

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	5E-10	7E-09	2E-12	1E-10	8E-09
2,3,7,8-TCDD-TEQ	Elk City Lake	5E-10	4E-08	2E-12	1E-10	4E-08
2,3,7,8-TCDD-TEQ	Montgomery County State Park Lake	5E-10	3E-07	2E-12	1E-10	3E-07
Nickel	Verdigris River				5E-12	
Nickel	Elk City Lake				5E-12	
Nickel	Montgomery County State Park Lake				5E-12	
Arsenic	Verdigris River	2E-11	8E-12	4E-11	2E-10	8E-11
Arsenic	Elk City Lake	2E-11	7E-11	4E-11	2E-10	1E-10
Arsenic	Montgomery County State Park Lake	2E-11	4E-10	4E-11	2E-10	5E-10
Beryllium	Verdigris River				4E-11	
Beryllium	Elk City Lake				4E-11	
Beryllium	Montgomery County State Park Lake				4E-11	
Cadmium	Verdigris River				2E-09	
Cadmium	Elk City Lake				2E-09	
Cadmium	Montgomery County State Park Lake				2E-09	
Chromium VI	Verdigris River				1E-09	
Chromium VI	Elk City Lake				1E-09	
Chromium VI	Montgomery County State Park Lake				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	5E-09	0E+00	5E-09	1E-05	1E-08
Manganese	Elk City Lake	5E-09	0E+00	5E-09	1E-05	1E-08
Manganese	Montgomery County State Park Lake	5E-09	0E+00	5E-09	1E-05	1E-08
Mercury (elemental)	Verdigris River				1E-06	
Mercury (elemental)	Elk City Lake				1E-06	
Mercury (elemental)	Montgomery County State Park Lake				1E-06	
Mercury (divalent)	Verdigris River	4E-06		2E-08		4E-06
Mercury (divalent)	Elk City Lake	4E-06		2E-08		4E-06
Mercury (divalent)	Montgomery County State Park Lake	4E-06		2E-08		4E-06
Nickel	Verdigris River	2E-09	3E-10	6E-09		8E-09
Nickel	Elk City Lake	2E-09	2E-09	6E-09		1E-08
Nickel	Montgomery County State Park Lake	2E-09	1E-08	6E-09		2E-08
Silver	Verdigris River	2E-10	0E+00	2E-08		2E-08
Silver	Elk City Lake	2E-10	0E+00	2E-08		2E-08
Silver	Montgomery County State Park Lake	2E-10	0E+00	2E-08		2E-08
Thallium	Verdigris River	4E-05	1E-04	3E-05		2E-04
Thallium	Elk City Lake	4E-05	1E-03	3E-05		1E-03
Thallium	Montgomery County State Park Lake	4E-05	7E-03	3E-05		7E-03
Antimony	Verdigris River	8E-07	0E+00	2E-05		2E-05
Antimony	Elk City Lake	8E-07	0E+00	2E-05		2E-05
Antimony	Montgomery County State Park Lake	8E-07	0E+00	2E-05		2E-05
Arsenic	Verdigris River	4E-07	1E-07	8E-07		1E-06
Arsenic	Elk City Lake	4E-07	1E-06	8E-07		3E-06
Arsenic	Montgomery County State Park Lake	4E-07	8E-06	8E-07		9E-06
Barium	Verdigris River	5E-07	0E+00	9E-09	9E-06	5E-07
Barium	Elk City Lake	5E-07	0E+00	9E-09	9E-06	5E-07
Barium	Montgomery County State Park Lake	5E-07	0E+00	9E-09	9E-06	5E-07
Beryllium	Verdigris River	4E-07	2E-08	1E-08		4E-07
Beryllium	Elk City Lake	4E-07	2E-07	1E-08		6E-07
Beryllium	Montgomery County State Park Lake	4E-07	8E-07	1E-08		1E-06

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Verdigris River	1E-05	6E-05	1E-05		8E-05
Cadmium	Elk City Lake	1E-05	5E-04	1E-05		6E-04
Cadmium	Montgomery County State Park Lake	1E-05	3E-03	1E-05		3E-03
Chromium VI	Verdigris River	4E-08	4E-09	1E-07		2E-07
Chromium VI	Elk City Lake	4E-08	3E-08	1E-07		2E-07
Chromium VI	Montgomery County State Park Lake	4E-08	2E-07	1E-07		3E-07
Chromium III	Verdigris River	3E-08	4E-11	2E-12		3E-08
Chromium III	Elk City Lake	3E-08	2E-10	2E-12		3E-08
Chromium III	Montgomery County State Park Lake	3E-08	5E-10	2E-12		3E-08
Cobalt	Verdigris River	6E-09	0E+00	2E-12		6E-09
Cobalt	Elk City Lake	6E-09	0E+00	2E-12		6E-09
Cobalt	Montgomery County State Park Lake	6E-09	0E+00	2E-12		6E-09
Hydrogen Chloride	Verdigris River				1E-03	
Hydrogen Chloride	Elk City Lake				1E-03	
Hydrogen Chloride	Montgomery County State Park Lake				1E-03	
Selenium	Verdigris River	4E-09	3E-06	5E-08		3E-06
Selenium	Elk City Lake	4E-09	3E-05	5E-08		3E-05
Selenium	Montgomery County State Park Lake	4E-09	2E-04	5E-08		2E-04
Chlorine	Verdigris River				1E-04	
Chlorine	Elk City Lake				1E-04	
Chlorine	Montgomery County State Park Lake				1E-04	
Methylmercury - Developmental Effects	Verdigris River	3E-07	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Elk City Lake	3E-07	6E-04	5E-10		6E-04
Methylmercury - Developmental Effects	Montgomery County State Park Lake	3E-07	8E-03	5E-10		8E-03
Methylmercury - Neurological Effects	Verdigris River	9E-08	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Elk City Lake	9E-08	2E-04	2E-10		2E-04
Methylmercury - Neurological Effects	Montgomery County State Park Lake	9E-08	3E-03	2E-10		3E-03

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	3E-10	5E-09	1E-12	7E-11	6E-09
2,3,7,8-TCDD-TEQ	Elk City Lake	3E-10	3E-08	1E-12	7E-11	3E-08
2,3,7,8-TCDD-TEQ	Montgomery County State Park Lake	3E-10	2E-07	1E-12	7E-11	2E-07
Nickel	Verdigris River				3E-12	
Nickel	Elk City Lake				3E-12	
Nickel	Montgomery County State Park Lake				3E-12	
Arsenic	Verdigris River	1E-11	6E-12	3E-11	1E-10	5E-11
Arsenic	Elk City Lake	1E-11	5E-11	3E-11	1E-10	1E-10
Arsenic	Montgomery County State Park Lake	1E-11	3E-10	3E-11	1E-10	4E-10
Beryllium	Verdigris River				3E-11	
Beryllium	Elk City Lake				3E-11	
Beryllium	Montgomery County State Park Lake				3E-11	
Cadmium	Verdigris River				1E-09	
Cadmium	Elk City Lake				1E-09	
Cadmium	Montgomery County State Park Lake				1E-09	
Chromium VI	Verdigris River				7E-10	
Chromium VI	Elk City Lake				7E-10	
Chromium VI	Montgomery County State Park Lake				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	3E-09	0E+00	3E-09	1E-05	6E-09
Manganese	Elk City Lake	3E-09	0E+00	3E-09	1E-05	6E-09
Manganese	Montgomery County State Park Lake	3E-09	0E+00	3E-09	1E-05	6E-09
Mercury (elemental)	Verdigris River				1E-06	
Mercury (elemental)	Elk City Lake				1E-06	
Mercury (elemental)	Montgomery County State Park Lake				1E-06	
Mercury (divalent)	Verdigris River	2E-06		1E-08		2E-06
Mercury (divalent)	Elk City Lake	2E-06		1E-08		2E-06
Mercury (divalent)	Montgomery County State Park Lake	2E-06		1E-08		2E-06
Nickel	Verdigris River	1E-09	2E-10	4E-09		5E-09
Nickel	Elk City Lake	1E-09	2E-09	4E-09		7E-09
Nickel	Montgomery County State Park Lake	1E-09	1E-08	4E-09		1E-08
Silver	Verdigris River	1E-10	0E+00	1E-08		1E-08
Silver	Elk City Lake	1E-10	0E+00	1E-08		1E-08
Silver	Montgomery County State Park Lake	1E-10	0E+00	1E-08		1E-08
Thallium	Verdigris River	2E-05	9E-05	2E-05		1E-04
Thallium	Elk City Lake	2E-05	8E-04	2E-05		9E-04
Thallium	Montgomery County State Park Lake	2E-05	5E-03	2E-05		5E-03
Antimony	Verdigris River	4E-07	0E+00	1E-05		1E-05
Antimony	Elk City Lake	4E-07	0E+00	1E-05		1E-05
Antimony	Montgomery County State Park Lake	4E-07	0E+00	1E-05		1E-05
Arsenic	Verdigris River	2E-07	1E-07	5E-07		8E-07
Arsenic	Elk City Lake	2E-07	1E-06	5E-07		2E-06
Arsenic	Montgomery County State Park Lake	2E-07	6E-06	5E-07		6E-06
Barium	Verdigris River	3E-07	0E+00	6E-09	9E-06	3E-07
Barium	Elk City Lake	3E-07	0E+00	6E-09	9E-06	3E-07
Barium	Montgomery County State Park Lake	3E-07	0E+00	6E-09	9E-06	3E-07
Beryllium	Verdigris River	2E-07	2E-08	7E-09		2E-07
Beryllium	Elk City Lake	2E-07	1E-07	7E-09		4E-07
Beryllium	Montgomery County State Park Lake	2E-07	6E-07	7E-09		8E-07

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Verdigris River	7E-06	4E-05	7E-06		6E-05
Cadmium	Elk City Lake	7E-06	4E-04	7E-06		4E-04
Cadmium	Montgomery County State Park Lake	7E-06	2E-03	7E-06		2E-03
Chromium VI	Verdigris River	2E-08	3E-09	7E-08		1E-07
Chromium VI	Elk City Lake	2E-08	2E-08	7E-08		1E-07
Chromium VI	Montgomery County State Park Lake	2E-08	1E-07	7E-08		2E-07
Chromium III	Verdigris River	1E-08	3E-11	1E-12		1E-08
Chromium III	Elk City Lake	1E-08	1E-10	1E-12		1E-08
Chromium III	Montgomery County State Park Lake	1E-08	3E-10	1E-12		1E-08
Cobalt	Verdigris River	3E-09	0E+00	5E-09		8E-09
Cobalt	Elk City Lake	3E-09	0E+00	5E-09		8E-09
Cobalt	Montgomery County State Park Lake	3E-09	0E+00	5E-09		8E-09
Hydrogen Chloride	Verdigris River				1E-03	
Hydrogen Chloride	Elk City Lake				1E-03	
Hydrogen Chloride	Montgomery County State Park Lake				1E-03	
Selenium	Verdigris River	2E-09	2E-06	3E-08		2E-06
Selenium	Elk City Lake	2E-09	2E-05	3E-08		2E-05
Selenium	Montgomery County State Park Lake	2E-09	1E-04	3E-08		1E-04
Chlorine	Verdigris River				1E-04	
Chlorine	Elk City Lake				1E-04	
Chlorine	Montgomery County State Park Lake				1E-04	
Methylmercury - Developmental Effects	Verdigris River	1E-07	1E-04	3E-10		1E-04
Methylmercury - Developmental Effects	Elk City Lake	1E-07	4E-04	3E-10		4E-04
Methylmercury - Developmental Effects	Montgomery County State Park Lake	1E-07	6E-03	3E-10		6E-03
Methylmercury - Neurological Effects	Verdigris River	5E-08	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Elk City Lake	5E-08	1E-04	1E-10		1E-04
Methylmercury - Neurological Effects	Montgomery County State Park Lake	5E-08	2E-03	1E-10		2E-03

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Verdigris River	2E-10	1E-08	2E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Elk City Lake	2E-10	5E-08	2E-12	1E-10	5E-08
2,3,7,8-TCDD-TEQ	Montgomery County State Park Lake	2E-10	3E-07	2E-12	1E-10	3E-07
Nickel	Verdigris River				4E-12	
Nickel	Elk City Lake				4E-12	
Nickel	Montgomery County State Park Lake				4E-12	
Arsenic	Verdigris River	1E-11	1E-11	6E-11	2E-10	9E-11
Arsenic	Elk City Lake	1E-11	1E-10	6E-11	2E-10	2E-10
Arsenic	Montgomery County State Park Lake	1E-11	6E-10	6E-11	2E-10	7E-10
Beryllium	Verdigris River				4E-11	
Beryllium	Elk City Lake				4E-11	
Beryllium	Montgomery County State Park Lake				4E-11	
Cadmium	Verdigris River				2E-09	
Cadmium	Elk City Lake				2E-09	
Cadmium	Montgomery County State Park Lake				2E-09	
Chromium VI	Verdigris River				1E-09	
Chromium VI	Elk City Lake				1E-09	
Chromium VI	Montgomery County State Park Lake				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Verdigris River	1E-09	0E+00	3E-09	1E-05	5E-09
Manganese	Elk City Lake	1E-09	0E+00	3E-09	1E-05	5E-09
Manganese	Montgomery County State Park Lake	1E-09	0E+00	3E-09	1E-05	5E-09
Mercury (elemental)	Verdigris River				1E-06	
Mercury (elemental)	Elk City Lake				1E-06	
Mercury (elemental)	Montgomery County State Park Lake				1E-06	
Mercury (divalent)	Verdigris River	9E-07		2E-08		1E-06
Mercury (divalent)	Elk City Lake	9E-07		2E-08		1E-06
Mercury (divalent)	Montgomery County State Park Lake	9E-07		2E-08		1E-06
Nickel	Verdigris River	5E-10	2E-10	4E-09		5E-09
Nickel	Elk City Lake	5E-10	2E-09	4E-09		7E-09
Nickel	Montgomery County State Park Lake	5E-10	1E-08	4E-09		1E-08
Silver	Verdigris River	4E-11	0E+00	1E-08		1E-08
Silver	Elk City Lake	4E-11	0E+00	1E-08		1E-08
Silver	Montgomery County State Park Lake	4E-11	0E+00	1E-08		1E-08
Thallium	Verdigris River	1E-05	9E-05	3E-05		1E-04
Thallium	Elk City Lake	1E-05	8E-04	3E-05		8E-04
Thallium	Montgomery County State Park Lake	1E-05	5E-03	3E-05		5E-03
Antimony	Verdigris River	2E-07	0E+00	1E-05		1E-05
Antimony	Elk City Lake	2E-07	0E+00	1E-05		1E-05
Antimony	Montgomery County State Park Lake	2E-07	0E+00	1E-05		1E-05
Arsenic	Verdigris River	9E-08	1E-07	6E-07		8E-07
Arsenic	Elk City Lake	9E-08	1E-06	6E-07		2E-06
Arsenic	Montgomery County State Park Lake	9E-08	6E-06	6E-07		6E-06
Barium	Verdigris River	1E-07	0E+00	7E-09	9E-06	1E-07
Barium	Elk City Lake	1E-07	0E+00	7E-09	9E-06	1E-07
Barium	Montgomery County State Park Lake	1E-07	0E+00	7E-09	9E-06	1E-07
Beryllium	Verdigris River	9E-08	2E-08	8E-09		1E-07
Beryllium	Elk City Lake	9E-08	1E-07	8E-09		2E-07
Beryllium	Montgomery County State Park Lake	9E-08	6E-07	8E-09		7E-07

Table IX-B2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 202) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Verdigris River	3E-06	4E-05	9E-06		5E-05
Cadmium	Elk City Lake	3E-06	4E-04	9E-06		4E-04
Cadmium	Montgomery County State Park Lake	3E-06	2E-03	9E-06		2E-03
Chromium VI	Verdigris River	8E-09	3E-09	8E-08		1E-07
Chromium VI	Elk City Lake	8E-09	2E-08	8E-08		1E-07
Chromium VI	Montgomery County State Park Lake	8E-09	1E-07	8E-08		2E-07
Chromium III	Verdigris River	6E-09	3E-11	1E-12		6E-09
Chromium III	Elk City Lake	6E-09	1E-10	1E-12		6E-09
Chromium III	Montgomery County State Park Lake	6E-09	3E-10	1E-12		6E-09
Cobalt	Verdigris River	1E-09	0E+00	6E-09		7E-09
Cobalt	Elk City Lake	1E-09	0E+00	6E-09		7E-09
Cobalt	Montgomery County State Park Lake	1E-09	0E+00	6E-09		7E-09
Hydrogen Chloride	Verdigris River				1E-03	
Hydrogen Chloride	Elk City Lake				1E-03	
Hydrogen Chloride	Montgomery County State Park Lake				1E-03	
Selenium	Verdigris River	1E-09	2E-06	4E-08		2E-06
Selenium	Elk City Lake	1E-09	2E-05	4E-08		2E-05
Selenium	Montgomery County State Park Lake	1E-09	1E-04	4E-08		1E-04
Chlorine	Verdigris River				1E-04	
Chlorine	Elk City Lake				1E-04	
Chlorine	Montgomery County State Park Lake				1E-04	
Methylmercury - Developmental Effects	Verdigris River	6E-08	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Elk City Lake	6E-08	4E-04	4E-10		4E-04
Methylmercury - Developmental Effects	Montgomery County State Park Lake	6E-08	6E-03	4E-10		6E-03
Methylmercury - Neurological Effects	Verdigris River	2E-08	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Elk City Lake	2E-08	1E-04	1E-10		1E-04
Methylmercury - Neurological Effects	Montgomery County State Park Lake	2E-08	2E-03	1E-10		2E-03

Table IX-B3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-08	1E-09	3E-09	2E-09	4E-07	4E-06	1E-07	1E-06	8E-07	7E-07		5E-10	7E-06
Nickel												7E-11	
Arsenic	2E-10	6E-11	3E-11	1E-10	2E-10	3E-10	2E-11			1E-09		2E-10	2E-09
Beryllium												1E-12	
Cadmium												3E-12	
Chromium VI												8E-12	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	9E-08	3E-07	4E-08	2E-06	4E-09			0E+00		3E-05	3E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	5E-06	2E-05	3E-05	3E-04	1E-07						4E-04
Nickel	3E-07	2E-07	8E-08	4E-07	4E-06	4E-05	2E-07			7E-07			4E-05
Silver	2E-09	2E-08	6E-09	6E-08	3E-07	1E-04	1E-08			0E+00			1E-04
Thallium	1E-05	1E-06	9E-08	3E-06	3E-04	9E-04	4E-05			6E-04			2E-03
Antimony	9E-08	3E-07	9E-08	6E-07	6E-07	3E-06	3E-08			0E+00			5E-06
Arsenic	4E-06	2E-06	8E-07	3E-06	5E-06	8E-06	5E-07			2E-05			5E-05
Barium	2E-07	2E-08	5E-09	4E-08	9E-09	1E-06	1E-09			0E+00		2E-07	1E-06
Beryllium	2E-07	2E-09	4E-10	4E-09	2E-08	8E-10	8E-09			8E-09			2E-07
Cadmium	2E-07	2E-07	1E-07	5E-07	2E-08	6E-08	3E-09			1E-05			1E-05
Chromium VI	3E-09	8E-10	4E-10	2E-09	3E-08	4E-07	2E-09			4E-09			5E-07
Chromium III	2E-09	2E-11	2E-11	5E-11	1E-09	2E-08	6E-10			2E-13			2E-08
Cobalt	1E-07	3E-08	2E-10	7E-08	2E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												1E-03	
Selenium	4E-08	2E-08	3E-08	5E-08	3E-07	3E-05	1E-06			6E-04			6E-04
Chlorine												5E-04	
Methylmercury - Developmental Effects	2E-06	4E-06	6E-07	3E-06	9E-06	1E-04	7E-09			6E-03			7E-03
Methylmercury - Neurological Effects	8E-07	1E-06	2E-07	1E-06	3E-06	4E-05	2E-09			2E-03			2E-03

Table IX-B3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	7E-10	2E-09	3E-09	7E-07	3E-06	1E-07	1E-06	9E-07	7E-07		6E-10	7E-06
Nickel												8E-11	
Arsenic	6E-11	4E-11	3E-11	2E-10	3E-10	2E-10	2E-11			1E-09		2E-10	2E-09
Beryllium												1E-12	
Cadmium												3E-12	
Chromium VI												9E-12	
	Noncarcinogenic Chemicals												
Manganese	3E-08	9E-08	6E-08	3E-07	5E-08	1E-06	2E-09			0E+00		3E-05	2E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	6E-06	3E-06	2E-05	4E-05	2E-04	6E-08						2E-04
Nickel	9E-08	1E-07	5E-08	4E-07	4E-06	2E-05	1E-07			5E-07			2E-05
Silver	5E-10	1E-08	4E-09	6E-08	4E-07	7E-05	8E-09			0E+00			7E-05
Thallium	4E-06	6E-07	6E-08	3E-06	4E-04	5E-04	2E-05			4E-04			1E-03
Antimony	2E-08	2E-07	6E-08	6E-07	7E-07	2E-06	2E-08			0E+00			3E-06
Arsenic	1E-06	9E-07	6E-07	3E-06	6E-06	4E-06	3E-07			2E-05			3E-05
Barium	5E-08	1E-08	3E-09	4E-08	1E-08	5E-07	8E-10			0E+00		2E-07	7E-07
Beryllium	4E-08	1E-09	3E-10	4E-09	2E-08	4E-10	4E-09			6E-09			8E-08
Cadmium	5E-08	1E-07	8E-08	5E-07	2E-08	3E-08	2E-09			8E-06			9E-06
Chromium VI	7E-10	4E-10	2E-10	2E-09	3E-08	2E-07	1E-09			3E-09			3E-07
Chromium III	6E-10	1E-11	1E-11	5E-11	2E-09	9E-09	3E-10			1E-13			1E-08
Cobalt	3E-08	2E-08	1E-10	7E-08	3E-06	6E-06	1E-07			0E+00			9E-06
Hydrogen Chloride												1E-03	
Selenium	1E-08	1E-08	2E-08	5E-08	4E-07	1E-05	9E-07			4E-04			4E-04
Chlorine												5E-04	
Methylmercury - Developmental Effects	6E-07	2E-06	4E-07	3E-06	1E-05	6E-05	4E-09			5E-03			5E-03
Methylmercury - Neurological Effects	2E-07	7E-07	1E-07	1E-06	3E-06	2E-05	1E-09			2E-03			2E-03

Table IX-B3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	6E-10	2E-09	2E-09	3E-07	1E-06	7E-08	8E-07	5E-07	4E-07		4E-10	3E-06
Nickel												5E-11	
Arsenic	3E-11	3E-11	2E-11	8E-11	1E-10	1E-10	1E-11			5E-10		1E-10	1E-09
Beryllium												7E-13	
Cadmium												2E-12	
Chromium VI												6E-12	
	Noncarcinogenic Chemicals												
Manganese	2E-08	7E-08	4E-08	2E-07	2E-08	5E-07	1E-09			0E+00		3E-05	8E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	6E-06	5E-06	2E-06	1E-05	2E-05	7E-05	4E-08			0E+00			1E-04
Nickel	5E-08	7E-08	4E-08	2E-07	2E-06	8E-06	8E-08			3E-07			1E-05
Silver	3E-10	9E-09	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00			3E-05
Thallium	2E-06	5E-07	4E-08	2E-06	2E-04	2E-04	1E-05			2E-04			6E-04
Antimony	1E-08	1E-07	4E-08	3E-07	3E-07	8E-07	1E-08			0E+00			2E-06
Arsenic	6E-07	7E-07	4E-07	2E-06	3E-06	2E-06	2E-07			1E-05			2E-05
Barium	3E-08	8E-09	2E-09	2E-08	5E-09	2E-07	5E-10			0E+00		2E-07	3E-07
Beryllium	2E-08	8E-10	2E-10	2E-09	1E-08	2E-10	3E-09			3E-09			4E-08
Cadmium	3E-08	1E-07	6E-08	2E-07	9E-09	1E-08	1E-09			4E-06			5E-06
Chromium VI	4E-10	3E-10	2E-10	1E-09	1E-08	1E-07	6E-10			2E-09			1E-07
Chromium III	3E-10	9E-12	8E-12	3E-11	8E-10	4E-09	2E-10			6E-14			5E-09
Cobalt	2E-08	1E-08	9E-11	4E-08	1E-06	3E-06	8E-08			0E+00			4E-06
Hydrogen Chloride												1E-03	
Selenium	6E-09	9E-09	1E-08	3E-08	2E-07	7E-06	6E-07			2E-04			2E-04
Chlorine												5E-04	
Methylmercury - Developmental Effects	3E-07	2E-06	3E-07	2E-06	5E-06	3E-05	3E-09			3E-03			3E-03
Methylmercury - Neurological Effects	1E-07	5E-07	1E-07	6E-07	2E-06	9E-06	9E-10			9E-04			9E-04

Table IX-B3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	1E-09	3E-09	3E-09	7E-07	1E-06	1E-07	1E-06	8E-07	8E-07		6E-10	5E-06
Nickel												8E-11	
Arsenic	2E-11	8E-11	4E-11	1E-10	3E-10	9E-11	2E-11			1E-09		2E-10	2E-09
Beryllium												1E-12	
Cadmium												3E-12	
Chromium VI												9E-12	
	Noncarcinogenic Chemicals												
Manganese	6E-09	9E-08	5E-08	1E-07	3E-08	2E-07	1E-09			0E+00		3E-05	5E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	2E-06	6E-06	3E-06	1E-05	2E-05	3E-05	3E-08			0E+00			7E-05
Nickel	2E-08	1E-07	4E-08	2E-07	2E-06	4E-06	7E-08			3E-07			7E-06
Silver	1E-10	1E-08	3E-09	3E-08	2E-07	1E-05	4E-09			0E+00			1E-05
Thallium	8E-07	7E-07	5E-08	1E-06	2E-04	9E-05	1E-05			3E-04			6E-04
Antimony	5E-09	2E-07	5E-08	3E-07	4E-07	3E-07	9E-09			0E+00			1E-06
Arsenic	2E-07	9E-07	5E-07	1E-06	3E-06	8E-07	2E-07			1E-05			2E-05
Barium	1E-08	1E-08	3E-09	2E-08	5E-09	1E-07	5E-10			0E+00		2E-07	2E-07
Beryllium	9E-09	1E-09	2E-10	2E-09	1E-08	8E-11	3E-09			4E-09			3E-08
Cadmium	1E-08	1E-07	7E-08	2E-07	1E-08	6E-09	1E-09			5E-06			5E-06
Chromium VI	2E-10	4E-10	2E-10	1E-09	2E-08	4E-08	5E-10			2E-09			6E-08
Chromium III	1E-10	1E-11	9E-12	2E-11	9E-10	2E-09	2E-10			7E-14			3E-09
Cobalt	7E-09	2E-08	1E-10	3E-08	1E-06	1E-06	7E-08			0E+00			3E-06
Hydrogen Chloride												1E-03	
Selenium	2E-09	1E-08	2E-08	3E-08	2E-07	3E-06	5E-07			2E-04			3E-04
Chlorine												5E-04	
Methylmercury - Developmental Effects	1E-07	2E-06	3E-07	2E-06	5E-06	1E-05	2E-09			3E-03			3E-03
Methylmercury - Neurological Effects	5E-08	7E-07	1E-07	5E-07	2E-06	4E-06	8E-10			9E-04			9E-04

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Catalpa Creek	6E-08	7E-07	0E+00	5E-10	8E-07
2,3,7,8-TCDD-TEQ	Gilmer Creek	6E-08	1E-06	0E+00	5E-10	1E-06
2,3,7,8-TCDD-TEQ	N. Branch Magowah Creek	6E-08	3E-06	0E+00	5E-10	3E-06
2,3,7,8-TCDD-TEQ	Shotbag Creek	6E-08	9E-07	0E+00	5E-10	1E-06
Nickel	Catalpa Creek				7E-11	
Nickel	Gilmer Creek				7E-11	
Nickel	N. Branch Magowah Creek				7E-11	
Nickel	Shotbag Creek				7E-11	
Arsenic	Catalpa Creek	2E-10	8E-11	0E+00	2E-10	2E-10
Arsenic	Gilmer Creek	2E-10	3E-10	0E+00	2E-10	5E-10
Arsenic	N. Branch Magowah Creek	2E-10	1E-10	0E+00	2E-10	3E-10
Arsenic	Shotbag Creek	2E-10	5E-11	0E+00	2E-10	2E-10
Beryllium	Catalpa Creek				1E-12	
Beryllium	Gilmer Creek				1E-12	
Beryllium	N. Branch Magowah Creek				1E-12	
Beryllium	Shotbag Creek				1E-12	
Cadmium	Catalpa Creek				3E-12	
Cadmium	Gilmer Creek				3E-12	
Cadmium	N. Branch Magowah Creek				3E-12	
Cadmium	Shotbag Creek				3E-12	
Chromium VI	Catalpa Creek				8E-12	
Chromium VI	Gilmer Creek				8E-12	
Chromium VI	N. Branch Magowah Creek				8E-12	
Chromium VI	Shotbag Creek				8E-12	
	Noncarcinogenic Chemicals					
Manganese	Catalpa Creek	1E-07	0E+00	0E+00	3E-05	1E-07
Manganese	Gilmer Creek	1E-07	0E+00	0E+00	3E-05	1E-07
Manganese	N. Branch Magowah Creek	1E-07	0E+00	0E+00	3E-05	1E-07
Manganese	Shotbag Creek	1E-07	0E+00	0E+00	3E-05	1E-07
Mercury (elemental)	Catalpa Creek				4E-06	
Mercury (elemental)	Gilmer Creek				4E-06	
Mercury (elemental)	N. Branch Magowah Creek				4E-06	
Mercury (elemental)	Shotbag Creek				4E-06	
Mercury (divalent)	Catalpa Creek	4E-05		0E+00		4E-05
Mercury (divalent)	Gilmer Creek	4E-05		0E+00		4E-05
Mercury (divalent)	N. Branch Magowah Creek	4E-05		0E+00		4E-05
Mercury (divalent)	Shotbag Creek	4E-05		0E+00		4E-05
Nickel	Catalpa Creek	3E-07	5E-08	0E+00		4E-07
Nickel	Gilmer Creek	3E-07	2E-07	0E+00		6E-07
Nickel	N. Branch Magowah Creek	3E-07	7E-08	0E+00		4E-07
Nickel	Shotbag Creek	3E-07	3E-08	0E+00		4E-07
Silver	Catalpa Creek	2E-09	0E+00	0E+00		2E-09
Silver	Gilmer Creek	2E-09	0E+00	0E+00		2E-09
Silver	N. Branch Magowah Creek	2E-09	0E+00	0E+00		2E-09
Silver	Shotbag Creek	2E-09	0E+00	0E+00		2E-09
Thallium	Catalpa Creek	1E-05	6E-05	0E+00		7E-05
Thallium	Gilmer Creek	1E-05	2E-04	0E+00		3E-04
Thallium	N. Branch Magowah Creek	1E-05	8E-05	0E+00		9E-05
Thallium	Shotbag Creek	1E-05	4E-05	0E+00		5E-05

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Catalpa Creek	9E-08	0E+00	0E+00		9E-08
Antimony	Gilmer Creek	9E-08	0E+00	0E+00		9E-08
Antimony	N. Branch Magowah Creek	9E-08	0E+00	0E+00		9E-08
Antimony	Shotbag Creek	9E-08	0E+00	0E+00		9E-08
Arsenic	Catalpa Creek	4E-06	2E-06	0E+00		6E-06
Arsenic	Gilmer Creek	4E-06	8E-06	0E+00		1E-05
Arsenic	N. Branch Magowah Creek	4E-06	3E-06	0E+00		7E-06
Arsenic	Shotbag Creek	4E-06	1E-06	0E+00		5E-06
Barium	Catalpa Creek	2E-07	0E+00	0E+00	2E-07	2E-07
Barium	Gilmer Creek	2E-07	0E+00	0E+00	2E-07	2E-07
Barium	N. Branch Magowah Creek	2E-07	0E+00	0E+00	2E-07	2E-07
Barium	Shotbag Creek	2E-07	0E+00	0E+00	2E-07	2E-07
Beryllium	Catalpa Creek	2E-07	5E-09	0E+00		2E-07
Beryllium	Gilmer Creek	2E-07	1E-08	0E+00		2E-07
Beryllium	N. Branch Magowah Creek	2E-07	1E-08	0E+00		2E-07
Beryllium	Shotbag Creek	2E-07	5E-09	0E+00		2E-07
Cadmium	Catalpa Creek	2E-07	1E-06	0E+00		1E-06
Cadmium	Gilmer Creek	2E-07	5E-06	0E+00		5E-06
Cadmium	N. Branch Magowah Creek	2E-07	2E-06	0E+00		2E-06
Cadmium	Shotbag Creek	2E-07	8E-07	0E+00		1E-06
Chromium VI	Catalpa Creek	3E-09	3E-10	0E+00		3E-09
Chromium VI	Gilmer Creek	3E-09	1E-09	0E+00		4E-09
Chromium VI	N. Branch Magowah Creek	3E-09	5E-10	0E+00		3E-09
Chromium VI	Shotbag Creek	3E-09	2E-10	0E+00		3E-09
Chromium III	Catalpa Creek	2E-09	6E-13	0E+00		2E-09
Chromium III	Gilmer Creek	2E-09	6E-13	0E+00		2E-09
Chromium III	N. Branch Magowah Creek	2E-09	3E-12	0E+00		2E-09
Chromium III	Shotbag Creek	2E-09	8E-13	0E+00		2E-09
Cobalt	Catalpa Creek	1E-07	0E+00	0E+00		1E-07
Cobalt	Gilmer Creek	1E-07	0E+00	0E+00		1E-07
Cobalt	N. Branch Magowah Creek	1E-07	0E+00	0E+00		1E-07
Cobalt	Shotbag Creek	1E-07	0E+00	0E+00		1E-07
Hydrogen Chloride	Catalpa Creek				1E-03	
Hydrogen Chloride	Gilmer Creek				1E-03	
Hydrogen Chloride	N. Branch Magowah Creek				1E-03	
Hydrogen Chloride	Shotbag Creek				1E-03	
Selenium	Catalpa Creek	4E-08	4E-05	0E+00		4E-05
Selenium	Gilmer Creek	4E-08	2E-04	0E+00		2E-04
Selenium	N. Branch Magowah Creek	4E-08	5E-05	0E+00		5E-05
Selenium	Shotbag Creek	4E-08	3E-05	0E+00		3E-05
Chlorine	Catalpa Creek				5E-04	
Chlorine	Gilmer Creek				5E-04	
Chlorine	N. Branch Magowah Creek				5E-04	
Chlorine	Shotbag Creek				5E-04	
Methylmercury - Developmental Effects	Catalpa Creek	2E-06	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	Gilmer Creek	2E-06	3E-02	0E+00		3E-02
Methylmercury - Developmental Effects	N. Branch Magowah Creek	2E-06	9E-02	0E+00		9E-02
Methylmercury - Developmental Effects	Shotbag Creek	2E-06	2E-02	0E+00		2E-02

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Catalpa Creek	8E-07	7E-03	0E+00		7E-03
Methylmercury - Neurological Effects	Gilmer Creek	8E-07	9E-03	0E+00		9E-03
Methylmercury - Neurological Effects	N. Branch Magowah Creek	8E-07	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Shotbag Creek	8E-07	8E-03	0E+00		8E-03

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Catalpa Creek	2E-08	1E-06	0E+00	6E-10	1E-06
2,3,7,8-TCDD-TEQ	Gilmer Creek	2E-08	1E-06	0E+00	6E-10	1E-06
2,3,7,8-TCDD-TEQ	N. Branch Magowah Creek	2E-08	4E-06	0E+00	6E-10	4E-06
2,3,7,8-TCDD-TEQ	Shotbag Creek	2E-08	1E-06	0E+00	6E-10	1E-06
Nickel	Catalpa Creek				8E-11	
Nickel	Gilmer Creek				8E-11	
Nickel	N. Branch Magowah Creek				8E-11	
Nickel	Shotbag Creek				8E-11	
Arsenic	Catalpa Creek	6E-11	1E-10	0E+00	2E-10	2E-10
Arsenic	Gilmer Creek	6E-11	5E-10	0E+00	2E-10	5E-10
Arsenic	N. Branch Magowah Creek	6E-11	1E-10	0E+00	2E-10	2E-10
Arsenic	Shotbag Creek	6E-11	7E-11	0E+00	2E-10	1E-10
Beryllium	Catalpa Creek				1E-12	
Beryllium	Gilmer Creek				1E-12	
Beryllium	N. Branch Magowah Creek				1E-12	
Beryllium	Shotbag Creek				1E-12	
Cadmium	Catalpa Creek				3E-12	
Cadmium	Gilmer Creek				3E-12	
Cadmium	N. Branch Magowah Creek				3E-12	
Cadmium	Shotbag Creek				3E-12	
Chromium VI	Catalpa Creek				9E-12	
Chromium VI	Gilmer Creek				9E-12	
Chromium VI	N. Branch Magowah Creek				9E-12	
Chromium VI	Shotbag Creek				9E-12	
	Noncarcinogenic Chemicals					
Manganese	Catalpa Creek	3E-08	0E+00	0E+00	3E-05	3E-08
Manganese	Gilmer Creek	3E-08	0E+00	0E+00	3E-05	3E-08
Manganese	N. Branch Magowah Creek	3E-08	0E+00	0E+00	3E-05	3E-08
Manganese	Shotbag Creek	3E-08	0E+00	0E+00	3E-05	3E-08
Mercury (elemental)	Catalpa Creek				4E-06	
Mercury (elemental)	Gilmer Creek				4E-06	
Mercury (elemental)	N. Branch Magowah Creek				4E-06	
Mercury (elemental)	Shotbag Creek				4E-06	
Mercury (divalent)	Catalpa Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Gilmer Creek	1E-05		0E+00		1E-05
Mercury (divalent)	N. Branch Magowah Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Shotbag Creek	1E-05		0E+00		1E-05
Nickel	Catalpa Creek	9E-08	5E-08	0E+00		1E-07
Nickel	Gilmer Creek	9E-08	2E-07	0E+00		3E-07
Nickel	N. Branch Magowah Creek	9E-08	7E-08	0E+00		2E-07
Nickel	Shotbag Creek	9E-08	3E-08	0E+00		1E-07
Silver	Catalpa Creek	5E-10	0E+00	0E+00		5E-10
Silver	Gilmer Creek	5E-10	0E+00	0E+00		5E-10
Silver	N. Branch Magowah Creek	5E-10	0E+00	0E+00		5E-10
Silver	Shotbag Creek	5E-10	0E+00	0E+00		5E-10
Thallium	Catalpa Creek	4E-06	6E-05	0E+00		6E-05
Thallium	Gilmer Creek	4E-06	2E-04	0E+00		2E-04
Thallium	N. Branch Magowah Creek	4E-06	8E-05	0E+00		8E-05
Thallium	Shotbag Creek	4E-06	4E-05	0E+00		4E-05

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Catalpa Creek	2E-08	0E+00	0E+00		2E-08
Antimony	Gilmer Creek	2E-08	0E+00	0E+00		2E-08
Antimony	N. Branch Magowah Creek	2E-08	0E+00	0E+00		2E-08
Antimony	Shotbag Creek	2E-08	0E+00	0E+00		2E-08
Arsenic	Catalpa Creek	1E-06	2E-06	0E+00		3E-06
Arsenic	Gilmer Creek	1E-06	8E-06	0E+00		9E-06
Arsenic	N. Branch Magowah Creek	1E-06	3E-06	0E+00		4E-06
Arsenic	Shotbag Creek	1E-06	1E-06	0E+00		2E-06
Barium	Catalpa Creek	5E-08	0E+00	0E+00	2E-07	5E-08
Barium	Gilmer Creek	5E-08	0E+00	0E+00	2E-07	5E-08
Barium	N. Branch Magowah Creek	5E-08	0E+00	0E+00	2E-07	5E-08
Barium	Shotbag Creek	5E-08	0E+00	0E+00	2E-07	5E-08
Beryllium	Catalpa Creek	4E-08	5E-09	0E+00		5E-08
Beryllium	Gilmer Creek	4E-08	1E-08	0E+00		5E-08
Beryllium	N. Branch Magowah Creek	4E-08	1E-08	0E+00		5E-08
Beryllium	Shotbag Creek	4E-08	5E-09	0E+00		5E-08
Cadmium	Catalpa Creek	5E-08	1E-06	0E+00		1E-06
Cadmium	Gilmer Creek	5E-08	5E-06	0E+00		5E-06
Cadmium	N. Branch Magowah Creek	5E-08	2E-06	0E+00		2E-06
Cadmium	Shotbag Creek	5E-08	8E-07	0E+00		9E-07
Chromium VI	Catalpa Creek	7E-10	3E-10	0E+00		1E-09
Chromium VI	Gilmer Creek	7E-10	1E-09	0E+00		2E-09
Chromium VI	N. Branch Magowah Creek	7E-10	5E-10	0E+00		1E-09
Chromium VI	Shotbag Creek	7E-10	2E-10	0E+00		9E-10
Chromium III	Catalpa Creek	6E-10	6E-13	0E+00		6E-10
Chromium III	Gilmer Creek	6E-10	6E-13	0E+00		6E-10
Chromium III	N. Branch Magowah Creek	6E-10	3E-12	0E+00		6E-10
Chromium III	Shotbag Creek	6E-10	8E-13	0E+00		6E-10
Cobalt	Catalpa Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Gilmer Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	N. Branch Magowah Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Shotbag Creek	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Catalpa Creek				1E-03	
Hydrogen Chloride	Gilmer Creek				1E-03	
Hydrogen Chloride	N. Branch Magowah Creek				1E-03	
Hydrogen Chloride	Shotbag Creek				1E-03	
Selenium	Catalpa Creek	1E-08	4E-05	0E+00		4E-05
Selenium	Gilmer Creek	1E-08	2E-04	0E+00		2E-04
Selenium	N. Branch Magowah Creek	1E-08	5E-05	0E+00		5E-05
Selenium	Shotbag Creek	1E-08	3E-05	0E+00		3E-05
Chlorine	Catalpa Creek				5E-04	
Chlorine	Gilmer Creek				5E-04	
Chlorine	N. Branch Magowah Creek				5E-04	
Chlorine	Shotbag Creek				5E-04	
Methylmercury - Developmental Effects	Catalpa Creek	6E-07	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	Gilmer Creek	6E-07	3E-02	0E+00		3E-02
Methylmercury - Developmental Effects	N. Branch Magowah Creek	6E-07	9E-02	0E+00		9E-02
Methylmercury - Developmental Effects	Shotbag Creek	6E-07	2E-02	0E+00		2E-02

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Catalpa Creek	2E-07	7E-03	0E+00		7E-03
Methylmercury - Neurological Effects	Gilmer Creek	2E-07	9E-03	0E+00		9E-03
Methylmercury - Neurological Effects	N. Branch Magowah Creek	2E-07	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Shotbag Creek	2E-07	8E-03	0E+00		8E-03

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Catalpa Creek	1E-08	7E-07	0E+00	4E-10	7E-07
2,3,7,8-TCDD-TEQ	Gilmer Creek	1E-08	1E-06	0E+00	4E-10	1E-06
2,3,7,8-TCDD-TEQ	N. Branch Magowah Creek	1E-08	3E-06	0E+00	4E-10	3E-06
2,3,7,8-TCDD-TEQ	Shotbag Creek	1E-08	9E-07	0E+00	4E-10	9E-07
Nickel	Catalpa Creek				5E-11	
Nickel	Gilmer Creek				5E-11	
Nickel	N. Branch Magowah Creek				5E-11	
Nickel	Shotbag Creek				5E-11	
Arsenic	Catalpa Creek	3E-11	8E-11	0E+00	1E-10	1E-10
Arsenic	Gilmer Creek	3E-11	3E-10	0E+00	1E-10	4E-10
Arsenic	N. Branch Magowah Creek	3E-11	1E-10	0E+00	1E-10	1E-10
Arsenic	Shotbag Creek	3E-11	5E-11	0E+00	1E-10	8E-11
Beryllium	Catalpa Creek				7E-13	
Beryllium	Gilmer Creek				7E-13	
Beryllium	N. Branch Magowah Creek				7E-13	
Beryllium	Shotbag Creek				7E-13	
Cadmium	Catalpa Creek				2E-12	
Cadmium	Gilmer Creek				2E-12	
Cadmium	N. Branch Magowah Creek				2E-12	
Cadmium	Shotbag Creek				2E-12	
Chromium VI	Catalpa Creek				6E-12	
Chromium VI	Gilmer Creek				6E-12	
Chromium VI	N. Branch Magowah Creek				6E-12	
Chromium VI	Shotbag Creek				6E-12	
	Noncarcinogenic Chemicals					
Manganese	Catalpa Creek	2E-08	0E+00	0E+00	3E-05	2E-08
Manganese	Gilmer Creek	2E-08	0E+00	0E+00	3E-05	2E-08
Manganese	N. Branch Magowah Creek	2E-08	0E+00	0E+00	3E-05	2E-08
Manganese	Shotbag Creek	2E-08	0E+00	0E+00	3E-05	2E-08
Mercury (elemental)	Catalpa Creek				4E-06	
Mercury (elemental)	Gilmer Creek				4E-06	
Mercury (elemental)	N. Branch Magowah Creek				4E-06	
Mercury (elemental)	Shotbag Creek				4E-06	
Mercury (divalent)	Catalpa Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Gilmer Creek	6E-06		0E+00		6E-06
Mercury (divalent)	N. Branch Magowah Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Shotbag Creek	6E-06		0E+00		6E-06
Nickel	Catalpa Creek	5E-08	4E-08	0E+00		8E-08
Nickel	Gilmer Creek	5E-08	2E-07	0E+00		2E-07
Nickel	N. Branch Magowah Creek	5E-08	5E-08	0E+00		1E-07
Nickel	Shotbag Creek	5E-08	2E-08	0E+00		7E-08
Silver	Catalpa Creek	3E-10	0E+00	0E+00		3E-10
Silver	Gilmer Creek	3E-10	0E+00	0E+00		3E-10
Silver	N. Branch Magowah Creek	3E-10	0E+00	0E+00		3E-10
Silver	Shotbag Creek	3E-10	0E+00	0E+00		3E-10
Thallium	Catalpa Creek	2E-06	4E-05	0E+00		4E-05
Thallium	Gilmer Creek	2E-06	2E-04	0E+00		2E-04
Thallium	N. Branch Magowah Creek	2E-06	5E-05	0E+00		6E-05
Thallium	Shotbag Creek	2E-06	3E-05	0E+00		3E-05

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Catalpa Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Gilmer Creek	1E-08	0E+00	0E+00		1E-08
Antimony	N. Branch Magowah Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Shotbag Creek	1E-08	0E+00	0E+00		1E-08
Arsenic	Catalpa Creek	6E-07	1E-06	0E+00		2E-06
Arsenic	Gilmer Creek	6E-07	6E-06	0E+00		7E-06
Arsenic	N. Branch Magowah Creek	6E-07	2E-06	0E+00		2E-06
Arsenic	Shotbag Creek	6E-07	9E-07	0E+00		1E-06
Barium	Catalpa Creek	3E-08	0E+00	0E+00	2E-07	3E-08
Barium	Gilmer Creek	3E-08	0E+00	0E+00	2E-07	3E-08
Barium	N. Branch Magowah Creek	3E-08	0E+00	0E+00	2E-07	3E-08
Barium	Shotbag Creek	3E-08	0E+00	0E+00	2E-07	3E-08
Beryllium	Catalpa Creek	2E-08	3E-09	0E+00		3E-08
Beryllium	Gilmer Creek	2E-08	9E-09	0E+00		3E-08
Beryllium	N. Branch Magowah Creek	2E-08	8E-09	0E+00		3E-08
Beryllium	Shotbag Creek	2E-08	4E-09	0E+00		3E-08
Cadmium	Catalpa Creek	3E-08	9E-07	0E+00		9E-07
Cadmium	Gilmer Creek	3E-08	4E-06	0E+00		4E-06
Cadmium	N. Branch Magowah Creek	3E-08	1E-06	0E+00		1E-06
Cadmium	Shotbag Creek	3E-08	6E-07	0E+00		6E-07
Chromium VI	Catalpa Creek	4E-10	2E-10	0E+00		6E-10
Chromium VI	Gilmer Creek	4E-10	1E-09	0E+00		1E-09
Chromium VI	N. Branch Magowah Creek	4E-10	3E-10	0E+00		7E-10
Chromium VI	Shotbag Creek	4E-10	2E-10	0E+00		5E-10
Chromium III	Catalpa Creek	3E-10	4E-13	0E+00		3E-10
Chromium III	Gilmer Creek	3E-10	4E-13	0E+00		3E-10
Chromium III	N. Branch Magowah Creek	3E-10	2E-12	0E+00		3E-10
Chromium III	Shotbag Creek	3E-10	5E-13	0E+00		3E-10
Cobalt	Catalpa Creek	2E-08	0E+00	0E+00		2E-08
Cobalt	Gilmer Creek	2E-08	0E+00	0E+00		2E-08
Cobalt	N. Branch Magowah Creek	2E-08	0E+00	0E+00		2E-08
Cobalt	Shotbag Creek	2E-08	0E+00	0E+00		2E-08
Hydrogen Chloride	Catalpa Creek				1E-03	
Hydrogen Chloride	Gilmer Creek				1E-03	
Hydrogen Chloride	N. Branch Magowah Creek				1E-03	
Hydrogen Chloride	Shotbag Creek				1E-03	
Selenium	Catalpa Creek	6E-09	3E-05	0E+00		3E-05
Selenium	Gilmer Creek	6E-09	1E-04	0E+00		1E-04
Selenium	N. Branch Magowah Creek	6E-09	4E-05	0E+00		4E-05
Selenium	Shotbag Creek	6E-09	2E-05	0E+00		2E-05
Chlorine	Catalpa Creek				5E-04	
Chlorine	Gilmer Creek				5E-04	
Chlorine	N. Branch Magowah Creek				5E-04	
Chlorine	Shotbag Creek				5E-04	
Methylmercury - Developmental Effects	Catalpa Creek	3E-07	1E-02	0E+00		1E-02
Methylmercury - Developmental Effects	Gilmer Creek	3E-07	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	N. Branch Magowah Creek	3E-07	7E-02	0E+00		7E-02
Methylmercury - Developmental Effects	Shotbag Creek	3E-07	2E-02	0E+00		2E-02

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Catalpa Creek	1E-07	5E-03	0E+00		5E-03
Methylmercury - Neurological Effects	Gilmer Creek	1E-07	6E-03	0E+00		6E-03
Methylmercury - Neurological Effects	N. Branch Magowah Creek	1E-07	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Shotbag Creek	1E-07	6E-03	0E+00		6E-03

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Catalpa Creek	8E-09	1E-06	0E+00	6E-10	1E-06
2,3,7,8-TCDD-TEQ	Gilmer Creek	8E-09	2E-06	0E+00	6E-10	2E-06
2,3,7,8-TCDD-TEQ	N. Branch Magowah Creek	8E-09	6E-06	0E+00	6E-10	6E-06
2,3,7,8-TCDD-TEQ	Shotbag Creek	8E-09	2E-06	0E+00	6E-10	2E-06
Nickel	Catalpa Creek				8E-11	
Nickel	Gilmer Creek				8E-11	
Nickel	N. Branch Magowah Creek				8E-11	
Nickel	Shotbag Creek				8E-11	
Arsenic	Catalpa Creek	2E-11	1E-10	0E+00	2E-10	2E-10
Arsenic	Gilmer Creek	2E-11	6E-10	0E+00	2E-10	7E-10
Arsenic	N. Branch Magowah Creek	2E-11	2E-10	0E+00	2E-10	2E-10
Arsenic	Shotbag Creek	2E-11	1E-10	0E+00	2E-10	1E-10
Beryllium	Catalpa Creek				1E-12	
Beryllium	Gilmer Creek				1E-12	
Beryllium	N. Branch Magowah Creek				1E-12	
Beryllium	Shotbag Creek				1E-12	
Cadmium	Catalpa Creek				3E-12	
Cadmium	Gilmer Creek				3E-12	
Cadmium	N. Branch Magowah Creek				3E-12	
Cadmium	Shotbag Creek				3E-12	
Chromium VI	Catalpa Creek				9E-12	
Chromium VI	Gilmer Creek				9E-12	
Chromium VI	N. Branch Magowah Creek				9E-12	
Chromium VI	Shotbag Creek				9E-12	
	Noncarcinogenic Chemicals					
Manganese	Catalpa Creek	6E-09	0E+00	0E+00	3E-05	6E-09
Manganese	Gilmer Creek	6E-09	0E+00	0E+00	3E-05	6E-09
Manganese	N. Branch Magowah Creek	6E-09	0E+00	0E+00	3E-05	6E-09
Manganese	Shotbag Creek	6E-09	0E+00	0E+00	3E-05	6E-09
Mercury (elemental)	Catalpa Creek				4E-06	
Mercury (elemental)	Gilmer Creek				4E-06	
Mercury (elemental)	N. Branch Magowah Creek				4E-06	
Mercury (elemental)	Shotbag Creek				4E-06	
Mercury (divalent)	Catalpa Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Gilmer Creek	2E-06		0E+00		2E-06
Mercury (divalent)	N. Branch Magowah Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Shotbag Creek	2E-06		0E+00		2E-06
Nickel	Catalpa Creek	2E-08	4E-08	0E+00		6E-08
Nickel	Gilmer Creek	2E-08	2E-07	0E+00		2E-07
Nickel	N. Branch Magowah Creek	2E-08	5E-08	0E+00		7E-08
Nickel	Shotbag Creek	2E-08	2E-08	0E+00		4E-08
Silver	Catalpa Creek	1E-10	0E+00	0E+00		1E-10
Silver	Gilmer Creek	1E-10	0E+00	0E+00		1E-10
Silver	N. Branch Magowah Creek	1E-10	0E+00	0E+00		1E-10
Silver	Shotbag Creek	1E-10	0E+00	0E+00		1E-10
Thallium	Catalpa Creek	8E-07	4E-05	0E+00		4E-05
Thallium	Gilmer Creek	8E-07	2E-04	0E+00		2E-04
Thallium	N. Branch Magowah Creek	8E-07	5E-05	0E+00		6E-05
Thallium	Shotbag Creek	8E-07	3E-05	0E+00		3E-05

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Catalpa Creek	5E-09	0E+00	0E+00		5E-09
Antimony	Gilmer Creek	5E-09	0E+00	0E+00		5E-09
Antimony	N. Branch Magowah Creek	5E-09	0E+00	0E+00		5E-09
Antimony	Shotbag Creek	5E-09	0E+00	0E+00		5E-09
Arsenic	Catalpa Creek	2E-07	1E-06	0E+00		2E-06
Arsenic	Gilmer Creek	2E-07	6E-06	0E+00		6E-06
Arsenic	N. Branch Magowah Creek	2E-07	2E-06	0E+00		2E-06
Arsenic	Shotbag Creek	2E-07	9E-07	0E+00		1E-06
Barium	Catalpa Creek	1E-08	0E+00	0E+00	2E-07	1E-08
Barium	Gilmer Creek	1E-08	0E+00	0E+00	2E-07	1E-08
Barium	N. Branch Magowah Creek	1E-08	0E+00	0E+00	2E-07	1E-08
Barium	Shotbag Creek	1E-08	0E+00	0E+00	2E-07	1E-08
Beryllium	Catalpa Creek	9E-09	3E-09	0E+00		1E-08
Beryllium	Gilmer Creek	9E-09	9E-09	0E+00		2E-08
Beryllium	N. Branch Magowah Creek	9E-09	8E-09	0E+00		2E-08
Beryllium	Shotbag Creek	9E-09	4E-09	0E+00		1E-08
Cadmium	Catalpa Creek	1E-08	9E-07	0E+00		9E-07
Cadmium	Gilmer Creek	1E-08	4E-06	0E+00		4E-06
Cadmium	N. Branch Magowah Creek	1E-08	1E-06	0E+00		1E-06
Cadmium	Shotbag Creek	1E-08	6E-07	0E+00		6E-07
Chromium VI	Catalpa Creek	2E-10	2E-10	0E+00		4E-10
Chromium VI	Gilmer Creek	2E-10	1E-09	0E+00		1E-09
Chromium VI	N. Branch Magowah Creek	2E-10	3E-10	0E+00		5E-10
Chromium VI	Shotbag Creek	2E-10	2E-10	0E+00		3E-10
Chromium III	Catalpa Creek	1E-10	4E-13	0E+00		1E-10
Chromium III	Gilmer Creek	1E-10	4E-13	0E+00		1E-10
Chromium III	N. Branch Magowah Creek	1E-10	2E-12	0E+00		1E-10
Chromium III	Shotbag Creek	1E-10	5E-13	0E+00		1E-10
Cobalt	Catalpa Creek	7E-09	0E+00	0E+00		7E-09
Cobalt	Gilmer Creek	7E-09	0E+00	0E+00		7E-09
Cobalt	N. Branch Magowah Creek	7E-09	0E+00	0E+00		7E-09
Cobalt	Shotbag Creek	7E-09	0E+00	0E+00		7E-09
Hydrogen Chloride	Catalpa Creek				1E-03	
Hydrogen Chloride	Gilmer Creek				1E-03	
Hydrogen Chloride	N. Branch Magowah Creek				1E-03	
Hydrogen Chloride	Shotbag Creek				1E-03	
Selenium	Catalpa Creek	2E-09	3E-05	0E+00		3E-05
Selenium	Gilmer Creek	2E-09	1E-04	0E+00		1E-04
Selenium	N. Branch Magowah Creek	2E-09	4E-05	0E+00		4E-05
Selenium	Shotbag Creek	2E-09	2E-05	0E+00		2E-05
Chlorine	Catalpa Creek				5E-04	
Chlorine	Gilmer Creek				5E-04	
Chlorine	N. Branch Magowah Creek				5E-04	
Chlorine	Shotbag Creek				5E-04	
Methylmercury - Developmental Effects	Catalpa Creek	1E-07	1E-02	0E+00		1E-02
Methylmercury - Developmental Effects	Gilmer Creek	1E-07	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	N. Branch Magowah Creek	1E-07	7E-02	0E+00		7E-02
Methylmercury - Developmental Effects	Shotbag Creek	1E-07	2E-02	0E+00		2E-02

Table IX-B4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 203) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Catalpa Creek	5E-08	5E-03	0E+00		5E-03
Methylmercury - Neurological Effects	Gilmer Creek	5E-08	6E-03	0E+00		6E-03
Methylmercury - Neurological Effects	N. Branch Magowah Creek	5E-08	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Shotbag Creek	5E-08	6E-03	0E+00		6E-03

Table IX-B5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-08	1E-09	3E-09	3E-09	5E-07	5E-06	2E-07	2E-06	1E-06	1E-06	3E-12	4E-10	9E-06
Nickel												1E-11	
Arsenic	1E-10	3E-11	2E-11	6E-11	1E-10	2E-10	1E-11			9E-10	1E-12	4E-11	1E-09
Beryllium												2E-11	
Cadmium												3E-10	
Chromium VI												2E-11	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	1E-07	4E-07	6E-08	3E-06	6E-09			0E+00	1E-09	2E-05	4E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	5E-06	1E-05	1E-05	1E-04	1E-03	3E-07				3E-08		1E-03
Nickel	2E-07	8E-08	4E-08	2E-07	1E-06	1E-05	1E-07			5E-07	3E-09		2E-05
Silver	2E-09	2E-08	7E-09	5E-08	2E-07	9E-05	9E-09			0E+00	1E-09		9E-05
Thallium	1E-04	5E-06	4E-07	1E-05	1E-03	4E-03	2E-04			4E-03	4E-07		1E-02
Antimony	6E-07	2E-06	6E-07	3E-06	2E-06	1E-05	1E-07			0E+00	7E-08		2E-05
Arsenic	3E-06	9E-07	5E-07	2E-06	2E-06	4E-06	4E-07			2E-05	3E-08		3E-05
Barium	5E-06	5E-07	1E-07	1E-06	2E-07	3E-05	4E-08			0E+00	1E-09	3E-06	4E-05
Beryllium	6E-06	6E-08	1E-08	2E-07	7E-07	3E-08	3E-07			5E-07	2E-09		8E-06
Cadmium	7E-05	6E-05	3E-05	1E-04	5E-06	2E-05	1E-06			4E-03	3E-07		4E-03
Chromium VI	3E-08	5E-09	3E-09	1E-08	2E-07	3E-06	1E-08			5E-08	4E-10		3E-06
Chromium III	2E-07	2E-09	2E-09	5E-09	2E-07	2E-06	6E-08			3E-11	3E-13		2E-06
Cobalt	3E-07	4E-08	3E-10	9E-08	3E-06	2E-05	3E-07			0E+00	2E-09		2E-05
Hydrogen Chloride												3E-04	
Selenium	3E-06	1E-06	2E-06	2E-06	1E-05	1E-03	7E-05			5E-02	2E-07		5E-02
Chlorine												3E-04	
Methylmercury - Developmental Effects	7E-06	1E-06	2E-06	1E-06	6E-06	7E-05	2E-08			7E-03	1E-09		7E-03
Methylmercury - Neurological Effects	2E-06	4E-07	6E-07	4E-07	2E-06	2E-05	6E-09			2E-03	5E-10		2E-03

Table IX-B5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	9E-10	3E-09	4E-09	9E-07	3E-06	1E-07	2E-06	1E-06	1E-06	2E-12	4E-10	8E-06
Nickel												2E-11	
Arsenic	5E-11	2E-11	2E-11	8E-11	2E-10	1E-10	1E-11			9E-10	1E-12	4E-11	1E-09
Beryllium												2E-11	
Cadmium												3E-10	
Chromium VI												3E-11	
	Noncarcinogenic Chemicals												
Manganese	6E-08	1E-07	8E-08	4E-07	7E-08	2E-06	4E-09			0E+00	6E-10	2E-05	2E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	3E-06	9E-06	1E-05	1E-04	6E-04	2E-07				2E-08		8E-04
Nickel	6E-08	4E-08	3E-08	2E-07	2E-06	7E-06	6E-08			4E-07	2E-09		9E-06
Silver	6E-10	1E-08	5E-09	5E-08	3E-07	5E-05	5E-09			0E+00	7E-10		5E-05
Thallium	3E-05	3E-06	3E-07	1E-05	2E-03	2E-03	1E-04			3E-03	2E-07		7E-03
Antimony	1E-07	9E-07	4E-07	3E-06	2E-06	6E-06	6E-08			0E+00	4E-08		1E-05
Arsenic	9E-07	5E-07	3E-07	2E-06	3E-06	2E-06	2E-07			2E-05	2E-08		2E-05
Barium	1E-06	3E-07	9E-08	9E-07	3E-07	1E-05	2E-08			0E+00	6E-10	3E-06	2E-05
Beryllium	2E-06	4E-08	1E-08	1E-07	9E-07	1E-08	2E-07			4E-07	9E-10		3E-06
Cadmium	2E-05	3E-05	2E-05	1E-04	6E-06	8E-06	6E-07			3E-03	2E-07		3E-03
Chromium VI	7E-09	3E-09	2E-09	1E-08	2E-07	1E-06	8E-09			4E-08	2E-10		2E-06
Chromium III	6E-08	1E-09	1E-09	5E-09	2E-07	9E-07	4E-08			2E-11	2E-13		1E-06
Cobalt	7E-08	2E-08	2E-10	9E-08	3E-06	8E-06	2E-07			0E+00	1E-09		1E-05
Hydrogen Chloride												3E-04	
Selenium	8E-07	6E-07	2E-06	2E-06	2E-05	6E-04	4E-05			3E-02	9E-08		3E-02
Chlorine												3E-04	
Methylmercury - Developmental Effects	2E-06	7E-07	1E-06	1E-06	8E-06	3E-05	1E-08			5E-03	8E-10		5E-03
Methylmercury - Neurological Effects	6E-07	2E-07	4E-07	4E-07	3E-06	1E-05	3E-09			2E-03	3E-10		2E-03

Table IX-B5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	7E-10	2E-09	2E-09	4E-07	2E-06	9E-08	1E-06	6E-07	6E-07	1E-12	3E-10	4E-06
Nickel												1E-11	
Arsenic	3E-11	2E-11	1E-11	4E-11	8E-11	5E-11	8E-12			5E-10	6E-13	3E-11	7E-10
Beryllium												1E-11	
Cadmium												2E-10	
Chromium VI												2E-11	
	Noncarcinogenic Chemicals												
Manganese	3E-08	9E-08	6E-08	2E-07	3E-08	7E-07	2E-09			0E+00	4E-10	2E-05	1E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	2E-05	2E-06	7E-06	6E-06	6E-05	3E-04	1E-07			0E+00	1E-08		4E-04
Nickel	3E-08	3E-08	2E-08	9E-08	8E-07	3E-06	4E-08			2E-07	1E-09		4E-06
Silver	3E-10	9E-09	4E-09	2E-08	1E-07	2E-05	4E-09			0E+00	4E-10		2E-05
Thallium	1E-05	2E-06	2E-07	6E-06	7E-04	9E-04	9E-05			2E-03	1E-07		3E-03
Antimony	8E-08	7E-07	3E-07	2E-06	1E-06	3E-06	4E-08			0E+00	3E-08		6E-06
Arsenic	5E-07	4E-07	2E-07	9E-07	1E-06	9E-07	1E-07			8E-06	1E-08		1E-05
Barium	7E-07	2E-07	7E-08	5E-07	1E-07	7E-06	1E-08			0E+00	4E-10	3E-06	8E-06
Beryllium	8E-07	3E-08	7E-09	8E-08	4E-07	7E-09	1E-07			2E-07	5E-10		2E-06
Cadmium	1E-05	2E-05	1E-05	5E-05	3E-06	4E-06	4E-07			2E-03	1E-07		2E-03
Chromium VI	4E-09	2E-09	1E-09	7E-09	9E-08	6E-07	5E-09			2E-08	2E-10		7E-07
Chromium III	3E-08	9E-10	9E-10	3E-09	8E-08	4E-07	2E-08			1E-11	1E-13		6E-07
Cobalt	4E-08	2E-08	1E-10	5E-08	1E-06	4E-06	1E-07			0E+00	6E-10		5E-06
Hydrogen Chloride												3E-04	
Selenium	4E-07	4E-07	1E-06	1E-06	7E-06	3E-04	3E-05			2E-02	6E-08		2E-02
Chlorine												3E-04	
Methylmercury - Developmental Effects	1E-06	5E-07	9E-07	6E-07	3E-06	2E-05	7E-09			3E-03	5E-10		3E-03
Methylmercury - Neurological Effects	3E-07	2E-07	3E-07	2E-07	1E-06	5E-06	2E-09			9E-04	2E-10		9E-04

Table IX-B5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	2E-09	4E-09	4E-09	9E-07	1E-06	1E-07	2E-06	1E-06	1E-06	3E-12	4E-10	6E-06
Nickel												1E-11	
Arsenic	2E-11	4E-11	2E-11	7E-11	2E-10	4E-11	1E-11			1E-09	1E-12	4E-11	1E-09
Beryllium												2E-11	
Cadmium												3E-10	
Chromium VI												3E-11	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-07	6E-08	2E-07	4E-08	3E-07	2E-09			0E+00	4E-10	2E-05	7E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	7E-06	3E-06	8E-06	5E-06	7E-05	1E-04	1E-07			0E+00	1E-08		2E-04
Nickel	1E-08	5E-08	2E-08	8E-08	9E-07	1E-06	4E-08			2E-07	1E-09		3E-06
Silver	1E-10	1E-08	4E-09	2E-08	1E-07	1E-05	3E-09			0E+00	5E-10		1E-05
Thallium	6E-06	3E-06	2E-07	6E-06	8E-04	4E-04	8E-05			2E-03	2E-07		3E-03
Antimony	3E-08	9E-07	3E-07	2E-06	1E-06	1E-06	4E-08			0E+00	3E-08		5E-06
Arsenic	2E-07	5E-07	3E-07	8E-07	2E-06	4E-07	1E-07			9E-06	1E-08		1E-05
Barium	3E-07	3E-07	7E-08	5E-07	1E-07	3E-06	1E-08			0E+00	5E-10	3E-06	4E-06
Beryllium	3E-07	4E-08	8E-09	7E-08	4E-07	3E-09	9E-08			2E-07	6E-10		1E-06
Cadmium	4E-06	3E-05	2E-05	5E-05	3E-06	2E-06	3E-07			2E-03	1E-07		2E-03
Chromium VI	2E-09	3E-09	2E-09	6E-09	1E-07	3E-07	4E-09			2E-08	2E-10		4E-07
Chromium III	1E-08	1E-09	1E-09	3E-09	9E-08	2E-07	2E-08			1E-11	1E-13		3E-07
Cobalt	2E-08	2E-08	1E-10	4E-08	2E-06	2E-06	1E-07			0E+00	7E-10		3E-06
Hydrogen Chloride												3E-04	
Selenium	2E-07	6E-07	1E-06	1E-06	8E-06	1E-04	2E-05			2E-02	7E-08		2E-02
Chlorine												3E-04	
Methylmercury - Developmental Effects	4E-07	7E-07	1E-06	6E-07	4E-06	7E-06	6E-09			3E-03	6E-10		3E-03
Methylmercury - Neurological Effects	1E-07	2E-07	3E-07	2E-07	1E-06	2E-06	2E-09			1E-03	2E-10		1E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	8E-08	6E-09	3E-12	4E-10	9E-08
2,3,7,8-TCDD-TEQ	Bay Creek	8E-08	5E-07	3E-12	4E-10	6E-07
2,3,7,8-TCDD-TEQ	Little Calumet Creek	8E-08	1E-06	3E-12	4E-10	1E-06
2,3,7,8-TCDD-TEQ	Upper and Lower Swan Lake	8E-08	1E-06	3E-12	4E-10	1E-06
Nickel	Mississippi River				1E-11	
Nickel	Bay Creek				1E-11	
Nickel	Little Calumet Creek				1E-11	
Nickel	Upper and Lower Swan Lake				1E-11	
Arsenic	Mississippi River	1E-10	1E-13	1E-12	4E-11	1E-10
Arsenic	Bay Creek	1E-10	1E-11	1E-12	4E-11	1E-10
Arsenic	Little Calumet Creek	1E-10	1E-11	1E-12	4E-11	1E-10
Arsenic	Upper and Lower Swan Lake	1E-10	2E-10	1E-12	4E-11	3E-10
Beryllium	Mississippi River				2E-11	
Beryllium	Bay Creek				2E-11	
Beryllium	Little Calumet Creek				2E-11	
Beryllium	Upper and Lower Swan Lake				2E-11	
Cadmium	Mississippi River				3E-10	
Cadmium	Bay Creek				3E-10	
Cadmium	Little Calumet Creek				3E-10	
Cadmium	Upper and Lower Swan Lake				3E-10	
Chromium VI	Mississippi River				2E-11	
Chromium VI	Bay Creek				2E-11	
Chromium VI	Little Calumet Creek				2E-11	
Chromium VI	Upper and Lower Swan Lake				2E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-07	0E+00	1E-09	2E-05	2E-07
Manganese	Bay Creek	2E-07	0E+00	1E-09	2E-05	2E-07
Manganese	Little Calumet Creek	2E-07	0E+00	1E-09	2E-05	2E-07
Manganese	Upper and Lower Swan Lake	2E-07	0E+00	1E-09	2E-05	2E-07
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Bay Creek				1E-06	
Mercury (elemental)	Little Calumet Creek				1E-06	
Mercury (elemental)	Upper and Lower Swan Lake				1E-06	
Mercury (divalent)	Mississippi River	1E-04		3E-08		1E-04
Mercury (divalent)	Bay Creek	1E-04		3E-08		1E-04
Mercury (divalent)	Little Calumet Creek	1E-04		3E-08		1E-04
Mercury (divalent)	Upper and Lower Swan Lake	1E-04		3E-08		1E-04
Nickel	Mississippi River	2E-07	7E-11	3E-09		2E-07
Nickel	Bay Creek	2E-07	5E-09	3E-09		2E-07
Nickel	Little Calumet Creek	2E-07	6E-09	3E-09		2E-07
Nickel	Upper and Lower Swan Lake	2E-07	8E-08	3E-09		3E-07
Silver	Mississippi River	2E-09	0E+00	1E-09		3E-09
Silver	Bay Creek	2E-09	0E+00	1E-09		3E-09
Silver	Little Calumet Creek	2E-09	0E+00	1E-09		3E-09
Silver	Upper and Lower Swan Lake	2E-09	0E+00	1E-09		3E-09
Thallium	Mississippi River	1E-04	8E-07	4E-07		1E-04
Thallium	Bay Creek	1E-04	6E-05	4E-07		2E-04
Thallium	Little Calumet Creek	1E-04	7E-05	4E-07		2E-04
Thallium	Upper and Lower Swan Lake	1E-04	1E-03	4E-07		1E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	6E-07	0E+00	7E-08		6E-07
Antimony	Bay Creek	6E-07	0E+00	7E-08		6E-07
Antimony	Little Calumet Creek	6E-07	0E+00	7E-08		6E-07
Antimony	Upper and Lower Swan Lake	6E-07	0E+00	7E-08		6E-07
Arsenic	Mississippi River	3E-06	3E-09	3E-08		3E-06
Arsenic	Bay Creek	3E-06	2E-07	3E-08		4E-06
Arsenic	Little Calumet Creek	3E-06	3E-07	3E-08		4E-06
Arsenic	Upper and Lower Swan Lake	3E-06	4E-06	3E-08		7E-06
Barium	Mississippi River	5E-06	0E+00	1E-09	3E-06	5E-06
Barium	Bay Creek	5E-06	0E+00	1E-09	3E-06	5E-06
Barium	Little Calumet Creek	5E-06	0E+00	1E-09	3E-06	5E-06
Barium	Upper and Lower Swan Lake	5E-06	0E+00	1E-09	3E-06	5E-06
Beryllium	Mississippi River	6E-06	1E-09	2E-09		6E-06
Beryllium	Bay Creek	6E-06	1E-07	2E-09		6E-06
Beryllium	Little Calumet Creek	6E-06	2E-07	2E-09		6E-06
Beryllium	Upper and Lower Swan Lake	6E-06	7E-07	2E-09		7E-06
Cadmium	Mississippi River	7E-05	1E-06	3E-07		7E-05
Cadmium	Bay Creek	7E-05	7E-05	3E-07		1E-04
Cadmium	Little Calumet Creek	7E-05	9E-05	3E-07		2E-04
Cadmium	Upper and Lower Swan Lake	7E-05	1E-03	3E-07		1E-03
Chromium VI	Mississippi River	3E-08	7E-12	4E-10		3E-08
Chromium VI	Bay Creek	3E-08	5E-10	4E-10		3E-08
Chromium VI	Little Calumet Creek	3E-08	6E-10	4E-10		3E-08
Chromium VI	Upper and Lower Swan Lake	3E-08	9E-09	4E-10		4E-08
Chromium III	Mississippi River	2E-07	1E-12	3E-13		2E-07
Chromium III	Bay Creek	2E-07	1E-10	3E-13		2E-07
Chromium III	Little Calumet Creek	2E-07	2E-10	3E-13		2E-07
Chromium III	Upper and Lower Swan Lake	2E-07	2E-10	3E-13		2E-07
Cobalt	Mississippi River	3E-07	0E+00	3E-13		3E-07
Cobalt	Bay Creek	3E-07	0E+00	3E-13		3E-07
Cobalt	Little Calumet Creek	3E-07	0E+00	3E-13		3E-07
Cobalt	Upper and Lower Swan Lake	3E-07	0E+00	3E-13		3E-07
Hydrogen Chloride	Mississippi River				3E-04	
Hydrogen Chloride	Bay Creek				3E-04	
Hydrogen Chloride	Little Calumet Creek				3E-04	
Hydrogen Chloride	Upper and Lower Swan Lake				3E-04	
Selenium	Mississippi River	3E-06	6E-06	2E-07		1E-05
Selenium	Bay Creek	3E-06	4E-04	2E-07		5E-04
Selenium	Little Calumet Creek	3E-06	5E-04	2E-07		5E-04
Selenium	Upper and Lower Swan Lake	3E-06	8E-03	2E-07		8E-03
Chlorine	Mississippi River				3E-04	
Chlorine	Bay Creek				3E-04	
Chlorine	Little Calumet Creek				3E-04	
Chlorine	Upper and Lower Swan Lake				3E-04	
Methylmercury - Developmental Effects	Mississippi River	7E-06	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Bay Creek	7E-06	4E-03	1E-09		4E-03
Methylmercury - Developmental Effects	Little Calumet Creek	7E-06	1E-02	1E-09		1E-02
Methylmercury - Developmental Effects	Upper and Lower Swan Lake	7E-06	8E-03	1E-09		8E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-06	7E-05	5E-10		8E-05
Methylmercury - Neurological Effects	Bay Creek	2E-06	1E-03	5E-10		1E-03
Methylmercury - Neurological Effects	Little Calumet Creek	2E-06	3E-03	5E-10		3E-03
Methylmercury - Neurological Effects	Upper and Lower Swan Lake	2E-06	3E-03	5E-10		3E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	3E-08	8E-09	2E-12	4E-10	4E-08
2,3,7,8-TCDD-TEQ	Bay Creek	3E-08	7E-07	2E-12	4E-10	7E-07
2,3,7,8-TCDD-TEQ	Little Calumet Creek	3E-08	2E-06	2E-12	4E-10	2E-06
2,3,7,8-TCDD-TEQ	Upper and Lower Swan Lake	3E-08	2E-06	2E-12	4E-10	2E-06
Nickel	Mississippi River				2E-11	
Nickel	Bay Creek				2E-11	
Nickel	Little Calumet Creek				2E-11	
Nickel	Upper and Lower Swan Lake				2E-11	
Arsenic	Mississippi River	5E-11	2E-13	1E-12	4E-11	5E-11
Arsenic	Bay Creek	5E-11	1E-11	1E-12	4E-11	6E-11
Arsenic	Little Calumet Creek	5E-11	1E-11	1E-12	4E-11	6E-11
Arsenic	Upper and Lower Swan Lake	5E-11	2E-10	1E-12	4E-11	3E-10
Beryllium	Mississippi River				2E-11	
Beryllium	Bay Creek				2E-11	
Beryllium	Little Calumet Creek				2E-11	
Beryllium	Upper and Lower Swan Lake				2E-11	
Cadmium	Mississippi River				3E-10	
Cadmium	Bay Creek				3E-10	
Cadmium	Little Calumet Creek				3E-10	
Cadmium	Upper and Lower Swan Lake				3E-10	
Chromium VI	Mississippi River				3E-11	
Chromium VI	Bay Creek				3E-11	
Chromium VI	Little Calumet Creek				3E-11	
Chromium VI	Upper and Lower Swan Lake				3E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	6E-08	0E+00	6E-10	2E-05	6E-08
Manganese	Bay Creek	6E-08	0E+00	6E-10	2E-05	6E-08
Manganese	Little Calumet Creek	6E-08	0E+00	6E-10	2E-05	6E-08
Manganese	Upper and Lower Swan Lake	6E-08	0E+00	6E-10	2E-05	6E-08
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Bay Creek				1E-06	
Mercury (elemental)	Little Calumet Creek				1E-06	
Mercury (elemental)	Upper and Lower Swan Lake				1E-06	
Mercury (divalent)	Mississippi River	3E-05		2E-08		3E-05
Mercury (divalent)	Bay Creek	3E-05		2E-08		3E-05
Mercury (divalent)	Little Calumet Creek	3E-05		2E-08		3E-05
Mercury (divalent)	Upper and Lower Swan Lake	3E-05		2E-08		3E-05
Nickel	Mississippi River	6E-08	7E-11	2E-09		6E-08
Nickel	Bay Creek	6E-08	5E-09	2E-09		6E-08
Nickel	Little Calumet Creek	6E-08	6E-09	2E-09		7E-08
Nickel	Upper and Lower Swan Lake	6E-08	8E-08	2E-09		1E-07
Silver	Mississippi River	6E-10	0E+00	7E-10		1E-09
Silver	Bay Creek	6E-10	0E+00	7E-10		1E-09
Silver	Little Calumet Creek	6E-10	0E+00	7E-10		1E-09
Silver	Upper and Lower Swan Lake	6E-10	0E+00	7E-10		1E-09
Thallium	Mississippi River	3E-05	8E-07	2E-07		3E-05
Thallium	Bay Creek	3E-05	6E-05	2E-07		9E-05
Thallium	Little Calumet Creek	3E-05	7E-05	2E-07		1E-04
Thallium	Upper and Lower Swan Lake	3E-05	1E-03	2E-07		1E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-07	0E+00	4E-08		2E-07
Antimony	Bay Creek	1E-07	0E+00	4E-08		2E-07
Antimony	Little Calumet Creek	1E-07	0E+00	4E-08		2E-07
Antimony	Upper and Lower Swan Lake	1E-07	0E+00	4E-08		2E-07
Arsenic	Mississippi River	9E-07	3E-09	2E-08		9E-07
Arsenic	Bay Creek	9E-07	2E-07	2E-08		1E-06
Arsenic	Little Calumet Creek	9E-07	3E-07	2E-08		1E-06
Arsenic	Upper and Lower Swan Lake	9E-07	4E-06	2E-08		5E-06
Barium	Mississippi River	1E-06	0E+00	6E-10	3E-06	1E-06
Barium	Bay Creek	1E-06	0E+00	6E-10	3E-06	1E-06
Barium	Little Calumet Creek	1E-06	0E+00	6E-10	3E-06	1E-06
Barium	Upper and Lower Swan Lake	1E-06	0E+00	6E-10	3E-06	1E-06
Beryllium	Mississippi River	2E-06	1E-09	9E-10		2E-06
Beryllium	Bay Creek	2E-06	1E-07	9E-10		2E-06
Beryllium	Little Calumet Creek	2E-06	2E-07	9E-10		2E-06
Beryllium	Upper and Lower Swan Lake	2E-06	7E-07	9E-10		2E-06
Cadmium	Mississippi River	2E-05	1E-06	2E-07		2E-05
Cadmium	Bay Creek	2E-05	7E-05	2E-07		9E-05
Cadmium	Little Calumet Creek	2E-05	9E-05	2E-07		1E-04
Cadmium	Upper and Lower Swan Lake	2E-05	1E-03	2E-07		1E-03
Chromium VI	Mississippi River	7E-09	7E-12	2E-10		8E-09
Chromium VI	Bay Creek	7E-09	5E-10	2E-10		8E-09
Chromium VI	Little Calumet Creek	7E-09	6E-10	2E-10		8E-09
Chromium VI	Upper and Lower Swan Lake	7E-09	9E-09	2E-10		2E-08
Chromium III	Mississippi River	6E-08	1E-12	2E-13		6E-08
Chromium III	Bay Creek	6E-08	1E-10	2E-13		6E-08
Chromium III	Little Calumet Creek	6E-08	2E-10	2E-13		6E-08
Chromium III	Upper and Lower Swan Lake	6E-08	2E-10	2E-13		6E-08
Cobalt	Mississippi River	7E-08	0E+00	2E-13		7E-08
Cobalt	Bay Creek	7E-08	0E+00	2E-13		7E-08
Cobalt	Little Calumet Creek	7E-08	0E+00	2E-13		7E-08
Cobalt	Upper and Lower Swan Lake	7E-08	0E+00	2E-13		7E-08
Hydrogen Chloride	Mississippi River				3E-04	
Hydrogen Chloride	Bay Creek				3E-04	
Hydrogen Chloride	Little Calumet Creek				3E-04	
Hydrogen Chloride	Upper and Lower Swan Lake				3E-04	
Selenium	Mississippi River	8E-07	6E-06	9E-08		7E-06
Selenium	Bay Creek	8E-07	4E-04	9E-08		4E-04
Selenium	Little Calumet Creek	8E-07	5E-04	9E-08		5E-04
Selenium	Upper and Lower Swan Lake	8E-07	8E-03	9E-08		8E-03
Chlorine	Mississippi River				3E-04	
Chlorine	Bay Creek				3E-04	
Chlorine	Little Calumet Creek				3E-04	
Chlorine	Upper and Lower Swan Lake				3E-04	
Methylmercury - Developmental Effects	Mississippi River	2E-06	2E-04	8E-10		2E-04
Methylmercury - Developmental Effects	Bay Creek	2E-06	4E-03	8E-10		4E-03
Methylmercury - Developmental Effects	Little Calumet Creek	2E-06	1E-02	8E-10		1E-02
Methylmercury - Developmental Effects	Upper and Lower Swan Lake	2E-06	8E-03	8E-10		8E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	6E-07	7E-05	3E-10		7E-05
Methylmercury - Neurological Effects	Bay Creek	6E-07	1E-03	3E-10		1E-03
Methylmercury - Neurological Effects	Little Calumet Creek	6E-07	3E-03	3E-10		3E-03
Methylmercury - Neurological Effects	Upper and Lower Swan Lake	6E-07	3E-03	3E-10		3E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-08	6E-09	1E-12	3E-10	2E-08
2,3,7,8-TCDD-TEQ	Bay Creek	2E-08	5E-07	1E-12	3E-10	5E-07
2,3,7,8-TCDD-TEQ	Little Calumet Creek	2E-08	1E-06	1E-12	3E-10	1E-06
2,3,7,8-TCDD-TEQ	Upper and Lower Swan Lake	2E-08	1E-06	1E-12	3E-10	1E-06
Nickel	Mississippi River				1E-11	
Nickel	Bay Creek				1E-11	
Nickel	Little Calumet Creek				1E-11	
Nickel	Upper and Lower Swan Lake				1E-11	
Arsenic	Mississippi River	3E-11	1E-13	6E-13	3E-11	3E-11
Arsenic	Bay Creek	3E-11	1E-11	6E-13	3E-11	4E-11
Arsenic	Little Calumet Creek	3E-11	1E-11	6E-13	3E-11	4E-11
Arsenic	Upper and Lower Swan Lake	3E-11	2E-10	6E-13	3E-11	2E-10
Beryllium	Mississippi River				1E-11	
Beryllium	Bay Creek				1E-11	
Beryllium	Little Calumet Creek				1E-11	
Beryllium	Upper and Lower Swan Lake				1E-11	
Cadmium	Mississippi River				2E-10	
Cadmium	Bay Creek				2E-10	
Cadmium	Little Calumet Creek				2E-10	
Cadmium	Upper and Lower Swan Lake				2E-10	
Chromium VI	Mississippi River				2E-11	
Chromium VI	Bay Creek				2E-11	
Chromium VI	Little Calumet Creek				2E-11	
Chromium VI	Upper and Lower Swan Lake				2E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	3E-08	0E+00	4E-10	2E-05	3E-08
Manganese	Bay Creek	3E-08	0E+00	4E-10	2E-05	3E-08
Manganese	Little Calumet Creek	3E-08	0E+00	4E-10	2E-05	3E-08
Manganese	Upper and Lower Swan Lake	3E-08	0E+00	4E-10	2E-05	3E-08
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Bay Creek				1E-06	
Mercury (elemental)	Little Calumet Creek				1E-06	
Mercury (elemental)	Upper and Lower Swan Lake				1E-06	
Mercury (divalent)	Mississippi River	2E-05		1E-08		2E-05
Mercury (divalent)	Bay Creek	2E-05		1E-08		2E-05
Mercury (divalent)	Little Calumet Creek	2E-05		1E-08		2E-05
Mercury (divalent)	Upper and Lower Swan Lake	2E-05		1E-08		2E-05
Nickel	Mississippi River	3E-08	5E-11	1E-09		3E-08
Nickel	Bay Creek	3E-08	4E-09	1E-09		4E-08
Nickel	Little Calumet Creek	3E-08	4E-09	1E-09		4E-08
Nickel	Upper and Lower Swan Lake	3E-08	6E-08	1E-09		9E-08
Silver	Mississippi River	3E-10	0E+00	4E-10		7E-10
Silver	Bay Creek	3E-10	0E+00	4E-10		7E-10
Silver	Little Calumet Creek	3E-10	0E+00	4E-10		7E-10
Silver	Upper and Lower Swan Lake	3E-10	0E+00	4E-10		7E-10
Thallium	Mississippi River	1E-05	6E-07	1E-07		1E-05
Thallium	Bay Creek	1E-05	4E-05	1E-07		6E-05
Thallium	Little Calumet Creek	1E-05	5E-05	1E-07		6E-05
Thallium	Upper and Lower Swan Lake	1E-05	7E-04	1E-07		7E-04

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	8E-08	0E+00	3E-08		1E-07
Antimony	Bay Creek	8E-08	0E+00	3E-08		1E-07
Antimony	Little Calumet Creek	8E-08	0E+00	3E-08		1E-07
Antimony	Upper and Lower Swan Lake	8E-08	0E+00	3E-08		1E-07
Arsenic	Mississippi River	5E-07	2E-09	1E-08		5E-07
Arsenic	Bay Creek	5E-07	2E-07	1E-08		6E-07
Arsenic	Little Calumet Creek	5E-07	2E-07	1E-08		7E-07
Arsenic	Upper and Lower Swan Lake	5E-07	3E-06	1E-08		3E-06
Barium	Mississippi River	7E-07	0E+00	4E-10	3E-06	7E-07
Barium	Bay Creek	7E-07	0E+00	4E-10	3E-06	7E-07
Barium	Little Calumet Creek	7E-07	0E+00	4E-10	3E-06	7E-07
Barium	Upper and Lower Swan Lake	7E-07	0E+00	4E-10	3E-06	7E-07
Beryllium	Mississippi River	8E-07	8E-10	5E-10		8E-07
Beryllium	Bay Creek	8E-07	9E-08	5E-10		9E-07
Beryllium	Little Calumet Creek	8E-07	1E-07	5E-10		9E-07
Beryllium	Upper and Lower Swan Lake	8E-07	5E-07	5E-10		1E-06
Cadmium	Mississippi River	1E-05	7E-07	1E-07		1E-05
Cadmium	Bay Creek	1E-05	5E-05	1E-07		6E-05
Cadmium	Little Calumet Creek	1E-05	6E-05	1E-07		7E-05
Cadmium	Upper and Lower Swan Lake	1E-05	8E-04	1E-07		8E-04
Chromium VI	Mississippi River	4E-09	5E-12	2E-10		4E-09
Chromium VI	Bay Creek	4E-09	4E-10	2E-10		4E-09
Chromium VI	Little Calumet Creek	4E-09	4E-10	2E-10		5E-09
Chromium VI	Upper and Lower Swan Lake	4E-09	6E-09	2E-10		1E-08
Chromium III	Mississippi River	3E-08	9E-13	1E-13		3E-08
Chromium III	Bay Creek	3E-08	8E-11	1E-13		3E-08
Chromium III	Little Calumet Creek	3E-08	2E-10	1E-13		3E-08
Chromium III	Upper and Lower Swan Lake	3E-08	2E-10	1E-13		3E-08
Cobalt	Mississippi River	4E-08	0E+00	6E-10		4E-08
Cobalt	Bay Creek	4E-08	0E+00	6E-10		4E-08
Cobalt	Little Calumet Creek	4E-08	0E+00	6E-10		4E-08
Cobalt	Upper and Lower Swan Lake	4E-08	0E+00	6E-10		4E-08
Hydrogen Chloride	Mississippi River				3E-04	
Hydrogen Chloride	Bay Creek				3E-04	
Hydrogen Chloride	Little Calumet Creek				3E-04	
Hydrogen Chloride	Upper and Lower Swan Lake				3E-04	
Selenium	Mississippi River	4E-07	4E-06	6E-08		5E-06
Selenium	Bay Creek	4E-07	3E-04	6E-08		3E-04
Selenium	Little Calumet Creek	4E-07	4E-04	6E-08		4E-04
Selenium	Upper and Lower Swan Lake	4E-07	5E-03	6E-08		5E-03
Chlorine	Mississippi River				3E-04	
Chlorine	Bay Creek				3E-04	
Chlorine	Little Calumet Creek				3E-04	
Chlorine	Upper and Lower Swan Lake				3E-04	
Methylmercury - Developmental Effects	Mississippi River	1E-06	2E-04	5E-10		2E-04
Methylmercury - Developmental Effects	Bay Creek	1E-06	3E-03	5E-10		3E-03
Methylmercury - Developmental Effects	Little Calumet Creek	1E-06	7E-03	5E-10		7E-03
Methylmercury - Developmental Effects	Upper and Lower Swan Lake	1E-06	6E-03	5E-10		6E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	3E-07	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Bay Creek	3E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Little Calumet Creek	3E-07	2E-03	2E-10		2E-03
Methylmercury - Neurological Effects	Upper and Lower Swan Lake	3E-07	2E-03	2E-10		2E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-08	1E-08	3E-12	4E-10	2E-08
2,3,7,8-TCDD-TEQ	Bay Creek	1E-08	8E-07	3E-12	4E-10	9E-07
2,3,7,8-TCDD-TEQ	Little Calumet Creek	1E-08	2E-06	3E-12	4E-10	2E-06
2,3,7,8-TCDD-TEQ	Upper and Lower Swan Lake	1E-08	3E-06	3E-12	4E-10	3E-06
Nickel	Mississippi River				1E-11	
Nickel	Bay Creek				1E-11	
Nickel	Little Calumet Creek				1E-11	
Nickel	Upper and Lower Swan Lake				1E-11	
Arsenic	Mississippi River	2E-11	3E-13	1E-12	4E-11	2E-11
Arsenic	Bay Creek	2E-11	2E-11	1E-12	4E-11	4E-11
Arsenic	Little Calumet Creek	2E-11	2E-11	1E-12	4E-11	4E-11
Arsenic	Upper and Lower Swan Lake	2E-11	3E-10	1E-12	4E-11	3E-10
Beryllium	Mississippi River				2E-11	
Beryllium	Bay Creek				2E-11	
Beryllium	Little Calumet Creek				2E-11	
Beryllium	Upper and Lower Swan Lake				2E-11	
Cadmium	Mississippi River				3E-10	
Cadmium	Bay Creek				3E-10	
Cadmium	Little Calumet Creek				3E-10	
Cadmium	Upper and Lower Swan Lake				3E-10	
Chromium VI	Mississippi River				3E-11	
Chromium VI	Bay Creek				3E-11	
Chromium VI	Little Calumet Creek				3E-11	
Chromium VI	Upper and Lower Swan Lake				3E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	4E-10	2E-05	1E-08
Manganese	Bay Creek	1E-08	0E+00	4E-10	2E-05	1E-08
Manganese	Little Calumet Creek	1E-08	0E+00	4E-10	2E-05	1E-08
Manganese	Upper and Lower Swan Lake	1E-08	0E+00	4E-10	2E-05	1E-08
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Bay Creek				1E-06	
Mercury (elemental)	Little Calumet Creek				1E-06	
Mercury (elemental)	Upper and Lower Swan Lake				1E-06	
Mercury (divalent)	Mississippi River	7E-06		1E-08		7E-06
Mercury (divalent)	Bay Creek	7E-06		1E-08		7E-06
Mercury (divalent)	Little Calumet Creek	7E-06		1E-08		7E-06
Mercury (divalent)	Upper and Lower Swan Lake	7E-06		1E-08		7E-06
Nickel	Mississippi River	1E-08	5E-11	1E-09		1E-08
Nickel	Bay Creek	1E-08	4E-09	1E-09		2E-08
Nickel	Little Calumet Creek	1E-08	4E-09	1E-09		2E-08
Nickel	Upper and Lower Swan Lake	1E-08	6E-08	1E-09		7E-08
Silver	Mississippi River	1E-10	0E+00	5E-10		6E-10
Silver	Bay Creek	1E-10	0E+00	5E-10		6E-10
Silver	Little Calumet Creek	1E-10	0E+00	5E-10		6E-10
Silver	Upper and Lower Swan Lake	1E-10	0E+00	5E-10		6E-10
Thallium	Mississippi River	6E-06	6E-07	2E-07		7E-06
Thallium	Bay Creek	6E-06	4E-05	2E-07		5E-05
Thallium	Little Calumet Creek	6E-06	5E-05	2E-07		6E-05
Thallium	Upper and Lower Swan Lake	6E-06	7E-04	2E-07		7E-04

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	3E-08	0E+00	3E-08		6E-08
Antimony	Bay Creek	3E-08	0E+00	3E-08		6E-08
Antimony	Little Calumet Creek	3E-08	0E+00	3E-08		6E-08
Antimony	Upper and Lower Swan Lake	3E-08	0E+00	3E-08		6E-08
Arsenic	Mississippi River	2E-07	2E-09	1E-08		2E-07
Arsenic	Bay Creek	2E-07	2E-07	1E-08		4E-07
Arsenic	Little Calumet Creek	2E-07	2E-07	1E-08		4E-07
Arsenic	Upper and Lower Swan Lake	2E-07	3E-06	1E-08		3E-06
Barium	Mississippi River	3E-07	0E+00	5E-10	3E-06	3E-07
Barium	Bay Creek	3E-07	0E+00	5E-10	3E-06	3E-07
Barium	Little Calumet Creek	3E-07	0E+00	5E-10	3E-06	3E-07
Barium	Upper and Lower Swan Lake	3E-07	0E+00	5E-10	3E-06	3E-07
Beryllium	Mississippi River	3E-07	8E-10	6E-10		3E-07
Beryllium	Bay Creek	3E-07	9E-08	6E-10		4E-07
Beryllium	Little Calumet Creek	3E-07	1E-07	6E-10		5E-07
Beryllium	Upper and Lower Swan Lake	3E-07	5E-07	6E-10		8E-07
Cadmium	Mississippi River	4E-06	7E-07	1E-07		5E-06
Cadmium	Bay Creek	4E-06	5E-05	1E-07		6E-05
Cadmium	Little Calumet Creek	4E-06	6E-05	1E-07		7E-05
Cadmium	Upper and Lower Swan Lake	4E-06	8E-04	1E-07		8E-04
Chromium VI	Mississippi River	2E-09	5E-12	2E-10		2E-09
Chromium VI	Bay Creek	2E-09	4E-10	2E-10		2E-09
Chromium VI	Little Calumet Creek	2E-09	4E-10	2E-10		2E-09
Chromium VI	Upper and Lower Swan Lake	2E-09	6E-09	2E-10		8E-09
Chromium III	Mississippi River	1E-08	9E-13	1E-13		1E-08
Chromium III	Bay Creek	1E-08	8E-11	1E-13		1E-08
Chromium III	Little Calumet Creek	1E-08	2E-10	1E-13		1E-08
Chromium III	Upper and Lower Swan Lake	1E-08	2E-10	1E-13		1E-08
Cobalt	Mississippi River	2E-08	0E+00	7E-10		2E-08
Cobalt	Bay Creek	2E-08	0E+00	7E-10		2E-08
Cobalt	Little Calumet Creek	2E-08	0E+00	7E-10		2E-08
Cobalt	Upper and Lower Swan Lake	2E-08	0E+00	7E-10		2E-08
Hydrogen Chloride	Mississippi River				3E-04	
Hydrogen Chloride	Bay Creek				3E-04	
Hydrogen Chloride	Little Calumet Creek				3E-04	
Hydrogen Chloride	Upper and Lower Swan Lake				3E-04	
Selenium	Mississippi River	2E-07	4E-06	7E-08		5E-06
Selenium	Bay Creek	2E-07	3E-04	7E-08		3E-04
Selenium	Little Calumet Creek	2E-07	4E-04	7E-08		4E-04
Selenium	Upper and Lower Swan Lake	2E-07	5E-03	7E-08		5E-03
Chlorine	Mississippi River				3E-04	
Chlorine	Bay Creek				3E-04	
Chlorine	Little Calumet Creek				3E-04	
Chlorine	Upper and Lower Swan Lake				3E-04	
Methylmercury - Developmental Effects	Mississippi River	4E-07	2E-04	6E-10		2E-04
Methylmercury - Developmental Effects	Bay Creek	4E-07	3E-03	6E-10		3E-03
Methylmercury - Developmental Effects	Little Calumet Creek	4E-07	7E-03	6E-10		7E-03
Methylmercury - Developmental Effects	Upper and Lower Swan Lake	4E-07	6E-03	6E-10		6E-03

Table IX-B6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 204) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	1E-07	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Bay Creek	1E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Little Calumet Creek	1E-07	2E-03	2E-10		2E-03
Methylmercury - Neurological Effects	Upper and Lower Swan Lake	1E-07	2E-03	2E-10		2E-03

Table IX-B7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	1E-10	2E-10	3E-10	5E-08	5E-07	9E-09	7E-08	5E-08	8E-08	1E-13	3E-10	8E-07
Nickel												1E-10	
Arsenic	2E-10	6E-11	3E-11	1E-10	2E-10	4E-10	3E-11			1E-09	1E-12	9E-10	2E-09
Beryllium												5E-10	
Cadmium												1E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-08	9E-09	3E-08	5E-09	3E-07	5E-10			0E+00	5E-11	2E-05	3E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	6E-06	6E-05	6E-05	6E-04	1E-07				2E-08		8E-04
Nickel	1E-07	6E-08	3E-08	1E-07	1E-06	1E-05	7E-08			3E-07	1E-09		1E-05
Silver	6E-10	6E-09	2E-09	2E-08	8E-08	3E-05	3E-09			0E+00	2E-10		3E-05
Thallium	2E-05	9E-07	7E-08	2E-06	3E-04	7E-04	4E-05			8E-04	4E-08		2E-03
Antimony	3E-07	1E-06	3E-07	2E-06	2E-06	1E-05	9E-08			0E+00	3E-08		2E-05
Arsenic	5E-06	2E-06	8E-07	3E-06	6E-06	9E-06	6E-07			4E-05	3E-08		6E-05
Barium	2E-06	2E-07	5E-08	4E-07	9E-08	1E-05	1E-08			0E+00	1E-10	1E-05	1E-05
Beryllium	1E-05	2E-07	3E-08	4E-07	2E-06	7E-08	6E-07			2E-06	1E-09		2E-05
Cadmium	2E-05	2E-05	1E-05	4E-05	2E-06	6E-06	4E-07			2E-03	8E-08		2E-03
Chromium VI	1E-08	3E-09	2E-09	8E-09	1E-07	2E-06	7E-09			3E-08	1E-10		2E-06
Chromium III	1E-07	1E-09	8E-10	3E-09	8E-08	9E-07	3E-08			2E-11	8E-14		1E-06
Cobalt	2E-08	3E-09	2E-11	8E-09	2E-07	1E-06	3E-08			0E+00	9E-11		2E-06
Hydrogen Chloride												1E-03	
Selenium	2E-08	8E-09	1E-08	2E-08	1E-07	1E-05	6E-07			3E-04	7E-10		3E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	4E-06	1E-05	9E-07	9E-06	2E-05	3E-04	1E-08			1E-02	9E-10		1E-02
Methylmercury - Neurological Effects	1E-06	3E-06	3E-07	3E-06	7E-06	1E-04	4E-09			3E-03	3E-10		3E-03

Table IX-B7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	8E-11	2E-10	3E-10	8E-08	3E-07	7E-09	7E-08	5E-08	8E-08	8E-14	3E-10	6E-07
Nickel												1E-10	
Arsenic	7E-11	4E-11	3E-11	2E-10	4E-10	3E-10	2E-11			1E-09	1E-12	1E-09	2E-09
Beryllium												6E-10	
Cadmium												2E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-09	1E-08	6E-09	3E-08	6E-09	1E-07	3E-10			0E+00	3E-11	2E-05	2E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	5E-06	6E-05	7E-05	3E-04	9E-08				1E-08		4E-04
Nickel	4E-08	3E-08	2E-08	1E-07	1E-06	5E-06	4E-08			2E-07	7E-10		7E-06
Silver	2E-10	3E-09	1E-09	1E-08	1E-07	2E-05	2E-09			0E+00	1E-10		2E-05
Thallium	4E-06	5E-07	5E-08	2E-06	3E-04	4E-04	2E-05			6E-04	3E-08		1E-03
Antimony	9E-08	6E-07	2E-07	2E-06	2E-06	6E-06	6E-08			0E+00	2E-08		1E-05
Arsenic	1E-06	9E-07	6E-07	3E-06	7E-06	5E-06	4E-07			3E-05	2E-08		4E-05
Barium	5E-07	1E-07	3E-08	4E-07	1E-07	6E-06	8E-09			0E+00	7E-11	1E-05	7E-06
Beryllium	3E-06	9E-08	2E-08	4E-07	2E-06	3E-08	4E-07			1E-06	6E-10		8E-06
Cadmium	6E-06	1E-05	7E-06	4E-05	2E-06	3E-06	2E-07			1E-03	4E-08		1E-03
Chromium VI	4E-09	2E-09	1E-09	8E-09	1E-07	8E-07	4E-09			2E-08	8E-11		1E-06
Chromium III	3E-08	6E-10	6E-10	3E-09	9E-08	5E-07	2E-08			1E-11	4E-14		6E-07
Cobalt	5E-09	2E-09	1E-11	8E-09	3E-07	7E-07	2E-08			0E+00	5E-11		1E-06
Hydrogen Chloride												1E-03	
Selenium	5E-09	5E-09	9E-09	2E-08	2E-07	6E-06	4E-07			2E-04	4E-10		2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	9E-07	5E-06	6E-07	9E-06	3E-05	2E-04	7E-09			7E-03	5E-10		7E-03
Methylmercury - Neurological Effects	3E-07	2E-06	2E-07	3E-06	8E-06	5E-05	2E-09			2E-03	2E-10		2E-03

Table IX-B7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	7E-11	1E-10	2E-10	4E-08	2E-07	5E-09	4E-08	3E-08	4E-08	6E-14	2E-10	3E-07
Nickel												9E-11	
Arsenic	4E-11	3E-11	2E-11	8E-11	2E-10	1E-10	1E-11			8E-10	7E-13	7E-10	1E-09
Beryllium												4E-10	
Cadmium												1E-09	
Chromium VI												1E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-09	7E-09	5E-09	2E-08	3E-09	6E-08	2E-10			0E+00	2E-11	2E-05	9E-08
Mercury (elemental)												1E-05	
Mercury (divalent)	8E-06	1E-05	3E-06	3E-05	3E-05	1E-04	6E-08			0E+00	8E-09		2E-04
Nickel	2E-08	2E-08	1E-08	6E-08	6E-07	2E-06	3E-08			1E-07	5E-10		3E-06
Silver	8E-11	3E-09	1E-09	8E-09	4E-08	8E-06	1E-09			0E+00	8E-11		8E-06
Thallium	2E-06	4E-07	3E-08	1E-06	1E-04	2E-04	1E-05			3E-04	2E-08		7E-04
Antimony	5E-08	4E-07	2E-07	1E-06	1E-06	3E-06	4E-08			0E+00	1E-08		6E-06
Arsenic	7E-07	7E-07	4E-07	2E-06	3E-06	2E-06	2E-07			1E-05	1E-08		2E-05
Barium	3E-07	8E-08	2E-08	2E-07	5E-08	3E-06	5E-09			0E+00	4E-11	1E-05	3E-06
Beryllium	2E-06	7E-08	2E-08	2E-07	9E-07	2E-08	2E-07			6E-07	4E-10		4E-06
Cadmium	3E-06	9E-06	5E-06	2E-05	1E-06	1E-06	1E-07			7E-04	3E-08		7E-04
Chromium VI	2E-09	1E-09	8E-10	4E-09	6E-08	4E-07	3E-09			1E-08	5E-11		5E-07
Chromium III	2E-08	5E-10	4E-10	1E-09	4E-08	2E-07	1E-08			7E-12	3E-14		3E-07
Cobalt	3E-09	1E-09	1E-11	4E-09	1E-07	3E-07	1E-08			0E+00	3E-11		5E-07
Hydrogen Chloride												1E-03	
Selenium	2E-09	4E-09	6E-09	1E-08	7E-08	3E-06	2E-07			1E-04	2E-10		1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	5E-07	4E-06	4E-07	5E-06	1E-05	7E-05	4E-09			4E-03	3E-10		4E-03
Methylmercury - Neurological Effects	2E-07	1E-06	1E-07	2E-06	4E-06	2E-05	1E-09			1E-03	1E-10		1E-03

Table IX-B7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	2E-10	2E-10	3E-10	8E-08	1E-07	8E-09	7E-08	5E-08	9E-08	1E-13	3E-10	4E-07
Nickel												1E-10	
Arsenic	3E-11	8E-11	4E-11	1E-10	4E-10	1E-10	2E-11			2E-09	2E-12	1E-09	2E-09
Beryllium												5E-10	
Cadmium												2E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	9E-10	1E-08	5E-09	2E-08	3E-09	3E-08	2E-10			0E+00	2E-11	2E-05	6E-08
Mercury (elemental)												1E-05	
Mercury (divalent)	3E-06	2E-05	4E-06	3E-05	3E-05	6E-05	5E-08			0E+00	9E-09		1E-04
Nickel	8E-09	3E-08	1E-08	6E-08	7E-07	1E-06	2E-08			1E-07	5E-10		2E-06
Silver	3E-11	3E-09	1E-09	7E-09	5E-08	3E-06	1E-09			0E+00	9E-11		3E-06
Thallium	9E-07	5E-07	4E-08	1E-06	2E-04	7E-05	1E-05			4E-04	2E-08		6E-04
Antimony	2E-08	6E-07	2E-07	1E-06	1E-06	1E-06	3E-08			0E+00	1E-08		4E-06
Arsenic	3E-07	9E-07	5E-07	2E-06	3E-06	1E-06	2E-07			2E-05	1E-08		2E-05
Barium	1E-07	1E-07	3E-08	2E-07	5E-08	1E-06	5E-09			0E+00	5E-11	1E-05	2E-06
Beryllium	7E-07	9E-08	2E-08	2E-07	1E-06	7E-09	2E-07			7E-07	5E-10		3E-06
Cadmium	1E-06	1E-05	6E-06	2E-05	1E-06	6E-07	1E-07			7E-04	3E-08		8E-04
Chromium VI	8E-10	2E-09	9E-10	4E-09	6E-08	2E-07	2E-09			1E-08	6E-11		3E-07
Chromium III	6E-09	6E-10	5E-10	1E-09	5E-08	9E-08	1E-08			8E-12	3E-14		2E-07
Cobalt	1E-09	2E-09	1E-11	4E-09	2E-07	1E-07	9E-09			0E+00	4E-11		3E-07
Hydrogen Chloride												1E-03	
Selenium	1E-09	5E-09	7E-09	1E-08	8E-08	1E-06	2E-07			1E-04	3E-10		1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	2E-07	5E-06	5E-07	4E-06	1E-05	3E-05	4E-09			4E-03	4E-10		4E-03
Methylmercury - Neurological Effects	7E-08	2E-06	2E-07	1E-06	4E-06	1E-05	1E-09			1E-03	1E-10		1E-03

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Maumee River	4E-09	3E-10	2E-12	3E-10	4E-09
2,3,7,8-TCDD-TEQ	Auglaize River	4E-09	3E-10	2E-12	3E-10	4E-09
2,3,7,8-TCDD-TEQ	Six Mile Creek	4E-09	4E-09	2E-12	3E-10	8E-09
Nickel	Maumee River				1E-10	
Nickel	Auglaize River				1E-10	
Nickel	Six Mile Creek				1E-10	
Arsenic	Maumee River	2E-10	1E-13	2E-11	9E-10	2E-10
Arsenic	Auglaize River	2E-10	2E-13	2E-11	9E-10	2E-10
Arsenic	Six Mile Creek	2E-10	2E-12	2E-11	9E-10	2E-10
Beryllium	Maumee River				5E-10	
Beryllium	Auglaize River				5E-10	
Beryllium	Six Mile Creek				5E-10	
Cadmium	Maumee River				1E-09	
Cadmium	Auglaize River				1E-09	
Cadmium	Six Mile Creek				1E-09	
Chromium VI	Maumee River				2E-10	
Chromium VI	Auglaize River				2E-10	
Chromium VI	Six Mile Creek				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Maumee River	2E-08	0E+00	7E-10	2E-05	2E-08
Manganese	Auglaize River	2E-08	0E+00	7E-10	2E-05	2E-08
Manganese	Six Mile Creek	2E-08	0E+00	7E-10	2E-05	2E-08
Mercury (elemental)	Maumee River				1E-05	
Mercury (elemental)	Auglaize River				1E-05	
Mercury (elemental)	Six Mile Creek				1E-05	
Mercury (divalent)	Maumee River	6E-05		4E-07		6E-05
Mercury (divalent)	Auglaize River	6E-05		4E-07		6E-05
Mercury (divalent)	Six Mile Creek	6E-05		4E-07		6E-05
Nickel	Maumee River	1E-07	3E-11	2E-08		2E-07
Nickel	Auglaize River	1E-07	5E-11	2E-08		2E-07
Nickel	Six Mile Creek	1E-07	4E-10	2E-08		2E-07
Silver	Maumee River	6E-10	0E+00	3E-09		4E-09
Silver	Auglaize River	6E-10	0E+00	3E-09		4E-09
Silver	Six Mile Creek	6E-10	0E+00	3E-09		4E-09
Thallium	Maumee River	2E-05	9E-08	6E-07		2E-05
Thallium	Auglaize River	2E-05	1E-07	6E-07		2E-05
Thallium	Six Mile Creek	2E-05	1E-06	6E-07		2E-05
Antimony	Maumee River	3E-07	0E+00	4E-07		8E-07
Antimony	Auglaize River	3E-07	0E+00	4E-07		8E-07
Antimony	Six Mile Creek	3E-07	0E+00	4E-07		8E-07
Arsenic	Maumee River	5E-06	3E-09	5E-07		6E-06
Arsenic	Auglaize River	5E-06	6E-09	5E-07		6E-06
Arsenic	Six Mile Creek	5E-06	5E-08	5E-07		6E-06
Barium	Maumee River	2E-06	0E+00	2E-09	1E-05	2E-06
Barium	Auglaize River	2E-06	0E+00	2E-09	1E-05	2E-06
Barium	Six Mile Creek	2E-06	0E+00	2E-09	1E-05	2E-06
Beryllium	Maumee River	1E-05	7E-10	2E-08		1E-05
Beryllium	Auglaize River	1E-05	1E-09	2E-08		1E-05
Beryllium	Six Mile Creek	1E-05	1E-08	2E-08		1E-05

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Maumee River	2E-05	2E-07	1E-06		3E-05
Cadmium	Auglaize River	2E-05	3E-07	1E-06		3E-05
Cadmium	Six Mile Creek	2E-05	3E-06	1E-06		3E-05
Chromium VI	Maumee River	1E-08	3E-12	2E-09		2E-08
Chromium VI	Auglaize River	1E-08	4E-12	2E-09		2E-08
Chromium VI	Six Mile Creek	1E-08	4E-11	2E-09		2E-08
Chromium III	Maumee River	1E-07	1E-13	2E-12		1E-07
Chromium III	Auglaize River	1E-07	1E-13	2E-12		1E-07
Chromium III	Six Mile Creek	1E-07	2E-12	2E-12		1E-07
Cobalt	Maumee River	2E-08	0E+00	2E-12		2E-08
Cobalt	Auglaize River	2E-08	0E+00	2E-12		2E-08
Cobalt	Six Mile Creek	2E-08	0E+00	2E-12		2E-08
Hydrogen Chloride	Maumee River				1E-03	
Hydrogen Chloride	Auglaize River				1E-03	
Hydrogen Chloride	Six Mile Creek				1E-03	
Selenium	Maumee River	2E-08	3E-08	1E-08		5E-08
Selenium	Auglaize River	2E-08	4E-08	1E-08		7E-08
Selenium	Six Mile Creek	2E-08	4E-07	1E-08		4E-07
Chlorine	Maumee River				1E-04	
Chlorine	Auglaize River				1E-04	
Chlorine	Six Mile Creek				1E-04	
Methylmercury - Developmental Effects	Maumee River	4E-06	1E-04	2E-08		1E-04
Methylmercury - Developmental Effects	Auglaize River	4E-06	2E-04	2E-08		2E-04
Methylmercury - Developmental Effects	Six Mile Creek	4E-06	2E-03	2E-08		2E-03
Methylmercury - Neurological Effects	Maumee River	1E-06	4E-05	5E-09		4E-05
Methylmercury - Neurological Effects	Auglaize River	1E-06	6E-05	5E-09		6E-05
Methylmercury - Neurological Effects	Six Mile Creek	1E-06	8E-04	5E-09		8E-04

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Maumee River	1E-09	3E-10	1E-12	3E-10	2E-09
2,3,7,8-TCDD-TEQ	Auglaize River	1E-09	4E-10	1E-12	3E-10	2E-09
2,3,7,8-TCDD-TEQ	Six Mile Creek	1E-09	6E-09	1E-12	3E-10	7E-09
Nickel	Maumee River				1E-10	
Nickel	Auglaize River				1E-10	
Nickel	Six Mile Creek				1E-10	
Arsenic	Maumee River	7E-11	2E-13	1E-11	1E-09	9E-11
Arsenic	Auglaize River	7E-11	3E-13	1E-11	1E-09	9E-11
Arsenic	Six Mile Creek	7E-11	3E-12	1E-11	1E-09	9E-11
Beryllium	Maumee River				6E-10	
Beryllium	Auglaize River				6E-10	
Beryllium	Six Mile Creek				6E-10	
Cadmium	Maumee River				2E-09	
Cadmium	Auglaize River				2E-09	
Cadmium	Six Mile Creek				2E-09	
Chromium VI	Maumee River				2E-10	
Chromium VI	Auglaize River				2E-10	
Chromium VI	Six Mile Creek				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Maumee River	4E-09	0E+00	4E-10	2E-05	5E-09
Manganese	Auglaize River	4E-09	0E+00	4E-10	2E-05	5E-09
Manganese	Six Mile Creek	4E-09	0E+00	4E-10	2E-05	5E-09
Mercury (elemental)	Maumee River				1E-05	
Mercury (elemental)	Auglaize River				1E-05	
Mercury (elemental)	Six Mile Creek				1E-05	
Mercury (divalent)	Maumee River	1E-05		2E-07		2E-05
Mercury (divalent)	Auglaize River	1E-05		2E-07		2E-05
Mercury (divalent)	Six Mile Creek	1E-05		2E-07		2E-05
Nickel	Maumee River	4E-08	3E-11	1E-08		5E-08
Nickel	Auglaize River	4E-08	5E-11	1E-08		5E-08
Nickel	Six Mile Creek	4E-08	4E-10	1E-08		5E-08
Silver	Maumee River	2E-10	0E+00	2E-09		2E-09
Silver	Auglaize River	2E-10	0E+00	2E-09		2E-09
Silver	Six Mile Creek	2E-10	0E+00	2E-09		2E-09
Thallium	Maumee River	4E-06	9E-08	4E-07		5E-06
Thallium	Auglaize River	4E-06	1E-07	4E-07		5E-06
Thallium	Six Mile Creek	4E-06	1E-06	4E-07		6E-06
Antimony	Maumee River	9E-08	0E+00	2E-07		3E-07
Antimony	Auglaize River	9E-08	0E+00	2E-07		3E-07
Antimony	Six Mile Creek	9E-08	0E+00	2E-07		3E-07
Arsenic	Maumee River	1E-06	3E-09	3E-07		2E-06
Arsenic	Auglaize River	1E-06	6E-09	3E-07		2E-06
Arsenic	Six Mile Creek	1E-06	5E-08	3E-07		2E-06
Barium	Maumee River	5E-07	0E+00	1E-09	1E-05	5E-07
Barium	Auglaize River	5E-07	0E+00	1E-09	1E-05	5E-07
Barium	Six Mile Creek	5E-07	0E+00	1E-09	1E-05	5E-07
Beryllium	Maumee River	3E-06	7E-10	1E-08		3E-06
Beryllium	Auglaize River	3E-06	1E-09	1E-08		3E-06
Beryllium	Six Mile Creek	3E-06	1E-08	1E-08		4E-06

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Maumee River	6E-06	2E-07	6E-07		7E-06
Cadmium	Auglaize River	6E-06	3E-07	6E-07		7E-06
Cadmium	Six Mile Creek	6E-06	3E-06	6E-07		1E-05
Chromium VI	Maumee River	4E-09	3E-12	1E-09		5E-09
Chromium VI	Auglaize River	4E-09	4E-12	1E-09		5E-09
Chromium VI	Six Mile Creek	4E-09	4E-11	1E-09		5E-09
Chromium III	Maumee River	3E-08	1E-13	1E-12		3E-08
Chromium III	Auglaize River	3E-08	1E-13	1E-12		3E-08
Chromium III	Six Mile Creek	3E-08	2E-12	1E-12		3E-08
Cobalt	Maumee River	5E-09	0E+00	1E-12		5E-09
Cobalt	Auglaize River	5E-09	0E+00	1E-12		5E-09
Cobalt	Six Mile Creek	5E-09	0E+00	1E-12		5E-09
Hydrogen Chloride	Maumee River				1E-03	
Hydrogen Chloride	Auglaize River				1E-03	
Hydrogen Chloride	Six Mile Creek				1E-03	
Selenium	Maumee River	5E-09	3E-08	6E-09		4E-08
Selenium	Auglaize River	5E-09	4E-08	6E-09		5E-08
Selenium	Six Mile Creek	5E-09	4E-07	6E-09		4E-07
Chlorine	Maumee River				1E-04	
Chlorine	Auglaize River				1E-04	
Chlorine	Six Mile Creek				1E-04	
Methylmercury - Developmental Effects	Maumee River	9E-07	1E-04	9E-09		1E-04
Methylmercury - Developmental Effects	Auglaize River	9E-07	2E-04	9E-09		2E-04
Methylmercury - Developmental Effects	Six Mile Creek	9E-07	2E-03	9E-09		2E-03
Methylmercury - Neurological Effects	Maumee River	3E-07	4E-05	3E-09		4E-05
Methylmercury - Neurological Effects	Auglaize River	3E-07	6E-05	3E-09		6E-05
Methylmercury - Neurological Effects	Six Mile Creek	3E-07	8E-04	3E-09		8E-04

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Maumee River	7E-10	2E-10	1E-12	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Auglaize River	7E-10	3E-10	1E-12	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Six Mile Creek	7E-10	4E-09	1E-12	2E-10	5E-09
Nickel	Maumee River				9E-11	
Nickel	Auglaize River				9E-11	
Nickel	Six Mile Creek				9E-11	
Arsenic	Maumee River	4E-11	1E-13	1E-11	7E-10	5E-11
Arsenic	Auglaize River	4E-11	2E-13	1E-11	7E-10	5E-11
Arsenic	Six Mile Creek	4E-11	2E-12	1E-11	7E-10	5E-11
Beryllium	Maumee River				4E-10	
Beryllium	Auglaize River				4E-10	
Beryllium	Six Mile Creek				4E-10	
Cadmium	Maumee River				1E-09	
Cadmium	Auglaize River				1E-09	
Cadmium	Six Mile Creek				1E-09	
Chromium VI	Maumee River				1E-10	
Chromium VI	Auglaize River				1E-10	
Chromium VI	Six Mile Creek				1E-10	
	Noncarcinogenic Chemicals					
Manganese	Maumee River	2E-09	0E+00	3E-10	2E-05	3E-09
Manganese	Auglaize River	2E-09	0E+00	3E-10	2E-05	3E-09
Manganese	Six Mile Creek	2E-09	0E+00	3E-10	2E-05	3E-09
Mercury (elemental)	Maumee River				1E-05	
Mercury (elemental)	Auglaize River				1E-05	
Mercury (elemental)	Six Mile Creek				1E-05	
Mercury (divalent)	Maumee River	8E-06		1E-07		8E-06
Mercury (divalent)	Auglaize River	8E-06		1E-07		8E-06
Mercury (divalent)	Six Mile Creek	8E-06		1E-07		8E-06
Nickel	Maumee River	2E-08	2E-11	7E-09		3E-08
Nickel	Auglaize River	2E-08	3E-11	7E-09		3E-08
Nickel	Six Mile Creek	2E-08	3E-10	7E-09		3E-08
Silver	Maumee River	8E-11	0E+00	1E-09		1E-09
Silver	Auglaize River	8E-11	0E+00	1E-09		1E-09
Silver	Six Mile Creek	8E-11	0E+00	1E-09		1E-09
Thallium	Maumee River	2E-06	6E-08	2E-07		3E-06
Thallium	Auglaize River	2E-06	1E-07	2E-07		3E-06
Thallium	Six Mile Creek	2E-06	9E-07	2E-07		3E-06
Antimony	Maumee River	5E-08	0E+00	2E-07		2E-07
Antimony	Auglaize River	5E-08	0E+00	2E-07		2E-07
Antimony	Six Mile Creek	5E-08	0E+00	2E-07		2E-07
Arsenic	Maumee River	7E-07	2E-09	2E-07		9E-07
Arsenic	Auglaize River	7E-07	4E-09	2E-07		9E-07
Arsenic	Six Mile Creek	7E-07	4E-08	2E-07		9E-07
Barium	Maumee River	3E-07	0E+00	9E-10	1E-05	3E-07
Barium	Auglaize River	3E-07	0E+00	9E-10	1E-05	3E-07
Barium	Six Mile Creek	3E-07	0E+00	9E-10	1E-05	3E-07
Beryllium	Maumee River	2E-06	5E-10	8E-09		2E-06
Beryllium	Auglaize River	2E-06	7E-10	8E-09		2E-06
Beryllium	Six Mile Creek	2E-06	9E-09	8E-09		2E-06

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Maumee River	3E-06	2E-07	4E-07		4E-06
Cadmium	Auglaize River	3E-06	2E-07	4E-07		4E-06
Cadmium	Six Mile Creek	3E-06	2E-06	4E-07		6E-06
Chromium VI	Maumee River	2E-09	2E-12	8E-10		3E-09
Chromium VI	Auglaize River	2E-09	3E-12	8E-10		3E-09
Chromium VI	Six Mile Creek	2E-09	3E-11	8E-10		3E-09
Chromium III	Maumee River	2E-08	7E-14	7E-13		2E-08
Chromium III	Auglaize River	2E-08	1E-13	7E-13		2E-08
Chromium III	Six Mile Creek	2E-08	2E-12	7E-13		2E-08
Cobalt	Maumee River	3E-09	0E+00	4E-10		3E-09
Cobalt	Auglaize River	3E-09	0E+00	4E-10		3E-09
Cobalt	Six Mile Creek	3E-09	0E+00	4E-10		3E-09
Hydrogen Chloride	Maumee River				1E-03	
Hydrogen Chloride	Auglaize River				1E-03	
Hydrogen Chloride	Six Mile Creek				1E-03	
Selenium	Maumee River	2E-09	2E-08	4E-09		2E-08
Selenium	Auglaize River	2E-09	3E-08	4E-09		4E-08
Selenium	Six Mile Creek	2E-09	3E-07	4E-09		3E-07
Chlorine	Maumee River				1E-04	
Chlorine	Auglaize River				1E-04	
Chlorine	Six Mile Creek				1E-04	
Methylmercury - Developmental Effects	Maumee River	5E-07	9E-05	6E-09		9E-05
Methylmercury - Developmental Effects	Auglaize River	5E-07	1E-04	6E-09		1E-04
Methylmercury - Developmental Effects	Six Mile Creek	5E-07	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Maumee River	2E-07	3E-05	2E-09		3E-05
Methylmercury - Neurological Effects	Auglaize River	2E-07	4E-05	2E-09		4E-05
Methylmercury - Neurological Effects	Six Mile Creek	2E-07	6E-04	2E-09		6E-04

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Maumee River	5E-10	5E-10	2E-12	3E-10	1E-09
2,3,7,8-TCDD-TEQ	Auglaize River	5E-10	6E-10	2E-12	3E-10	1E-09
2,3,7,8-TCDD-TEQ	Six Mile Creek	5E-10	8E-09	2E-12	3E-10	9E-09
Nickel	Maumee River				1E-10	
Nickel	Auglaize River				1E-10	
Nickel	Six Mile Creek				1E-10	
Arsenic	Maumee River	3E-11	3E-13	2E-11	1E-09	5E-11
Arsenic	Auglaize River	3E-11	4E-13	2E-11	1E-09	5E-11
Arsenic	Six Mile Creek	3E-11	4E-12	2E-11	1E-09	6E-11
Beryllium	Maumee River				5E-10	
Beryllium	Auglaize River				5E-10	
Beryllium	Six Mile Creek				5E-10	
Cadmium	Maumee River				2E-09	
Cadmium	Auglaize River				2E-09	
Cadmium	Six Mile Creek				2E-09	
Chromium VI	Maumee River				2E-10	
Chromium VI	Auglaize River				2E-10	
Chromium VI	Six Mile Creek				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Maumee River	9E-10	0E+00	3E-10	2E-05	1E-09
Manganese	Auglaize River	9E-10	0E+00	3E-10	2E-05	1E-09
Manganese	Six Mile Creek	9E-10	0E+00	3E-10	2E-05	1E-09
Mercury (elemental)	Maumee River				1E-05	
Mercury (elemental)	Auglaize River				1E-05	
Mercury (elemental)	Six Mile Creek				1E-05	
Mercury (divalent)	Maumee River	3E-06		2E-07		3E-06
Mercury (divalent)	Auglaize River	3E-06		2E-07		3E-06
Mercury (divalent)	Six Mile Creek	3E-06		2E-07		3E-06
Nickel	Maumee River	8E-09	2E-11	8E-09		2E-08
Nickel	Auglaize River	8E-09	3E-11	8E-09		2E-08
Nickel	Six Mile Creek	8E-09	3E-10	8E-09		2E-08
Silver	Maumee River	3E-11	0E+00	1E-09		1E-09
Silver	Auglaize River	3E-11	0E+00	1E-09		1E-09
Silver	Six Mile Creek	3E-11	0E+00	1E-09		1E-09
Thallium	Maumee River	9E-07	6E-08	3E-07		1E-06
Thallium	Auglaize River	9E-07	1E-07	3E-07		1E-06
Thallium	Six Mile Creek	9E-07	9E-07	3E-07		2E-06
Antimony	Maumee River	2E-08	0E+00	2E-07		2E-07
Antimony	Auglaize River	2E-08	0E+00	2E-07		2E-07
Antimony	Six Mile Creek	2E-08	0E+00	2E-07		2E-07
Arsenic	Maumee River	3E-07	2E-09	2E-07		5E-07
Arsenic	Auglaize River	3E-07	4E-09	2E-07		5E-07
Arsenic	Six Mile Creek	3E-07	4E-08	2E-07		5E-07
Barium	Maumee River	1E-07	0E+00	1E-09	1E-05	1E-07
Barium	Auglaize River	1E-07	0E+00	1E-09	1E-05	1E-07
Barium	Six Mile Creek	1E-07	0E+00	1E-09	1E-05	1E-07
Beryllium	Maumee River	7E-07	5E-10	9E-09		8E-07
Beryllium	Auglaize River	7E-07	7E-10	9E-09		8E-07
Beryllium	Six Mile Creek	7E-07	9E-09	9E-09		8E-07

Table IX-B8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 302) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Maumee River	1E-06	2E-07	5E-07		2E-06
Cadmium	Auglaize River	1E-06	2E-07	5E-07		2E-06
Cadmium	Six Mile Creek	1E-06	2E-06	5E-07		4E-06
Chromium VI	Maumee River	8E-10	2E-12	9E-10		2E-09
Chromium VI	Auglaize River	8E-10	3E-12	9E-10		2E-09
Chromium VI	Six Mile Creek	8E-10	3E-11	9E-10		2E-09
Chromium III	Maumee River	6E-09	7E-14	8E-13		6E-09
Chromium III	Auglaize River	6E-09	1E-13	8E-13		6E-09
Chromium III	Six Mile Creek	6E-09	2E-12	8E-13		6E-09
Cobalt	Maumee River	1E-09	0E+00	5E-10		2E-09
Cobalt	Auglaize River	1E-09	0E+00	5E-10		2E-09
Cobalt	Six Mile Creek	1E-09	0E+00	5E-10		2E-09
Hydrogen Chloride	Maumee River				1E-03	
Hydrogen Chloride	Auglaize River				1E-03	
Hydrogen Chloride	Six Mile Creek				1E-03	
Selenium	Maumee River	1E-09	2E-08	4E-09		2E-08
Selenium	Auglaize River	1E-09	3E-08	4E-09		3E-08
Selenium	Six Mile Creek	1E-09	3E-07	4E-09		3E-07
Chlorine	Maumee River				1E-04	
Chlorine	Auglaize River				1E-04	
Chlorine	Six Mile Creek				1E-04	
Methylmercury - Developmental Effects	Maumee River	2E-07	9E-05	7E-09		9E-05
Methylmercury - Developmental Effects	Auglaize River	2E-07	1E-04	7E-09		1E-04
Methylmercury - Developmental Effects	Six Mile Creek	2E-07	2E-03	7E-09		2E-03
Methylmercury - Neurological Effects	Maumee River	7E-08	3E-05	2E-09		3E-05
Methylmercury - Neurological Effects	Auglaize River	7E-08	4E-05	2E-09		4E-05
Methylmercury - Neurological Effects	Six Mile Creek	7E-08	6E-04	2E-09		6E-04

Table IX-B9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-08	5E-09	3E-09	1E-08	3E-06	3E-05	3E-07	2E-06	9E-07	1E-06		2E-08	4E-05
Nickel												1E-08	
Arsenic	6E-10	2E-10	1E-10	5E-10	1E-09	2E-09	1E-10			4E-09		1E-08	9E-09
Beryllium												2E-09	
Cadmium												1E-07	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-07	4E-07	2E-07	7E-07	1E-07	6E-06	1E-08			0E+00		2E-03	8E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	1E-05	3E-05	2E-05	2E-04	1E-03	6E-07						2E-03
Nickel	3E-06	1E-06	5E-07	3E-06	3E-05	3E-04	2E-06			6E-06			3E-04
Silver	4E-07	5E-06	1E-06	1E-05	7E-05	3E-02	3E-06			0E+00			3E-02
Thallium	1E-04	8E-06	5E-07	2E-05	2E-03	6E-03	3E-04			5E-03			1E-02
Antimony	9E-07	3E-06	8E-07	8E-06	1E-05	6E-05	4E-07			0E+00			9E-05
Arsenic	2E-05	6E-06	3E-06	1E-05	3E-05	6E-05	3E-06			1E-04			2E-04
Barium	9E-06	9E-07	2E-07	2E-06	4E-07	5E-05	6E-08			0E+00		3E-04	6E-05
Beryllium	1E-05	2E-07	3E-08	4E-07	2E-06	7E-08	6E-07			1E-06			2E-05
Cadmium	4E-04	4E-04	2E-04	7E-04	3E-05	1E-04	6E-06			3E-02			3E-02
Chromium VI	5E-08	1E-08	6E-09	4E-08	5E-07	8E-06	3E-08			9E-08			8E-06
Chromium III	2E-06	2E-08	1E-08	5E-08	1E-06	2E-05	5E-07			2E-10			2E-05
Cobalt	4E-07	8E-08	4E-10	2E-07	7E-06	4E-05	6E-07			0E+00			5E-05
Hydrogen Chloride												4E-04	
Selenium	3E-07	3E-07	2E-07	7E-07	5E-06	5E-04	2E-05			5E-03			5E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	2E-05	3E-06	4E-06	3E-06	1E-05	2E-04	4E-08			2E-01			2E-01
Methylmercury - Neurological Effects	5E-06	9E-07	1E-06	1E-06	5E-06	5E-05	1E-08			7E-02			7E-02

Table IX-B9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	4E-09	3E-09	1E-08	4E-06	2E-05	2E-07	2E-06	1E-06	1E-06		3E-08	3E-05
Nickel												2E-08	
Arsenic	2E-10	2E-10	9E-11	6E-10	2E-09	2E-09	8E-11			4E-09		2E-08	9E-09
Beryllium												3E-09	
Cadmium												1E-07	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-08	2E-07	1E-07	7E-07	1E-07	3E-06	6E-09			0E+00		2E-03	4E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	5E-06	2E-05	2E-05	2E-04	7E-04	4E-07						9E-04
Nickel	7E-07	7E-07	4E-07	3E-06	3E-05	1E-04	1E-06			5E-06			2E-04
Silver	1E-07	3E-06	9E-07	1E-05	8E-05	1E-02	2E-06			0E+00			1E-02
Thallium	3E-05	4E-06	3E-07	2E-05	3E-03	3E-03	2E-04			4E-03			1E-02
Antimony	2E-07	2E-06	6E-07	7E-06	1E-05	3E-05	3E-07			0E+00			5E-05
Arsenic	4E-06	3E-06	2E-06	1E-05	4E-05	3E-05	2E-06			8E-05			2E-04
Barium	2E-06	5E-07	2E-07	2E-06	5E-07	3E-05	4E-08			0E+00		3E-04	3E-05
Beryllium	3E-06	9E-08	2E-08	4E-07	2E-06	4E-08	3E-07			9E-07			7E-06
Cadmium	1E-04	2E-04	1E-04	7E-04	4E-05	6E-05	4E-06			2E-02			2E-02
Chromium VI	1E-08	7E-09	4E-09	4E-08	6E-07	4E-06	2E-08			7E-08			5E-06
Chromium III	5E-07	1E-08	1E-08	5E-08	2E-06	9E-06	3E-07			2E-10			1E-05
Cobalt	1E-07	4E-08	3E-10	2E-07	8E-06	2E-05	3E-07			0E+00			3E-05
Hydrogen Chloride												4E-04	
Selenium	9E-08	1E-07	2E-07	7E-07	6E-06	2E-04	1E-05			4E-03			4E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	4E-06	2E-06	3E-06	3E-06	2E-05	8E-05	2E-08			1E-01			1E-01
Methylmercury - Neurological Effects	1E-06	5E-07	9E-07	1E-06	6E-06	3E-05	8E-09			5E-02			5E-02

Table IX-B9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	3E-09	2E-09	8E-09	2E-06	9E-06	1E-07	9E-07	5E-07	7E-07		2E-08	1E-05
Nickel												1E-08	
Arsenic	1E-10	1E-10	7E-11	3E-10	1E-09	7E-10	5E-11			2E-09		1E-08	5E-09
Beryllium												2E-09	
Cadmium												9E-08	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-08	2E-07	1E-07	4E-07	7E-08	1E-06	4E-09			0E+00		2E-03	2E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	4E-05	4E-06	1E-05	1E-05	9E-05	3E-04	2E-07			0E+00			5E-04
Nickel	4E-07	6E-07	3E-07	2E-06	2E-05	7E-05	7E-07			2E-06			9E-05
Silver	5E-08	2E-06	6E-07	6E-06	4E-05	6E-03	1E-06			0E+00			6E-03
Thallium	1E-05	3E-06	2E-07	1E-05	1E-03	2E-03	1E-04			2E-03			5E-03
Antimony	1E-07	1E-06	4E-07	4E-06	6E-06	1E-05	2E-07			0E+00			3E-05
Arsenic	2E-06	3E-06	1E-06	7E-06	2E-05	1E-05	1E-06			4E-05			9E-05
Barium	1E-06	4E-07	1E-07	9E-07	2E-07	1E-05	2E-08			0E+00		3E-04	1E-05
Beryllium	2E-06	7E-08	2E-08	2E-07	9E-07	2E-08	2E-07			5E-07			4E-06
Cadmium	5E-05	2E-04	9E-05	4E-04	2E-05	3E-05	2E-06			1E-02			1E-02
Chromium VI	7E-09	6E-09	3E-09	2E-08	3E-07	2E-06	1E-08			4E-08			2E-06
Chromium III	3E-07	9E-09	7E-09	3E-08	8E-07	4E-06	2E-07			1E-10			5E-06
Cobalt	5E-08	3E-08	2E-10	1E-07	4E-06	9E-06	2E-07			0E+00			1E-05
Hydrogen Chloride												4E-04	
Selenium	5E-08	1E-07	1E-07	4E-07	3E-06	1E-04	7E-06			2E-03			2E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	2E-06	1E-06	2E-06	2E-06	8E-06	4E-05	1E-08			8E-02			8E-02
Methylmercury - Neurological Effects	7E-07	4E-07	6E-07	5E-07	3E-06	1E-05	5E-09			3E-02			3E-02

Table IX-B9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	8E-09	4E-09	1E-08	4E-06	8E-06	2E-07	1E-06	9E-07	1E-06		2E-08	2E-05
Nickel												1E-08	
Arsenic	9E-11	3E-10	1E-10	6E-10	2E-09	6E-10	9E-11			5E-09		2E-08	9E-09
Beryllium												2E-09	
Cadmium												1E-07	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-07	1E-07	4E-07	7E-08	6E-07	3E-09			0E+00		2E-03	1E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	1E-05	6E-06	2E-05	1E-05	1E-04	1E-04	2E-07			0E+00			3E-04
Nickel	2E-07	7E-07	3E-07	1E-06	2E-05	3E-05	6E-07			3E-06			5E-05
Silver	2E-08	3E-06	7E-07	6E-06	4E-05	3E-03	9E-07			0E+00			3E-03
Thallium	6E-06	4E-06	3E-07	1E-05	1E-03	7E-04	9E-05			2E-03			4E-03
Antimony	5E-08	2E-06	5E-07	4E-06	7E-06	6E-06	1E-07			0E+00			2E-05
Arsenic	9E-07	3E-06	1E-06	6E-06	2E-05	6E-06	8E-07			5E-05			8E-05
Barium	5E-07	5E-07	1E-07	8E-07	3E-07	5E-06	2E-08			0E+00		3E-04	7E-06
Beryllium	7E-07	9E-08	2E-08	2E-07	1E-06	7E-09	2E-07			5E-07			3E-06
Cadmium	2E-05	2E-04	1E-04	3E-04	2E-05	1E-05	2E-06			1E-02			1E-02
Chromium VI	3E-09	8E-09	3E-09	2E-08	3E-07	8E-07	1E-08			4E-08			1E-06
Chromium III	1E-07	1E-08	8E-09	3E-08	9E-07	2E-06	2E-07			1E-10			3E-06
Cobalt	2E-08	5E-08	3E-10	9E-08	4E-06	4E-06	2E-07			0E+00			8E-06
Hydrogen Chloride												4E-04	
Selenium	2E-08	1E-07	1E-07	3E-07	3E-06	5E-05	6E-06			2E-03			2E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	9E-07	2E-06	2E-06	1E-06	9E-06	2E-05	1E-08			9E-02			9E-02
Methylmercury - Neurological Effects	3E-07	5E-07	7E-07	5E-07	3E-06	5E-06	4E-09			3E-02			3E-02

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Walnut Creek	8E-08	7E-07	5E-10	2E-08	8E-07
2,3,7,8-TCDD-TEQ	Deer Creek	8E-08	1E-06	5E-10	2E-08	1E-06
2,3,7,8-TCDD-TEQ	Glenn Flint Lake	8E-08	3E-07	5E-10	2E-08	4E-07
Nickel	Big Walnut Creek				1E-08	
Nickel	Deer Creek				1E-08	
Nickel	Glenn Flint Lake				1E-08	
Arsenic	Big Walnut Creek	6E-10	7E-11	3E-09	1E-08	3E-09
Arsenic	Deer Creek	6E-10	3E-10	3E-09	1E-08	3E-09
Arsenic	Glenn Flint Lake	6E-10	1E-10	3E-09	1E-08	3E-09
Beryllium	Big Walnut Creek				2E-09	
Beryllium	Deer Creek				2E-09	
Beryllium	Glenn Flint Lake				2E-09	
Cadmium	Big Walnut Creek				1E-07	
Cadmium	Deer Creek				1E-07	
Cadmium	Glenn Flint Lake				1E-07	
Chromium VI	Big Walnut Creek				3E-09	
Chromium VI	Deer Creek				3E-09	
Chromium VI	Glenn Flint Lake				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Big Walnut Creek	3E-07	0E+00	6E-07	2E-03	1E-06
Manganese	Deer Creek	3E-07	0E+00	6E-07	2E-03	1E-06
Manganese	Glenn Flint Lake	3E-07	0E+00	6E-07	2E-03	1E-06
Mercury (elemental)	Big Walnut Creek				3E-06	
Mercury (elemental)	Deer Creek				3E-06	
Mercury (elemental)	Glenn Flint Lake				3E-06	
Mercury (divalent)	Big Walnut Creek	3E-04		6E-05		3E-04
Mercury (divalent)	Deer Creek	3E-04		6E-05		3E-04
Mercury (divalent)	Glenn Flint Lake	3E-04		6E-05		3E-04
Nickel	Big Walnut Creek	3E-06	1E-07	2E-05		2E-05
Nickel	Deer Creek	3E-06	4E-07	2E-05		2E-05
Nickel	Glenn Flint Lake	3E-06	2E-07	2E-05		2E-05
Silver	Big Walnut Creek	4E-07	0E+00	8E-05		8E-05
Silver	Deer Creek	4E-07	0E+00	8E-05		8E-05
Silver	Glenn Flint Lake	4E-07	0E+00	8E-05		8E-05
Thallium	Big Walnut Creek	1E-04	1E-04	2E-04		4E-04
Thallium	Deer Creek	1E-04	4E-04	2E-04		7E-04
Thallium	Glenn Flint Lake	1E-04	2E-04	2E-04		5E-04
Antimony	Big Walnut Creek	9E-07	0E+00	5E-05		5E-05
Antimony	Deer Creek	9E-07	0E+00	5E-05		5E-05
Antimony	Glenn Flint Lake	9E-07	0E+00	5E-05		5E-05
Arsenic	Big Walnut Creek	2E-05	2E-06	6E-05		8E-05
Arsenic	Deer Creek	2E-05	7E-06	6E-05		9E-05
Arsenic	Glenn Flint Lake	2E-05	3E-06	6E-05		8E-05
Barium	Big Walnut Creek	9E-06	0E+00	4E-07	3E-04	9E-06
Barium	Deer Creek	9E-06	0E+00	4E-07	3E-04	9E-06
Barium	Glenn Flint Lake	9E-06	0E+00	4E-07	3E-04	9E-06
Beryllium	Big Walnut Creek	1E-05	2E-07	1E-06		1E-05
Beryllium	Deer Creek	1E-05	6E-07	1E-06		1E-05
Beryllium	Glenn Flint Lake	1E-05	2E-07	1E-06		1E-05

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Walnut Creek	4E-04	6E-04	8E-04		2E-03
Cadmium	Deer Creek	4E-04	2E-03	8E-04		3E-03
Cadmium	Glenn Flint Lake	4E-04	1E-03	8E-04		2E-03
Chromium VI	Big Walnut Creek	5E-08	2E-09	3E-07		4E-07
Chromium VI	Deer Creek	5E-08	6E-09	3E-07		4E-07
Chromium VI	Glenn Flint Lake	5E-08	3E-09	3E-07		4E-07
Chromium III	Big Walnut Creek	2E-06	3E-10	3E-10		2E-06
Chromium III	Deer Creek	2E-06	5E-10	3E-10		2E-06
Chromium III	Glenn Flint Lake	2E-06	3E-11	3E-10		2E-06
Cobalt	Big Walnut Creek	4E-07	0E+00	3E-10		4E-07
Cobalt	Deer Creek	4E-07	0E+00	3E-10		4E-07
Cobalt	Glenn Flint Lake	4E-07	0E+00	3E-10		4E-07
Hydrogen Chloride	Big Walnut Creek				4E-04	
Hydrogen Chloride	Deer Creek				4E-04	
Hydrogen Chloride	Glenn Flint Lake				4E-04	
Selenium	Big Walnut Creek	3E-07	8E-05	8E-06		9E-05
Selenium	Deer Creek	3E-07	3E-04	8E-06		3E-04
Selenium	Glenn Flint Lake	3E-07	1E-04	8E-06		2E-04
Chlorine	Big Walnut Creek				9E-05	
Chlorine	Deer Creek				9E-05	
Chlorine	Glenn Flint Lake				9E-05	
Methylmercury - Developmental Effects	Big Walnut Creek	2E-05	2E-01	3E-06		2E-01
Methylmercury - Developmental Effects	Deer Creek	2E-05	4E-01	3E-06		4E-01
Methylmercury - Developmental Effects	Glenn Flint Lake	2E-05	2E-01	3E-06		2E-01
Methylmercury - Neurological Effects	Big Walnut Creek	5E-06	8E-02	9E-07		8E-02
Methylmercury - Neurological Effects	Deer Creek	5E-06	1E-01	9E-07		1E-01
Methylmercury - Neurological Effects	Glenn Flint Lake	5E-06	7E-02	9E-07		7E-02

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Walnut Creek	3E-08	9E-07	4E-10	3E-08	1E-06
2,3,7,8-TCDD-TEQ	Deer Creek	3E-08	2E-06	4E-10	3E-08	2E-06
2,3,7,8-TCDD-TEQ	Glenn Flint Lake	3E-08	4E-07	4E-10	3E-08	4E-07
Nickel	Big Walnut Creek				2E-08	
Nickel	Deer Creek				2E-08	
Nickel	Glenn Flint Lake				2E-08	
Arsenic	Big Walnut Creek	2E-10	1E-10	2E-09	2E-08	2E-09
Arsenic	Deer Creek	2E-10	4E-10	2E-09	2E-08	3E-09
Arsenic	Glenn Flint Lake	2E-10	2E-10	2E-09	2E-08	2E-09
Beryllium	Big Walnut Creek				3E-09	
Beryllium	Deer Creek				3E-09	
Beryllium	Glenn Flint Lake				3E-09	
Cadmium	Big Walnut Creek				1E-07	
Cadmium	Deer Creek				1E-07	
Cadmium	Glenn Flint Lake				1E-07	
Chromium VI	Big Walnut Creek				4E-09	
Chromium VI	Deer Creek				4E-09	
Chromium VI	Glenn Flint Lake				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Big Walnut Creek	9E-08	0E+00	4E-07	2E-03	4E-07
Manganese	Deer Creek	9E-08	0E+00	4E-07	2E-03	4E-07
Manganese	Glenn Flint Lake	9E-08	0E+00	4E-07	2E-03	4E-07
Mercury (elemental)	Big Walnut Creek				3E-06	
Mercury (elemental)	Deer Creek				3E-06	
Mercury (elemental)	Glenn Flint Lake				3E-06	
Mercury (divalent)	Big Walnut Creek	7E-05		4E-05		1E-04
Mercury (divalent)	Deer Creek	7E-05		4E-05		1E-04
Mercury (divalent)	Glenn Flint Lake	7E-05		4E-05		1E-04
Nickel	Big Walnut Creek	7E-07	1E-07	9E-06		1E-05
Nickel	Deer Creek	7E-07	4E-07	9E-06		1E-05
Nickel	Glenn Flint Lake	7E-07	2E-07	9E-06		1E-05
Silver	Big Walnut Creek	1E-07	0E+00	5E-05		5E-05
Silver	Deer Creek	1E-07	0E+00	5E-05		5E-05
Silver	Glenn Flint Lake	1E-07	0E+00	5E-05		5E-05
Thallium	Big Walnut Creek	3E-05	1E-04	1E-04		2E-04
Thallium	Deer Creek	3E-05	4E-04	1E-04		5E-04
Thallium	Glenn Flint Lake	3E-05	2E-04	1E-04		3E-04
Antimony	Big Walnut Creek	2E-07	0E+00	3E-05		3E-05
Antimony	Deer Creek	2E-07	0E+00	3E-05		3E-05
Antimony	Glenn Flint Lake	2E-07	0E+00	3E-05		3E-05
Arsenic	Big Walnut Creek	4E-06	2E-06	4E-05		4E-05
Arsenic	Deer Creek	4E-06	7E-06	4E-05		5E-05
Arsenic	Glenn Flint Lake	4E-06	3E-06	4E-05		4E-05
Barium	Big Walnut Creek	2E-06	0E+00	2E-07	3E-04	3E-06
Barium	Deer Creek	2E-06	0E+00	2E-07	3E-04	3E-06
Barium	Glenn Flint Lake	2E-06	0E+00	2E-07	3E-04	3E-06
Beryllium	Big Walnut Creek	3E-06	2E-07	5E-07		4E-06
Beryllium	Deer Creek	3E-06	6E-07	5E-07		4E-06
Beryllium	Glenn Flint Lake	3E-06	2E-07	5E-07		4E-06

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Walnut Creek	1E-04	6E-04	4E-04		1E-03
Cadmium	Deer Creek	1E-04	2E-03	4E-04		3E-03
Cadmium	Glenn Flint Lake	1E-04	1E-03	4E-04		2E-03
Chromium VI	Big Walnut Creek	1E-08	2E-09	2E-07		2E-07
Chromium VI	Deer Creek	1E-08	6E-09	2E-07		2E-07
Chromium VI	Glenn Flint Lake	1E-08	3E-09	2E-07		2E-07
Chromium III	Big Walnut Creek	5E-07	3E-10	2E-10		5E-07
Chromium III	Deer Creek	5E-07	5E-10	2E-10		5E-07
Chromium III	Glenn Flint Lake	5E-07	3E-11	2E-10		5E-07
Cobalt	Big Walnut Creek	1E-07	0E+00	2E-10		1E-07
Cobalt	Deer Creek	1E-07	0E+00	2E-10		1E-07
Cobalt	Glenn Flint Lake	1E-07	0E+00	2E-10		1E-07
Hydrogen Chloride	Big Walnut Creek				4E-04	
Hydrogen Chloride	Deer Creek				4E-04	
Hydrogen Chloride	Glenn Flint Lake				4E-04	
Selenium	Big Walnut Creek	9E-08	8E-05	4E-06		8E-05
Selenium	Deer Creek	9E-08	3E-04	4E-06		3E-04
Selenium	Glenn Flint Lake	9E-08	1E-04	4E-06		1E-04
Chlorine	Big Walnut Creek				9E-05	
Chlorine	Deer Creek				9E-05	
Chlorine	Glenn Flint Lake				9E-05	
Methylmercury - Developmental Effects	Big Walnut Creek	4E-06	2E-01	2E-06		2E-01
Methylmercury - Developmental Effects	Deer Creek	4E-06	4E-01	2E-06		4E-01
Methylmercury - Developmental Effects	Glenn Flint Lake	4E-06	2E-01	2E-06		2E-01
Methylmercury - Neurological Effects	Big Walnut Creek	1E-06	8E-02	5E-07		8E-02
Methylmercury - Neurological Effects	Deer Creek	1E-06	1E-01	5E-07		1E-01
Methylmercury - Neurological Effects	Glenn Flint Lake	1E-06	7E-02	5E-07		7E-02

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Walnut Creek	1E-08	7E-07	3E-10	2E-08	7E-07
2,3,7,8-TCDD-TEQ	Deer Creek	1E-08	1E-06	3E-10	2E-08	1E-06
2,3,7,8-TCDD-TEQ	Glenn Flint Lake	1E-08	3E-07	3E-10	2E-08	3E-07
Nickel	Big Walnut Creek				1E-08	
Nickel	Deer Creek				1E-08	
Nickel	Glenn Flint Lake				1E-08	
Arsenic	Big Walnut Creek	1E-10	7E-11	1E-09	1E-08	1E-09
Arsenic	Deer Creek	1E-10	3E-10	1E-09	1E-08	2E-09
Arsenic	Glenn Flint Lake	1E-10	1E-10	1E-09	1E-08	2E-09
Beryllium	Big Walnut Creek				2E-09	
Beryllium	Deer Creek				2E-09	
Beryllium	Glenn Flint Lake				2E-09	
Cadmium	Big Walnut Creek				9E-08	
Cadmium	Deer Creek				9E-08	
Cadmium	Glenn Flint Lake				9E-08	
Chromium VI	Big Walnut Creek				2E-09	
Chromium VI	Deer Creek				2E-09	
Chromium VI	Glenn Flint Lake				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Big Walnut Creek	5E-08	0E+00	2E-07	2E-03	3E-07
Manganese	Deer Creek	5E-08	0E+00	2E-07	2E-03	3E-07
Manganese	Glenn Flint Lake	5E-08	0E+00	2E-07	2E-03	3E-07
Mercury (elemental)	Big Walnut Creek				3E-06	
Mercury (elemental)	Deer Creek				3E-06	
Mercury (elemental)	Glenn Flint Lake				3E-06	
Mercury (divalent)	Big Walnut Creek	4E-05		2E-05		6E-05
Mercury (divalent)	Deer Creek	4E-05		2E-05		6E-05
Mercury (divalent)	Glenn Flint Lake	4E-05		2E-05		6E-05
Nickel	Big Walnut Creek	4E-07	7E-08	6E-06		6E-06
Nickel	Deer Creek	4E-07	3E-07	6E-06		6E-06
Nickel	Glenn Flint Lake	4E-07	1E-07	6E-06		6E-06
Silver	Big Walnut Creek	5E-08	0E+00	3E-05		3E-05
Silver	Deer Creek	5E-08	0E+00	3E-05		3E-05
Silver	Glenn Flint Lake	5E-08	0E+00	3E-05		3E-05
Thallium	Big Walnut Creek	1E-05	7E-05	7E-05		2E-04
Thallium	Deer Creek	1E-05	3E-04	7E-05		4E-04
Thallium	Glenn Flint Lake	1E-05	1E-04	7E-05		2E-04
Antimony	Big Walnut Creek	1E-07	0E+00	2E-05		2E-05
Antimony	Deer Creek	1E-07	0E+00	2E-05		2E-05
Antimony	Glenn Flint Lake	1E-07	0E+00	2E-05		2E-05
Arsenic	Big Walnut Creek	2E-06	1E-06	2E-05		3E-05
Arsenic	Deer Creek	2E-06	5E-06	2E-05		3E-05
Arsenic	Glenn Flint Lake	2E-06	2E-06	2E-05		3E-05
Barium	Big Walnut Creek	1E-06	0E+00	2E-07	3E-04	1E-06
Barium	Deer Creek	1E-06	0E+00	2E-07	3E-04	1E-06
Barium	Glenn Flint Lake	1E-06	0E+00	2E-07	3E-04	1E-06
Beryllium	Big Walnut Creek	2E-06	2E-07	3E-07		2E-06
Beryllium	Deer Creek	2E-06	4E-07	3E-07		2E-06
Beryllium	Glenn Flint Lake	2E-06	1E-07	3E-07		2E-06

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Walnut Creek	5E-05	4E-04	3E-04		8E-04
Cadmium	Deer Creek	5E-05	2E-03	3E-04		2E-03
Cadmium	Glenn Flint Lake	5E-05	8E-04	3E-04		1E-03
Chromium VI	Big Walnut Creek	7E-09	1E-09	1E-07		1E-07
Chromium VI	Deer Creek	7E-09	4E-09	1E-07		1E-07
Chromium VI	Glenn Flint Lake	7E-09	2E-09	1E-07		1E-07
Chromium III	Big Walnut Creek	3E-07	2E-10	1E-10		3E-07
Chromium III	Deer Creek	3E-07	3E-10	1E-10		3E-07
Chromium III	Glenn Flint Lake	3E-07	2E-11	1E-10		3E-07
Cobalt	Big Walnut Creek	5E-08	0E+00	4E-07		4E-07
Cobalt	Deer Creek	5E-08	0E+00	4E-07		4E-07
Cobalt	Glenn Flint Lake	5E-08	0E+00	4E-07		4E-07
Hydrogen Chloride	Big Walnut Creek				4E-04	
Hydrogen Chloride	Deer Creek				4E-04	
Hydrogen Chloride	Glenn Flint Lake				4E-04	
Selenium	Big Walnut Creek	5E-08	6E-05	3E-06		6E-05
Selenium	Deer Creek	5E-08	2E-04	3E-06		2E-04
Selenium	Glenn Flint Lake	5E-08	1E-04	3E-06		1E-04
Chlorine	Big Walnut Creek				9E-05	
Chlorine	Deer Creek				9E-05	
Chlorine	Glenn Flint Lake				9E-05	
Methylmercury - Developmental Effects	Big Walnut Creek	2E-06	2E-01	1E-06		2E-01
Methylmercury - Developmental Effects	Deer Creek	2E-06	3E-01	1E-06		3E-01
Methylmercury - Developmental Effects	Glenn Flint Lake	2E-06	1E-01	1E-06		1E-01
Methylmercury - Neurological Effects	Big Walnut Creek	7E-07	6E-02	3E-07		6E-02
Methylmercury - Neurological Effects	Deer Creek	7E-07	1E-01	3E-07		1E-01
Methylmercury - Neurological Effects	Glenn Flint Lake	7E-07	5E-02	3E-07		5E-02

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Walnut Creek	1E-08	1E-06	5E-10	2E-08	1E-06
2,3,7,8-TCDD-TEQ	Deer Creek	1E-08	2E-06	5E-10	2E-08	2E-06
2,3,7,8-TCDD-TEQ	Glenn Flint Lake	1E-08	5E-07	5E-10	2E-08	5E-07
Nickel	Big Walnut Creek				1E-08	
Nickel	Deer Creek				1E-08	
Nickel	Glenn Flint Lake				1E-08	
Arsenic	Big Walnut Creek	9E-11	1E-10	3E-09	2E-08	3E-09
Arsenic	Deer Creek	9E-11	5E-10	3E-09	2E-08	3E-09
Arsenic	Glenn Flint Lake	9E-11	2E-10	3E-09	2E-08	3E-09
Beryllium	Big Walnut Creek				2E-09	
Beryllium	Deer Creek				2E-09	
Beryllium	Glenn Flint Lake				2E-09	
Cadmium	Big Walnut Creek				1E-07	
Cadmium	Deer Creek				1E-07	
Cadmium	Glenn Flint Lake				1E-07	
Chromium VI	Big Walnut Creek				4E-09	
Chromium VI	Deer Creek				4E-09	
Chromium VI	Glenn Flint Lake				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Big Walnut Creek	2E-08	0E+00	3E-07	2E-03	3E-07
Manganese	Deer Creek	2E-08	0E+00	3E-07	2E-03	3E-07
Manganese	Glenn Flint Lake	2E-08	0E+00	3E-07	2E-03	3E-07
Mercury (elemental)	Big Walnut Creek				3E-06	
Mercury (elemental)	Deer Creek				3E-06	
Mercury (elemental)	Glenn Flint Lake				3E-06	
Mercury (divalent)	Big Walnut Creek	1E-05		3E-05		4E-05
Mercury (divalent)	Deer Creek	1E-05		3E-05		4E-05
Mercury (divalent)	Glenn Flint Lake	1E-05		3E-05		4E-05
Nickel	Big Walnut Creek	2E-07	7E-08	7E-06		7E-06
Nickel	Deer Creek	2E-07	3E-07	7E-06		7E-06
Nickel	Glenn Flint Lake	2E-07	1E-07	7E-06		7E-06
Silver	Big Walnut Creek	2E-08	0E+00	4E-05		4E-05
Silver	Deer Creek	2E-08	0E+00	4E-05		4E-05
Silver	Glenn Flint Lake	2E-08	0E+00	4E-05		4E-05
Thallium	Big Walnut Creek	6E-06	7E-05	8E-05		2E-04
Thallium	Deer Creek	6E-06	3E-04	8E-05		4E-04
Thallium	Glenn Flint Lake	6E-06	1E-04	8E-05		2E-04
Antimony	Big Walnut Creek	5E-08	0E+00	2E-05		2E-05
Antimony	Deer Creek	5E-08	0E+00	2E-05		2E-05
Antimony	Glenn Flint Lake	5E-08	0E+00	2E-05		2E-05
Arsenic	Big Walnut Creek	9E-07	1E-06	3E-05		3E-05
Arsenic	Deer Creek	9E-07	5E-06	3E-05		3E-05
Arsenic	Glenn Flint Lake	9E-07	2E-06	3E-05		3E-05
Barium	Big Walnut Creek	5E-07	0E+00	2E-07	3E-04	7E-07
Barium	Deer Creek	5E-07	0E+00	2E-07	3E-04	7E-07
Barium	Glenn Flint Lake	5E-07	0E+00	2E-07	3E-04	7E-07
Beryllium	Big Walnut Creek	7E-07	2E-07	4E-07		1E-06
Beryllium	Deer Creek	7E-07	4E-07	4E-07		2E-06
Beryllium	Glenn Flint Lake	7E-07	1E-07	4E-07		1E-06

Table IX-B10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 304) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Walnut Creek	2E-05	4E-04	3E-04		8E-04
Cadmium	Deer Creek	2E-05	2E-03	3E-04		2E-03
Cadmium	Glenn Flint Lake	2E-05	8E-04	3E-04		1E-03
Chromium VI	Big Walnut Creek	3E-09	1E-09	1E-07		1E-07
Chromium VI	Deer Creek	3E-09	4E-09	1E-07		1E-07
Chromium VI	Glenn Flint Lake	3E-09	2E-09	1E-07		1E-07
Chromium III	Big Walnut Creek	1E-07	2E-10	1E-10		1E-07
Chromium III	Deer Creek	1E-07	3E-10	1E-10		1E-07
Chromium III	Glenn Flint Lake	1E-07	2E-11	1E-10		1E-07
Cobalt	Big Walnut Creek	2E-08	0E+00	5E-07		5E-07
Cobalt	Deer Creek	2E-08	0E+00	5E-07		5E-07
Cobalt	Glenn Flint Lake	2E-08	0E+00	5E-07		5E-07
Hydrogen Chloride	Big Walnut Creek				4E-04	
Hydrogen Chloride	Deer Creek				4E-04	
Hydrogen Chloride	Glenn Flint Lake				4E-04	
Selenium	Big Walnut Creek	2E-08	6E-05	3E-06		6E-05
Selenium	Deer Creek	2E-08	2E-04	3E-06		2E-04
Selenium	Glenn Flint Lake	2E-08	1E-04	3E-06		1E-04
Chlorine	Big Walnut Creek				9E-05	
Chlorine	Deer Creek				9E-05	
Chlorine	Glenn Flint Lake				9E-05	
Methylmercury - Developmental Effects	Big Walnut Creek	9E-07	2E-01	1E-06		2E-01
Methylmercury - Developmental Effects	Deer Creek	9E-07	3E-01	1E-06		3E-01
Methylmercury - Developmental Effects	Glenn Flint Lake	9E-07	1E-01	1E-06		1E-01
Methylmercury - Neurological Effects	Big Walnut Creek	3E-07	6E-02	4E-07		6E-02
Methylmercury - Neurological Effects	Deer Creek	3E-07	1E-01	4E-07		1E-01
Methylmercury - Neurological Effects	Glenn Flint Lake	3E-07	5E-02	4E-07		5E-02

Table IX-B11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-11	5E-11	5E-11	8E-09	7E-08	2E-09	2E-08	1E-08	3E-08		5E-12	1E-07
Nickel												2E-12	
Arsenic	5E-11	1E-11	6E-12	2E-11	3E-11	6E-11	5E-12			3E-10		1E-11	5E-10
Beryllium												5E-12	
Cadmium												2E-11	
Chromium VI												2E-11	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	5E-08	2E-07	3E-08	2E-06	3E-09			0E+00		8E-06	2E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	9E-06	2E-05	5E-05	5E-04	2E-07						6E-04
Nickel	4E-08	1E-08	6E-09	3E-08	2E-07	2E-06	2E-08			8E-08			3E-06
Silver	5E-09	4E-08	2E-08	1E-07	5E-07	2E-04	2E-08			0E+00			2E-04
Thallium	1E-04	5E-06	4E-07	1E-05	2E-03	4E-03	3E-04			6E-03			1E-02
Antimony	9E-06	2E-05	9E-06	5E-05	3E-05	2E-04	2E-06			0E+00			3E-04
Arsenic	1E-06	3E-07	2E-07	6E-07	9E-07	1E-06	1E-07			8E-06			1E-05
Barium	2E-06	2E-07	5E-08	4E-07	9E-08	1E-05	1E-08			0E+00		1E-06	1E-05
Beryllium	2E-06	2E-08	5E-09	5E-08	2E-07	9E-09	8E-08			4E-07			3E-06
Cadmium	5E-06	4E-06	2E-06	8E-06	4E-07	1E-06	8E-08			4E-04			4E-04
Chromium VI	3E-08	4E-09	3E-09	1E-08	1E-07	2E-06	1E-08			5E-08			2E-06
Chromium III	4E-08	4E-10	3E-10	1E-09	3E-08	3E-07	1E-08			1E-11			4E-07
Cobalt	3E-07	4E-08	2E-10	8E-08	3E-06	1E-05	3E-07			0E+00			2E-05
Hydrogen Chloride												6E-04	
Selenium	4E-07	1E-07	3E-07	3E-07	2E-06	2E-04	1E-05			6E-03			6E-03
Chlorine												9E-04	
Methylmercury - Developmental Effects	5E-06	3E-06	1E-06	3E-06	1E-05	1E-04	1E-08			1E-01			1E-01
Methylmercury - Neurological Effects	2E-06	1E-06	4E-07	1E-06	3E-06	4E-05	4E-09			3E-02			3E-02

Table IX-B11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	1E-11	4E-11	6E-11	1E-08	5E-08	2E-09	2E-08	2E-08	3E-08		6E-12	1E-07
Nickel												2E-12	
Arsenic	2E-11	8E-12	6E-12	3E-11	6E-11	4E-11	4E-12			3E-10		1E-11	5E-10
Beryllium												6E-12	
Cadmium												2E-11	
Chromium VI												2E-11	
	Noncarcinogenic Chemicals												
Manganese	3E-08	6E-08	4E-08	2E-07	4E-08	8E-07	2E-09			0E+00		8E-06	1E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	6E-06	6E-06	2E-05	6E-05	2E-04	1E-07						3E-04
Nickel	9E-09	7E-09	4E-09	3E-08	3E-07	1E-06	1E-08			6E-08			1E-06
Silver	1E-09	2E-08	1E-08	1E-07	6E-07	1E-04	1E-08			0E+00			1E-04
Thallium	3E-05	3E-06	3E-07	1E-05	2E-03	2E-03	2E-04			5E-03			9E-03
Antimony	2E-06	1E-05	6E-06	5E-05	4E-05	9E-05	1E-06			0E+00			2E-04
Arsenic	3E-07	2E-07	1E-07	6E-07	1E-06	7E-07	8E-08			6E-06			9E-06
Barium	5E-07	1E-07	3E-08	4E-07	1E-07	6E-06	8E-09			0E+00		1E-06	7E-06
Beryllium	5E-07	1E-08	3E-09	5E-08	3E-07	4E-09	5E-08			3E-07			1E-06
Cadmium	1E-06	2E-06	1E-06	7E-06	4E-07	6E-07	5E-08			3E-04			3E-04
Chromium VI	7E-09	2E-09	2E-09	1E-08	2E-07	1E-06	7E-09			3E-08			1E-06
Chromium III	1E-08	2E-10	2E-10	1E-09	3E-08	2E-07	7E-09			1E-11			2E-07
Cobalt	7E-08	2E-08	2E-10	8E-08	3E-06	7E-06	2E-07			0E+00			1E-05
Hydrogen Chloride												6E-04	
Selenium	1E-07	8E-08	2E-07	3E-07	2E-06	8E-05	6E-06			5E-03			5E-03
Chlorine												9E-04	
Methylmercury - Developmental Effects	1E-06	2E-06	8E-07	3E-06	1E-05	6E-05	8E-09			8E-02			8E-02
Methylmercury - Neurological Effects	4E-07	6E-07	3E-07	1E-06	4E-06	2E-05	3E-09			3E-02			3E-02

Table IX-B11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	1E-11	3E-11	3E-11	6E-09	2E-08	1E-09	1E-08	9E-09	2E-08		4E-12	7E-08
Nickel												1E-12	
Arsenic	9E-12	6E-12	4E-12	2E-11	3E-11	2E-11	3E-12			2E-10		9E-12	3E-10
Beryllium												4E-12	
Cadmium												1E-11	
Chromium VI												1E-11	
	Noncarcinogenic Chemicals												
Manganese	2E-08	4E-08	3E-08	1E-07	2E-08	4E-07	1E-09			0E+00		8E-06	6E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	1E-05	4E-06	4E-06	1E-05	3E-05	1E-04	7E-08			0E+00			2E-04
Nickel	5E-09	5E-09	3E-09	1E-08	1E-07	5E-07	7E-09			3E-08			7E-07
Silver	7E-10	2E-08	8E-09	5E-08	3E-07	5E-05	8E-09			0E+00			5E-05
Thallium	2E-05	2E-06	2E-07	7E-06	9E-04	1E-03	1E-04			2E-03			5E-03
Antimony	1E-06	1E-05	4E-06	3E-05	2E-05	4E-05	6E-07			0E+00			1E-04
Arsenic	2E-07	1E-07	8E-08	3E-07	5E-07	3E-07	5E-08			3E-06			5E-06
Barium	3E-07	8E-08	2E-08	2E-07	5E-08	3E-06	5E-09			0E+00		1E-06	3E-06
Beryllium	2E-07	9E-09	2E-09	2E-08	1E-07	2E-09	3E-08			1E-07			6E-07
Cadmium	7E-07	2E-06	9E-07	4E-06	2E-07	3E-07	3E-08			2E-04			2E-04
Chromium VI	3E-09	2E-09	1E-09	6E-09	7E-08	5E-07	4E-09			2E-08			6E-07
Chromium III	6E-09	2E-10	2E-10	5E-10	2E-08	8E-08	4E-09			5E-12			1E-07
Cobalt	4E-08	2E-08	1E-10	4E-08	1E-06	3E-06	1E-07			0E+00			5E-06
Hydrogen Chloride												6E-04	
Selenium	6E-08	6E-08	2E-07	2E-07	9E-07	4E-05	4E-06			2E-03			3E-03
Chlorine												9E-04	
Methylmercury - Developmental Effects	7E-07	1E-06	6E-07	2E-06	5E-06	3E-05	5E-09			4E-02			4E-02
Methylmercury - Neurological Effects	2E-07	5E-07	2E-07	6E-07	2E-06	1E-05	2E-09			1E-02			1E-02

Table IX-B11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	3E-11	6E-11	6E-11	1E-08	2E-08	2E-09	2E-08	2E-08	3E-08		6E-12	1E-07
Nickel												2E-12	
Arsenic	7E-12	1E-11	8E-12	2E-11	6E-11	2E-11	5E-12			4E-10		1E-11	5E-10
Beryllium												5E-12	
Cadmium												2E-11	
Chromium VI												2E-11	
	Noncarcinogenic Chemicals												
Manganese	6E-09	6E-08	3E-08	9E-08	2E-08	2E-07	1E-09			0E+00		8E-06	4E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	4E-06	6E-06	5E-06	1E-05	3E-05	5E-05	6E-08			0E+00			1E-04
Nickel	2E-09	7E-09	3E-09	1E-08	1E-07	2E-07	6E-09			3E-08			4E-07
Silver	3E-10	3E-08	9E-09	5E-08	3E-07	2E-05	7E-09			0E+00			2E-05
Thallium	7E-06	3E-06	3E-07	7E-06	1E-03	4E-04	9E-05			3E-03			4E-03
Antimony	5E-07	1E-05	5E-06	2E-05	2E-05	2E-05	6E-07			0E+00			8E-05
Arsenic	7E-08	2E-07	9E-08	3E-07	5E-07	1E-07	4E-08			3E-06			5E-06
Barium	1E-07	1E-07	3E-08	2E-07	5E-08	1E-06	5E-09			0E+00		1E-06	2E-06
Beryllium	1E-07	1E-08	3E-09	2E-08	1E-07	9E-10	3E-08			2E-07			5E-07
Cadmium	3E-07	2E-06	1E-06	4E-06	2E-07	1E-07	3E-08			2E-04			2E-04
Chromium VI	1E-09	2E-09	1E-09	5E-09	8E-08	2E-07	4E-09			2E-08			3E-07
Chromium III	2E-09	2E-10	2E-10	5E-10	2E-08	3E-08	4E-09			6E-12			6E-08
Cobalt	1E-08	2E-08	1E-10	4E-08	2E-06	1E-06	1E-07			0E+00			3E-06
Hydrogen Chloride												6E-04	
Selenium	2E-08	8E-08	2E-07	2E-07	1E-06	2E-05	3E-06			3E-03			3E-03
Chlorine												9E-04	
Methylmercury - Developmental Effects	3E-07	2E-06	7E-07	2E-06	6E-06	1E-05	4E-09			5E-02			5E-02
Methylmercury - Neurological Effects	9E-08	6E-07	2E-07	5E-07	2E-06	4E-06	1E-09			2E-02			2E-02

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mud Devils Lake	1E-09	7E-08	0E+00	5E-12	7E-08
2,3,7,8-TCDD-TEQ	Thunder Bay River	1E-09	1E-08	0E+00	5E-12	1E-08
2,3,7,8-TCDD-TEQ	Long Lake	1E-09	2E-08	0E+00	5E-12	2E-08
Nickel	Mud Devils Lake				2E-12	
Nickel	Thunder Bay River				2E-12	
Nickel	Long Lake				2E-12	
Arsenic	Mud Devils Lake	5E-11	5E-11	0E+00	1E-11	1E-10
Arsenic	Thunder Bay River	5E-11	3E-12	0E+00	1E-11	5E-11
Arsenic	Long Lake	5E-11	5E-11	0E+00	1E-11	1E-10
Beryllium	Mud Devils Lake				5E-12	
Beryllium	Thunder Bay River				5E-12	
Beryllium	Long Lake				5E-12	
Cadmium	Mud Devils Lake				2E-11	
Cadmium	Thunder Bay River				2E-11	
Cadmium	Long Lake				2E-11	
Chromium VI	Mud Devils Lake				2E-11	
Chromium VI	Thunder Bay River				2E-11	
Chromium VI	Long Lake				2E-11	
	Noncarcinogenic Chemicals					
Manganese	Mud Devils Lake	1E-07	0E+00	0E+00	8E-06	1E-07
Manganese	Thunder Bay River	1E-07	0E+00	0E+00	8E-06	1E-07
Manganese	Long Lake	1E-07	0E+00	0E+00	8E-06	1E-07
Mercury (elemental)	Mud Devils Lake				4E-06	
Mercury (elemental)	Thunder Bay River				4E-06	
Mercury (elemental)	Long Lake				4E-06	
Mercury (divalent)	Mud Devils Lake	8E-05		0E+00		8E-05
Mercury (divalent)	Thunder Bay River	8E-05		0E+00		8E-05
Mercury (divalent)	Long Lake	8E-05		0E+00		8E-05
Nickel	Mud Devils Lake	4E-08	1E-08	0E+00		5E-08
Nickel	Thunder Bay River	4E-08	6E-10	0E+00		4E-08
Nickel	Long Lake	4E-08	1E-08	0E+00		5E-08
Silver	Mud Devils Lake	5E-09	0E+00	0E+00		5E-09
Silver	Thunder Bay River	5E-09	0E+00	0E+00		5E-09
Silver	Long Lake	5E-09	0E+00	0E+00		5E-09
Thallium	Mud Devils Lake	1E-04	1E-03	0E+00		1E-03
Thallium	Thunder Bay River	1E-04	5E-05	0E+00		2E-04
Thallium	Long Lake	1E-04	1E-03	0E+00		1E-03
Antimony	Mud Devils Lake	9E-06	0E+00	0E+00		9E-06
Antimony	Thunder Bay River	9E-06	0E+00	0E+00		9E-06
Antimony	Long Lake	9E-06	0E+00	0E+00		9E-06
Arsenic	Mud Devils Lake	1E-06	1E-06	0E+00		2E-06
Arsenic	Thunder Bay River	1E-06	6E-08	0E+00		1E-06
Arsenic	Long Lake	1E-06	1E-06	0E+00		2E-06
Barium	Mud Devils Lake	2E-06	0E+00	0E+00	1E-06	2E-06
Barium	Thunder Bay River	2E-06	0E+00	0E+00	1E-06	2E-06
Barium	Long Lake	2E-06	0E+00	0E+00	1E-06	2E-06
Beryllium	Mud Devils Lake	2E-06	3E-07	0E+00		2E-06
Beryllium	Thunder Bay River	2E-06	1E-08	0E+00		2E-06
Beryllium	Long Lake	2E-06	3E-07	0E+00		2E-06

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mud Devils Lake	5E-06	7E-05	0E+00		8E-05
Cadmium	Thunder Bay River	5E-06	4E-06	0E+00		9E-06
Cadmium	Long Lake	5E-06	7E-05	0E+00		8E-05
Chromium VI	Mud Devils Lake	3E-08	7E-09	0E+00		3E-08
Chromium VI	Thunder Bay River	3E-08	4E-10	0E+00		3E-08
Chromium VI	Long Lake	3E-08	7E-09	0E+00		3E-08
Chromium III	Mud Devils Lake	4E-08	4E-11	0E+00		4E-08
Chromium III	Thunder Bay River	4E-08	9E-12	0E+00		4E-08
Chromium III	Long Lake	4E-08	3E-11	0E+00		4E-08
Cobalt	Mud Devils Lake	3E-07	0E+00	0E+00		3E-07
Cobalt	Thunder Bay River	3E-07	0E+00	0E+00		3E-07
Cobalt	Long Lake	3E-07	0E+00	0E+00		3E-07
Hydrogen Chloride	Mud Devils Lake				6E-04	
Hydrogen Chloride	Thunder Bay River				6E-04	
Hydrogen Chloride	Long Lake				6E-04	
Selenium	Mud Devils Lake	4E-07	9E-04	0E+00		9E-04
Selenium	Thunder Bay River	4E-07	5E-05	0E+00		5E-05
Selenium	Long Lake	4E-07	1E-03	0E+00		1E-03
Chlorine	Mud Devils Lake				9E-04	
Chlorine	Thunder Bay River				9E-04	
Chlorine	Long Lake				9E-04	
Methylmercury - Developmental Effects	Mud Devils Lake	5E-06	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	Thunder Bay River	5E-06	5E-03	0E+00		5E-03
Methylmercury - Developmental Effects	Long Lake	5E-06	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Mud Devils Lake	2E-06	4E-02	0E+00		4E-02
Methylmercury - Neurological Effects	Thunder Bay River	2E-06	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Long Lake	2E-06	6E-03	0E+00		6E-03

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mud Devils Lake	5E-10	1E-07	0E+00	6E-12	1E-07
2,3,7,8-TCDD-TEQ	Thunder Bay River	5E-10	2E-08	0E+00	6E-12	2E-08
2,3,7,8-TCDD-TEQ	Long Lake	5E-10	2E-08	0E+00	6E-12	3E-08
Nickel	Mud Devils Lake				2E-12	
Nickel	Thunder Bay River				2E-12	
Nickel	Long Lake				2E-12	
Arsenic	Mud Devils Lake	2E-11	7E-11	0E+00	1E-11	8E-11
Arsenic	Thunder Bay River	2E-11	3E-12	0E+00	1E-11	2E-11
Arsenic	Long Lake	2E-11	7E-11	0E+00	1E-11	9E-11
Beryllium	Mud Devils Lake				6E-12	
Beryllium	Thunder Bay River				6E-12	
Beryllium	Long Lake				6E-12	
Cadmium	Mud Devils Lake				2E-11	
Cadmium	Thunder Bay River				2E-11	
Cadmium	Long Lake				2E-11	
Chromium VI	Mud Devils Lake				2E-11	
Chromium VI	Thunder Bay River				2E-11	
Chromium VI	Long Lake				2E-11	
	Noncarcinogenic Chemicals					
Manganese	Mud Devils Lake	3E-08	0E+00	0E+00	8E-06	3E-08
Manganese	Thunder Bay River	3E-08	0E+00	0E+00	8E-06	3E-08
Manganese	Long Lake	3E-08	0E+00	0E+00	8E-06	3E-08
Mercury (elemental)	Mud Devils Lake				4E-06	
Mercury (elemental)	Thunder Bay River				4E-06	
Mercury (elemental)	Long Lake				4E-06	
Mercury (divalent)	Mud Devils Lake	2E-05		0E+00		2E-05
Mercury (divalent)	Thunder Bay River	2E-05		0E+00		2E-05
Mercury (divalent)	Long Lake	2E-05		0E+00		2E-05
Nickel	Mud Devils Lake	9E-09	1E-08	0E+00		2E-08
Nickel	Thunder Bay River	9E-09	6E-10	0E+00		1E-08
Nickel	Long Lake	9E-09	1E-08	0E+00		2E-08
Silver	Mud Devils Lake	1E-09	0E+00	0E+00		1E-09
Silver	Thunder Bay River	1E-09	0E+00	0E+00		1E-09
Silver	Long Lake	1E-09	0E+00	0E+00		1E-09
Thallium	Mud Devils Lake	3E-05	1E-03	0E+00		1E-03
Thallium	Thunder Bay River	3E-05	5E-05	0E+00		9E-05
Thallium	Long Lake	3E-05	1E-03	0E+00		1E-03
Antimony	Mud Devils Lake	2E-06	0E+00	0E+00		2E-06
Antimony	Thunder Bay River	2E-06	0E+00	0E+00		2E-06
Antimony	Long Lake	2E-06	0E+00	0E+00		2E-06
Arsenic	Mud Devils Lake	3E-07	1E-06	0E+00		2E-06
Arsenic	Thunder Bay River	3E-07	6E-08	0E+00		4E-07
Arsenic	Long Lake	3E-07	1E-06	0E+00		2E-06
Barium	Mud Devils Lake	5E-07	0E+00	0E+00	1E-06	5E-07
Barium	Thunder Bay River	5E-07	0E+00	0E+00	1E-06	5E-07
Barium	Long Lake	5E-07	0E+00	0E+00	1E-06	5E-07
Beryllium	Mud Devils Lake	5E-07	3E-07	0E+00		8E-07
Beryllium	Thunder Bay River	5E-07	1E-08	0E+00		5E-07
Beryllium	Long Lake	5E-07	3E-07	0E+00		8E-07

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mud Devils Lake	1E-06	7E-05	0E+00		7E-05
Cadmium	Thunder Bay River	1E-06	4E-06	0E+00		5E-06
Cadmium	Long Lake	1E-06	7E-05	0E+00		8E-05
Chromium VI	Mud Devils Lake	7E-09	7E-09	0E+00		1E-08
Chromium VI	Thunder Bay River	7E-09	4E-10	0E+00		7E-09
Chromium VI	Long Lake	7E-09	7E-09	0E+00		1E-08
Chromium III	Mud Devils Lake	1E-08	4E-11	0E+00		1E-08
Chromium III	Thunder Bay River	1E-08	9E-12	0E+00		1E-08
Chromium III	Long Lake	1E-08	3E-11	0E+00		1E-08
Cobalt	Mud Devils Lake	7E-08	0E+00	0E+00		7E-08
Cobalt	Thunder Bay River	7E-08	0E+00	0E+00		7E-08
Cobalt	Long Lake	7E-08	0E+00	0E+00		7E-08
Hydrogen Chloride	Mud Devils Lake				6E-04	
Hydrogen Chloride	Thunder Bay River				6E-04	
Hydrogen Chloride	Long Lake				6E-04	
Selenium	Mud Devils Lake	1E-07	9E-04	0E+00		9E-04
Selenium	Thunder Bay River	1E-07	5E-05	0E+00		5E-05
Selenium	Long Lake	1E-07	1E-03	0E+00		1E-03
Chlorine	Mud Devils Lake				9E-04	
Chlorine	Thunder Bay River				9E-04	
Chlorine	Long Lake				9E-04	
Methylmercury - Developmental Effects	Mud Devils Lake	1E-06	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	Thunder Bay River	1E-06	5E-03	0E+00		5E-03
Methylmercury - Developmental Effects	Long Lake	1E-06	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Mud Devils Lake	4E-07	4E-02	0E+00		4E-02
Methylmercury - Neurological Effects	Thunder Bay River	4E-07	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Long Lake	4E-07	6E-03	0E+00		6E-03

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mud Devils Lake	3E-10	7E-08	0E+00	4E-12	7E-08
2,3,7,8-TCDD-TEQ	Thunder Bay River	3E-10	1E-08	0E+00	4E-12	1E-08
2,3,7,8-TCDD-TEQ	Long Lake	3E-10	2E-08	0E+00	4E-12	2E-08
Nickel	Mud Devils Lake				1E-12	
Nickel	Thunder Bay River				1E-12	
Nickel	Long Lake				1E-12	
Arsenic	Mud Devils Lake	9E-12	5E-11	0E+00	9E-12	6E-11
Arsenic	Thunder Bay River	9E-12	3E-12	0E+00	9E-12	1E-11
Arsenic	Long Lake	9E-12	5E-11	0E+00	9E-12	6E-11
Beryllium	Mud Devils Lake				4E-12	
Beryllium	Thunder Bay River				4E-12	
Beryllium	Long Lake				4E-12	
Cadmium	Mud Devils Lake				1E-11	
Cadmium	Thunder Bay River				1E-11	
Cadmium	Long Lake				1E-11	
Chromium VI	Mud Devils Lake				1E-11	
Chromium VI	Thunder Bay River				1E-11	
Chromium VI	Long Lake				1E-11	
	Noncarcinogenic Chemicals					
Manganese	Mud Devils Lake	2E-08	0E+00	0E+00	8E-06	2E-08
Manganese	Thunder Bay River	2E-08	0E+00	0E+00	8E-06	2E-08
Manganese	Long Lake	2E-08	0E+00	0E+00	8E-06	2E-08
Mercury (elemental)	Mud Devils Lake				4E-06	
Mercury (elemental)	Thunder Bay River				4E-06	
Mercury (elemental)	Long Lake				4E-06	
Mercury (divalent)	Mud Devils Lake	1E-05		0E+00		1E-05
Mercury (divalent)	Thunder Bay River	1E-05		0E+00		1E-05
Mercury (divalent)	Long Lake	1E-05		0E+00		1E-05
Nickel	Mud Devils Lake	5E-09	8E-09	0E+00		1E-08
Nickel	Thunder Bay River	5E-09	4E-10	0E+00		5E-09
Nickel	Long Lake	5E-09	9E-09	0E+00		1E-08
Silver	Mud Devils Lake	7E-10	0E+00	0E+00		7E-10
Silver	Thunder Bay River	7E-10	0E+00	0E+00		7E-10
Silver	Long Lake	7E-10	0E+00	0E+00		7E-10
Thallium	Mud Devils Lake	2E-05	7E-04	0E+00		8E-04
Thallium	Thunder Bay River	2E-05	4E-05	0E+00		6E-05
Thallium	Long Lake	2E-05	8E-04	0E+00		8E-04
Antimony	Mud Devils Lake	1E-06	0E+00	0E+00		1E-06
Antimony	Thunder Bay River	1E-06	0E+00	0E+00		1E-06
Antimony	Long Lake	1E-06	0E+00	0E+00		1E-06
Arsenic	Mud Devils Lake	2E-07	9E-07	0E+00		1E-06
Arsenic	Thunder Bay River	2E-07	5E-08	0E+00		2E-07
Arsenic	Long Lake	2E-07	9E-07	0E+00		1E-06
Barium	Mud Devils Lake	3E-07	0E+00	0E+00	1E-06	3E-07
Barium	Thunder Bay River	3E-07	0E+00	0E+00	1E-06	3E-07
Barium	Long Lake	3E-07	0E+00	0E+00	1E-06	3E-07
Beryllium	Mud Devils Lake	2E-07	2E-07	0E+00		5E-07
Beryllium	Thunder Bay River	2E-07	1E-08	0E+00		3E-07
Beryllium	Long Lake	2E-07	2E-07	0E+00		5E-07

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mud Devils Lake	7E-07	5E-05	0E+00		5E-05
Cadmium	Thunder Bay River	7E-07	3E-06	0E+00		3E-06
Cadmium	Long Lake	7E-07	5E-05	0E+00		5E-05
Chromium VI	Mud Devils Lake	3E-09	5E-09	0E+00		8E-09
Chromium VI	Thunder Bay River	3E-09	3E-10	0E+00		4E-09
Chromium VI	Long Lake	3E-09	5E-09	0E+00		8E-09
Chromium III	Mud Devils Lake	6E-09	3E-11	0E+00		6E-09
Chromium III	Thunder Bay River	6E-09	6E-12	0E+00		6E-09
Chromium III	Long Lake	6E-09	2E-11	0E+00		6E-09
Cobalt	Mud Devils Lake	4E-08	0E+00	0E+00		4E-08
Cobalt	Thunder Bay River	4E-08	0E+00	0E+00		4E-08
Cobalt	Long Lake	4E-08	0E+00	0E+00		4E-08
Hydrogen Chloride	Mud Devils Lake				6E-04	
Hydrogen Chloride	Thunder Bay River				6E-04	
Hydrogen Chloride	Long Lake				6E-04	
Selenium	Mud Devils Lake	6E-08	7E-04	0E+00		7E-04
Selenium	Thunder Bay River	6E-08	3E-05	0E+00		3E-05
Selenium	Long Lake	6E-08	7E-04	0E+00		7E-04
Chlorine	Mud Devils Lake				9E-04	
Chlorine	Thunder Bay River				9E-04	
Chlorine	Long Lake				9E-04	
Methylmercury - Developmental Effects	Mud Devils Lake	7E-07	8E-02	0E+00		8E-02
Methylmercury - Developmental Effects	Thunder Bay River	7E-07	4E-03	0E+00		4E-03
Methylmercury - Developmental Effects	Long Lake	7E-07	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Mud Devils Lake	2E-07	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Thunder Bay River	2E-07	1E-03	0E+00		1E-03
Methylmercury - Neurological Effects	Long Lake	2E-07	4E-03	0E+00		4E-03

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mud Devils Lake	2E-10	1E-07	0E+00	6E-12	1E-07
2,3,7,8-TCDD-TEQ	Thunder Bay River	2E-10	2E-08	0E+00	6E-12	2E-08
2,3,7,8-TCDD-TEQ	Long Lake	2E-10	3E-08	0E+00	6E-12	3E-08
Nickel	Mud Devils Lake				2E-12	
Nickel	Thunder Bay River				2E-12	
Nickel	Long Lake				2E-12	
Arsenic	Mud Devils Lake	7E-12	9E-11	0E+00	1E-11	1E-10
Arsenic	Thunder Bay River	7E-12	5E-12	0E+00	1E-11	1E-11
Arsenic	Long Lake	7E-12	1E-10	0E+00	1E-11	1E-10
Beryllium	Mud Devils Lake				5E-12	
Beryllium	Thunder Bay River				5E-12	
Beryllium	Long Lake				5E-12	
Cadmium	Mud Devils Lake				2E-11	
Cadmium	Thunder Bay River				2E-11	
Cadmium	Long Lake				2E-11	
Chromium VI	Mud Devils Lake				2E-11	
Chromium VI	Thunder Bay River				2E-11	
Chromium VI	Long Lake				2E-11	
	Noncarcinogenic Chemicals					
Manganese	Mud Devils Lake	6E-09	0E+00	0E+00	8E-06	6E-09
Manganese	Thunder Bay River	6E-09	0E+00	0E+00	8E-06	6E-09
Manganese	Long Lake	6E-09	0E+00	0E+00	8E-06	6E-09
Mercury (elemental)	Mud Devils Lake				4E-06	
Mercury (elemental)	Thunder Bay River				4E-06	
Mercury (elemental)	Long Lake				4E-06	
Mercury (divalent)	Mud Devils Lake	4E-06		0E+00		4E-06
Mercury (divalent)	Thunder Bay River	4E-06		0E+00		4E-06
Mercury (divalent)	Long Lake	4E-06		0E+00		4E-06
Nickel	Mud Devils Lake	2E-09	8E-09	0E+00		1E-08
Nickel	Thunder Bay River	2E-09	4E-10	0E+00		2E-09
Nickel	Long Lake	2E-09	9E-09	0E+00		1E-08
Silver	Mud Devils Lake	3E-10	0E+00	0E+00		3E-10
Silver	Thunder Bay River	3E-10	0E+00	0E+00		3E-10
Silver	Long Lake	3E-10	0E+00	0E+00		3E-10
Thallium	Mud Devils Lake	7E-06	7E-04	0E+00		7E-04
Thallium	Thunder Bay River	7E-06	4E-05	0E+00		5E-05
Thallium	Long Lake	7E-06	8E-04	0E+00		8E-04
Antimony	Mud Devils Lake	5E-07	0E+00	0E+00		5E-07
Antimony	Thunder Bay River	5E-07	0E+00	0E+00		5E-07
Antimony	Long Lake	5E-07	0E+00	0E+00		5E-07
Arsenic	Mud Devils Lake	7E-08	9E-07	0E+00		9E-07
Arsenic	Thunder Bay River	7E-08	5E-08	0E+00		1E-07
Arsenic	Long Lake	7E-08	9E-07	0E+00		1E-06
Barium	Mud Devils Lake	1E-07	0E+00	0E+00	1E-06	1E-07
Barium	Thunder Bay River	1E-07	0E+00	0E+00	1E-06	1E-07
Barium	Long Lake	1E-07	0E+00	0E+00	1E-06	1E-07
Beryllium	Mud Devils Lake	1E-07	2E-07	0E+00		3E-07
Beryllium	Thunder Bay River	1E-07	1E-08	0E+00		1E-07
Beryllium	Long Lake	1E-07	2E-07	0E+00		3E-07

Table IX-B12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 320) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mud Devils Lake	3E-07	5E-05	0E+00		5E-05
Cadmium	Thunder Bay River	3E-07	3E-06	0E+00		3E-06
Cadmium	Long Lake	3E-07	5E-05	0E+00		5E-05
Chromium VI	Mud Devils Lake	1E-09	5E-09	0E+00		6E-09
Chromium VI	Thunder Bay River	1E-09	3E-10	0E+00		2E-09
Chromium VI	Long Lake	1E-09	5E-09	0E+00		6E-09
Chromium III	Mud Devils Lake	2E-09	3E-11	0E+00		3E-09
Chromium III	Thunder Bay River	2E-09	6E-12	0E+00		2E-09
Chromium III	Long Lake	2E-09	2E-11	0E+00		2E-09
Cobalt	Mud Devils Lake	1E-08	0E+00	0E+00		1E-08
Cobalt	Thunder Bay River	1E-08	0E+00	0E+00		1E-08
Cobalt	Long Lake	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Mud Devils Lake				6E-04	
Hydrogen Chloride	Thunder Bay River				6E-04	
Hydrogen Chloride	Long Lake				6E-04	
Selenium	Mud Devils Lake	2E-08	7E-04	0E+00		7E-04
Selenium	Thunder Bay River	2E-08	3E-05	0E+00		3E-05
Selenium	Long Lake	2E-08	7E-04	0E+00		7E-04
Chlorine	Mud Devils Lake				9E-04	
Chlorine	Thunder Bay River				9E-04	
Chlorine	Long Lake				9E-04	
Methylmercury - Developmental Effects	Mud Devils Lake	3E-07	8E-02	0E+00		8E-02
Methylmercury - Developmental Effects	Thunder Bay River	3E-07	4E-03	0E+00		4E-03
Methylmercury - Developmental Effects	Long Lake	3E-07	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Mud Devils Lake	9E-08	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Thunder Bay River	9E-08	1E-03	0E+00		1E-03
Methylmercury - Neurological Effects	Long Lake	9E-08	4E-03	0E+00		4E-03

Table IX-B13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	3E-11	7E-11	7E-11	1E-08	1E-07	3E-09	3E-08	2E-08	2E-08		3E-11	2E-07
Nickel												6E-11	
Arsenic	6E-11	2E-11	1E-11	4E-11	7E-11	1E-10	8E-12			3E-10		1E-10	7E-10
Beryllium												2E-11	
Cadmium												4E-11	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	1E-08	4E-08	5E-09	2E-07	4E-10			0E+00		7E-06	3E-07
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	2E-04	2E-03	4E-04	9E-03	7E-02	4E-05						8E-02
Nickel	2E-07	8E-08	3E-08	2E-07	2E-06	2E-05	1E-07			3E-07			2E-05
Silver	6E-09	7E-08	2E-08	2E-07	1E-06	4E-04	4E-08			0E+00			4E-04
Thallium	2E-05	2E-06	1E-07	4E-06	4E-04	1E-03	5E-05			8E-04			3E-03
Antimony	3E-06	9E-06	3E-06	2E-05	2E-05	1E-04	9E-07			0E+00			2E-04
Arsenic	2E-06	6E-07	3E-07	1E-06	2E-06	3E-06	2E-07			9E-06			2E-05
Barium	3E-06	3E-07	7E-08	5E-07	1E-07	2E-05	2E-08			0E+00		6E-06	2E-05
Beryllium	2E-06	3E-08	6E-09	6E-08	3E-07	1E-08	1E-07			1E-07			3E-06
Cadmium	2E-06	2E-06	1E-06	4E-06	2E-07	6E-07	3E-08			9E-05			1E-04
Chromium VI	2E-07	6E-08	3E-08	2E-07	2E-06	3E-05	1E-07			3E-07			3E-05
Chromium III	5E-08	5E-10	4E-10	1E-09	4E-08	4E-07	1E-08			4E-12			5E-07
Cobalt	2E-07	3E-08	2E-10	8E-08	2E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												2E-05	
Selenium	9E-08	4E-08	6E-08	1E-07	7E-07	6E-05	3E-06			1E-03			1E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	9E-04	2E-05	2E-04	4E-05	6E-04	5E-03	2E-06			2E-01			2E-01
Methylmercury - Neurological Effects	3E-04	8E-06	8E-05	1E-05	2E-04	2E-03	7E-07			7E-02			7E-02

Table IX-B13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	2E-11	7E-11	9E-11	2E-08	8E-08	3E-09	3E-08	2E-08	2E-08		3E-11	2E-07
Nickel												7E-11	
Arsenic	2E-11	2E-11	1E-11	6E-11	1E-10	8E-11	6E-12			4E-10		1E-10	7E-10
Beryllium												3E-11	
Cadmium												5E-11	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	1E-08	7E-09	4E-08	6E-09	1E-07	3E-10			0E+00		7E-06	2E-07
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	9E-05	1E-03	4E-04	1E-02	3E-02	2E-05						5E-02
Nickel	4E-08	4E-08	2E-08	2E-07	2E-06	8E-06	6E-08			2E-07			1E-05
Silver	1E-09	4E-08	1E-08	2E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	5E-06	9E-07	8E-08	4E-06	5E-04	6E-04	3E-05			6E-04			2E-03
Antimony	8E-07	5E-06	2E-06	2E-05	2E-05	6E-05	5E-07			0E+00			1E-04
Arsenic	4E-07	3E-07	2E-07	1E-06	2E-06	2E-06	1E-07			6E-06			1E-05
Barium	7E-07	2E-07	5E-08	5E-07	2E-07	8E-06	1E-08			0E+00		6E-06	1E-05
Beryllium	6E-07	1E-08	4E-09	6E-08	3E-07	6E-09	6E-08			8E-08			1E-06
Cadmium	5E-07	1E-06	7E-07	4E-06	2E-07	3E-07	2E-08			7E-05			7E-05
Chromium VI	5E-08	3E-08	2E-08	1E-07	2E-06	2E-05	7E-08			2E-07			2E-05
Chromium III	1E-08	3E-10	3E-10	1E-09	4E-08	2E-07	8E-09			3E-12			3E-07
Cobalt	4E-08	2E-08	1E-10	8E-08	3E-06	7E-06	1E-07			0E+00			1E-05
Hydrogen Chloride												2E-05	
Selenium	2E-08	2E-08	4E-08	1E-07	8E-07	3E-05	2E-06			9E-04			9E-04
Chlorine												9E-05	
Methylmercury - Developmental Effects	2E-04	1E-05	2E-04	4E-05	7E-04	2E-03	1E-06			1E-01			2E-01
Methylmercury - Neurological Effects	8E-05	4E-06	5E-05	1E-05	2E-04	8E-04	4E-07			5E-02			5E-02

Table IX-B13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	2E-11	5E-11	5E-11	1E-08	4E-08	2E-09	2E-08	1E-08	1E-08		2E-11	9E-08
Nickel												4E-11	
Arsenic	1E-11	1E-11	8E-12	3E-11	5E-11	4E-11	4E-12			2E-10		8E-11	4E-10
Beryllium												2E-11	
Cadmium												3E-11	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-09	8E-09	5E-09	2E-08	3E-09	6E-08	2E-10			0E+00		7E-06	9E-08
Mercury (elemental)												2E-05	
Mercury (divalent)	2E-03	7E-05	9E-04	2E-04	5E-03	2E-02	1E-05			0E+00			2E-02
Nickel	2E-08	3E-08	2E-08	9E-08	9E-07	4E-06	4E-08			1E-07			5E-06
Silver	8E-10	3E-08	9E-09	9E-08	5E-07	9E-05	1E-08			0E+00			9E-05
Thallium	3E-06	7E-07	6E-08	2E-06	2E-04	3E-04	2E-05			3E-04			9E-04
Antimony	4E-07	4E-06	2E-06	1E-05	1E-05	3E-05	3E-07			0E+00			5E-05
Arsenic	2E-07	2E-07	1E-07	6E-07	1E-06	7E-07	8E-08			3E-06			6E-06
Barium	4E-07	1E-07	4E-08	3E-07	7E-08	4E-06	8E-09			0E+00		6E-06	5E-06
Beryllium	3E-07	1E-08	3E-09	3E-08	2E-07	3E-09	4E-08			4E-08			6E-07
Cadmium	2E-07	9E-07	5E-07	2E-06	9E-08	1E-07	1E-08			4E-05			4E-05
Chromium VI	3E-08	2E-08	1E-08	8E-08	1E-06	7E-06	5E-08			1E-07			9E-06
Chromium III	7E-09	2E-10	2E-10	6E-10	2E-08	1E-07	5E-09			1E-12			1E-07
Cobalt	2E-08	1E-08	1E-10	4E-08	1E-06	3E-06	9E-08			0E+00			5E-06
Hydrogen Chloride												2E-05	
Selenium	1E-08	2E-08	3E-08	6E-08	4E-07	1E-05	1E-06			5E-04			5E-04
Chlorine												9E-05	
Methylmercury - Developmental Effects	1E-04	1E-05	1E-04	2E-05	3E-04	1E-03	8E-07			8E-02			8E-02
Methylmercury - Neurological Effects	4E-05	3E-06	4E-05	7E-06	1E-04	4E-04	3E-07			3E-02			3E-02

Table IX-B13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	4E-11	9E-11	8E-11	2E-08	3E-08	3E-09	3E-08	2E-08	2E-08		3E-11	1E-07
Nickel												6E-11	
Arsenic	9E-12	3E-11	1E-11	5E-11	1E-10	3E-11	7E-12			4E-10		1E-10	7E-10
Beryllium												3E-11	
Cadmium												5E-11	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	7E-10	1E-08	6E-09	2E-08	3E-09	2E-08	1E-10			0E+00		7E-06	6E-08
Mercury (elemental)												2E-05	
Mercury (divalent)	8E-04	9E-05	1E-03	2E-04	5E-03	7E-03	1E-05			0E+00			1E-02
Nickel	9E-09	5E-08	2E-08	9E-08	1E-06	2E-06	3E-08			1E-07			3E-06
Silver	3E-10	4E-08	1E-08	8E-08	6E-07	4E-05	1E-08			0E+00			4E-05
Thallium	1E-06	9E-07	7E-08	2E-06	3E-04	1E-04	2E-05			3E-04			8E-04
Antimony	2E-07	5E-06	2E-06	1E-05	1E-05	1E-05	3E-07			0E+00			4E-05
Arsenic	9E-08	3E-07	2E-07	5E-07	1E-06	3E-07	7E-08			4E-06			6E-06
Barium	2E-07	2E-07	4E-08	3E-07	8E-08	2E-06	7E-09			0E+00		6E-06	2E-06
Beryllium	1E-07	2E-08	3E-09	3E-08	2E-07	1E-09	4E-08			5E-08			4E-07
Cadmium	1E-07	1E-06	6E-07	2E-06	1E-07	6E-08	1E-08			4E-05			4E-05
Chromium VI	1E-08	3E-08	1E-08	7E-08	1E-06	3E-06	4E-08			1E-07			5E-06
Chromium III	3E-09	3E-10	2E-10	6E-10	2E-08	4E-08	5E-09			2E-12			7E-08
Cobalt	9E-09	2E-08	1E-10	4E-08	2E-06	1E-06	7E-08			0E+00			3E-06
Hydrogen Chloride												2E-05	
Selenium	5E-09	2E-08	4E-08	5E-08	4E-07	6E-06	1E-06			5E-04			5E-04
Chlorine												9E-05	
Methylmercury - Developmental Effects	5E-05	1E-05	1E-04	2E-05	3E-04	5E-04	7E-07			9E-02			9E-02
Methylmercury - Neurological Effects	2E-05	4E-06	4E-05	6E-06	1E-04	2E-04	2E-07			3E-02			3E-02

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Black Warrior River (most inclusive data)	2E-09	2E-09	0E+00	3E-11	4E-09
2,3,7,8-TCDD-TEQ	Powell Creek	2E-09	9E-09	0E+00	3E-11	1E-08
2,3,7,8-TCDD-TEQ	Lake Demopolis	2E-09	1E-07	0E+00	3E-11	1E-07
2,3,7,8-TCDD-TEQ	Lake Henry	2E-09	2E-08	0E+00	3E-11	2E-08
Nickel	Black Warrior River (most inclusive data)				6E-11	
Nickel	Powell Creek				6E-11	
Nickel	Lake Demopolis				6E-11	
Nickel	Lake Henry				6E-11	
Arsenic	Black Warrior River (most inclusive data)	6E-11	9E-13	0E+00	1E-10	6E-11
Arsenic	Powell Creek	6E-11	3E-12	0E+00	1E-10	6E-11
Arsenic	Lake Demopolis	6E-11	8E-11	0E+00	1E-10	1E-10
Arsenic	Lake Henry	6E-11	4E-11	0E+00	1E-10	1E-10
Beryllium	Black Warrior River (most inclusive data)				2E-11	
Beryllium	Powell Creek				2E-11	
Beryllium	Lake Demopolis				2E-11	
Beryllium	Lake Henry				2E-11	
Cadmium	Black Warrior River (most inclusive data)				4E-11	
Cadmium	Powell Creek				4E-11	
Cadmium	Lake Demopolis				4E-11	
Cadmium	Lake Henry				4E-11	
Chromium VI	Black Warrior River (most inclusive data)				1E-09	
Chromium VI	Powell Creek				1E-09	
Chromium VI	Lake Demopolis				1E-09	
Chromium VI	Lake Henry				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Black Warrior River (most inclusive data)	1E-08	0E+00	0E+00	7E-06	1E-08
Manganese	Powell Creek	1E-08	0E+00	0E+00	7E-06	1E-08
Manganese	Lake Demopolis	1E-08	0E+00	0E+00	7E-06	1E-08
Manganese	Lake Henry	1E-08	0E+00	0E+00	7E-06	1E-08
Mercury (elemental)	Black Warrior River (most inclusive data)				2E-05	
Mercury (elemental)	Powell Creek				2E-05	
Mercury (elemental)	Lake Demopolis				2E-05	
Mercury (elemental)	Lake Henry				2E-05	
Mercury (divalent)	Black Warrior River (most inclusive data)	2E-02		0E+00		2E-02
Mercury (divalent)	Powell Creek	2E-02		0E+00		2E-02
Mercury (divalent)	Lake Demopolis	2E-02		0E+00		2E-02
Mercury (divalent)	Lake Henry	2E-02		0E+00		2E-02
Nickel	Black Warrior River (most inclusive data)	2E-07	7E-10	0E+00		2E-07
Nickel	Powell Creek	2E-07	2E-09	0E+00		2E-07
Nickel	Lake Demopolis	2E-07	7E-08	0E+00		2E-07
Nickel	Lake Henry	2E-07	3E-08	0E+00		2E-07
Silver	Black Warrior River (most inclusive data)	6E-09	0E+00	0E+00		6E-09
Silver	Powell Creek	6E-09	0E+00	0E+00		6E-09
Silver	Lake Demopolis	6E-09	0E+00	0E+00		6E-09
Silver	Lake Henry	6E-09	0E+00	0E+00		6E-09
Thallium	Black Warrior River (most inclusive data)	2E-05	2E-06	0E+00		2E-05
Thallium	Powell Creek	2E-05	8E-06	0E+00		3E-05
Thallium	Lake Demopolis	2E-05	2E-04	0E+00		2E-04
Thallium	Lake Henry	2E-05	1E-04	0E+00		1E-04

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Black Warrior River (most inclusive data)	3E-06	0E+00	0E+00		3E-06
Antimony	Powell Creek	3E-06	0E+00	0E+00		3E-06
Antimony	Lake Demopolis	3E-06	0E+00	0E+00		3E-06
Antimony	Lake Henry	3E-06	0E+00	0E+00		3E-06
Arsenic	Black Warrior River (most inclusive data)	2E-06	2E-08	0E+00		2E-06
Arsenic	Powell Creek	2E-06	7E-08	0E+00		2E-06
Arsenic	Lake Demopolis	2E-06	2E-06	0E+00		4E-06
Arsenic	Lake Henry	2E-06	1E-06	0E+00		3E-06
Barium	Black Warrior River (most inclusive data)	3E-06	0E+00	0E+00	6E-06	3E-06
Barium	Powell Creek	3E-06	0E+00	0E+00	6E-06	3E-06
Barium	Lake Demopolis	3E-06	0E+00	0E+00	6E-06	3E-06
Barium	Lake Henry	3E-06	0E+00	0E+00	6E-06	3E-06
Beryllium	Black Warrior River (most inclusive data)	2E-06	3E-09	0E+00		2E-06
Beryllium	Powell Creek	2E-06	2E-08	0E+00		2E-06
Beryllium	Lake Demopolis	2E-06	3E-07	0E+00		3E-06
Beryllium	Lake Henry	2E-06	9E-08	0E+00		2E-06
Cadmium	Black Warrior River (most inclusive data)	2E-06	3E-07	0E+00		2E-06
Cadmium	Powell Creek	2E-06	1E-06	0E+00		3E-06
Cadmium	Lake Demopolis	2E-06	3E-05	0E+00		3E-05
Cadmium	Lake Henry	2E-06	2E-05	0E+00		2E-05
Chromium VI	Black Warrior River (most inclusive data)	2E-07	8E-10	0E+00		2E-07
Chromium VI	Powell Creek	2E-07	2E-09	0E+00		2E-07
Chromium VI	Lake Demopolis	2E-07	7E-08	0E+00		3E-07
Chromium VI	Lake Henry	2E-07	4E-08	0E+00		2E-07
Chromium III	Black Warrior River (most inclusive data)	5E-08	1E-12	0E+00		5E-08
Chromium III	Powell Creek	5E-08	8E-12	0E+00		5E-08
Chromium III	Lake Demopolis	5E-08	2E-11	0E+00		5E-08
Chromium III	Lake Henry	5E-08	2E-12	0E+00		5E-08
Cobalt	Black Warrior River (most inclusive data)	2E-07	0E+00	0E+00		2E-07
Cobalt	Powell Creek	2E-07	0E+00	0E+00		2E-07
Cobalt	Lake Demopolis	2E-07	0E+00	0E+00		2E-07
Cobalt	Lake Henry	2E-07	0E+00	0E+00		2E-07
Hydrogen Chloride	Black Warrior River (most inclusive data)				2E-05	
Hydrogen Chloride	Powell Creek				2E-05	
Hydrogen Chloride	Lake Demopolis				2E-05	
Hydrogen Chloride	Lake Henry				2E-05	
Selenium	Black Warrior River (most inclusive data)	9E-08	3E-06	0E+00		3E-06
Selenium	Powell Creek	9E-08	8E-06	0E+00		9E-06
Selenium	Lake Demopolis	9E-08	2E-04	0E+00		2E-04
Selenium	Lake Henry	9E-08	1E-04	0E+00		1E-04
Chlorine	Black Warrior River (most inclusive data)				9E-05	
Chlorine	Powell Creek				9E-05	
Chlorine	Lake Demopolis				9E-05	
Chlorine	Lake Henry				9E-05	
Methylmercury - Developmental Effects	Black Warrior River (most inclusive data)	9E-04	9E-02	0E+00		9E-02
Methylmercury - Developmental Effects	Powell Creek	9E-04	4E-01	0E+00		4E-01
Methylmercury - Developmental Effects	Lake Demopolis	9E-04	1E+00	0E+00		1E+00
Methylmercury - Developmental Effects	Lake Henry	9E-04	5E-01	0E+00		5E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Black Warrior River (most inclusive data)	3E-04	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Powell Creek	3E-04	1E-01	0E+00		1E-01
Methylmercury - Neurological Effects	Lake Demopolis	3E-04	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Lake Henry	3E-04	2E-01	0E+00		2E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Black Warrior River (most inclusive data)	6E-10	2E-09	0E+00	3E-11	3E-09
2,3,7,8-TCDD-TEQ	Powell Creek	6E-10	1E-08	0E+00	3E-11	1E-08
2,3,7,8-TCDD-TEQ	Lake Demopolis	6E-10	1E-07	0E+00	3E-11	1E-07
2,3,7,8-TCDD-TEQ	Lake Henry	6E-10	2E-08	0E+00	3E-11	2E-08
Nickel	Black Warrior River (most inclusive data)				7E-11	
Nickel	Powell Creek				7E-11	
Nickel	Lake Demopolis				7E-11	
Nickel	Lake Henry				7E-11	
Arsenic	Black Warrior River (most inclusive data)	2E-11	1E-12	0E+00	1E-10	2E-11
Arsenic	Powell Creek	2E-11	4E-12	0E+00	1E-10	3E-11
Arsenic	Lake Demopolis	2E-11	1E-10	0E+00	1E-10	1E-10
Arsenic	Lake Henry	2E-11	6E-11	0E+00	1E-10	8E-11
Beryllium	Black Warrior River (most inclusive data)				3E-11	
Beryllium	Powell Creek				3E-11	
Beryllium	Lake Demopolis				3E-11	
Beryllium	Lake Henry				3E-11	
Cadmium	Black Warrior River (most inclusive data)				5E-11	
Cadmium	Powell Creek				5E-11	
Cadmium	Lake Demopolis				5E-11	
Cadmium	Lake Henry				5E-11	
Chromium VI	Black Warrior River (most inclusive data)				1E-09	
Chromium VI	Powell Creek				1E-09	
Chromium VI	Lake Demopolis				1E-09	
Chromium VI	Lake Henry				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Black Warrior River (most inclusive data)	3E-09	0E+00	0E+00	7E-06	3E-09
Manganese	Powell Creek	3E-09	0E+00	0E+00	7E-06	3E-09
Manganese	Lake Demopolis	3E-09	0E+00	0E+00	7E-06	3E-09
Manganese	Lake Henry	3E-09	0E+00	0E+00	7E-06	3E-09
Mercury (elemental)	Black Warrior River (most inclusive data)				2E-05	
Mercury (elemental)	Powell Creek				2E-05	
Mercury (elemental)	Lake Demopolis				2E-05	
Mercury (elemental)	Lake Henry				2E-05	
Mercury (divalent)	Black Warrior River (most inclusive data)	4E-03		0E+00		4E-03
Mercury (divalent)	Powell Creek	4E-03		0E+00		4E-03
Mercury (divalent)	Lake Demopolis	4E-03		0E+00		4E-03
Mercury (divalent)	Lake Henry	4E-03		0E+00		4E-03
Nickel	Black Warrior River (most inclusive data)	4E-08	7E-10	0E+00		4E-08
Nickel	Powell Creek	4E-08	2E-09	0E+00		4E-08
Nickel	Lake Demopolis	4E-08	7E-08	0E+00		1E-07
Nickel	Lake Henry	4E-08	3E-08	0E+00		7E-08
Silver	Black Warrior River (most inclusive data)	1E-09	0E+00	0E+00		1E-09
Silver	Powell Creek	1E-09	0E+00	0E+00		1E-09
Silver	Lake Demopolis	1E-09	0E+00	0E+00		1E-09
Silver	Lake Henry	1E-09	0E+00	0E+00		1E-09
Thallium	Black Warrior River (most inclusive data)	5E-06	2E-06	0E+00		8E-06
Thallium	Powell Creek	5E-06	8E-06	0E+00		1E-05
Thallium	Lake Demopolis	5E-06	2E-04	0E+00		2E-04
Thallium	Lake Henry	5E-06	1E-04	0E+00		1E-04

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Black Warrior River (most inclusive data)	8E-07	0E+00	0E+00		8E-07
Antimony	Powell Creek	8E-07	0E+00	0E+00		8E-07
Antimony	Lake Demopolis	8E-07	0E+00	0E+00		8E-07
Antimony	Lake Henry	8E-07	0E+00	0E+00		8E-07
Arsenic	Black Warrior River (most inclusive data)	4E-07	2E-08	0E+00		4E-07
Arsenic	Powell Creek	4E-07	7E-08	0E+00		5E-07
Arsenic	Lake Demopolis	4E-07	2E-06	0E+00		2E-06
Arsenic	Lake Henry	4E-07	1E-06	0E+00		1E-06
Barium	Black Warrior River (most inclusive data)	7E-07	0E+00	0E+00	6E-06	7E-07
Barium	Powell Creek	7E-07	0E+00	0E+00	6E-06	7E-07
Barium	Lake Demopolis	7E-07	0E+00	0E+00	6E-06	7E-07
Barium	Lake Henry	7E-07	0E+00	0E+00	6E-06	7E-07
Beryllium	Black Warrior River (most inclusive data)	6E-07	3E-09	0E+00		6E-07
Beryllium	Powell Creek	6E-07	2E-08	0E+00		6E-07
Beryllium	Lake Demopolis	6E-07	3E-07	0E+00		9E-07
Beryllium	Lake Henry	6E-07	9E-08	0E+00		7E-07
Cadmium	Black Warrior River (most inclusive data)	5E-07	3E-07	0E+00		8E-07
Cadmium	Powell Creek	5E-07	1E-06	0E+00		2E-06
Cadmium	Lake Demopolis	5E-07	3E-05	0E+00		3E-05
Cadmium	Lake Henry	5E-07	2E-05	0E+00		2E-05
Chromium VI	Black Warrior River (most inclusive data)	5E-08	8E-10	0E+00		5E-08
Chromium VI	Powell Creek	5E-08	2E-09	0E+00		6E-08
Chromium VI	Lake Demopolis	5E-08	7E-08	0E+00		1E-07
Chromium VI	Lake Henry	5E-08	4E-08	0E+00		9E-08
Chromium III	Black Warrior River (most inclusive data)	1E-08	1E-12	0E+00		1E-08
Chromium III	Powell Creek	1E-08	8E-12	0E+00		1E-08
Chromium III	Lake Demopolis	1E-08	2E-11	0E+00		1E-08
Chromium III	Lake Henry	1E-08	2E-12	0E+00		1E-08
Cobalt	Black Warrior River (most inclusive data)	4E-08	0E+00	0E+00		4E-08
Cobalt	Powell Creek	4E-08	0E+00	0E+00		4E-08
Cobalt	Lake Demopolis	4E-08	0E+00	0E+00		4E-08
Cobalt	Lake Henry	4E-08	0E+00	0E+00		4E-08
Hydrogen Chloride	Black Warrior River (most inclusive data)				2E-05	
Hydrogen Chloride	Powell Creek				2E-05	
Hydrogen Chloride	Lake Demopolis				2E-05	
Hydrogen Chloride	Lake Henry				2E-05	
Selenium	Black Warrior River (most inclusive data)	2E-08	3E-06	0E+00		3E-06
Selenium	Powell Creek	2E-08	8E-06	0E+00		8E-06
Selenium	Lake Demopolis	2E-08	2E-04	0E+00		2E-04
Selenium	Lake Henry	2E-08	1E-04	0E+00		1E-04
Chlorine	Black Warrior River (most inclusive data)				9E-05	
Chlorine	Powell Creek				9E-05	
Chlorine	Lake Demopolis				9E-05	
Chlorine	Lake Henry				9E-05	
Methylmercury - Developmental Effects	Black Warrior River (most inclusive data)	2E-04	9E-02	0E+00		9E-02
Methylmercury - Developmental Effects	Powell Creek	2E-04	4E-01	0E+00		4E-01
Methylmercury - Developmental Effects	Lake Demopolis	2E-04	1E+00	0E+00		1E+00
Methylmercury - Developmental Effects	Lake Henry	2E-04	5E-01	0E+00		5E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Black Warrior River (most inclusive data)	8E-05	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Powell Creek	8E-05	1E-01	0E+00		1E-01
Methylmercury - Neurological Effects	Lake Demopolis	8E-05	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Lake Henry	8E-05	2E-01	0E+00		2E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Black Warrior River (most inclusive data)	3E-10	2E-09	0E+00	2E-11	2E-09
2,3,7,8-TCDD-TEQ	Powell Creek	3E-10	9E-09	0E+00	2E-11	9E-09
2,3,7,8-TCDD-TEQ	Lake Demopolis	3E-10	1E-07	0E+00	2E-11	1E-07
2,3,7,8-TCDD-TEQ	Lake Henry	3E-10	2E-08	0E+00	2E-11	2E-08
Nickel	Black Warrior River (most inclusive data)				4E-11	
Nickel	Powell Creek				4E-11	
Nickel	Lake Demopolis				4E-11	
Nickel	Lake Henry				4E-11	
Arsenic	Black Warrior River (most inclusive data)	1E-11	9E-13	0E+00	8E-11	1E-11
Arsenic	Powell Creek	1E-11	3E-12	0E+00	8E-11	1E-11
Arsenic	Lake Demopolis	1E-11	8E-11	0E+00	8E-11	1E-10
Arsenic	Lake Henry	1E-11	4E-11	0E+00	8E-11	5E-11
Beryllium	Black Warrior River (most inclusive data)				2E-11	
Beryllium	Powell Creek				2E-11	
Beryllium	Lake Demopolis				2E-11	
Beryllium	Lake Henry				2E-11	
Cadmium	Black Warrior River (most inclusive data)				3E-11	
Cadmium	Powell Creek				3E-11	
Cadmium	Lake Demopolis				3E-11	
Cadmium	Lake Henry				3E-11	
Chromium VI	Black Warrior River (most inclusive data)				8E-10	
Chromium VI	Powell Creek				8E-10	
Chromium VI	Lake Demopolis				8E-10	
Chromium VI	Lake Henry				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Black Warrior River (most inclusive data)	2E-09	0E+00	0E+00	7E-06	2E-09
Manganese	Powell Creek	2E-09	0E+00	0E+00	7E-06	2E-09
Manganese	Lake Demopolis	2E-09	0E+00	0E+00	7E-06	2E-09
Manganese	Lake Henry	2E-09	0E+00	0E+00	7E-06	2E-09
Mercury (elemental)	Black Warrior River (most inclusive data)				2E-05	
Mercury (elemental)	Powell Creek				2E-05	
Mercury (elemental)	Lake Demopolis				2E-05	
Mercury (elemental)	Lake Henry				2E-05	
Mercury (divalent)	Black Warrior River (most inclusive data)	2E-03		0E+00		2E-03
Mercury (divalent)	Powell Creek	2E-03		0E+00		2E-03
Mercury (divalent)	Lake Demopolis	2E-03		0E+00		2E-03
Mercury (divalent)	Lake Henry	2E-03		0E+00		2E-03
Nickel	Black Warrior River (most inclusive data)	2E-08	5E-10	0E+00		2E-08
Nickel	Powell Creek	2E-08	2E-09	0E+00		2E-08
Nickel	Lake Demopolis	2E-08	5E-08	0E+00		7E-08
Nickel	Lake Henry	2E-08	2E-08	0E+00		5E-08
Silver	Black Warrior River (most inclusive data)	8E-10	0E+00	0E+00		8E-10
Silver	Powell Creek	8E-10	0E+00	0E+00		8E-10
Silver	Lake Demopolis	8E-10	0E+00	0E+00		8E-10
Silver	Lake Henry	8E-10	0E+00	0E+00		8E-10
Thallium	Black Warrior River (most inclusive data)	3E-06	2E-06	0E+00		5E-06
Thallium	Powell Creek	3E-06	6E-06	0E+00		8E-06
Thallium	Lake Demopolis	3E-06	2E-04	0E+00		2E-04
Thallium	Lake Henry	3E-06	8E-05	0E+00		8E-05

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Black Warrior River (most inclusive data)	4E-07	0E+00	0E+00		4E-07
Antimony	Powell Creek	4E-07	0E+00	0E+00		4E-07
Antimony	Lake Demopolis	4E-07	0E+00	0E+00		4E-07
Antimony	Lake Henry	4E-07	0E+00	0E+00		4E-07
Arsenic	Black Warrior River (most inclusive data)	2E-07	2E-08	0E+00		2E-07
Arsenic	Powell Creek	2E-07	5E-08	0E+00		3E-07
Arsenic	Lake Demopolis	2E-07	1E-06	0E+00		2E-06
Arsenic	Lake Henry	2E-07	7E-07	0E+00		9E-07
Barium	Black Warrior River (most inclusive data)	4E-07	0E+00	0E+00	6E-06	4E-07
Barium	Powell Creek	4E-07	0E+00	0E+00	6E-06	4E-07
Barium	Lake Demopolis	4E-07	0E+00	0E+00	6E-06	4E-07
Barium	Lake Henry	4E-07	0E+00	0E+00	6E-06	4E-07
Beryllium	Black Warrior River (most inclusive data)	3E-07	2E-09	0E+00		3E-07
Beryllium	Powell Creek	3E-07	1E-08	0E+00		3E-07
Beryllium	Lake Demopolis	3E-07	2E-07	0E+00		6E-07
Beryllium	Lake Henry	3E-07	6E-08	0E+00		4E-07
Cadmium	Black Warrior River (most inclusive data)	2E-07	2E-07	0E+00		5E-07
Cadmium	Powell Creek	2E-07	8E-07	0E+00		1E-06
Cadmium	Lake Demopolis	2E-07	2E-05	0E+00		2E-05
Cadmium	Lake Henry	2E-07	1E-05	0E+00		1E-05
Chromium VI	Black Warrior River (most inclusive data)	3E-08	6E-10	0E+00		3E-08
Chromium VI	Powell Creek	3E-08	2E-09	0E+00		3E-08
Chromium VI	Lake Demopolis	3E-08	5E-08	0E+00		8E-08
Chromium VI	Lake Henry	3E-08	3E-08	0E+00		5E-08
Chromium III	Black Warrior River (most inclusive data)	7E-09	9E-13	0E+00		7E-09
Chromium III	Powell Creek	7E-09	5E-12	0E+00		7E-09
Chromium III	Lake Demopolis	7E-09	2E-11	0E+00		7E-09
Chromium III	Lake Henry	7E-09	2E-12	0E+00		7E-09
Cobalt	Black Warrior River (most inclusive data)	2E-08	0E+00	0E+00		2E-08
Cobalt	Powell Creek	2E-08	0E+00	0E+00		2E-08
Cobalt	Lake Demopolis	2E-08	0E+00	0E+00		2E-08
Cobalt	Lake Henry	2E-08	0E+00	0E+00		2E-08
Hydrogen Chloride	Black Warrior River (most inclusive data)				2E-05	
Hydrogen Chloride	Powell Creek				2E-05	
Hydrogen Chloride	Lake Demopolis				2E-05	
Hydrogen Chloride	Lake Henry				2E-05	
Selenium	Black Warrior River (most inclusive data)	1E-08	2E-06	0E+00		2E-06
Selenium	Powell Creek	1E-08	6E-06	0E+00		6E-06
Selenium	Lake Demopolis	1E-08	2E-04	0E+00		2E-04
Selenium	Lake Henry	1E-08	9E-05	0E+00		9E-05
Chlorine	Black Warrior River (most inclusive data)				9E-05	
Chlorine	Powell Creek				9E-05	
Chlorine	Lake Demopolis				9E-05	
Chlorine	Lake Henry				9E-05	
Methylmercury - Developmental Effects	Black Warrior River (most inclusive data)	1E-04	6E-02	0E+00		6E-02
Methylmercury - Developmental Effects	Powell Creek	1E-04	3E-01	0E+00		3E-01
Methylmercury - Developmental Effects	Lake Demopolis	1E-04	9E-01	0E+00		9E-01
Methylmercury - Developmental Effects	Lake Henry	1E-04	4E-01	0E+00		4E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Black Warrior River (most inclusive data)	4E-05	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Powell Creek	4E-05	9E-02	0E+00		9E-02
Methylmercury - Neurological Effects	Lake Demopolis	4E-05	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Lake Henry	4E-05	1E-01	0E+00		1E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Black Warrior River (most inclusive data)	2E-10	3E-09	0E+00	3E-11	3E-09
2,3,7,8-TCDD-TEQ	Powell Creek	2E-10	2E-08	0E+00	3E-11	2E-08
2,3,7,8-TCDD-TEQ	Lake Demopolis	2E-10	2E-07	0E+00	3E-11	2E-07
2,3,7,8-TCDD-TEQ	Lake Henry	2E-10	3E-08	0E+00	3E-11	3E-08
Nickel	Black Warrior River (most inclusive data)				6E-11	
Nickel	Powell Creek				6E-11	
Nickel	Lake Demopolis				6E-11	
Nickel	Lake Henry				6E-11	
Arsenic	Black Warrior River (most inclusive data)	9E-12	2E-12	0E+00	1E-10	1E-11
Arsenic	Powell Creek	9E-12	5E-12	0E+00	1E-10	1E-11
Arsenic	Lake Demopolis	9E-12	2E-10	0E+00	1E-10	2E-10
Arsenic	Lake Henry	9E-12	8E-11	0E+00	1E-10	9E-11
Beryllium	Black Warrior River (most inclusive data)				3E-11	
Beryllium	Powell Creek				3E-11	
Beryllium	Lake Demopolis				3E-11	
Beryllium	Lake Henry				3E-11	
Cadmium	Black Warrior River (most inclusive data)				5E-11	
Cadmium	Powell Creek				5E-11	
Cadmium	Lake Demopolis				5E-11	
Cadmium	Lake Henry				5E-11	
Chromium VI	Black Warrior River (most inclusive data)				1E-09	
Chromium VI	Powell Creek				1E-09	
Chromium VI	Lake Demopolis				1E-09	
Chromium VI	Lake Henry				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Black Warrior River (most inclusive data)	7E-10	0E+00	0E+00	7E-06	7E-10
Manganese	Powell Creek	7E-10	0E+00	0E+00	7E-06	7E-10
Manganese	Lake Demopolis	7E-10	0E+00	0E+00	7E-06	7E-10
Manganese	Lake Henry	7E-10	0E+00	0E+00	7E-06	7E-10
Mercury (elemental)	Black Warrior River (most inclusive data)				2E-05	
Mercury (elemental)	Powell Creek				2E-05	
Mercury (elemental)	Lake Demopolis				2E-05	
Mercury (elemental)	Lake Henry				2E-05	
Mercury (divalent)	Black Warrior River (most inclusive data)	8E-04		0E+00		8E-04
Mercury (divalent)	Powell Creek	8E-04		0E+00		8E-04
Mercury (divalent)	Lake Demopolis	8E-04		0E+00		8E-04
Mercury (divalent)	Lake Henry	8E-04		0E+00		8E-04
Nickel	Black Warrior River (most inclusive data)	9E-09	5E-10	0E+00		9E-09
Nickel	Powell Creek	9E-09	2E-09	0E+00		1E-08
Nickel	Lake Demopolis	9E-09	5E-08	0E+00		6E-08
Nickel	Lake Henry	9E-09	2E-08	0E+00		3E-08
Silver	Black Warrior River (most inclusive data)	3E-10	0E+00	0E+00		3E-10
Silver	Powell Creek	3E-10	0E+00	0E+00		3E-10
Silver	Lake Demopolis	3E-10	0E+00	0E+00		3E-10
Silver	Lake Henry	3E-10	0E+00	0E+00		3E-10
Thallium	Black Warrior River (most inclusive data)	1E-06	2E-06	0E+00		3E-06
Thallium	Powell Creek	1E-06	6E-06	0E+00		7E-06
Thallium	Lake Demopolis	1E-06	2E-04	0E+00		2E-04
Thallium	Lake Henry	1E-06	8E-05	0E+00		8E-05

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Black Warrior River (most inclusive data)	2E-07	0E+00	0E+00		2E-07
Antimony	Powell Creek	2E-07	0E+00	0E+00		2E-07
Antimony	Lake Demopolis	2E-07	0E+00	0E+00		2E-07
Antimony	Lake Henry	2E-07	0E+00	0E+00		2E-07
Arsenic	Black Warrior River (most inclusive data)	9E-08	2E-08	0E+00		1E-07
Arsenic	Powell Creek	9E-08	5E-08	0E+00		1E-07
Arsenic	Lake Demopolis	9E-08	1E-06	0E+00		2E-06
Arsenic	Lake Henry	9E-08	7E-07	0E+00		8E-07
Barium	Black Warrior River (most inclusive data)	2E-07	0E+00	0E+00	6E-06	2E-07
Barium	Powell Creek	2E-07	0E+00	0E+00	6E-06	2E-07
Barium	Lake Demopolis	2E-07	0E+00	0E+00	6E-06	2E-07
Barium	Lake Henry	2E-07	0E+00	0E+00	6E-06	2E-07
Beryllium	Black Warrior River (most inclusive data)	1E-07	2E-09	0E+00		1E-07
Beryllium	Powell Creek	1E-07	1E-08	0E+00		1E-07
Beryllium	Lake Demopolis	1E-07	2E-07	0E+00		4E-07
Beryllium	Lake Henry	1E-07	6E-08	0E+00		2E-07
Cadmium	Black Warrior River (most inclusive data)	1E-07	2E-07	0E+00		3E-07
Cadmium	Powell Creek	1E-07	8E-07	0E+00		9E-07
Cadmium	Lake Demopolis	1E-07	2E-05	0E+00		2E-05
Cadmium	Lake Henry	1E-07	1E-05	0E+00		1E-05
Chromium VI	Black Warrior River (most inclusive data)	1E-08	6E-10	0E+00		1E-08
Chromium VI	Powell Creek	1E-08	2E-09	0E+00		1E-08
Chromium VI	Lake Demopolis	1E-08	5E-08	0E+00		6E-08
Chromium VI	Lake Henry	1E-08	3E-08	0E+00		4E-08
Chromium III	Black Warrior River (most inclusive data)	3E-09	9E-13	0E+00		3E-09
Chromium III	Powell Creek	3E-09	5E-12	0E+00		3E-09
Chromium III	Lake Demopolis	3E-09	2E-11	0E+00		3E-09
Chromium III	Lake Henry	3E-09	2E-12	0E+00		3E-09
Cobalt	Black Warrior River (most inclusive data)	9E-09	0E+00	0E+00		9E-09
Cobalt	Powell Creek	9E-09	0E+00	0E+00		9E-09
Cobalt	Lake Demopolis	9E-09	0E+00	0E+00		9E-09
Cobalt	Lake Henry	9E-09	0E+00	0E+00		9E-09
Hydrogen Chloride	Black Warrior River (most inclusive data)				2E-05	
Hydrogen Chloride	Powell Creek				2E-05	
Hydrogen Chloride	Lake Demopolis				2E-05	
Hydrogen Chloride	Lake Henry				2E-05	
Selenium	Black Warrior River (most inclusive data)	5E-09	2E-06	0E+00		2E-06
Selenium	Powell Creek	5E-09	6E-06	0E+00		6E-06
Selenium	Lake Demopolis	5E-09	2E-04	0E+00		2E-04
Selenium	Lake Henry	5E-09	9E-05	0E+00		9E-05
Chlorine	Black Warrior River (most inclusive data)				9E-05	
Chlorine	Powell Creek				9E-05	
Chlorine	Lake Demopolis				9E-05	
Chlorine	Lake Henry				9E-05	
Methylmercury - Developmental Effects	Black Warrior River (most inclusive data)	5E-05	6E-02	0E+00		6E-02
Methylmercury - Developmental Effects	Powell Creek	5E-05	3E-01	0E+00		3E-01
Methylmercury - Developmental Effects	Lake Demopolis	5E-05	9E-01	0E+00		9E-01
Methylmercury - Developmental Effects	Lake Henry	5E-05	4E-01	0E+00		4E-01

Table IX-B14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Number 321) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Black Warrior River (most inclusive data)	2E-05	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Powell Creek	2E-05	9E-02	0E+00		9E-02
Methylmercury - Neurological Effects	Lake Demopolis	2E-05	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Lake Henry	2E-05	1E-01	0E+00		1E-01

Table IX-B15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	1E-10	3E-10	3E-10	6E-08	5E-07	1E-08	1E-07	7E-08	1E-07	2E-11	2E-10	9E-07
Nickel												2E-10	
Arsenic	4E-11	1E-11	7E-12	3E-11	5E-11	9E-11	5E-12			2E-10	3E-11	9E-11	5E-10
Beryllium												5E-12	
Cadmium												3E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	1E-07	4E-07	5E-08	3E-06	5E-09			0E+00	5E-08	1E-04	4E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	2E-06	2E-05	2E-05	2E-04	5E-08				6E-07		3E-04
Nickel	5E-07	2E-07	1E-07	5E-07	5E-06	4E-05	3E-07			9E-07	5E-07		5E-05
Silver	3E-09	3E-08	9E-09	8E-08	5E-07	2E-04	2E-08			0E+00	1E-07		2E-04
Thallium	1E-05	9E-07	7E-08	3E-06	3E-04	8E-04	3E-05			6E-04	4E-06		2E-03
Antimony	1E-07	4E-07	1E-07	8E-07	9E-07	5E-06	4E-08			0E+00	1E-06		9E-06
Arsenic	1E-06	4E-07	2E-07	7E-07	1E-06	2E-06	1E-07			6E-06	8E-07		1E-05
Barium	9E-06	9E-07	2E-07	2E-06	4E-07	5E-05	7E-08			0E+00	1E-07	4E-05	7E-05
Beryllium	3E-07	4E-09	9E-10	9E-09	4E-08	2E-09	2E-08			3E-08	5E-09		4E-07
Cadmium	1E-05	1E-05	5E-06	2E-05	9E-07	3E-06	2E-07			7E-04	4E-06		7E-04
Chromium VI	2E-07	6E-08	3E-08	2E-07	2E-06	3E-05	1E-07			4E-07	3E-07		3E-05
Chromium III	5E-07	5E-09	4E-09	1E-08	3E-07	4E-06	1E-07			7E-11	7E-11		5E-06
Cobalt	2E-07	4E-08	2E-10	9E-08	3E-06	2E-05	3E-07			0E+00	9E-08		2E-05
Hydrogen Chloride												6E-04	
Selenium	6E-08	3E-08	4E-08	8E-08	5E-07	4E-05	2E-06			8E-04	3E-07		8E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	1E-06	3E-06	3E-07	3E-06	7E-06	1E-04	4E-09			5E-03	2E-08		5E-03
Methylmercury - Neurological Effects	4E-07	1E-06	1E-07	1E-06	2E-06	3E-05	1E-09			2E-03	8E-09		2E-03

Table IX-B15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	1E-10	3E-10	4E-10	9E-08	4E-07	1E-08	1E-07	8E-08	1E-07	2E-11	2E-10	8E-07
Nickel												3E-10	
Arsenic	1E-11	1E-11	7E-12	4E-11	8E-11	6E-11	4E-12			3E-10	2E-11	1E-10	5E-10
Beryllium												6E-12	
Cadmium												4E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	7E-08	4E-07	6E-08	1E-06	3E-09			0E+00	3E-08	1E-04	2E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	5E-06	2E-06	2E-05	2E-05	1E-04	3E-08				3E-07		2E-04
Nickel	1E-07	1E-07	7E-08	5E-07	5E-06	2E-05	2E-07			7E-07	3E-07		3E-05
Silver	7E-10	2E-08	6E-09	8E-08	6E-07	9E-05	1E-08			0E+00	6E-08		1E-04
Thallium	4E-06	5E-07	5E-08	2E-06	3E-04	4E-04	2E-05			4E-04	2E-06		1E-03
Antimony	3E-08	2E-07	9E-08	8E-07	1E-06	3E-06	2E-08			0E+00	7E-07		5E-06
Arsenic	3E-07	2E-07	1E-07	7E-07	2E-06	1E-06	8E-08			5E-06	4E-07		9E-06
Barium	2E-06	5E-07	2E-07	2E-06	5E-07	3E-05	4E-08			0E+00	6E-08	4E-05	3E-05
Beryllium	9E-08	2E-09	6E-10	9E-09	5E-08	9E-10	9E-09			2E-08	3E-09		2E-07
Cadmium	3E-06	6E-06	4E-06	2E-05	1E-06	2E-06	1E-07			5E-04	2E-06		5E-04
Chromium VI	6E-08	3E-08	2E-08	1E-07	2E-06	2E-05	7E-08			3E-07	1E-07		2E-05
Chromium III	1E-07	3E-09	3E-09	1E-08	4E-07	2E-06	8E-08			5E-11	4E-11		3E-06
Cobalt	5E-08	2E-08	2E-10	9E-08	3E-06	8E-06	2E-07			0E+00	5E-08		1E-05
Hydrogen Chloride												6E-04	
Selenium	2E-08	2E-08	3E-08	8E-08	6E-07	2E-05	1E-06			6E-04	1E-07		6E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	3E-07	2E-06	2E-07	3E-06	9E-06	5E-05	2E-09			4E-03	1E-08		4E-03
Methylmercury - Neurological Effects	1E-07	6E-07	7E-08	1E-06	3E-06	2E-05	8E-10			1E-03	4E-09		1E-03

Table IX-B15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	8E-11	2E-10	2E-10	4E-08	2E-07	7E-09	7E-08	4E-08	6E-08	1E-11	1E-10	4E-07
Nickel												2E-10	
Arsenic	8E-12	8E-12	5E-12	2E-11	4E-11	3E-11	3E-12			1E-10	2E-11	7E-11	3E-10
Beryllium												4E-12	
Cadmium												2E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	8E-08	5E-08	2E-07	3E-08	6E-07	2E-09			0E+00	2E-08	1E-04	1E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	3E-06	4E-06	1E-06	1E-05	1E-05	5E-05	2E-08			0E+00	2E-07		8E-05
Nickel	7E-08	1E-07	5E-08	3E-07	2E-06	1E-05	1E-07			4E-07	2E-07		1E-05
Silver	4E-10	1E-08	5E-09	4E-08	3E-07	4E-05	7E-09			0E+00	4E-08		4E-05
Thallium	2E-06	4E-07	3E-08	1E-06	1E-04	2E-04	1E-05			2E-04	2E-06		6E-04
Antimony	2E-08	2E-07	6E-08	4E-07	5E-07	1E-06	2E-08			0E+00	5E-07		3E-06
Arsenic	1E-07	2E-07	9E-08	4E-07	7E-07	5E-07	5E-08			2E-06	3E-07		5E-06
Barium	1E-06	4E-07	1E-07	9E-07	2E-07	1E-05	3E-08			0E+00	4E-08	4E-05	2E-05
Beryllium	5E-08	2E-09	4E-10	5E-09	2E-08	4E-10	6E-09			1E-08	2E-09		1E-07
Cadmium	1E-06	5E-06	3E-06	1E-05	5E-07	7E-07	7E-08			3E-04	1E-06		3E-04
Chromium VI	3E-08	2E-08	1E-08	8E-08	1E-06	7E-06	5E-08			1E-07	9E-08		9E-06
Chromium III	7E-08	2E-09	2E-09	6E-09	2E-07	9E-07	5E-08			3E-11	3E-11		1E-06
Cobalt	3E-08	2E-08	1E-10	5E-08	2E-06	4E-06	1E-07			0E+00	3E-08		5E-06
Hydrogen Chloride												6E-04	
Selenium	8E-09	1E-08	2E-08	4E-08	3E-07	1E-05	8E-07			3E-04	9E-08		3E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	2E-07	1E-06	2E-07	2E-06	4E-06	2E-05	2E-09			2E-03	9E-09		2E-03
Methylmercury - Neurological Effects	6E-08	5E-07	5E-08	5E-07	1E-06	8E-06	5E-10			7E-04	3E-09		7E-04

Table IX-B15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-10	2E-10	4E-10	4E-10	9E-08	1E-07	1E-08	1E-07	7E-08	1E-07	2E-11	2E-10	6E-07
Nickel												2E-10	
Arsenic	6E-12	2E-11	9E-12	3E-11	8E-11	2E-11	5E-12			3E-10	4E-11	1E-10	5E-10
Beryllium												6E-12	
Cadmium												3E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-09	1E-07	6E-08	2E-07	3E-08	3E-07	2E-09			0E+00	2E-08	1E-04	7E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	1E-06	6E-06	1E-06	9E-06	1E-05	2E-05	2E-08			0E+00	2E-07		5E-05
Nickel	3E-08	1E-07	6E-08	2E-07	3E-06	4E-06	1E-07			4E-07	2E-07		8E-06
Silver	2E-10	2E-08	5E-09	4E-08	3E-07	2E-05	6E-09			0E+00	5E-08		2E-05
Thallium	8E-07	5E-07	4E-08	1E-06	2E-04	8E-05	1E-05			3E-04	2E-06		5E-04
Antimony	7E-09	2E-07	7E-08	4E-07	5E-07	5E-07	1E-08			0E+00	5E-07		2E-06
Arsenic	6E-08	2E-07	1E-07	4E-07	8E-07	2E-07	5E-08			3E-06	3E-07		5E-06
Barium	5E-07	5E-07	1E-07	8E-07	3E-07	5E-06	2E-08			0E+00	5E-08	4E-05	8E-06
Beryllium	2E-08	2E-09	5E-10	5E-09	3E-08	2E-10	5E-09			1E-08	2E-09		7E-08
Cadmium	6E-07	7E-06	3E-06	1E-05	5E-07	3E-07	6E-08			3E-04	2E-06		3E-04
Chromium VI	1E-08	3E-08	2E-08	7E-08	1E-06	3E-06	4E-08			2E-07	1E-07		5E-06
Chromium III	3E-08	3E-09	2E-09	6E-09	2E-07	4E-07	4E-08			3E-11	3E-11		7E-07
Cobalt	1E-08	2E-08	1E-10	4E-08	2E-06	2E-06	9E-08			0E+00	4E-08		4E-06
Hydrogen Chloride												6E-04	
Selenium	3E-09	2E-08	2E-08	4E-08	3E-07	4E-06	7E-07			3E-04	1E-07		3E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	7E-08	2E-06	2E-07	1E-06	4E-06	1E-05	1E-09			2E-03	1E-08		2E-03
Methylmercury - Neurological Effects	2E-08	6E-07	6E-08	5E-07	1E-06	4E-06	5E-10			7E-04	3E-09		8E-04

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lehigh River	6E-09	5E-08	2E-11	2E-10	6E-08
2,3,7,8-TCDD-TEQ	Monocacy Creek	6E-09	4E-07	2E-11	2E-10	4E-07
Nickel	Lehigh River				2E-10	
Nickel	Monocacy Creek				2E-10	
Arsenic	Lehigh River	4E-11	3E-12	3E-11	9E-11	8E-11
Arsenic	Monocacy Creek	4E-11	8E-11	3E-11	9E-11	2E-10
Beryllium	Lehigh River				5E-12	
Beryllium	Monocacy Creek				5E-12	
Cadmium	Lehigh River				3E-10	
Cadmium	Monocacy Creek				3E-10	
Chromium VI	Lehigh River				1E-09	
Chromium VI	Monocacy Creek				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Lehigh River	2E-07	0E+00	5E-08	1E-04	2E-07
Manganese	Monocacy Creek	2E-07	0E+00	5E-08	1E-04	2E-07
Mercury (elemental)	Lehigh River				4E-06	
Mercury (elemental)	Monocacy Creek				4E-06	
Mercury (divalent)	Lehigh River	2E-05		6E-07		2E-05
Mercury (divalent)	Monocacy Creek	2E-05		6E-07		2E-05
Nickel	Lehigh River	5E-07	1E-08	5E-07		1E-06
Nickel	Monocacy Creek	5E-07	3E-07	5E-07		1E-06
Silver	Lehigh River	3E-09	0E+00	1E-07		1E-07
Silver	Monocacy Creek	3E-09	0E+00	1E-07		1E-07
Thallium	Lehigh River	1E-05	9E-06	4E-06		3E-05
Thallium	Monocacy Creek	1E-05	2E-04	4E-06		2E-04
Antimony	Lehigh River	1E-07	0E+00	1E-06		1E-06
Antimony	Monocacy Creek	1E-07	0E+00	1E-06		1E-06
Arsenic	Lehigh River	1E-06	8E-08	8E-07		2E-06
Arsenic	Monocacy Creek	1E-06	2E-06	8E-07		4E-06
Barium	Lehigh River	9E-06	0E+00	1E-07	4E-05	9E-06
Barium	Monocacy Creek	9E-06	0E+00	1E-07	4E-05	9E-06
Beryllium	Lehigh River	3E-07	3E-09	5E-09		3E-07
Beryllium	Monocacy Creek	3E-07	6E-08	5E-09		4E-07
Cadmium	Lehigh River	1E-05	1E-05	4E-06		3E-05
Cadmium	Monocacy Creek	1E-05	3E-04	4E-06		3E-04
Chromium VI	Lehigh River	2E-07	5E-09	3E-07		5E-07
Chromium VI	Monocacy Creek	2E-07	1E-07	3E-07		6E-07
Chromium III	Lehigh River	5E-07	1E-10	7E-11		5E-07
Chromium III	Monocacy Creek	5E-07	5E-10	7E-11		5E-07
Cobalt	Lehigh River	2E-07	0E+00	7E-11		2E-07
Cobalt	Monocacy Creek	2E-07	0E+00	7E-11		2E-07
Hydrogen Chloride	Lehigh River				6E-04	
Hydrogen Chloride	Monocacy Creek				6E-04	
Selenium	Lehigh River	6E-08	1E-05	3E-07		1E-05
Selenium	Monocacy Creek	6E-08	2E-04	3E-07		2E-04
Chlorine	Lehigh River				3E-04	
Chlorine	Monocacy Creek				3E-04	
Methylmercury - Developmental Effects	Lehigh River	1E-06	4E-03	2E-08		4E-03
Methylmercury - Developmental Effects	Monocacy Creek	1E-06	2E-02	2E-08		2E-02

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Lehigh River	4E-07	1E-03	8E-09		1E-03
Methylmercury - Neurological Effects	Monocacy Creek	4E-07	6E-03	8E-09		6E-03

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lehigh River	2E-09	7E-08	2E-11	2E-10	7E-08
2,3,7,8-TCDD-TEQ	Monocacy Creek	2E-09	5E-07	2E-11	2E-10	5E-07
Nickel	Lehigh River				3E-10	
Nickel	Monocacy Creek				3E-10	
Arsenic	Lehigh River	1E-11	4E-12	2E-11	1E-10	4E-11
Arsenic	Monocacy Creek	1E-11	1E-10	2E-11	1E-10	2E-10
Beryllium	Lehigh River				6E-12	
Beryllium	Monocacy Creek				6E-12	
Cadmium	Lehigh River				4E-10	
Cadmium	Monocacy Creek				4E-10	
Chromium VI	Lehigh River				2E-09	
Chromium VI	Monocacy Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Lehigh River	4E-08	0E+00	3E-08	1E-04	7E-08
Manganese	Monocacy Creek	4E-08	0E+00	3E-08	1E-04	7E-08
Mercury (elemental)	Lehigh River				4E-06	
Mercury (elemental)	Monocacy Creek				4E-06	
Mercury (divalent)	Lehigh River	5E-06		3E-07		6E-06
Mercury (divalent)	Monocacy Creek	5E-06		3E-07		6E-06
Nickel	Lehigh River	1E-07	1E-08	3E-07		4E-07
Nickel	Monocacy Creek	1E-07	3E-07	3E-07		7E-07
Silver	Lehigh River	7E-10	0E+00	6E-08		6E-08
Silver	Monocacy Creek	7E-10	0E+00	6E-08		6E-08
Thallium	Lehigh River	4E-06	9E-06	2E-06		1E-05
Thallium	Monocacy Creek	4E-06	2E-04	2E-06		2E-04
Antimony	Lehigh River	3E-08	0E+00	7E-07		7E-07
Antimony	Monocacy Creek	3E-08	0E+00	7E-07		7E-07
Arsenic	Lehigh River	3E-07	8E-08	4E-07		8E-07
Arsenic	Monocacy Creek	3E-07	2E-06	4E-07		3E-06
Barium	Lehigh River	2E-06	0E+00	6E-08	4E-05	2E-06
Barium	Monocacy Creek	2E-06	0E+00	6E-08	4E-05	2E-06
Beryllium	Lehigh River	9E-08	3E-09	3E-09		9E-08
Beryllium	Monocacy Creek	9E-08	6E-08	3E-09		2E-07
Cadmium	Lehigh River	3E-06	1E-05	2E-06		2E-05
Cadmium	Monocacy Creek	3E-06	3E-04	2E-06		3E-04
Chromium VI	Lehigh River	6E-08	5E-09	1E-07		2E-07
Chromium VI	Monocacy Creek	6E-08	1E-07	1E-07		3E-07
Chromium III	Lehigh River	1E-07	1E-10	4E-11		1E-07
Chromium III	Monocacy Creek	1E-07	5E-10	4E-11		1E-07
Cobalt	Lehigh River	5E-08	0E+00	4E-11		5E-08
Cobalt	Monocacy Creek	5E-08	0E+00	4E-11		5E-08
Hydrogen Chloride	Lehigh River				6E-04	
Hydrogen Chloride	Monocacy Creek				6E-04	
Selenium	Lehigh River	2E-08	1E-05	1E-07		1E-05
Selenium	Monocacy Creek	2E-08	2E-04	1E-07		2E-04
Chlorine	Lehigh River				3E-04	
Chlorine	Monocacy Creek				3E-04	
Methylmercury - Developmental Effects	Lehigh River	3E-07	4E-03	1E-08		4E-03
Methylmercury - Developmental Effects	Monocacy Creek	3E-07	2E-02	1E-08		2E-02

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Lehigh River	1E-07	1E-03	4E-09		1E-03
Methylmercury - Neurological Effects	Monocacy Creek	1E-07	6E-03	4E-09		6E-03

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lehigh River	1E-09	5E-08	1E-11	1E-10	5E-08
2,3,7,8-TCDD-TEQ	Monocacy Creek	1E-09	4E-07	1E-11	1E-10	4E-07
Nickel	Lehigh River				2E-10	
Nickel	Monocacy Creek				2E-10	
Arsenic	Lehigh River	8E-12	3E-12	2E-11	7E-11	3E-11
Arsenic	Monocacy Creek	8E-12	8E-11	2E-11	7E-11	1E-10
Beryllium	Lehigh River				4E-12	
Beryllium	Monocacy Creek				4E-12	
Cadmium	Lehigh River				2E-10	
Cadmium	Monocacy Creek				2E-10	
Chromium VI	Lehigh River				1E-09	
Chromium VI	Monocacy Creek				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Lehigh River	2E-08	0E+00	2E-08	1E-04	4E-08
Manganese	Monocacy Creek	2E-08	0E+00	2E-08	1E-04	4E-08
Mercury (elemental)	Lehigh River				4E-06	
Mercury (elemental)	Monocacy Creek				4E-06	
Mercury (divalent)	Lehigh River	3E-06		2E-07		3E-06
Mercury (divalent)	Monocacy Creek	3E-06		2E-07		3E-06
Nickel	Lehigh River	7E-08	9E-09	2E-07		3E-07
Nickel	Monocacy Creek	7E-08	2E-07	2E-07		5E-07
Silver	Lehigh River	4E-10	0E+00	4E-08		4E-08
Silver	Monocacy Creek	4E-10	0E+00	4E-08		4E-08
Thallium	Lehigh River	2E-06	6E-06	2E-06		1E-05
Thallium	Monocacy Creek	2E-06	2E-04	2E-06		2E-04
Antimony	Lehigh River	2E-08	0E+00	5E-07		5E-07
Antimony	Monocacy Creek	2E-08	0E+00	5E-07		5E-07
Arsenic	Lehigh River	1E-07	6E-08	3E-07		5E-07
Arsenic	Monocacy Creek	1E-07	1E-06	3E-07		2E-06
Barium	Lehigh River	1E-06	0E+00	4E-08	4E-05	1E-06
Barium	Monocacy Creek	1E-06	0E+00	4E-08	4E-05	1E-06
Beryllium	Lehigh River	5E-08	2E-09	2E-09		5E-08
Beryllium	Monocacy Creek	5E-08	4E-08	2E-09		9E-08
Cadmium	Lehigh River	1E-06	8E-06	1E-06		1E-05
Cadmium	Monocacy Creek	1E-06	2E-04	1E-06		2E-04
Chromium VI	Lehigh River	3E-08	3E-09	9E-08		1E-07
Chromium VI	Monocacy Creek	3E-08	8E-08	9E-08		2E-07
Chromium III	Lehigh River	7E-08	8E-11	3E-11		7E-08
Chromium III	Monocacy Creek	7E-08	4E-10	3E-11		7E-08
Cobalt	Lehigh River	3E-08	0E+00	3E-08		6E-08
Cobalt	Monocacy Creek	3E-08	0E+00	3E-08		6E-08
Hydrogen Chloride	Lehigh River				6E-04	
Hydrogen Chloride	Monocacy Creek				6E-04	
Selenium	Lehigh River	8E-09	7E-06	9E-08		7E-06
Selenium	Monocacy Creek	8E-09	2E-04	9E-08		2E-04
Chlorine	Lehigh River				3E-04	
Chlorine	Monocacy Creek				3E-04	
Methylmercury - Developmental Effects	Lehigh River	2E-07	3E-03	9E-09		3E-03
Methylmercury - Developmental Effects	Monocacy Creek	2E-07	1E-02	9E-09		1E-02

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Lehigh River	6E-08	8E-04	3E-09		8E-04
Methylmercury - Neurological Effects	Monocacy Creek	6E-08	4E-03	3E-09		4E-03

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lehigh River	8E-10	9E-08	2E-11	2E-10	9E-08
2,3,7,8-TCDD-TEQ	Monocacy Creek	8E-10	6E-07	2E-11	2E-10	7E-07
Nickel	Lehigh River				2E-10	
Nickel	Monocacy Creek				2E-10	
Arsenic	Lehigh River	6E-12	6E-12	4E-11	1E-10	5E-11
Arsenic	Monocacy Creek	6E-12	2E-10	4E-11	1E-10	2E-10
Beryllium	Lehigh River				6E-12	
Beryllium	Monocacy Creek				6E-12	
Cadmium	Lehigh River				3E-10	
Cadmium	Monocacy Creek				3E-10	
Chromium VI	Lehigh River				1E-09	
Chromium VI	Monocacy Creek				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Lehigh River	9E-09	0E+00	2E-08	1E-04	3E-08
Manganese	Monocacy Creek	9E-09	0E+00	2E-08	1E-04	3E-08
Mercury (elemental)	Lehigh River				4E-06	
Mercury (elemental)	Monocacy Creek				4E-06	
Mercury (divalent)	Lehigh River	1E-06		2E-07		1E-06
Mercury (divalent)	Monocacy Creek	1E-06		2E-07		1E-06
Nickel	Lehigh River	3E-08	9E-09	2E-07		2E-07
Nickel	Monocacy Creek	3E-08	2E-07	2E-07		5E-07
Silver	Lehigh River	2E-10	0E+00	5E-08		5E-08
Silver	Monocacy Creek	2E-10	0E+00	5E-08		5E-08
Thallium	Lehigh River	8E-07	6E-06	2E-06		9E-06
Thallium	Monocacy Creek	8E-07	2E-04	2E-06		2E-04
Antimony	Lehigh River	7E-09	0E+00	5E-07		5E-07
Antimony	Monocacy Creek	7E-09	0E+00	5E-07		5E-07
Arsenic	Lehigh River	6E-08	6E-08	3E-07		4E-07
Arsenic	Monocacy Creek	6E-08	1E-06	3E-07		2E-06
Barium	Lehigh River	5E-07	0E+00	5E-08	4E-05	6E-07
Barium	Monocacy Creek	5E-07	0E+00	5E-08	4E-05	6E-07
Beryllium	Lehigh River	2E-08	2E-09	2E-09		2E-08
Beryllium	Monocacy Creek	2E-08	4E-08	2E-09		7E-08
Cadmium	Lehigh River	6E-07	8E-06	2E-06		1E-05
Cadmium	Monocacy Creek	6E-07	2E-04	2E-06		2E-04
Chromium VI	Lehigh River	1E-08	3E-09	1E-07		1E-07
Chromium VI	Monocacy Creek	1E-08	8E-08	1E-07		2E-07
Chromium III	Lehigh River	3E-08	8E-11	3E-11		3E-08
Chromium III	Monocacy Creek	3E-08	4E-10	3E-11		3E-08
Cobalt	Lehigh River	1E-08	0E+00	4E-08		5E-08
Cobalt	Monocacy Creek	1E-08	0E+00	4E-08		5E-08
Hydrogen Chloride	Lehigh River				6E-04	
Hydrogen Chloride	Monocacy Creek				6E-04	
Selenium	Lehigh River	3E-09	7E-06	1E-07		7E-06
Selenium	Monocacy Creek	3E-09	2E-04	1E-07		2E-04
Chlorine	Lehigh River				3E-04	
Chlorine	Monocacy Creek				3E-04	
Methylmercury - Developmental Effects	Lehigh River	7E-08	3E-03	1E-08		3E-03
Methylmercury - Developmental Effects	Monocacy Creek	7E-08	1E-02	1E-08		1E-02

Table IX-B16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 207, 208) - Sector 12

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Lehigh River	2E-08	8E-04	3E-09		8E-04
Methylmercury - Neurological Effects	Monocacy Creek	2E-08	4E-03	3E-09		4E-03

Table IX-B17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	4E-10	1E-09	9E-10	1E-07	1E-06	3E-08	3E-07	2E-07	2E-07		2E-10	2E-06
Nickel												6E-12	
Arsenic	2E-09	6E-10	3E-10	1E-09	2E-09	3E-09	3E-10			2E-08		2E-09	3E-08
Beryllium												3E-11	
Cadmium												3E-10	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	6E-08	3E-08	1E-07	2E-08	9E-07	2E-09			0E+00		2E-05	1E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	8E-05	4E-05	2E-04	3E-04	2E-03	8E-07						3E-03
Nickel	3E-08	1E-08	6E-09	3E-08	3E-07	3E-06	2E-08			9E-08			3E-06
Silver	2E-09	2E-08	6E-09	4E-08	2E-07	1E-04	1E-08			0E+00			1E-04
Thallium	2E-05	1E-06	1E-07	4E-06	4E-04	1E-03	5E-05			1E-03			3E-03
Antimony	8E-08	2E-07	7E-08	5E-07	4E-07	2E-06	2E-08			0E+00			4E-06
Arsenic	5E-05	2E-05	9E-06	3E-05	5E-05	9E-05	7E-06			5E-04			7E-04
Barium	3E-05	3E-06	8E-07	6E-06	1E-06	2E-04	2E-07			0E+00		4E-05	2E-04
Beryllium	4E-06	4E-08	1E-08	1E-07	5E-07	2E-08	2E-07			3E-07			5E-06
Cadmium	3E-05	3E-05	1E-05	5E-05	2E-06	7E-06	4E-07			2E-03			2E-03
Chromium VI	2E-07	4E-08	2E-08	1E-07	1E-06	2E-05	8E-08			4E-07			2E-05
Chromium III	8E-07	8E-09	6E-09	2E-08	5E-07	6E-06	2E-07			8E-11			8E-06
Cobalt	7E-08	1E-08	8E-11	3E-08	9E-07	5E-06	9E-08			0E+00			6E-06
Hydrogen Chloride												3E-04	
Selenium	2E-05	8E-06	1E-05	2E-05	1E-04	1E-02	6E-04			4E-01			4E-01
Chlorine												4E-03	
Methylmercury - Developmental Effects	2E-05	3E-05	5E-06	3E-05	6E-05	9E-04	6E-08			2E-01			2E-01
Methylmercury - Neurological Effects	7E-06	9E-06	2E-06	9E-06	2E-05	3E-04	2E-08			6E-02			6E-02

Table IX-B17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	3E-10	1E-09	1E-09	2E-07	7E-07	2E-08	3E-07	2E-07	2E-07		3E-10	2E-06
Nickel												7E-12	
Arsenic	8E-10	5E-10	3E-10	2E-09	3E-09	2E-09	2E-10			2E-08		2E-09	3E-08
Beryllium												3E-11	
Cadmium												3E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	4E-08	2E-08	1E-07	2E-08	4E-07	1E-09			0E+00		2E-05	7E-07
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	4E-05	3E-05	2E-04	3E-04	1E-03	5E-07						2E-03
Nickel	8E-09	8E-09	4E-09	3E-08	3E-07	1E-06	1E-08			7E-08			2E-06
Silver	5E-10	1E-08	4E-09	4E-08	3E-07	5E-05	6E-09			0E+00			5E-05
Thallium	6E-06	8E-07	8E-08	4E-06	5E-04	6E-04	3E-05			9E-04			2E-03
Antimony	2E-08	1E-07	5E-08	5E-07	5E-07	1E-06	1E-08			0E+00			2E-06
Arsenic	1E-05	1E-05	6E-06	3E-05	6E-05	4E-05	4E-06			3E-04			5E-04
Barium	8E-06	2E-06	5E-07	6E-06	2E-06	9E-05	1E-07			0E+00		4E-05	1E-04
Beryllium	1E-06	2E-08	7E-09	1E-07	6E-07	1E-08	1E-07			2E-07			2E-06
Cadmium	7E-06	1E-05	9E-06	5E-05	2E-06	3E-06	2E-07			1E-03			1E-03
Chromium VI	4E-08	2E-08	1E-08	9E-08	1E-06	1E-05	5E-08			3E-07			1E-05
Chromium III	2E-07	4E-09	4E-09	2E-08	6E-07	3E-06	1E-07			6E-11			4E-06
Cobalt	2E-08	7E-09	5E-11	3E-08	1E-06	2E-06	5E-08			0E+00			4E-06
Hydrogen Chloride												3E-04	
Selenium	5E-06	4E-06	9E-06	2E-05	1E-04	5E-03	3E-04			3E-01			3E-01
Chlorine												4E-03	
Methylmercury - Developmental Effects	5E-06	1E-05	4E-06	2E-05	8E-05	4E-04	3E-08			1E-01			1E-01
Methylmercury - Neurological Effects	2E-06	5E-06	1E-06	8E-06	3E-05	1E-04	1E-08			4E-02			4E-02

Table IX-B17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	2E-10	7E-10	6E-10	9E-08	3E-07	2E-08	2E-07	1E-07	1E-07		2E-10	9E-07
Nickel												5E-12	
Arsenic	4E-10	4E-10	2E-10	9E-10	2E-09	1E-09	1E-10			1E-08		1E-09	2E-08
Beryllium												2E-11	
Cadmium												2E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	7E-09	3E-08	2E-08	6E-08	1E-08	2E-07	6E-10			0E+00		2E-05	3E-07
Mercury (elemental)												3E-05	
Mercury (divalent)	5E-05	3E-05	2E-05	8E-05	1E-04	6E-04	3E-07			0E+00			9E-04
Nickel	4E-09	6E-09	3E-09	2E-08	1E-07	6E-07	7E-09			4E-08			8E-07
Silver	2E-10	8E-09	3E-09	2E-08	1E-07	2E-05	4E-09			0E+00			2E-05
Thallium	3E-06	6E-07	5E-08	2E-06	2E-04	3E-04	2E-05			5E-04			1E-03
Antimony	1E-08	1E-07	4E-08	2E-07	2E-07	5E-07	7E-09			0E+00			1E-06
Arsenic	7E-06	7E-06	5E-06	2E-05	3E-05	2E-05	3E-06			2E-04			3E-04
Barium	4E-06	1E-06	4E-07	3E-06	7E-07	4E-05	8E-08			0E+00		4E-05	5E-05
Beryllium	5E-07	2E-08	5E-09	5E-08	3E-07	4E-09	7E-08			1E-07			1E-06
Cadmium	3E-06	1E-05	6E-06	3E-05	1E-06	2E-06	2E-07			7E-04			8E-04
Chromium VI	2E-08	2E-08	9E-09	5E-08	7E-07	5E-06	3E-08			2E-07			5E-06
Chromium III	1E-07	3E-09	3E-09	1E-08	3E-07	1E-06	8E-08			3E-11			2E-06
Cobalt	9E-09	5E-09	4E-11	1E-08	5E-07	1E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												3E-04	
Selenium	3E-06	3E-06	7E-06	1E-05	6E-05	2E-03	2E-04			2E-01			2E-01
Chlorine												4E-03	
Methylmercury - Developmental Effects	3E-06	1E-05	2E-06	1E-05	3E-05	2E-04	2E-08			7E-02			7E-02
Methylmercury - Neurological Effects	9E-07	4E-06	8E-07	4E-06	1E-05	7E-05	7E-09			2E-02			2E-02

Table IX-B17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	5E-10	1E-09	1E-09	2E-07	3E-07	3E-08	3E-07	2E-07	3E-07		3E-10	1E-06
Nickel												7E-12	
Arsenic	3E-10	9E-10	4E-10	1E-09	3E-09	9E-10	2E-10			2E-08		2E-09	3E-08
Beryllium												3E-11	
Cadmium												3E-10	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-09	4E-08	2E-08	6E-08	1E-08	9E-08	5E-10			0E+00		2E-05	2E-07
Mercury (elemental)												3E-05	
Mercury (divalent)	2E-05	5E-05	2E-05	8E-05	2E-04	3E-04	3E-07			0E+00			6E-04
Nickel	2E-09	8E-09	4E-09	1E-08	2E-07	3E-07	6E-09			4E-08			5E-07
Silver	1E-10	1E-08	3E-09	2E-08	2E-07	1E-05	3E-09			0E+00			1E-05
Thallium	1E-06	8E-07	6E-08	2E-06	2E-04	1E-04	2E-05			6E-04			9E-04
Antimony	4E-09	1E-07	4E-08	2E-07	2E-07	2E-07	6E-09			0E+00			9E-07
Arsenic	3E-06	1E-05	5E-06	2E-05	3E-05	9E-06	2E-06			2E-04			3E-04
Barium	2E-06	2E-06	4E-07	3E-06	8E-07	2E-05	7E-08			0E+00		4E-05	2E-05
Beryllium	2E-07	3E-08	6E-09	5E-08	3E-07	2E-09	6E-08			1E-07			8E-07
Cadmium	1E-06	1E-05	7E-06	2E-05	1E-06	7E-07	1E-07			8E-04			8E-04
Chromium VI	9E-09	2E-08	1E-08	5E-08	7E-07	2E-06	3E-08			2E-07			3E-06
Chromium III	5E-08	4E-09	3E-09	9E-09	3E-07	6E-07	7E-08			4E-11			1E-06
Cobalt	4E-09	7E-09	4E-11	1E-08	5E-07	5E-07	3E-08			0E+00			1E-06
Hydrogen Chloride												3E-04	
Selenium	1E-06	5E-06	8E-06	9E-06	7E-05	1E-03	2E-04			2E-01			2E-01
Chlorine												4E-03	
Methylmercury - Developmental Effects	1E-06	2E-05	3E-06	1E-05	4E-05	9E-05	2E-08			8E-02			8E-02
Methylmercury - Neurological Effects	4E-07	5E-06	9E-07	4E-06	1E-05	3E-05	6E-09			3E-02			3E-02

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Allen Lake	2E-08	8E-07	2E-11	2E-10	8E-07
2,3,7,8-TCDD-TEQ	Neosho River	2E-08	2E-08	2E-11	2E-10	4E-08
2,3,7,8-TCDD-TEQ	Sante Fe Lake	2E-08	1E-06	2E-11	2E-10	1E-06
Nickel	Allen Lake				6E-12	
Nickel	Neosho River				6E-12	
Nickel	Sante Fe Lake				6E-12	
Arsenic	Allen Lake	2E-09	7E-09	1E-09	2E-09	1E-08
Arsenic	Neosho River	2E-09	1E-10	1E-09	2E-09	4E-09
Arsenic	Sante Fe Lake	2E-09	7E-09	1E-09	2E-09	1E-08
Beryllium	Allen Lake				3E-11	
Beryllium	Neosho River				3E-11	
Beryllium	Sante Fe Lake				3E-11	
Cadmium	Allen Lake				3E-10	
Cadmium	Neosho River				3E-10	
Cadmium	Sante Fe Lake				3E-10	
Chromium VI	Allen Lake				4E-10	
Chromium VI	Neosho River				4E-10	
Chromium VI	Sante Fe Lake				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Allen Lake	5E-08	0E+00	1E-08	2E-05	7E-08
Manganese	Neosho River	5E-08	0E+00	1E-08	2E-05	7E-08
Manganese	Sante Fe Lake	5E-08	0E+00	1E-08	2E-05	7E-08
Mercury (elemental)	Allen Lake				3E-05	
Mercury (elemental)	Neosho River				3E-05	
Mercury (elemental)	Sante Fe Lake				3E-05	
Mercury (divalent)	Allen Lake	3E-04		6E-06		3E-04
Mercury (divalent)	Neosho River	3E-04		6E-06		3E-04
Mercury (divalent)	Sante Fe Lake	3E-04		6E-06		3E-04
Nickel	Allen Lake	3E-08	3E-08	3E-08		9E-08
Nickel	Neosho River	3E-08	6E-10	3E-08		6E-08
Nickel	Sante Fe Lake	3E-08	3E-08	3E-08		9E-08
Silver	Allen Lake	2E-09	0E+00	6E-08		6E-08
Silver	Neosho River	2E-09	0E+00	6E-08		6E-08
Silver	Sante Fe Lake	2E-09	0E+00	6E-08		6E-08
Thallium	Allen Lake	2E-05	6E-04	6E-06		6E-04
Thallium	Neosho River	2E-05	1E-05	6E-06		4E-05
Thallium	Sante Fe Lake	2E-05	6E-04	6E-06		6E-04
Antimony	Allen Lake	8E-08	0E+00	6E-07		7E-07
Antimony	Neosho River	8E-08	0E+00	6E-07		7E-07
Antimony	Sante Fe Lake	8E-08	0E+00	6E-07		7E-07
Arsenic	Allen Lake	5E-05	2E-04	3E-05		2E-04
Arsenic	Neosho River	5E-05	3E-06	3E-05		9E-05
Arsenic	Sante Fe Lake	5E-05	2E-04	3E-05		3E-04
Barium	Allen Lake	3E-05	0E+00	2E-07	4E-05	3E-05
Barium	Neosho River	3E-05	0E+00	2E-07	4E-05	3E-05
Barium	Sante Fe Lake	3E-05	0E+00	2E-07	4E-05	3E-05
Beryllium	Allen Lake	4E-06	1E-06	3E-08		5E-06
Beryllium	Neosho River	4E-06	3E-08	3E-08		4E-06
Beryllium	Sante Fe Lake	4E-06	1E-06	3E-08		5E-06

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Allen Lake	3E-05	1E-03	7E-06		1E-03
Cadmium	Neosho River	3E-05	2E-05	7E-06		5E-05
Cadmium	Sante Fe Lake	3E-05	1E-03	7E-06		1E-03
Chromium VI	Allen Lake	2E-07	1E-07	1E-07		4E-07
Chromium VI	Neosho River	2E-07	3E-09	1E-07		3E-07
Chromium VI	Sante Fe Lake	2E-07	1E-07	1E-07		4E-07
Chromium III	Allen Lake	8E-07	4E-09	1E-11		8E-07
Chromium III	Neosho River	8E-07	2E-10	1E-11		8E-07
Chromium III	Sante Fe Lake	8E-07	3E-09	1E-11		8E-07
Cobalt	Allen Lake	7E-08	0E+00	1E-11		7E-08
Cobalt	Neosho River	7E-08	0E+00	1E-11		7E-08
Cobalt	Sante Fe Lake	7E-08	0E+00	1E-11		7E-08
Hydrogen Chloride	Allen Lake				3E-04	
Hydrogen Chloride	Neosho River				3E-04	
Hydrogen Chloride	Sante Fe Lake				3E-04	
Selenium	Allen Lake	2E-05	1E-01	6E-05		1E-01
Selenium	Neosho River	2E-05	2E-03	6E-05		2E-03
Selenium	Sante Fe Lake	2E-05	1E-01	6E-05		1E-01
Chlorine	Allen Lake				4E-03	
Chlorine	Neosho River				4E-03	
Chlorine	Sante Fe Lake				4E-03	
Methylmercury - Developmental Effects	Allen Lake	2E-05	4E-01	1E-07		4E-01
Methylmercury - Developmental Effects	Neosho River	2E-05	2E-02	1E-07		2E-02
Methylmercury - Developmental Effects	Sante Fe Lake	2E-05	9E-01	1E-07		9E-01
Methylmercury - Neurological Effects	Allen Lake	7E-06	1E-01	4E-08		1E-01
Methylmercury - Neurological Effects	Neosho River	7E-06	6E-03	4E-08		6E-03
Methylmercury - Neurological Effects	Sante Fe Lake	7E-06	3E-01	4E-08		3E-01

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Allen Lake	6E-09	1E-06	1E-11	3E-10	1E-06
2,3,7,8-TCDD-TEQ	Neosho River	6E-09	3E-08	1E-11	3E-10	4E-08
2,3,7,8-TCDD-TEQ	Sante Fe Lake	6E-09	2E-06	1E-11	3E-10	2E-06
Nickel	Allen Lake				7E-12	
Nickel	Neosho River				7E-12	
Nickel	Sante Fe Lake				7E-12	
Arsenic	Allen Lake	8E-10	9E-09	1E-09	2E-09	1E-08
Arsenic	Neosho River	8E-10	2E-10	1E-09	2E-09	2E-09
Arsenic	Sante Fe Lake	8E-10	1E-08	1E-09	2E-09	1E-08
Beryllium	Allen Lake				3E-11	
Beryllium	Neosho River				3E-11	
Beryllium	Sante Fe Lake				3E-11	
Cadmium	Allen Lake				3E-10	
Cadmium	Neosho River				3E-10	
Cadmium	Sante Fe Lake				3E-10	
Chromium VI	Allen Lake				5E-10	
Chromium VI	Neosho River				5E-10	
Chromium VI	Sante Fe Lake				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Allen Lake	1E-08	0E+00	8E-09	2E-05	2E-08
Manganese	Neosho River	1E-08	0E+00	8E-09	2E-05	2E-08
Manganese	Sante Fe Lake	1E-08	0E+00	8E-09	2E-05	2E-08
Mercury (elemental)	Allen Lake				3E-05	
Mercury (elemental)	Neosho River				3E-05	
Mercury (elemental)	Sante Fe Lake				3E-05	
Mercury (divalent)	Allen Lake	9E-05		3E-06		9E-05
Mercury (divalent)	Neosho River	9E-05		3E-06		9E-05
Mercury (divalent)	Sante Fe Lake	9E-05		3E-06		9E-05
Nickel	Allen Lake	8E-09	3E-08	1E-08		5E-08
Nickel	Neosho River	8E-09	6E-10	1E-08		2E-08
Nickel	Sante Fe Lake	8E-09	3E-08	1E-08		6E-08
Silver	Allen Lake	5E-10	0E+00	3E-08		3E-08
Silver	Neosho River	5E-10	0E+00	3E-08		3E-08
Silver	Sante Fe Lake	5E-10	0E+00	3E-08		3E-08
Thallium	Allen Lake	6E-06	6E-04	3E-06		6E-04
Thallium	Neosho River	6E-06	1E-05	3E-06		2E-05
Thallium	Sante Fe Lake	6E-06	6E-04	3E-06		6E-04
Antimony	Allen Lake	2E-08	0E+00	3E-07		4E-07
Antimony	Neosho River	2E-08	0E+00	3E-07		4E-07
Antimony	Sante Fe Lake	2E-08	0E+00	3E-07		4E-07
Arsenic	Allen Lake	1E-05	2E-04	2E-05		2E-04
Arsenic	Neosho River	1E-05	3E-06	2E-05		3E-05
Arsenic	Sante Fe Lake	1E-05	2E-04	2E-05		2E-04
Barium	Allen Lake	8E-06	0E+00	8E-08	4E-05	8E-06
Barium	Neosho River	8E-06	0E+00	8E-08	4E-05	8E-06
Barium	Sante Fe Lake	8E-06	0E+00	8E-08	4E-05	8E-06
Beryllium	Allen Lake	1E-06	1E-06	2E-08		2E-06
Beryllium	Neosho River	1E-06	3E-08	2E-08		1E-06
Beryllium	Sante Fe Lake	1E-06	1E-06	2E-08		2E-06

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Allen Lake	7E-06	1E-03	4E-06		1E-03
Cadmium	Neosho River	7E-06	2E-05	4E-06		3E-05
Cadmium	Sante Fe Lake	7E-06	1E-03	4E-06		1E-03
Chromium VI	Allen Lake	4E-08	1E-07	8E-08		2E-07
Chromium VI	Neosho River	4E-08	3E-09	8E-08		1E-07
Chromium VI	Sante Fe Lake	4E-08	1E-07	8E-08		3E-07
Chromium III	Allen Lake	2E-07	4E-09	8E-12		2E-07
Chromium III	Neosho River	2E-07	2E-10	8E-12		2E-07
Chromium III	Sante Fe Lake	2E-07	3E-09	8E-12		2E-07
Cobalt	Allen Lake	2E-08	0E+00	8E-12		2E-08
Cobalt	Neosho River	2E-08	0E+00	8E-12		2E-08
Cobalt	Sante Fe Lake	2E-08	0E+00	8E-12		2E-08
Hydrogen Chloride	Allen Lake				3E-04	
Hydrogen Chloride	Neosho River				3E-04	
Hydrogen Chloride	Sante Fe Lake				3E-04	
Selenium	Allen Lake	5E-06	1E-01	4E-05		1E-01
Selenium	Neosho River	5E-06	2E-03	4E-05		2E-03
Selenium	Sante Fe Lake	5E-06	1E-01	4E-05		1E-01
Chlorine	Allen Lake				4E-03	
Chlorine	Neosho River				4E-03	
Chlorine	Sante Fe Lake				4E-03	
Methylmercury - Developmental Effects	Allen Lake	5E-06	4E-01	7E-08		4E-01
Methylmercury - Developmental Effects	Neosho River	5E-06	2E-02	7E-08		2E-02
Methylmercury - Developmental Effects	Sante Fe Lake	5E-06	9E-01	7E-08		9E-01
Methylmercury - Neurological Effects	Allen Lake	2E-06	1E-01	2E-08		1E-01
Methylmercury - Neurological Effects	Neosho River	2E-06	6E-03	2E-08		6E-03
Methylmercury - Neurological Effects	Sante Fe Lake	2E-06	3E-01	2E-08		3E-01

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Allen Lake	3E-09	8E-07	8E-12	2E-10	8E-07
2,3,7,8-TCDD-TEQ	Neosho River	3E-09	2E-08	8E-12	2E-10	2E-08
2,3,7,8-TCDD-TEQ	Sante Fe Lake	3E-09	1E-06	8E-12	2E-10	1E-06
Nickel	Allen Lake				5E-12	
Nickel	Neosho River				5E-12	
Nickel	Sante Fe Lake				5E-12	
Arsenic	Allen Lake	4E-10	7E-09	6E-10	1E-09	8E-09
Arsenic	Neosho River	4E-10	1E-10	6E-10	1E-09	1E-09
Arsenic	Sante Fe Lake	4E-10	7E-09	6E-10	1E-09	8E-09
Beryllium	Allen Lake				2E-11	
Beryllium	Neosho River				2E-11	
Beryllium	Sante Fe Lake				2E-11	
Cadmium	Allen Lake				2E-10	
Cadmium	Neosho River				2E-10	
Cadmium	Sante Fe Lake				2E-10	
Chromium VI	Allen Lake				3E-10	
Chromium VI	Neosho River				3E-10	
Chromium VI	Sante Fe Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Allen Lake	7E-09	0E+00	5E-09	2E-05	1E-08
Manganese	Neosho River	7E-09	0E+00	5E-09	2E-05	1E-08
Manganese	Sante Fe Lake	7E-09	0E+00	5E-09	2E-05	1E-08
Mercury (elemental)	Allen Lake				3E-05	
Mercury (elemental)	Neosho River				3E-05	
Mercury (elemental)	Sante Fe Lake				3E-05	
Mercury (divalent)	Allen Lake	5E-05		2E-06		5E-05
Mercury (divalent)	Neosho River	5E-05		2E-06		5E-05
Mercury (divalent)	Sante Fe Lake	5E-05		2E-06		5E-05
Nickel	Allen Lake	4E-09	2E-08	9E-09		4E-08
Nickel	Neosho River	4E-09	4E-10	9E-09		1E-08
Nickel	Sante Fe Lake	4E-09	2E-08	9E-09		4E-08
Silver	Allen Lake	2E-10	0E+00	2E-08		2E-08
Silver	Neosho River	2E-10	0E+00	2E-08		2E-08
Silver	Sante Fe Lake	2E-10	0E+00	2E-08		2E-08
Thallium	Allen Lake	3E-06	4E-04	2E-06		4E-04
Thallium	Neosho River	3E-06	8E-06	2E-06		1E-05
Thallium	Sante Fe Lake	3E-06	4E-04	2E-06		4E-04
Antimony	Allen Lake	1E-08	0E+00	2E-07		2E-07
Antimony	Neosho River	1E-08	0E+00	2E-07		2E-07
Antimony	Sante Fe Lake	1E-08	0E+00	2E-07		2E-07
Arsenic	Allen Lake	7E-06	1E-04	1E-05		1E-04
Arsenic	Neosho River	7E-06	2E-06	1E-05		2E-05
Arsenic	Sante Fe Lake	7E-06	1E-04	1E-05		1E-04
Barium	Allen Lake	4E-06	0E+00	5E-08	4E-05	4E-06
Barium	Neosho River	4E-06	0E+00	5E-08	4E-05	4E-06
Barium	Sante Fe Lake	4E-06	0E+00	5E-08	4E-05	4E-06
Beryllium	Allen Lake	5E-07	1E-06	1E-08		2E-06
Beryllium	Neosho River	5E-07	2E-08	1E-08		6E-07
Beryllium	Sante Fe Lake	5E-07	1E-06	1E-08		2E-06

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Allen Lake	3E-06	7E-04	3E-06		7E-04
Cadmium	Neosho River	3E-06	1E-05	3E-06		2E-05
Cadmium	Sante Fe Lake	3E-06	8E-04	3E-06		8E-04
Chromium VI	Allen Lake	2E-08	9E-08	5E-08		2E-07
Chromium VI	Neosho River	2E-08	2E-09	5E-08		7E-08
Chromium VI	Sante Fe Lake	2E-08	1E-07	5E-08		2E-07
Chromium III	Allen Lake	1E-07	3E-09	5E-12		1E-07
Chromium III	Neosho River	1E-07	1E-10	5E-12		1E-07
Chromium III	Sante Fe Lake	1E-07	2E-09	5E-12		1E-07
Cobalt	Allen Lake	9E-09	0E+00	9E-09		2E-08
Cobalt	Neosho River	9E-09	0E+00	9E-09		2E-08
Cobalt	Sante Fe Lake	9E-09	0E+00	9E-09		2E-08
Hydrogen Chloride	Allen Lake				3E-04	
Hydrogen Chloride	Neosho River				3E-04	
Hydrogen Chloride	Sante Fe Lake				3E-04	
Selenium	Allen Lake	3E-06	9E-02	2E-05		9E-02
Selenium	Neosho River	3E-06	2E-03	2E-05		2E-03
Selenium	Sante Fe Lake	3E-06	9E-02	2E-05		9E-02
Chlorine	Allen Lake				4E-03	
Chlorine	Neosho River				4E-03	
Chlorine	Sante Fe Lake				4E-03	
Methylmercury - Developmental Effects	Allen Lake	3E-06	3E-01	4E-08		3E-01
Methylmercury - Developmental Effects	Neosho River	3E-06	1E-02	4E-08		1E-02
Methylmercury - Developmental Effects	Sante Fe Lake	3E-06	7E-01	4E-08		7E-01
Methylmercury - Neurological Effects	Allen Lake	9E-07	1E-01	1E-08		1E-01
Methylmercury - Neurological Effects	Neosho River	9E-07	4E-03	1E-08		4E-03
Methylmercury - Neurological Effects	Sante Fe Lake	9E-07	2E-01	1E-08		2E-01

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Allen Lake	2E-09	1E-06	2E-11	3E-10	1E-06
2,3,7,8-TCDD-TEQ	Neosho River	2E-09	4E-08	2E-11	3E-10	4E-08
2,3,7,8-TCDD-TEQ	Sante Fe Lake	2E-09	2E-06	2E-11	3E-10	2E-06
Nickel	Allen Lake				7E-12	
Nickel	Neosho River				7E-12	
Nickel	Sante Fe Lake				7E-12	
Arsenic	Allen Lake	3E-10	1E-08	1E-09	2E-09	1E-08
Arsenic	Neosho River	3E-10	2E-10	1E-09	2E-09	2E-09
Arsenic	Sante Fe Lake	3E-10	1E-08	1E-09	2E-09	2E-08
Beryllium	Allen Lake				3E-11	
Beryllium	Neosho River				3E-11	
Beryllium	Sante Fe Lake				3E-11	
Cadmium	Allen Lake				3E-10	
Cadmium	Neosho River				3E-10	
Cadmium	Sante Fe Lake				3E-10	
Chromium VI	Allen Lake				4E-10	
Chromium VI	Neosho River				4E-10	
Chromium VI	Sante Fe Lake				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Allen Lake	3E-09	0E+00	6E-09	2E-05	9E-09
Manganese	Neosho River	3E-09	0E+00	6E-09	2E-05	9E-09
Manganese	Sante Fe Lake	3E-09	0E+00	6E-09	2E-05	9E-09
Mercury (elemental)	Allen Lake				3E-05	
Mercury (elemental)	Neosho River				3E-05	
Mercury (elemental)	Sante Fe Lake				3E-05	
Mercury (divalent)	Allen Lake	2E-05		3E-06		2E-05
Mercury (divalent)	Neosho River	2E-05		3E-06		2E-05
Mercury (divalent)	Sante Fe Lake	2E-05		3E-06		2E-05
Nickel	Allen Lake	2E-09	2E-08	1E-08		4E-08
Nickel	Neosho River	2E-09	4E-10	1E-08		1E-08
Nickel	Sante Fe Lake	2E-09	2E-08	1E-08		4E-08
Silver	Allen Lake	1E-10	0E+00	2E-08		2E-08
Silver	Neosho River	1E-10	0E+00	2E-08		2E-08
Silver	Sante Fe Lake	1E-10	0E+00	2E-08		2E-08
Thallium	Allen Lake	1E-06	4E-04	2E-06		4E-04
Thallium	Neosho River	1E-06	8E-06	2E-06		1E-05
Thallium	Sante Fe Lake	1E-06	4E-04	2E-06		4E-04
Antimony	Allen Lake	4E-09	0E+00	3E-07		3E-07
Antimony	Neosho River	4E-09	0E+00	3E-07		3E-07
Antimony	Sante Fe Lake	4E-09	0E+00	3E-07		3E-07
Arsenic	Allen Lake	3E-06	1E-04	1E-05		1E-04
Arsenic	Neosho River	3E-06	2E-06	1E-05		2E-05
Arsenic	Sante Fe Lake	3E-06	1E-04	1E-05		1E-04
Barium	Allen Lake	2E-06	0E+00	6E-08	4E-05	2E-06
Barium	Neosho River	2E-06	0E+00	6E-08	4E-05	2E-06
Barium	Sante Fe Lake	2E-06	0E+00	6E-08	4E-05	2E-06
Beryllium	Allen Lake	2E-07	1E-06	1E-08		1E-06
Beryllium	Neosho River	2E-07	2E-08	1E-08		2E-07
Beryllium	Sante Fe Lake	2E-07	1E-06	1E-08		1E-06

Table IX-B18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 401, 402) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Allen Lake	1E-06	7E-04	3E-06		7E-04
Cadmium	Neosho River	1E-06	1E-05	3E-06		2E-05
Cadmium	Sante Fe Lake	1E-06	8E-04	3E-06		8E-04
Chromium VI	Allen Lake	9E-09	9E-08	6E-08		2E-07
Chromium VI	Neosho River	9E-09	2E-09	6E-08		7E-08
Chromium VI	Sante Fe Lake	9E-09	1E-07	6E-08		2E-07
Chromium III	Allen Lake	5E-08	3E-09	6E-12		5E-08
Chromium III	Neosho River	5E-08	1E-10	6E-12		5E-08
Chromium III	Sante Fe Lake	5E-08	2E-09	6E-12		5E-08
Cobalt	Allen Lake	4E-09	0E+00	1E-08		1E-08
Cobalt	Neosho River	4E-09	0E+00	1E-08		1E-08
Cobalt	Sante Fe Lake	4E-09	0E+00	1E-08		1E-08
Hydrogen Chloride	Allen Lake				3E-04	
Hydrogen Chloride	Neosho River				3E-04	
Hydrogen Chloride	Sante Fe Lake				3E-04	
Selenium	Allen Lake	1E-06	9E-02	3E-05		9E-02
Selenium	Neosho River	1E-06	2E-03	3E-05		2E-03
Selenium	Sante Fe Lake	1E-06	9E-02	3E-05		9E-02
Chlorine	Allen Lake				4E-03	
Chlorine	Neosho River				4E-03	
Chlorine	Sante Fe Lake				4E-03	
Methylmercury - Developmental Effects	Allen Lake	1E-06	3E-01	5E-08		3E-01
Methylmercury - Developmental Effects	Neosho River	1E-06	1E-02	5E-08		1E-02
Methylmercury - Developmental Effects	Sante Fe Lake	1E-06	7E-01	5E-08		7E-01
Methylmercury - Neurological Effects	Allen Lake	4E-07	1E-01	2E-08		1E-01
Methylmercury - Neurological Effects	Neosho River	4E-07	4E-03	2E-08		4E-03
Methylmercury - Neurological Effects	Sante Fe Lake	4E-07	2E-01	2E-08		2E-01

Table IX-B19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-08	1E-09	3E-09	3E-09	5E-07	4E-06	1E-07	1E-06	7E-07	9E-07		1E-09	8E-06
Nickel												1E-10	
Arsenic	4E-10	1E-10	6E-11	3E-10	6E-10	1E-09	5E-11			2E-09		7E-10	5E-09
Beryllium												4E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	1E-07	5E-07	7E-08	4E-06	6E-09			0E+00		1E-04	5E-06
Mercury (elemental)												4E-05	
Mercury (divalent)	NA	1E-04	5E-05	2E-04	4E-04	4E-03	1E-06						5E-03
Nickel	4E-07	2E-07	9E-08	5E-07	4E-06	4E-05	3E-07			8E-07			5E-05
Silver	3E-09	3E-08	9E-09	8E-08	5E-07	2E-04	2E-08			0E+00			2E-04
Thallium	8E-04	6E-05	4E-06	2E-04	2E-02	5E-02	2E-03			3E-02			1E-01
Antimony	3E-07	9E-07	3E-07	2E-06	2E-06	1E-05	1E-07			0E+00			2E-05
Arsenic	9E-06	3E-06	2E-06	7E-06	1E-05	2E-05	1E-06			6E-05			1E-04
Barium	8E-06	8E-07	2E-07	2E-06	4E-07	5E-05	6E-08			0E+00		2E-05	6E-05
Beryllium	5E-06	6E-08	1E-08	1E-07	6E-07	3E-08	2E-07			4E-07			6E-06
Cadmium	5E-05	6E-05	3E-05	1E-04	5E-06	2E-05	9E-07			3E-03			3E-03
Chromium VI	2E-07	6E-08	3E-08	2E-07	2E-06	3E-05	1E-07			4E-07			3E-05
Chromium III	3E-07	3E-09	2E-09	6E-09	2E-07	2E-06	7E-08			3E-11			3E-06
Cobalt	2E-07	5E-08	3E-10	1E-07	4E-06	2E-05	3E-07			0E+00			3E-05
Hydrogen Chloride												4E-03	
Selenium	3E-07	2E-07	2E-07	4E-07	3E-06	2E-04	1E-05			4E-03			4E-03
Chlorine												3E-03	
Methylmercury - Developmental Effects	3E-05	3E-05	7E-06	3E-05	8E-05	1E-03	8E-08			2E-01			2E-01
Methylmercury - Neurological Effects	9E-06	1E-05	2E-06	1E-05	3E-05	4E-04	3E-08			7E-02			7E-02

Table IX-B19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	1E-09	3E-09	4E-09	8E-07	3E-06	1E-07	1E-06	8E-07	9E-07		1E-09	7E-06
Nickel												2E-10	
Arsenic	1E-10	1E-10	6E-11	4E-10	9E-10	7E-10	4E-11			2E-09		8E-10	5E-09
Beryllium												5E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	1E-07	1E-07	5E-07	9E-08	2E-06	4E-09			0E+00		1E-04	3E-06
Mercury (elemental)												4E-05	
Mercury (divalent)	NA	6E-05	4E-05	2E-04	5E-04	2E-03	7E-07						3E-03
Nickel	1E-07	1E-07	6E-08	4E-07	5E-06	2E-05	2E-07			6E-07			3E-05
Silver	7E-10	2E-08	6E-09	8E-08	5E-07	9E-05	1E-08			0E+00			9E-05
Thallium	2E-04	3E-05	3E-06	2E-04	2E-02	2E-02	1E-03			2E-02			7E-02
Antimony	7E-08	5E-07	2E-07	2E-06	3E-06	7E-06	6E-08			0E+00			1E-05
Arsenic	2E-06	2E-06	1E-06	7E-06	2E-05	1E-05	8E-07			4E-05			8E-05
Barium	2E-06	5E-07	1E-07	2E-06	5E-07	2E-05	4E-08			0E+00		2E-05	3E-05
Beryllium	1E-06	3E-08	9E-09	1E-07	7E-07	1E-08	1E-07			3E-07			3E-06
Cadmium	1E-05	3E-05	2E-05	1E-04	5E-06	8E-06	5E-07			2E-03			3E-03
Chromium VI	6E-08	3E-08	2E-08	1E-07	2E-06	2E-05	7E-08			3E-07			2E-05
Chromium III	7E-08	1E-09	1E-09	6E-09	2E-07	1E-06	4E-08			2E-11			1E-06
Cobalt	6E-08	3E-08	2E-10	1E-07	5E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												4E-03	
Selenium	7E-08	9E-08	1E-07	4E-07	3E-06	1E-04	7E-06			3E-03			3E-03
Chlorine												3E-03	
Methylmercury - Developmental Effects	7E-06	2E-05	5E-06	3E-05	1E-04	6E-04	5E-08			2E-01			2E-01
Methylmercury - Neurological Effects	2E-06	6E-06	2E-06	1E-05	3E-05	2E-04	2E-08			5E-02			5E-02

Table IX-B19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	7E-10	2E-09	2E-09	4E-07	1E-06	7E-08	7E-07	4E-07	5E-07		8E-10	4E-06
Nickel												1E-10	
Arsenic	7E-11	8E-11	4E-11	2E-10	4E-10	3E-10	3E-11			1E-09		5E-10	2E-09
Beryllium												3E-11	
Cadmium												9E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	7E-08	3E-07	4E-08	8E-07	2E-09			0E+00		1E-04	1E-06
Mercury (elemental)												4E-05	
Mercury (divalent)	6E-05	4E-05	3E-05	1E-04	2E-04	1E-03	4E-07			0E+00			1E-03
Nickel	6E-08	9E-08	4E-08	2E-07	2E-06	1E-05	1E-07			3E-07			1E-05
Silver	4E-10	1E-08	4E-09	4E-08	3E-07	4E-05	7E-09			0E+00			4E-05
Thallium	1E-04	2E-05	2E-06	8E-05	9E-03	1E-02	8E-04			1E-02			3E-02
Antimony	4E-08	4E-07	1E-07	1E-06	1E-06	3E-06	4E-08			0E+00			6E-06
Arsenic	1E-06	1E-06	8E-07	4E-06	8E-06	6E-06	5E-07			2E-05			4E-05
Barium	1E-06	4E-07	1E-07	8E-07	2E-07	1E-05	2E-08			0E+00		2E-05	1E-05
Beryllium	7E-07	2E-08	6E-09	7E-08	3E-07	6E-09	9E-08			2E-07			1E-06
Cadmium	7E-06	3E-05	1E-05	6E-05	2E-06	4E-06	3E-07			1E-03			1E-03
Chromium VI	3E-08	2E-08	1E-08	8E-08	1E-06	7E-06	5E-08			1E-07			9E-06
Chromium III	4E-08	1E-09	1E-09	3E-09	1E-07	5E-07	3E-08			1E-11			7E-07
Cobalt	3E-08	2E-08	1E-10	6E-08	2E-06	5E-06	1E-07			0E+00			7E-06
Hydrogen Chloride												4E-03	
Selenium	4E-08	7E-08	1E-07	2E-07	2E-06	6E-05	4E-06			1E-03			2E-03
Chlorine												3E-03	
Methylmercury - Developmental Effects	4E-06	1E-05	3E-06	2E-05	5E-05	3E-04	3E-08			9E-02			9E-02
Methylmercury - Neurological Effects	1E-06	5E-06	1E-06	6E-06	2E-05	9E-05	1E-08			3E-02			3E-02

Table IX-B19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	2E-09	4E-09	4E-09	8E-07	1E-06	1E-07	1E-06	7E-07	1E-06		1E-09	5E-06
Nickel												2E-10	
Arsenic	5E-11	2E-10	8E-11	3E-10	9E-10	3E-10	5E-11			3E-09		7E-10	4E-09
Beryllium												5E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-07	8E-08	2E-07	4E-08	4E-07	2E-09			0E+00		1E-04	9E-07
Mercury (elemental)												4E-05	
Mercury (divalent)	3E-05	6E-05	3E-05	1E-04	2E-04	4E-04	4E-07			0E+00			9E-04
Nickel	2E-08	1E-07	5E-08	2E-07	3E-06	4E-06	9E-08			4E-07			8E-06
Silver	1E-10	2E-08	5E-09	4E-08	3E-07	2E-05	6E-09			0E+00			2E-05
Thallium	4E-05	3E-05	2E-06	7E-05	1E-02	5E-03	7E-04			1E-02			3E-02
Antimony	1E-08	5E-07	1E-07	9E-07	1E-06	1E-06	3E-08			0E+00			4E-06
Arsenic	5E-07	2E-06	1E-06	3E-06	9E-06	2E-06	4E-07			2E-05			4E-05
Barium	5E-07	5E-07	1E-07	8E-07	2E-07	5E-06	2E-08			0E+00		2E-05	7E-06
Beryllium	3E-07	3E-08	7E-09	7E-08	4E-07	3E-09	8E-08			2E-07			1E-06
Cadmium	3E-06	3E-05	2E-05	5E-05	3E-06	2E-06	3E-07			1E-03			2E-03
Chromium VI	1E-08	3E-08	2E-08	7E-08	1E-06	3E-06	4E-08			2E-07			5E-06
Chromium III	1E-08	1E-09	1E-09	3E-09	1E-07	2E-07	2E-08			1E-11			4E-07
Cobalt	1E-08	3E-08	2E-10	6E-08	2E-06	2E-06	1E-07			0E+00			5E-06
Hydrogen Chloride												4E-03	
Selenium	2E-08	9E-08	1E-07	2E-07	2E-06	2E-05	4E-06			2E-03			2E-03
Chlorine												3E-03	
Methylmercury - Developmental Effects	2E-06	2E-05	4E-06	2E-05	5E-05	1E-04	3E-08			1E-01			1E-01
Methylmercury - Neurological Effects	5E-07	7E-06	1E-06	5E-06	2E-05	4E-05	9E-09			3E-02			3E-02

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Walnut Bayou	6E-08	8E-07	0E+00	1E-09	9E-07
2,3,7,8-TCDD-TEQ	West Flat Creek	6E-08	1E-06	0E+00	1E-09	1E-06
2,3,7,8-TCDD-TEQ	Hamilton Lake	6E-08	3E-06	0E+00	1E-09	3E-06
Nickel	Walnut Bayou				1E-10	
Nickel	West Flat Creek				1E-10	
Nickel	Hamilton Lake				1E-10	
Arsenic	Walnut Bayou	4E-10	9E-10	0E+00	7E-10	1E-09
Arsenic	West Flat Creek	4E-10	1E-09	0E+00	7E-10	2E-09
Arsenic	Hamilton Lake	4E-10	1E-09	0E+00	7E-10	2E-09
Beryllium	Walnut Bayou				4E-11	
Beryllium	West Flat Creek				4E-11	
Beryllium	Hamilton Lake				4E-11	
Cadmium	Walnut Bayou				1E-09	
Cadmium	West Flat Creek				1E-09	
Cadmium	Hamilton Lake				1E-09	
Chromium VI	Walnut Bayou				7E-10	
Chromium VI	West Flat Creek				7E-10	
Chromium VI	Hamilton Lake				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Walnut Bayou	2E-07	0E+00	0E+00	1E-04	2E-07
Manganese	West Flat Creek	2E-07	0E+00	0E+00	1E-04	2E-07
Manganese	Hamilton Lake	2E-07	0E+00	0E+00	1E-04	2E-07
Mercury (elemental)	Walnut Bayou				4E-05	
Mercury (elemental)	West Flat Creek				4E-05	
Mercury (elemental)	Hamilton Lake				4E-05	
Mercury (divalent)	Walnut Bayou	5E-04		0E+00		5E-04
Mercury (divalent)	West Flat Creek	5E-04		0E+00		5E-04
Mercury (divalent)	Hamilton Lake	5E-04		0E+00		5E-04
Nickel	Walnut Bayou	4E-07	3E-07	0E+00		7E-07
Nickel	West Flat Creek	4E-07	5E-07	0E+00		9E-07
Nickel	Hamilton Lake	4E-07	4E-07	0E+00		8E-07
Silver	Walnut Bayou	3E-09	0E+00	0E+00		3E-09
Silver	West Flat Creek	3E-09	0E+00	0E+00		3E-09
Silver	Hamilton Lake	3E-09	0E+00	0E+00		3E-09
Thallium	Walnut Bayou	8E-04	2E-02	0E+00		2E-02
Thallium	West Flat Creek	8E-04	2E-02	0E+00		3E-02
Thallium	Hamilton Lake	8E-04	2E-02	0E+00		2E-02
Antimony	Walnut Bayou	3E-07	0E+00	0E+00		3E-07
Antimony	West Flat Creek	3E-07	0E+00	0E+00		3E-07
Antimony	Hamilton Lake	3E-07	0E+00	0E+00		3E-07
Arsenic	Walnut Bayou	9E-06	2E-05	0E+00		3E-05
Arsenic	West Flat Creek	9E-06	3E-05	0E+00		4E-05
Arsenic	Hamilton Lake	9E-06	3E-05	0E+00		4E-05
Barium	Walnut Bayou	8E-06	0E+00	0E+00	2E-05	8E-06
Barium	West Flat Creek	8E-06	0E+00	0E+00	2E-05	8E-06
Barium	Hamilton Lake	8E-06	0E+00	0E+00	2E-05	8E-06
Beryllium	Walnut Bayou	5E-06	7E-07	0E+00		6E-06
Beryllium	West Flat Creek	5E-06	1E-06	0E+00		6E-06
Beryllium	Hamilton Lake	5E-06	1E-06	0E+00		6E-06

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Walnut Bayou	5E-05	2E-03	0E+00		2E-03
Cadmium	West Flat Creek	5E-05	3E-03	0E+00		3E-03
Cadmium	Hamilton Lake	5E-05	2E-03	0E+00		2E-03
Chromium VI	Walnut Bayou	2E-07	1E-07	0E+00		3E-07
Chromium VI	West Flat Creek	2E-07	2E-07	0E+00		4E-07
Chromium VI	Hamilton Lake	2E-07	2E-07	0E+00		4E-07
Chromium III	Walnut Bayou	3E-07	6E-10	0E+00		3E-07
Chromium III	West Flat Creek	3E-07	2E-09	0E+00		3E-07
Chromium III	Hamilton Lake	3E-07	1E-09	0E+00		3E-07
Cobalt	Walnut Bayou	2E-07	0E+00	0E+00		2E-07
Cobalt	West Flat Creek	2E-07	0E+00	0E+00		2E-07
Cobalt	Hamilton Lake	2E-07	0E+00	0E+00		2E-07
Hydrogen Chloride	Walnut Bayou				4E-03	
Hydrogen Chloride	West Flat Creek				4E-03	
Hydrogen Chloride	Hamilton Lake				4E-03	
Selenium	Walnut Bayou	3E-07	1E-03	0E+00		1E-03
Selenium	West Flat Creek	3E-07	2E-03	0E+00		2E-03
Selenium	Hamilton Lake	3E-07	2E-03	0E+00		2E-03
Chlorine	Walnut Bayou				3E-03	
Chlorine	West Flat Creek				3E-03	
Chlorine	Hamilton Lake				3E-03	
Methylmercury - Developmental Effects	Walnut Bayou	3E-05	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	West Flat Creek	3E-05	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Hamilton Lake	3E-05	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Walnut Bayou	9E-06	5E-02	0E+00		5E-02
Methylmercury - Neurological Effects	West Flat Creek	9E-06	8E-02	0E+00		8E-02
Methylmercury - Neurological Effects	Hamilton Lake	9E-06	1E-01	0E+00		1E-01

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Walnut Bayou	2E-08	1E-06	0E+00	1E-09	1E-06
2,3,7,8-TCDD-TEQ	West Flat Creek	2E-08	2E-06	0E+00	1E-09	2E-06
2,3,7,8-TCDD-TEQ	Hamilton Lake	2E-08	4E-06	0E+00	1E-09	4E-06
Nickel	Walnut Bayou				2E-10	
Nickel	West Flat Creek				2E-10	
Nickel	Hamilton Lake				2E-10	
Arsenic	Walnut Bayou	1E-10	1E-09	0E+00	8E-10	1E-09
Arsenic	West Flat Creek	1E-10	2E-09	0E+00	8E-10	2E-09
Arsenic	Hamilton Lake	1E-10	2E-09	0E+00	8E-10	2E-09
Beryllium	Walnut Bayou				5E-11	
Beryllium	West Flat Creek				5E-11	
Beryllium	Hamilton Lake				5E-11	
Cadmium	Walnut Bayou				1E-09	
Cadmium	West Flat Creek				1E-09	
Cadmium	Hamilton Lake				1E-09	
Chromium VI	Walnut Bayou				7E-10	
Chromium VI	West Flat Creek				7E-10	
Chromium VI	Hamilton Lake				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Walnut Bayou	5E-08	0E+00	0E+00	1E-04	5E-08
Manganese	West Flat Creek	5E-08	0E+00	0E+00	1E-04	5E-08
Manganese	Hamilton Lake	5E-08	0E+00	0E+00	1E-04	5E-08
Mercury (elemental)	Walnut Bayou				4E-05	
Mercury (elemental)	West Flat Creek				4E-05	
Mercury (elemental)	Hamilton Lake				4E-05	
Mercury (divalent)	Walnut Bayou	1E-04		0E+00		1E-04
Mercury (divalent)	West Flat Creek	1E-04		0E+00		1E-04
Mercury (divalent)	Hamilton Lake	1E-04		0E+00		1E-04
Nickel	Walnut Bayou	1E-07	3E-07	0E+00		4E-07
Nickel	West Flat Creek	1E-07	5E-07	0E+00		6E-07
Nickel	Hamilton Lake	1E-07	4E-07	0E+00		5E-07
Silver	Walnut Bayou	7E-10	0E+00	0E+00		7E-10
Silver	West Flat Creek	7E-10	0E+00	0E+00		7E-10
Silver	Hamilton Lake	7E-10	0E+00	0E+00		7E-10
Thallium	Walnut Bayou	2E-04	2E-02	0E+00		2E-02
Thallium	West Flat Creek	2E-04	2E-02	0E+00		3E-02
Thallium	Hamilton Lake	2E-04	2E-02	0E+00		2E-02
Antimony	Walnut Bayou	7E-08	0E+00	0E+00		7E-08
Antimony	West Flat Creek	7E-08	0E+00	0E+00		7E-08
Antimony	Hamilton Lake	7E-08	0E+00	0E+00		7E-08
Arsenic	Walnut Bayou	2E-06	2E-05	0E+00		3E-05
Arsenic	West Flat Creek	2E-06	3E-05	0E+00		4E-05
Arsenic	Hamilton Lake	2E-06	3E-05	0E+00		3E-05
Barium	Walnut Bayou	2E-06	0E+00	0E+00	2E-05	2E-06
Barium	West Flat Creek	2E-06	0E+00	0E+00	2E-05	2E-06
Barium	Hamilton Lake	2E-06	0E+00	0E+00	2E-05	2E-06
Beryllium	Walnut Bayou	1E-06	7E-07	0E+00		2E-06
Beryllium	West Flat Creek	1E-06	1E-06	0E+00		3E-06
Beryllium	Hamilton Lake	1E-06	1E-06	0E+00		2E-06

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Walnut Bayou	1E-05	2E-03	0E+00		2E-03
Cadmium	West Flat Creek	1E-05	3E-03	0E+00		3E-03
Cadmium	Hamilton Lake	1E-05	2E-03	0E+00		2E-03
Chromium VI	Walnut Bayou	6E-08	1E-07	0E+00		2E-07
Chromium VI	West Flat Creek	6E-08	2E-07	0E+00		2E-07
Chromium VI	Hamilton Lake	6E-08	2E-07	0E+00		2E-07
Chromium III	Walnut Bayou	7E-08	6E-10	0E+00		7E-08
Chromium III	West Flat Creek	7E-08	2E-09	0E+00		7E-08
Chromium III	Hamilton Lake	7E-08	1E-09	0E+00		7E-08
Cobalt	Walnut Bayou	6E-08	0E+00	0E+00		6E-08
Cobalt	West Flat Creek	6E-08	0E+00	0E+00		6E-08
Cobalt	Hamilton Lake	6E-08	0E+00	0E+00		6E-08
Hydrogen Chloride	Walnut Bayou				4E-03	
Hydrogen Chloride	West Flat Creek				4E-03	
Hydrogen Chloride	Hamilton Lake				4E-03	
Selenium	Walnut Bayou	7E-08	1E-03	0E+00		1E-03
Selenium	West Flat Creek	7E-08	2E-03	0E+00		2E-03
Selenium	Hamilton Lake	7E-08	2E-03	0E+00		2E-03
Chlorine	Walnut Bayou				3E-03	
Chlorine	West Flat Creek				3E-03	
Chlorine	Hamilton Lake				3E-03	
Methylmercury - Developmental Effects	Walnut Bayou	7E-06	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	West Flat Creek	7E-06	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Hamilton Lake	7E-06	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Walnut Bayou	2E-06	5E-02	0E+00		5E-02
Methylmercury - Neurological Effects	West Flat Creek	2E-06	8E-02	0E+00		8E-02
Methylmercury - Neurological Effects	Hamilton Lake	2E-06	1E-01	0E+00		1E-01

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Walnut Bayou	1E-08	8E-07	0E+00	8E-10	8E-07
2,3,7,8-TCDD-TEQ	West Flat Creek	1E-08	1E-06	0E+00	8E-10	1E-06
2,3,7,8-TCDD-TEQ	Hamilton Lake	1E-08	3E-06	0E+00	8E-10	3E-06
Nickel	Walnut Bayou				1E-10	
Nickel	West Flat Creek				1E-10	
Nickel	Hamilton Lake				1E-10	
Arsenic	Walnut Bayou	7E-11	9E-10	0E+00	5E-10	1E-09
Arsenic	West Flat Creek	7E-11	1E-09	0E+00	5E-10	1E-09
Arsenic	Hamilton Lake	7E-11	1E-09	0E+00	5E-10	1E-09
Beryllium	Walnut Bayou				3E-11	
Beryllium	West Flat Creek				3E-11	
Beryllium	Hamilton Lake				3E-11	
Cadmium	Walnut Bayou				9E-10	
Cadmium	West Flat Creek				9E-10	
Cadmium	Hamilton Lake				9E-10	
Chromium VI	Walnut Bayou				5E-10	
Chromium VI	West Flat Creek				5E-10	
Chromium VI	Hamilton Lake				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Walnut Bayou	3E-08	0E+00	0E+00	1E-04	3E-08
Manganese	West Flat Creek	3E-08	0E+00	0E+00	1E-04	3E-08
Manganese	Hamilton Lake	3E-08	0E+00	0E+00	1E-04	3E-08
Mercury (elemental)	Walnut Bayou				4E-05	
Mercury (elemental)	West Flat Creek				4E-05	
Mercury (elemental)	Hamilton Lake				4E-05	
Mercury (divalent)	Walnut Bayou	6E-05		0E+00		6E-05
Mercury (divalent)	West Flat Creek	6E-05		0E+00		6E-05
Mercury (divalent)	Hamilton Lake	6E-05		0E+00		6E-05
Nickel	Walnut Bayou	6E-08	2E-07	0E+00		3E-07
Nickel	West Flat Creek	6E-08	4E-07	0E+00		4E-07
Nickel	Hamilton Lake	6E-08	3E-07	0E+00		4E-07
Silver	Walnut Bayou	4E-10	0E+00	0E+00		4E-10
Silver	West Flat Creek	4E-10	0E+00	0E+00		4E-10
Silver	Hamilton Lake	4E-10	0E+00	0E+00		4E-10
Thallium	Walnut Bayou	1E-04	1E-02	0E+00		1E-02
Thallium	West Flat Creek	1E-04	2E-02	0E+00		2E-02
Thallium	Hamilton Lake	1E-04	2E-02	0E+00		2E-02
Antimony	Walnut Bayou	4E-08	0E+00	0E+00		4E-08
Antimony	West Flat Creek	4E-08	0E+00	0E+00		4E-08
Antimony	Hamilton Lake	4E-08	0E+00	0E+00		4E-08
Arsenic	Walnut Bayou	1E-06	2E-05	0E+00		2E-05
Arsenic	West Flat Creek	1E-06	2E-05	0E+00		3E-05
Arsenic	Hamilton Lake	1E-06	2E-05	0E+00		2E-05
Barium	Walnut Bayou	1E-06	0E+00	0E+00	2E-05	1E-06
Barium	West Flat Creek	1E-06	0E+00	0E+00	2E-05	1E-06
Barium	Hamilton Lake	1E-06	0E+00	0E+00	2E-05	1E-06
Beryllium	Walnut Bayou	7E-07	5E-07	0E+00		1E-06
Beryllium	West Flat Creek	7E-07	1E-06	0E+00		2E-06
Beryllium	Hamilton Lake	7E-07	8E-07	0E+00		1E-06

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Walnut Bayou	7E-06	1E-03	0E+00		1E-03
Cadmium	West Flat Creek	7E-06	2E-03	0E+00		2E-03
Cadmium	Hamilton Lake	7E-06	2E-03	0E+00		2E-03
Chromium VI	Walnut Bayou	3E-08	9E-08	0E+00		1E-07
Chromium VI	West Flat Creek	3E-08	1E-07	0E+00		2E-07
Chromium VI	Hamilton Lake	3E-08	1E-07	0E+00		1E-07
Chromium III	Walnut Bayou	4E-08	4E-10	0E+00		4E-08
Chromium III	West Flat Creek	4E-08	1E-09	0E+00		4E-08
Chromium III	Hamilton Lake	4E-08	9E-10	0E+00		4E-08
Cobalt	Walnut Bayou	3E-08	0E+00	0E+00		3E-08
Cobalt	West Flat Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Hamilton Lake	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Walnut Bayou				4E-03	
Hydrogen Chloride	West Flat Creek				4E-03	
Hydrogen Chloride	Hamilton Lake				4E-03	
Selenium	Walnut Bayou	4E-08	1E-03	0E+00		1E-03
Selenium	West Flat Creek	4E-08	2E-03	0E+00		2E-03
Selenium	Hamilton Lake	4E-08	1E-03	0E+00		1E-03
Chlorine	Walnut Bayou				3E-03	
Chlorine	West Flat Creek				3E-03	
Chlorine	Hamilton Lake				3E-03	
Methylmercury - Developmental Effects	Walnut Bayou	4E-06	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	West Flat Creek	4E-06	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Hamilton Lake	4E-06	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Walnut Bayou	1E-06	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	West Flat Creek	1E-06	6E-02	0E+00		6E-02
Methylmercury - Neurological Effects	Hamilton Lake	1E-06	9E-02	0E+00		9E-02

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Walnut Bayou	8E-09	1E-06	0E+00	1E-09	1E-06
2,3,7,8-TCDD-TEQ	West Flat Creek	8E-09	3E-06	0E+00	1E-09	3E-06
2,3,7,8-TCDD-TEQ	Hamilton Lake	8E-09	5E-06	0E+00	1E-09	5E-06
Nickel	Walnut Bayou				2E-10	
Nickel	West Flat Creek				2E-10	
Nickel	Hamilton Lake				2E-10	
Arsenic	Walnut Bayou	5E-11	2E-09	0E+00	7E-10	2E-09
Arsenic	West Flat Creek	5E-11	3E-09	0E+00	7E-10	3E-09
Arsenic	Hamilton Lake	5E-11	2E-09	0E+00	7E-10	2E-09
Beryllium	Walnut Bayou				5E-11	
Beryllium	West Flat Creek				5E-11	
Beryllium	Hamilton Lake				5E-11	
Cadmium	Walnut Bayou				1E-09	
Cadmium	West Flat Creek				1E-09	
Cadmium	Hamilton Lake				1E-09	
Chromium VI	Walnut Bayou				7E-10	
Chromium VI	West Flat Creek				7E-10	
Chromium VI	Hamilton Lake				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Walnut Bayou	1E-08	0E+00	0E+00	1E-04	1E-08
Manganese	West Flat Creek	1E-08	0E+00	0E+00	1E-04	1E-08
Manganese	Hamilton Lake	1E-08	0E+00	0E+00	1E-04	1E-08
Mercury (elemental)	Walnut Bayou				4E-05	
Mercury (elemental)	West Flat Creek				4E-05	
Mercury (elemental)	Hamilton Lake				4E-05	
Mercury (divalent)	Walnut Bayou	3E-05		0E+00		3E-05
Mercury (divalent)	West Flat Creek	3E-05		0E+00		3E-05
Mercury (divalent)	Hamilton Lake	3E-05		0E+00		3E-05
Nickel	Walnut Bayou	2E-08	2E-07	0E+00		3E-07
Nickel	West Flat Creek	2E-08	4E-07	0E+00		4E-07
Nickel	Hamilton Lake	2E-08	3E-07	0E+00		3E-07
Silver	Walnut Bayou	1E-10	0E+00	0E+00		1E-10
Silver	West Flat Creek	1E-10	0E+00	0E+00		1E-10
Silver	Hamilton Lake	1E-10	0E+00	0E+00		1E-10
Thallium	Walnut Bayou	4E-05	1E-02	0E+00		1E-02
Thallium	West Flat Creek	4E-05	2E-02	0E+00		2E-02
Thallium	Hamilton Lake	4E-05	2E-02	0E+00		2E-02
Antimony	Walnut Bayou	1E-08	0E+00	0E+00		1E-08
Antimony	West Flat Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Hamilton Lake	1E-08	0E+00	0E+00		1E-08
Arsenic	Walnut Bayou	5E-07	2E-05	0E+00		2E-05
Arsenic	West Flat Creek	5E-07	2E-05	0E+00		3E-05
Arsenic	Hamilton Lake	5E-07	2E-05	0E+00		2E-05
Barium	Walnut Bayou	5E-07	0E+00	0E+00	2E-05	5E-07
Barium	West Flat Creek	5E-07	0E+00	0E+00	2E-05	5E-07
Barium	Hamilton Lake	5E-07	0E+00	0E+00	2E-05	5E-07
Beryllium	Walnut Bayou	3E-07	5E-07	0E+00		8E-07
Beryllium	West Flat Creek	3E-07	1E-06	0E+00		1E-06
Beryllium	Hamilton Lake	3E-07	8E-07	0E+00		1E-06

Table IX-B20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 403, 404, 228) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Walnut Bayou	3E-06	1E-03	0E+00		1E-03
Cadmium	West Flat Creek	3E-06	2E-03	0E+00		2E-03
Cadmium	Hamilton Lake	3E-06	2E-03	0E+00		2E-03
Chromium VI	Walnut Bayou	1E-08	9E-08	0E+00		1E-07
Chromium VI	West Flat Creek	1E-08	1E-07	0E+00		1E-07
Chromium VI	Hamilton Lake	1E-08	1E-07	0E+00		1E-07
Chromium III	Walnut Bayou	1E-08	4E-10	0E+00		1E-08
Chromium III	West Flat Creek	1E-08	1E-09	0E+00		2E-08
Chromium III	Hamilton Lake	1E-08	9E-10	0E+00		2E-08
Cobalt	Walnut Bayou	1E-08	0E+00	0E+00		1E-08
Cobalt	West Flat Creek	1E-08	0E+00	0E+00		1E-08
Cobalt	Hamilton Lake	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Walnut Bayou				4E-03	
Hydrogen Chloride	West Flat Creek				4E-03	
Hydrogen Chloride	Hamilton Lake				4E-03	
Selenium	Walnut Bayou	2E-08	1E-03	0E+00		1E-03
Selenium	West Flat Creek	2E-08	2E-03	0E+00		2E-03
Selenium	Hamilton Lake	2E-08	1E-03	0E+00		1E-03
Chlorine	Walnut Bayou				3E-03	
Chlorine	West Flat Creek				3E-03	
Chlorine	Hamilton Lake				3E-03	
Methylmercury - Developmental Effects	Walnut Bayou	2E-06	1E-01	0E+00		1E-01
Methylmercury - Developmental Effects	West Flat Creek	2E-06	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Hamilton Lake	2E-06	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Walnut Bayou	5E-07	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	West Flat Creek	5E-07	6E-02	0E+00		6E-02
Methylmercury - Neurological Effects	Hamilton Lake	5E-07	9E-02	0E+00		9E-02

Table IX-B21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	1E-10	2E-10	3E-10	7E-08	7E-07	1E-08	9E-08	5E-08	6E-08	5E-12	3E-10	1E-06
Nickel												1E-10	
Arsenic	7E-11	2E-11	9E-12	4E-11	9E-11	2E-10	9E-12			6E-10	7E-11	2E-10	1E-09
Beryllium												1E-10	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-08	8E-08	4E-08	2E-07	3E-08	1E-06	2E-09			0E+00	4E-08	9E-05	2E-06
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	1E-04	3E-05	3E-04	3E-04	3E-03	7E-07				2E-06		3E-03
Nickel	2E-07	6E-08	3E-08	1E-07	1E-06	1E-05	8E-08			5E-07	2E-07		1E-05
Silver	2E-09	2E-08	7E-09	5E-08	3E-07	1E-04	1E-08			0E+00	1E-07		1E-04
Thallium	5E-06	3E-07	2E-08	7E-07	8E-05	2E-04	1E-05			3E-04	2E-06		6E-04
Antimony	1E-06	4E-06	1E-06	9E-06	8E-06	5E-05	4E-07			0E+00	2E-05		9E-05
Arsenic	2E-06	5E-07	2E-07	1E-06	2E-06	4E-06	2E-07			2E-05	2E-06		3E-05
Barium	1E-05	1E-06	4E-07	3E-06	7E-07	9E-05	1E-07			0E+00	2E-07	1E-04	1E-04
Beryllium	2E-06	3E-08	6E-09	8E-08	3E-07	1E-08	1E-07			2E-07	4E-08		3E-06
Cadmium	4E-05	3E-05	1E-05	5E-05	3E-06	1E-05	6E-07			3E-03	2E-05		3E-03
Chromium VI	2E-07	5E-08	2E-08	1E-07	2E-06	3E-05	1E-07			6E-07	3E-07		3E-05
Chromium III	5E-08	5E-10	4E-10	1E-09	4E-08	5E-07	1E-08			6E-12	2E-12		6E-07
Cobalt	1E-07	2E-08	1E-10	4E-08	1E-06	7E-06	1E-07			0E+00	7E-08		9E-06
Hydrogen Chloride												2E-03	
Selenium	8E-07	5E-07	6E-07	1E-06	8E-06	7E-04	3E-05			2E-02	4E-06		2E-02
Chlorine												9E-05	
Methylmercury - Developmental Effects	2E-05	4E-05	4E-06	4E-05	1E-04	1E-03	5E-08			5E-02	7E-08		5E-02
Methylmercury - Neurological Effects	5E-06	1E-05	1E-06	1E-05	3E-05	5E-04	2E-08			2E-02	2E-08		2E-02

Table IX-B21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	1E-10	2E-10	4E-10	1E-07	5E-07	9E-09	9E-08	6E-08	6E-08	3E-12	3E-10	8E-07
Nickel												1E-10	
Arsenic	2E-11	1E-11	8E-12	5E-11	1E-10	1E-10	7E-12			6E-10	5E-11	3E-10	1E-09
Beryllium												1E-10	
Cadmium												3E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	2E-07	3E-08	7E-07	1E-09			0E+00	2E-08	9E-05	1E-06
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	7E-05	2E-05	3E-04	3E-04	1E-03	4E-07				1E-06		2E-03
Nickel	4E-08	3E-08	2E-08	1E-07	1E-06	6E-06	5E-08			4E-07	1E-07		8E-06
Silver	6E-10	1E-08	5E-09	5E-08	3E-07	5E-05	6E-09			0E+00	7E-08		5E-05
Thallium	1E-06	1E-07	1E-08	7E-07	9E-05	1E-04	7E-06			2E-04	1E-06		4E-04
Antimony	3E-07	2E-06	9E-07	8E-06	9E-06	2E-05	2E-07			0E+00	1E-05		6E-05
Arsenic	4E-07	3E-07	2E-07	1E-06	3E-06	2E-06	1E-07			1E-05	9E-07		2E-05
Barium	4E-06	8E-07	3E-07	3E-06	8E-07	4E-05	6E-08			0E+00	9E-08	1E-04	5E-05
Beryllium	6E-07	2E-08	4E-09	7E-08	4E-07	7E-09	7E-08			2E-07	2E-08		1E-06
Cadmium	1E-05	2E-05	9E-06	5E-05	3E-06	5E-06	3E-07			2E-03	9E-06		2E-03
Chromium VI	6E-08	3E-08	2E-08	1E-07	2E-06	1E-05	7E-08			5E-07	2E-07		2E-05
Chromium III	1E-08	3E-10	3E-10	1E-09	4E-08	2E-07	8E-09			5E-12	1E-12		3E-07
Cobalt	3E-08	9E-09	7E-11	4E-08	2E-06	4E-06	8E-08			0E+00	4E-08		5E-06
Hydrogen Chloride												2E-03	
Selenium	2E-07	3E-07	4E-07	1E-06	1E-05	4E-04	2E-05			1E-02	2E-06		1E-02
Chlorine												9E-05	
Methylmercury - Developmental Effects	4E-06	2E-05	3E-06	4E-05	1E-04	7E-04	3E-08			4E-02	4E-08		4E-02
Methylmercury - Neurological Effects	1E-06	8E-06	9E-07	1E-05	4E-05	2E-04	1E-08			1E-02	1E-08		1E-02

Table IX-B21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-10	9E-11	1E-10	2E-10	5E-08	2E-07	6E-09	5E-08	3E-08	3E-08	2E-12	2E-10	4E-07
Nickel												8E-11	
Arsenic	1E-11	1E-11	6E-12	3E-11	7E-11	5E-11	5E-12			3E-10	3E-11	2E-10	6E-10
Beryllium												8E-11	
Cadmium												2E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	3E-08	2E-08	8E-08	1E-08	3E-07	1E-09			0E+00	1E-08	9E-05	5E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	4E-05	6E-05	1E-05	1E-04	1E-04	6E-04	3E-07			0E+00	7E-07		1E-03
Nickel	2E-08	2E-08	1E-08	7E-08	6E-07	3E-06	3E-08			2E-07	8E-08		4E-06
Silver	3E-10	9E-09	3E-09	2E-08	1E-07	2E-05	4E-09			0E+00	5E-08		2E-05
Thallium	7E-07	1E-07	9E-09	4E-07	4E-05	5E-05	4E-06			1E-04	7E-07		2E-04
Antimony	2E-07	2E-06	6E-07	4E-06	4E-06	1E-05	1E-07			0E+00	7E-06		3E-05
Arsenic	2E-07	2E-07	1E-07	5E-07	1E-06	9E-07	9E-08			6E-06	6E-07		1E-05
Barium	2E-06	6E-07	2E-07	1E-06	4E-07	2E-05	4E-08			0E+00	6E-08	1E-04	2E-05
Beryllium	3E-07	1E-08	3E-09	4E-08	2E-07	3E-09	5E-08			9E-08	1E-08		7E-07
Cadmium	5E-06	1E-05	7E-06	3E-05	2E-06	2E-06	2E-07			1E-03	6E-06		1E-03
Chromium VI	3E-08	2E-08	1E-08	7E-08	9E-07	6E-06	4E-08			2E-07	1E-07		7E-06
Chromium III	7E-09	2E-10	2E-10	7E-10	2E-08	1E-07	5E-09			3E-12	7E-13		1E-07
Cobalt	1E-08	7E-09	5E-11	2E-08	7E-07	2E-06	5E-08			0E+00	2E-08		2E-06
Hydrogen Chloride												2E-03	
Selenium	1E-07	2E-07	3E-07	6E-07	5E-06	2E-04	1E-05			7E-03	1E-06		7E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	2E-06	2E-05	2E-06	2E-05	5E-05	3E-04	2E-08			2E-02	3E-08		2E-02
Methylmercury - Neurological Effects	7E-07	6E-06	7E-07	7E-06	2E-05	1E-04	7E-09			7E-03	9E-09		7E-03

Table IX-B21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	2E-10	2E-10	4E-10	1E-07	2E-07	9E-09	9E-08	5E-08	7E-08	5E-12	3E-10	5E-07
Nickel												1E-10	
Arsenic	1E-11	2E-11	1E-11	4E-11	1E-10	4E-11	8E-12			7E-10	7E-11	3E-10	1E-09
Beryllium												1E-10	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-09	5E-08	2E-08	7E-08	2E-08	1E-07	8E-10			0E+00	2E-08	9E-05	3E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	1E-05	7E-05	2E-05	1E-04	2E-04	3E-04	2E-07			0E+00	8E-07		7E-04
Nickel	9E-09	3E-08	1E-08	6E-08	7E-07	1E-06	3E-08			2E-07	9E-08		2E-06
Silver	1E-10	1E-08	4E-09	2E-08	2E-07	1E-05	3E-09			0E+00	5E-08		1E-05
Thallium	3E-07	1E-07	1E-08	3E-07	5E-05	2E-05	4E-06			1E-04	9E-07		2E-04
Antimony	7E-08	2E-06	7E-07	4E-06	5E-06	5E-06	1E-07			0E+00	8E-06		3E-05
Arsenic	9E-08	3E-07	1E-07	5E-07	1E-06	4E-07	8E-08			7E-06	7E-07		1E-05
Barium	8E-07	8E-07	2E-07	1E-06	4E-07	9E-06	4E-08			0E+00	7E-08	1E-04	1E-05
Beryllium	1E-07	2E-08	4E-09	4E-08	2E-07	1E-09	4E-08			9E-08	2E-08		6E-07
Cadmium	2E-06	2E-05	8E-06	3E-05	2E-06	1E-06	2E-07			1E-03	6E-06		1E-03
Chromium VI	1E-08	3E-08	1E-08	6E-08	1E-06	3E-06	4E-08			3E-07	1E-07		4E-06
Chromium III	3E-09	3E-10	2E-10	7E-10	2E-08	5E-08	5E-09			3E-12	9E-13		8E-08
Cobalt	6E-09	9E-09	5E-11	2E-08	8E-07	7E-07	5E-08			0E+00	3E-08		2E-06
Hydrogen Chloride												2E-03	
Selenium	4E-08	3E-07	3E-07	6E-07	5E-06	8E-05	1E-05			8E-03	2E-06		8E-03
Chlorine												9E-05	
Methylmercury - Developmental Effects	9E-07	3E-05	2E-06	2E-05	6E-05	1E-04	2E-08			2E-02	3E-08		2E-02
Methylmercury - Neurological Effects	3E-07	8E-06	8E-07	7E-06	2E-05	5E-05	6E-09			7E-03	1E-08		7E-03

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fall River	4E-09	1E-08	5E-12	3E-10	1E-08
2,3,7,8-TCDD-TEQ	Salt Creek	4E-09	4E-08	5E-12	3E-10	4E-08
2,3,7,8-TCDD-TEQ	Verdigris River	4E-09	2E-08	5E-12	3E-10	2E-08
Nickel	Fall River				1E-10	
Nickel	Salt Creek				1E-10	
Nickel	Verdigris River				1E-10	
Arsenic	Fall River	7E-11	7E-12	7E-11	2E-10	1E-10
Arsenic	Salt Creek	7E-11	2E-11	7E-11	2E-10	2E-10
Arsenic	Verdigris River	7E-11	1E-11	7E-11	2E-10	1E-10
Beryllium	Fall River				1E-10	
Beryllium	Salt Creek				1E-10	
Beryllium	Verdigris River				1E-10	
Cadmium	Fall River				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Verdigris River				2E-09	
Chromium VI	Fall River				3E-09	
Chromium VI	Salt Creek				3E-09	
Chromium VI	Verdigris River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Fall River	9E-08	0E+00	4E-08	9E-05	1E-07
Manganese	Salt Creek	9E-08	0E+00	4E-08	9E-05	1E-07
Manganese	Verdigris River	9E-08	0E+00	4E-08	9E-05	1E-07
Mercury (elemental)	Fall River				5E-05	
Mercury (elemental)	Salt Creek				5E-05	
Mercury (elemental)	Verdigris River				5E-05	
Mercury (divalent)	Fall River	3E-04		2E-06		3E-04
Mercury (divalent)	Salt Creek	3E-04		2E-06		3E-04
Mercury (divalent)	Verdigris River	3E-04		2E-06		3E-04
Nickel	Fall River	2E-07	5E-09	2E-07		4E-07
Nickel	Salt Creek	2E-07	1E-08	2E-07		4E-07
Nickel	Verdigris River	2E-07	1E-08	2E-07		4E-07
Silver	Fall River	2E-09	0E+00	1E-07		1E-07
Silver	Salt Creek	2E-09	0E+00	1E-07		1E-07
Silver	Verdigris River	2E-09	0E+00	1E-07		1E-07
Thallium	Fall River	5E-06	4E-06	2E-06		1E-05
Thallium	Salt Creek	5E-06	1E-05	2E-06		2E-05
Thallium	Verdigris River	5E-06	9E-06	2E-06		2E-05
Antimony	Fall River	1E-06	0E+00	2E-05		2E-05
Antimony	Salt Creek	1E-06	0E+00	2E-05		2E-05
Antimony	Verdigris River	1E-06	0E+00	2E-05		2E-05
Arsenic	Fall River	2E-06	2E-07	2E-06		3E-06
Arsenic	Salt Creek	2E-06	5E-07	2E-06		4E-06
Arsenic	Verdigris River	2E-06	4E-07	2E-06		4E-06
Barium	Fall River	1E-05	0E+00	2E-07	1E-04	1E-05
Barium	Salt Creek	1E-05	0E+00	2E-07	1E-04	1E-05
Barium	Verdigris River	1E-05	0E+00	2E-07	1E-04	1E-05
Beryllium	Fall River	2E-06	4E-08	4E-08		3E-06
Beryllium	Salt Creek	2E-06	2E-07	4E-08		3E-06
Beryllium	Verdigris River	2E-06	8E-08	4E-08		3E-06

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Fall River	4E-05	4E-05	2E-05		1E-04
Cadmium	Salt Creek	4E-05	1E-04	2E-05		2E-04
Cadmium	Verdigris River	4E-05	1E-04	2E-05		2E-04
Chromium VI	Fall River	2E-07	5E-09	3E-07		5E-07
Chromium VI	Salt Creek	2E-07	1E-08	3E-07		5E-07
Chromium VI	Verdigris River	2E-07	1E-08	3E-07		5E-07
Chromium III	Fall River	5E-08	2E-11	2E-12		5E-08
Chromium III	Salt Creek	5E-08	1E-10	2E-12		5E-08
Chromium III	Verdigris River	5E-08	4E-11	2E-12		5E-08
Cobalt	Fall River	1E-07	0E+00	2E-12		1E-07
Cobalt	Salt Creek	1E-07	0E+00	2E-12		1E-07
Cobalt	Verdigris River	1E-07	0E+00	2E-12		1E-07
Hydrogen Chloride	Fall River				2E-03	
Hydrogen Chloride	Salt Creek				2E-03	
Hydrogen Chloride	Verdigris River				2E-03	
Selenium	Fall River	8E-07	1E-04	4E-06		1E-04
Selenium	Salt Creek	8E-07	4E-04	4E-06		4E-04
Selenium	Verdigris River	8E-07	3E-04	4E-06		3E-04
Chlorine	Fall River				9E-05	
Chlorine	Salt Creek				9E-05	
Chlorine	Verdigris River				9E-05	
Methylmercury - Developmental Effects	Fall River	2E-05	1E-02	7E-08		1E-02
Methylmercury - Developmental Effects	Salt Creek	2E-05	4E-02	7E-08		4E-02
Methylmercury - Developmental Effects	Verdigris River	2E-05	1E-02	7E-08		2E-02
Methylmercury - Neurological Effects	Fall River	5E-06	4E-03	2E-08		4E-03
Methylmercury - Neurological Effects	Salt Creek	5E-06	1E-02	2E-08		1E-02
Methylmercury - Neurological Effects	Verdigris River	5E-06	5E-03	2E-08		5E-03

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fall River	2E-09	1E-08	3E-12	3E-10	2E-08
2,3,7,8-TCDD-TEQ	Salt Creek	2E-09	5E-08	3E-12	3E-10	5E-08
2,3,7,8-TCDD-TEQ	Verdigris River	2E-09	3E-08	3E-12	3E-10	3E-08
Nickel	Fall River				1E-10	
Nickel	Salt Creek				1E-10	
Nickel	Verdigris River				1E-10	
Arsenic	Fall River	2E-11	9E-12	5E-11	3E-10	8E-11
Arsenic	Salt Creek	2E-11	2E-11	5E-11	3E-10	1E-10
Arsenic	Verdigris River	2E-11	2E-11	5E-11	3E-10	9E-11
Beryllium	Fall River				1E-10	
Beryllium	Salt Creek				1E-10	
Beryllium	Verdigris River				1E-10	
Cadmium	Fall River				3E-09	
Cadmium	Salt Creek				3E-09	
Cadmium	Verdigris River				3E-09	
Chromium VI	Fall River				3E-09	
Chromium VI	Salt Creek				3E-09	
Chromium VI	Verdigris River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Fall River	2E-08	0E+00	2E-08	9E-05	5E-08
Manganese	Salt Creek	2E-08	0E+00	2E-08	9E-05	5E-08
Manganese	Verdigris River	2E-08	0E+00	2E-08	9E-05	5E-08
Mercury (elemental)	Fall River				5E-05	
Mercury (elemental)	Salt Creek				5E-05	
Mercury (elemental)	Verdigris River				5E-05	
Mercury (divalent)	Fall River	7E-05		1E-06		7E-05
Mercury (divalent)	Salt Creek	7E-05		1E-06		7E-05
Mercury (divalent)	Verdigris River	7E-05		1E-06		7E-05
Nickel	Fall River	4E-08	5E-09	1E-07		2E-07
Nickel	Salt Creek	4E-08	1E-08	1E-07		2E-07
Nickel	Verdigris River	4E-08	1E-08	1E-07		2E-07
Silver	Fall River	6E-10	0E+00	7E-08		7E-08
Silver	Salt Creek	6E-10	0E+00	7E-08		7E-08
Silver	Verdigris River	6E-10	0E+00	7E-08		7E-08
Thallium	Fall River	1E-06	4E-06	1E-06		7E-06
Thallium	Salt Creek	1E-06	1E-05	1E-06		1E-05
Thallium	Verdigris River	1E-06	9E-06	1E-06		1E-05
Antimony	Fall River	3E-07	0E+00	1E-05		1E-05
Antimony	Salt Creek	3E-07	0E+00	1E-05		1E-05
Antimony	Verdigris River	3E-07	0E+00	1E-05		1E-05
Arsenic	Fall River	4E-07	2E-07	9E-07		2E-06
Arsenic	Salt Creek	4E-07	5E-07	9E-07		2E-06
Arsenic	Verdigris River	4E-07	4E-07	9E-07		2E-06
Barium	Fall River	4E-06	0E+00	9E-08	1E-04	4E-06
Barium	Salt Creek	4E-06	0E+00	9E-08	1E-04	4E-06
Barium	Verdigris River	4E-06	0E+00	9E-08	1E-04	4E-06
Beryllium	Fall River	6E-07	4E-08	2E-08		7E-07
Beryllium	Salt Creek	6E-07	2E-07	2E-08		8E-07
Beryllium	Verdigris River	6E-07	8E-08	2E-08		7E-07

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Fall River	1E-05	4E-05	9E-06		6E-05
Cadmium	Salt Creek	1E-05	1E-04	9E-06		1E-04
Cadmium	Verdigris River	1E-05	1E-04	9E-06		1E-04
Chromium VI	Fall River	6E-08	5E-09	2E-07		2E-07
Chromium VI	Salt Creek	6E-08	1E-08	2E-07		2E-07
Chromium VI	Verdigris River	6E-08	1E-08	2E-07		2E-07
Chromium III	Fall River	1E-08	2E-11	1E-12		1E-08
Chromium III	Salt Creek	1E-08	1E-10	1E-12		1E-08
Chromium III	Verdigris River	1E-08	4E-11	1E-12		1E-08
Cobalt	Fall River	3E-08	0E+00	1E-12		3E-08
Cobalt	Salt Creek	3E-08	0E+00	1E-12		3E-08
Cobalt	Verdigris River	3E-08	0E+00	1E-12		3E-08
Hydrogen Chloride	Fall River				2E-03	
Hydrogen Chloride	Salt Creek				2E-03	
Hydrogen Chloride	Verdigris River				2E-03	
Selenium	Fall River	2E-07	1E-04	2E-06		1E-04
Selenium	Salt Creek	2E-07	4E-04	2E-06		4E-04
Selenium	Verdigris River	2E-07	3E-04	2E-06		3E-04
Chlorine	Fall River				9E-05	
Chlorine	Salt Creek				9E-05	
Chlorine	Verdigris River				9E-05	
Methylmercury - Developmental Effects	Fall River	4E-06	1E-02	4E-08		1E-02
Methylmercury - Developmental Effects	Salt Creek	4E-06	4E-02	4E-08		4E-02
Methylmercury - Developmental Effects	Verdigris River	4E-06	1E-02	4E-08		2E-02
Methylmercury - Neurological Effects	Fall River	1E-06	4E-03	1E-08		4E-03
Methylmercury - Neurological Effects	Salt Creek	1E-06	1E-02	1E-08		1E-02
Methylmercury - Neurological Effects	Verdigris River	1E-06	5E-03	1E-08		5E-03

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fall River	8E-10	1E-08	2E-12	2E-10	1E-08
2,3,7,8-TCDD-TEQ	Salt Creek	8E-10	4E-08	2E-12	2E-10	4E-08
2,3,7,8-TCDD-TEQ	Verdigris River	8E-10	2E-08	2E-12	2E-10	2E-08
Nickel	Fall River				8E-11	
Nickel	Salt Creek				8E-11	
Nickel	Verdigris River				8E-11	
Arsenic	Fall River	1E-11	7E-12	3E-11	2E-10	5E-11
Arsenic	Salt Creek	1E-11	2E-11	3E-11	2E-10	6E-11
Arsenic	Verdigris River	1E-11	1E-11	3E-11	2E-10	6E-11
Beryllium	Fall River				8E-11	
Beryllium	Salt Creek				8E-11	
Beryllium	Verdigris River				8E-11	
Cadmium	Fall River				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Verdigris River				2E-09	
Chromium VI	Fall River				2E-09	
Chromium VI	Salt Creek				2E-09	
Chromium VI	Verdigris River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Fall River	1E-08	0E+00	1E-08	9E-05	3E-08
Manganese	Salt Creek	1E-08	0E+00	1E-08	9E-05	3E-08
Manganese	Verdigris River	1E-08	0E+00	1E-08	9E-05	3E-08
Mercury (elemental)	Fall River				5E-05	
Mercury (elemental)	Salt Creek				5E-05	
Mercury (elemental)	Verdigris River				5E-05	
Mercury (divalent)	Fall River	4E-05		7E-07		4E-05
Mercury (divalent)	Salt Creek	4E-05		7E-07		4E-05
Mercury (divalent)	Verdigris River	4E-05		7E-07		4E-05
Nickel	Fall River	2E-08	4E-09	8E-08		1E-07
Nickel	Salt Creek	2E-08	1E-08	8E-08		1E-07
Nickel	Verdigris River	2E-08	8E-09	8E-08		1E-07
Silver	Fall River	3E-10	0E+00	5E-08		5E-08
Silver	Salt Creek	3E-10	0E+00	5E-08		5E-08
Silver	Verdigris River	3E-10	0E+00	5E-08		5E-08
Thallium	Fall River	7E-07	3E-06	7E-07		4E-06
Thallium	Salt Creek	7E-07	8E-06	7E-07		9E-06
Thallium	Verdigris River	7E-07	6E-06	7E-07		8E-06
Antimony	Fall River	2E-07	0E+00	7E-06		7E-06
Antimony	Salt Creek	2E-07	0E+00	7E-06		7E-06
Antimony	Verdigris River	2E-07	0E+00	7E-06		7E-06
Arsenic	Fall River	2E-07	1E-07	6E-07		9E-07
Arsenic	Salt Creek	2E-07	3E-07	6E-07		1E-06
Arsenic	Verdigris River	2E-07	3E-07	6E-07		1E-06
Barium	Fall River	2E-06	0E+00	6E-08	1E-04	2E-06
Barium	Salt Creek	2E-06	0E+00	6E-08	1E-04	2E-06
Barium	Verdigris River	2E-06	0E+00	6E-08	1E-04	2E-06
Beryllium	Fall River	3E-07	3E-08	1E-08		4E-07
Beryllium	Salt Creek	3E-07	1E-07	1E-08		5E-07
Beryllium	Verdigris River	3E-07	6E-08	1E-08		4E-07

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Fall River	5E-06	3E-05	6E-06		4E-05
Cadmium	Salt Creek	5E-06	9E-05	6E-06		1E-04
Cadmium	Verdigris River	5E-06	8E-05	6E-06		9E-05
Chromium VI	Fall River	3E-08	4E-09	1E-07		1E-07
Chromium VI	Salt Creek	3E-08	1E-08	1E-07		1E-07
Chromium VI	Verdigris River	3E-08	9E-09	1E-07		1E-07
Chromium III	Fall River	7E-09	2E-11	7E-13		7E-09
Chromium III	Salt Creek	7E-09	7E-11	7E-13		7E-09
Chromium III	Verdigris River	7E-09	3E-11	7E-13		7E-09
Cobalt	Fall River	1E-08	0E+00	2E-08		4E-08
Cobalt	Salt Creek	1E-08	0E+00	2E-08		4E-08
Cobalt	Verdigris River	1E-08	0E+00	2E-08		4E-08
Hydrogen Chloride	Fall River				2E-03	
Hydrogen Chloride	Salt Creek				2E-03	
Hydrogen Chloride	Verdigris River				2E-03	
Selenium	Fall River	1E-07	1E-04	1E-06		1E-04
Selenium	Salt Creek	1E-07	3E-04	1E-06		3E-04
Selenium	Verdigris River	1E-07	2E-04	1E-06		2E-04
Chlorine	Fall River				9E-05	
Chlorine	Salt Creek				9E-05	
Chlorine	Verdigris River				9E-05	
Methylmercury - Developmental Effects	Fall River	2E-06	8E-03	3E-08		8E-03
Methylmercury - Developmental Effects	Salt Creek	2E-06	3E-02	3E-08		3E-02
Methylmercury - Developmental Effects	Verdigris River	2E-06	1E-02	3E-08		1E-02
Methylmercury - Neurological Effects	Fall River	7E-07	3E-03	9E-09		3E-03
Methylmercury - Neurological Effects	Salt Creek	7E-07	1E-02	9E-09		1E-02
Methylmercury - Neurological Effects	Verdigris River	7E-07	4E-03	9E-09		4E-03

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Fall River	6E-10	2E-08	5E-12	3E-10	2E-08
2,3,7,8-TCDD-TEQ	Salt Creek	6E-10	7E-08	5E-12	3E-10	7E-08
2,3,7,8-TCDD-TEQ	Verdigris River	6E-10	3E-08	5E-12	3E-10	3E-08
Nickel	Fall River				1E-10	
Nickel	Salt Creek				1E-10	
Nickel	Verdigris River				1E-10	
Arsenic	Fall River	1E-11	1E-11	7E-11	3E-10	1E-10
Arsenic	Salt Creek	1E-11	3E-11	7E-11	3E-10	1E-10
Arsenic	Verdigris River	1E-11	3E-11	7E-11	3E-10	1E-10
Beryllium	Fall River				1E-10	
Beryllium	Salt Creek				1E-10	
Beryllium	Verdigris River				1E-10	
Cadmium	Fall River				2E-09	
Cadmium	Salt Creek				2E-09	
Cadmium	Verdigris River				2E-09	
Chromium VI	Fall River				3E-09	
Chromium VI	Salt Creek				3E-09	
Chromium VI	Verdigris River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Fall River	5E-09	0E+00	2E-08	9E-05	2E-08
Manganese	Salt Creek	5E-09	0E+00	2E-08	9E-05	2E-08
Manganese	Verdigris River	5E-09	0E+00	2E-08	9E-05	2E-08
Mercury (elemental)	Fall River				5E-05	
Mercury (elemental)	Salt Creek				5E-05	
Mercury (elemental)	Verdigris River				5E-05	
Mercury (divalent)	Fall River	1E-05		8E-07		2E-05
Mercury (divalent)	Salt Creek	1E-05		8E-07		2E-05
Mercury (divalent)	Verdigris River	1E-05		8E-07		2E-05
Nickel	Fall River	9E-09	4E-09	9E-08		1E-07
Nickel	Salt Creek	9E-09	1E-08	9E-08		1E-07
Nickel	Verdigris River	9E-09	8E-09	9E-08		1E-07
Silver	Fall River	1E-10	0E+00	5E-08		5E-08
Silver	Salt Creek	1E-10	0E+00	5E-08		5E-08
Silver	Verdigris River	1E-10	0E+00	5E-08		5E-08
Thallium	Fall River	3E-07	3E-06	9E-07		4E-06
Thallium	Salt Creek	3E-07	8E-06	9E-07		9E-06
Thallium	Verdigris River	3E-07	6E-06	9E-07		7E-06
Antimony	Fall River	7E-08	0E+00	8E-06		9E-06
Antimony	Salt Creek	7E-08	0E+00	8E-06		9E-06
Antimony	Verdigris River	7E-08	0E+00	8E-06		9E-06
Arsenic	Fall River	9E-08	1E-07	7E-07		9E-07
Arsenic	Salt Creek	9E-08	3E-07	7E-07		1E-06
Arsenic	Verdigris River	9E-08	3E-07	7E-07		1E-06
Barium	Fall River	8E-07	0E+00	7E-08	1E-04	9E-07
Barium	Salt Creek	8E-07	0E+00	7E-08	1E-04	9E-07
Barium	Verdigris River	8E-07	0E+00	7E-08	1E-04	9E-07
Beryllium	Fall River	1E-07	3E-08	2E-08		2E-07
Beryllium	Salt Creek	1E-07	1E-07	2E-08		3E-07
Beryllium	Verdigris River	1E-07	6E-08	2E-08		2E-07

Table IX-B22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 322, 323) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Fall River	2E-06	3E-05	6E-06		4E-05
Cadmium	Salt Creek	2E-06	9E-05	6E-06		1E-04
Cadmium	Verdigris River	2E-06	8E-05	6E-06		9E-05
Chromium VI	Fall River	1E-08	4E-09	1E-07		1E-07
Chromium VI	Salt Creek	1E-08	1E-08	1E-07		1E-07
Chromium VI	Verdigris River	1E-08	9E-09	1E-07		1E-07
Chromium III	Fall River	3E-09	2E-11	9E-13		3E-09
Chromium III	Salt Creek	3E-09	7E-11	9E-13		3E-09
Chromium III	Verdigris River	3E-09	3E-11	9E-13		3E-09
Cobalt	Fall River	6E-09	0E+00	3E-08		3E-08
Cobalt	Salt Creek	6E-09	0E+00	3E-08		3E-08
Cobalt	Verdigris River	6E-09	0E+00	3E-08		3E-08
Hydrogen Chloride	Fall River				2E-03	
Hydrogen Chloride	Salt Creek				2E-03	
Hydrogen Chloride	Verdigris River				2E-03	
Selenium	Fall River	4E-08	1E-04	2E-06		1E-04
Selenium	Salt Creek	4E-08	3E-04	2E-06		3E-04
Selenium	Verdigris River	4E-08	2E-04	2E-06		2E-04
Chlorine	Fall River				9E-05	
Chlorine	Salt Creek				9E-05	
Chlorine	Verdigris River				9E-05	
Methylmercury - Developmental Effects	Fall River	9E-07	8E-03	3E-08		8E-03
Methylmercury - Developmental Effects	Salt Creek	9E-07	3E-02	3E-08		3E-02
Methylmercury - Developmental Effects	Verdigris River	9E-07	1E-02	3E-08		1E-02
Methylmercury - Neurological Effects	Fall River	3E-07	3E-03	1E-08		3E-03
Methylmercury - Neurological Effects	Salt Creek	3E-07	1E-02	1E-08		1E-02
Methylmercury - Neurological Effects	Verdigris River	3E-07	4E-03	1E-08		4E-03

Table IX-B23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-08	7E-10	1E-09	2E-09	3E-07	3E-06	7E-08	8E-07	4E-07	4E-07		1E-09	5E-06
Nickel												3E-09	
Arsenic	3E-09	1E-09	5E-10	2E-09	5E-09	8E-09	4E-10			2E-08		9E-09	4E-08
Beryllium												4E-10	
Cadmium												3E-09	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	1E-07	5E-07	7E-08	4E-06	6E-09			0E+00		2E-04	5E-06
Mercury (elemental)												7E-05	
Mercury (divalent)	NA	2E-04	7E-05	4E-04	5E-04	5E-03	2E-06						6E-03
Nickel	3E-06	2E-06	7E-07	4E-06	4E-05	4E-04	2E-06			9E-06			4E-04
Silver	2E-08	2E-07	6E-08	6E-07	4E-06	1E-03	1E-07			0E+00			1E-03
Thallium	5E-03	4E-04	3E-05	1E-03	1E-01	3E-01	1E-02			2E-01			7E-01
Antimony	3E-05	1E-04	3E-05	2E-04	3E-04	2E-03	1E-05			0E+00			2E-03
Arsenic	7E-05	3E-05	1E-05	6E-05	1E-04	2E-04	1E-05			6E-04			1E-03
Barium	1E-04	1E-05	3E-06	2E-05	5E-06	6E-04	8E-07			0E+00		4E-04	8E-04
Beryllium	2E-05	3E-07	6E-08	6E-07	3E-06	1E-07	1E-06			1E-06			3E-05
Cadmium	6E-05	8E-05	4E-05	2E-04	6E-06	2E-05	1E-06			4E-03			5E-03
Chromium VI	3E-08	8E-09	4E-09	2E-08	3E-07	5E-06	2E-08			6E-08			5E-06
Chromium III	8E-07	7E-09	6E-09	2E-08	5E-07	6E-06	2E-07			6E-11			8E-06
Cobalt	2E-07	5E-08	3E-10	1E-07	4E-06	2E-05	3E-07			0E+00			3E-05
Hydrogen Chloride												5E-03	
Selenium	4E-06	3E-06	3E-06	8E-06	6E-05	5E-03	2E-04			8E-02			9E-02
Chlorine												1E-02	
Methylmercury - Developmental Effects	4E-05	7E-05	9E-06	6E-05	2E-04	2E-03	1E-07			7E-02			8E-02
Methylmercury - Neurological Effects	1E-05	2E-05	3E-06	2E-05	5E-05	7E-04	4E-08			2E-02			3E-02

Table IX-B23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	5E-10	1E-09	2E-09	6E-07	2E-06	7E-08	8E-07	5E-07	4E-07		1E-09	5E-06
Nickel												3E-09	
Arsenic	1E-09	8E-10	5E-10	3E-09	7E-09	5E-09	3E-10			2E-08		1E-08	4E-08
Beryllium												4E-10	
Cadmium												4E-09	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	1E-07	1E-07	5E-07	9E-08	2E-06	4E-09			0E+00		2E-04	3E-06
Mercury (elemental)												7E-05	
Mercury (divalent)	NA	1E-04	5E-05	4E-04	6E-04	3E-03	9E-07						4E-03
Nickel	9E-07	1E-06	5E-07	4E-06	5E-05	2E-04	1E-06			7E-06			2E-04
Silver	5E-09	1E-07	4E-08	6E-07	4E-06	7E-04	8E-08			0E+00			7E-04
Thallium	1E-03	2E-04	2E-05	1E-03	1E-01	1E-01	7E-03			2E-01			5E-01
Antimony	8E-06	6E-05	2E-05	2E-04	3E-04	8E-04	7E-06			0E+00			1E-03
Arsenic	2E-05	2E-05	1E-05	6E-05	1E-04	1E-04	6E-06			4E-04			8E-04
Barium	3E-05	6E-06	2E-06	2E-05	6E-06	3E-04	5E-07			0E+00		4E-04	4E-04
Beryllium	6E-06	1E-07	4E-08	6E-07	3E-06	6E-08	6E-07			1E-06			1E-05
Cadmium	2E-05	4E-05	3E-05	1E-04	7E-06	1E-05	7E-07			3E-03			4E-03
Chromium VI	7E-09	5E-09	2E-09	2E-08	3E-07	2E-06	1E-08			5E-08			3E-06
Chromium III	2E-07	4E-09	4E-09	2E-08	6E-07	3E-06	1E-07			5E-11			4E-06
Cobalt	6E-08	3E-08	2E-10	1E-07	5E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												5E-03	
Selenium	1E-06	2E-06	2E-06	8E-06	6E-05	2E-03	1E-04			6E-02			7E-02
Chlorine												1E-02	
Methylmercury - Developmental Effects	1E-05	4E-05	7E-06	6E-05	2E-04	1E-03	7E-08			6E-02			6E-02
Methylmercury - Neurological Effects	3E-06	1E-05	2E-06	2E-05	6E-05	4E-04	2E-08			2E-02			2E-02

Table IX-B23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-09	4E-10	9E-10	1E-09	3E-07	1E-06	4E-08	5E-07	3E-07	2E-07		7E-10	2E-06
Nickel												2E-09	
Arsenic	6E-10	6E-10	4E-10	2E-09	3E-09	3E-09	2E-10			1E-08		7E-09	2E-08
Beryllium												3E-10	
Cadmium												2E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	7E-08	3E-07	4E-08	9E-07	2E-09			0E+00		2E-04	1E-06
Mercury (elemental)												7E-05	
Mercury (divalent)	8E-05	8E-05	3E-05	2E-04	3E-04	1E-03	6E-07			0E+00			2E-03
Nickel	5E-07	7E-07	4E-07	2E-06	2E-05	9E-05	9E-07			4E-06			1E-04
Silver	2E-09	9E-08	3E-08	3E-07	2E-06	3E-04	5E-08			0E+00			3E-04
Thallium	6E-04	2E-04	1E-05	5E-04	6E-02	7E-02	5E-03			1E-01			2E-01
Antimony	4E-06	4E-05	2E-05	1E-04	1E-04	4E-04	5E-06			0E+00			7E-04
Arsenic	1E-05	1E-05	7E-06	3E-05	6E-05	5E-05	4E-06			2E-04			4E-04
Barium	2E-05	5E-06	1E-06	1E-05	3E-06	1E-04	3E-07			0E+00		4E-04	2E-04
Beryllium	3E-06	1E-07	3E-08	3E-07	2E-06	3E-08	4E-07			5E-07			6E-06
Cadmium	9E-06	3E-05	2E-05	8E-05	3E-06	5E-06	4E-07			2E-03			2E-03
Chromium VI	4E-09	4E-09	2E-09	1E-08	2E-07	1E-06	7E-09			2E-08			1E-06
Chromium III	1E-07	3E-09	3E-09	9E-09	3E-07	1E-06	7E-08			2E-11			2E-06
Cobalt	3E-08	2E-08	2E-10	6E-08	2E-06	5E-06	1E-07			0E+00			8E-06
Hydrogen Chloride												5E-03	
Selenium	6E-07	1E-06	2E-06	4E-06	3E-05	1E-03	8E-05			3E-02			3E-02
Chlorine												1E-02	
Methylmercury - Developmental Effects	5E-06	3E-05	5E-06	3E-05	8E-05	5E-04	4E-08			3E-02			3E-02
Methylmercury - Neurological Effects	2E-06	9E-06	2E-06	1E-05	3E-05	2E-04	1E-08			1E-02			1E-02

Table IX-B23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	1E-09	2E-09	2E-09	5E-07	8E-07	7E-08	7E-07	4E-07	5E-07		1E-09	3E-06
Nickel												3E-09	
Arsenic	4E-10	1E-09	7E-10	3E-09	7E-09	2E-09	4E-10			3E-08		1E-08	4E-08
Beryllium												4E-10	
Cadmium												3E-09	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	8E-08	2E-07	4E-08	4E-07	2E-09			0E+00		2E-04	9E-07
Mercury (elemental)												7E-05	
Mercury (divalent)	3E-05	1E-04	4E-05	2E-04	3E-04	5E-04	5E-07			0E+00			1E-03
Nickel	2E-07	1E-06	4E-07	2E-06	2E-05	4E-05	8E-07			4E-06			7E-05
Silver	1E-09	1E-07	3E-08	3E-07	2E-06	1E-04	4E-08			0E+00			1E-04
Thallium	3E-04	2E-04	1E-05	5E-04	6E-02	3E-02	4E-03			1E-01			2E-01
Antimony	2E-06	6E-05	2E-05	1E-04	2E-04	2E-04	4E-06			0E+00			5E-04
Arsenic	4E-06	2E-05	8E-06	3E-05	7E-05	2E-05	4E-06			3E-04			4E-04
Barium	6E-06	6E-06	2E-06	1E-05	3E-06	6E-05	3E-07			0E+00		4E-04	9E-05
Beryllium	1E-06	1E-07	3E-08	3E-07	2E-06	1E-08	3E-07			6E-07			4E-06
Cadmium	4E-06	5E-05	2E-05	7E-05	4E-06	2E-06	4E-07			2E-03			2E-03
Chromium VI	2E-09	5E-09	2E-09	1E-08	2E-07	5E-07	6E-09			3E-08			7E-07
Chromium III	4E-08	4E-09	3E-09	9E-09	3E-07	6E-07	7E-08			3E-11			1E-06
Cobalt	1E-08	3E-08	2E-10	6E-08	2E-06	2E-06	1E-07			0E+00			5E-06
Hydrogen Chloride												5E-03	
Selenium	2E-07	2E-06	2E-06	4E-06	3E-05	5E-04	7E-05			4E-02			4E-02
Chlorine												1E-02	
Methylmercury - Developmental Effects	2E-06	4E-05	5E-06	3E-05	9E-05	2E-04	4E-08			3E-02			3E-02
Methylmercury - Neurological Effects	7E-07	1E-05	2E-06	1E-05	3E-05	7E-05	1E-08			1E-02			1E-02

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Indian Field Swamp	4E-08	4E-08	0E+00	1E-09	8E-08
2,3,7,8-TCDD-TEQ	Walnut Branch	4E-08	3E-09	0E+00	1E-09	4E-08
2,3,7,8-TCDD-TEQ	Huttos Lake	4E-08	3E-06	0E+00	1E-09	3E-06
Nickel	Indian Field Swamp				3E-09	
Nickel	Walnut Branch				3E-09	
Nickel	Huttos Lake				3E-09	
Arsenic	Indian Field Swamp	3E-09	1E-11	0E+00	9E-09	3E-09
Arsenic	Walnut Branch	3E-09	9E-13	0E+00	9E-09	3E-09
Arsenic	Huttos Lake	3E-09	2E-08	0E+00	9E-09	3E-08
Beryllium	Indian Field Swamp				4E-10	
Beryllium	Walnut Branch				4E-10	
Beryllium	Huttos Lake				4E-10	
Cadmium	Indian Field Swamp				3E-09	
Cadmium	Walnut Branch				3E-09	
Cadmium	Huttos Lake				3E-09	
Chromium VI	Indian Field Swamp				3E-10	
Chromium VI	Walnut Branch				3E-10	
Chromium VI	Huttos Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Indian Field Swamp	2E-07	0E+00	0E+00	2E-04	2E-07
Manganese	Walnut Branch	2E-07	0E+00	0E+00	2E-04	2E-07
Manganese	Huttos Lake	2E-07	0E+00	0E+00	2E-04	2E-07
Mercury (elemental)	Indian Field Swamp				7E-05	
Mercury (elemental)	Walnut Branch				7E-05	
Mercury (elemental)	Huttos Lake				7E-05	
Mercury (divalent)	Indian Field Swamp	6E-04		0E+00		6E-04
Mercury (divalent)	Walnut Branch	6E-04		0E+00		6E-04
Mercury (divalent)	Huttos Lake	6E-04		0E+00		6E-04
Nickel	Indian Field Swamp	3E-06	4E-09	0E+00		3E-06
Nickel	Walnut Branch	3E-06	3E-10	0E+00		3E-06
Nickel	Huttos Lake	3E-06	1E-05	0E+00		1E-05
Silver	Indian Field Swamp	2E-08	0E+00	0E+00		2E-08
Silver	Walnut Branch	2E-08	0E+00	0E+00		2E-08
Silver	Huttos Lake	2E-08	0E+00	0E+00		2E-08
Thallium	Indian Field Swamp	5E-03	1E-04	0E+00		5E-03
Thallium	Walnut Branch	5E-03	1E-05	0E+00		5E-03
Thallium	Huttos Lake	5E-03	3E-01	0E+00		3E-01
Antimony	Indian Field Swamp	3E-05	0E+00	0E+00		3E-05
Antimony	Walnut Branch	3E-05	0E+00	0E+00		3E-05
Antimony	Huttos Lake	3E-05	0E+00	0E+00		3E-05
Arsenic	Indian Field Swamp	7E-05	3E-07	0E+00		7E-05
Arsenic	Walnut Branch	7E-05	2E-08	0E+00		7E-05
Arsenic	Huttos Lake	7E-05	6E-04	0E+00		7E-04
Barium	Indian Field Swamp	1E-04	0E+00	0E+00	4E-04	1E-04
Barium	Walnut Branch	1E-04	0E+00	0E+00	4E-04	1E-04
Barium	Huttos Lake	1E-04	0E+00	0E+00	4E-04	1E-04
Beryllium	Indian Field Swamp	2E-05	2E-08	0E+00		2E-05
Beryllium	Walnut Branch	2E-05	1E-09	0E+00		2E-05
Beryllium	Huttos Lake	2E-05	1E-05	0E+00		3E-05

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Indian Field Swamp	6E-05	3E-06	0E+00		7E-05
Cadmium	Walnut Branch	6E-05	3E-07	0E+00		6E-05
Cadmium	Huttos Lake	6E-05	7E-03	0E+00		8E-03
Chromium VI	Indian Field Swamp	3E-08	3E-11	0E+00		3E-08
Chromium VI	Walnut Branch	3E-08	2E-12	0E+00		3E-08
Chromium VI	Huttos Lake	3E-08	6E-08	0E+00		9E-08
Chromium III	Indian Field Swamp	8E-07	2E-11	0E+00		8E-07
Chromium III	Walnut Branch	8E-07	1E-12	0E+00		8E-07
Chromium III	Huttos Lake	8E-07	5E-10	0E+00		8E-07
Cobalt	Indian Field Swamp	2E-07	0E+00	0E+00		2E-07
Cobalt	Walnut Branch	2E-07	0E+00	0E+00		2E-07
Cobalt	Huttos Lake	2E-07	0E+00	0E+00		2E-07
Hydrogen Chloride	Indian Field Swamp				5E-03	
Hydrogen Chloride	Walnut Branch				5E-03	
Hydrogen Chloride	Huttos Lake				5E-03	
Selenium	Indian Field Swamp	4E-06	4E-05	0E+00		4E-05
Selenium	Walnut Branch	4E-06	3E-06	0E+00		7E-06
Selenium	Huttos Lake	4E-06	9E-02	0E+00		9E-02
Chlorine	Indian Field Swamp				1E-02	
Chlorine	Walnut Branch				1E-02	
Chlorine	Huttos Lake				1E-02	
Methylmercury - Developmental Effects	Indian Field Swamp	4E-05	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Walnut Branch	4E-05	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Huttos Lake	4E-05	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Indian Field Swamp	1E-05	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Walnut Branch	1E-05	9E-05	0E+00		1E-04
Methylmercury - Neurological Effects	Huttos Lake	1E-05	1E-01	0E+00		1E-01

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Indian Field Swamp	1E-08	5E-08	0E+00	1E-09	6E-08
2,3,7,8-TCDD-TEQ	Walnut Branch	1E-08	4E-09	0E+00	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Huttos Lake	1E-08	3E-06	0E+00	1E-09	3E-06
Nickel	Indian Field Swamp				3E-09	
Nickel	Walnut Branch				3E-09	
Nickel	Huttos Lake				3E-09	
Arsenic	Indian Field Swamp	1E-09	2E-11	0E+00	1E-08	1E-09
Arsenic	Walnut Branch	1E-09	1E-12	0E+00	1E-08	1E-09
Arsenic	Huttos Lake	1E-09	3E-08	0E+00	1E-08	3E-08
Beryllium	Indian Field Swamp				4E-10	
Beryllium	Walnut Branch				4E-10	
Beryllium	Huttos Lake				4E-10	
Cadmium	Indian Field Swamp				4E-09	
Cadmium	Walnut Branch				4E-09	
Cadmium	Huttos Lake				4E-09	
Chromium VI	Indian Field Swamp				3E-10	
Chromium VI	Walnut Branch				3E-10	
Chromium VI	Huttos Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Indian Field Swamp	5E-08	0E+00	0E+00	2E-04	5E-08
Manganese	Walnut Branch	5E-08	0E+00	0E+00	2E-04	5E-08
Manganese	Huttos Lake	5E-08	0E+00	0E+00	2E-04	5E-08
Mercury (elemental)	Indian Field Swamp				7E-05	
Mercury (elemental)	Walnut Branch				7E-05	
Mercury (elemental)	Huttos Lake				7E-05	
Mercury (divalent)	Indian Field Swamp	2E-04		0E+00		2E-04
Mercury (divalent)	Walnut Branch	2E-04		0E+00		2E-04
Mercury (divalent)	Huttos Lake	2E-04		0E+00		2E-04
Nickel	Indian Field Swamp	9E-07	4E-09	0E+00		9E-07
Nickel	Walnut Branch	9E-07	3E-10	0E+00		9E-07
Nickel	Huttos Lake	9E-07	1E-05	0E+00		1E-05
Silver	Indian Field Swamp	5E-09	0E+00	0E+00		5E-09
Silver	Walnut Branch	5E-09	0E+00	0E+00		5E-09
Silver	Huttos Lake	5E-09	0E+00	0E+00		5E-09
Thallium	Indian Field Swamp	1E-03	1E-04	0E+00		1E-03
Thallium	Walnut Branch	1E-03	1E-05	0E+00		1E-03
Thallium	Huttos Lake	1E-03	3E-01	0E+00		3E-01
Antimony	Indian Field Swamp	8E-06	0E+00	0E+00		8E-06
Antimony	Walnut Branch	8E-06	0E+00	0E+00		8E-06
Antimony	Huttos Lake	8E-06	0E+00	0E+00		8E-06
Arsenic	Indian Field Swamp	2E-05	3E-07	0E+00		2E-05
Arsenic	Walnut Branch	2E-05	2E-08	0E+00		2E-05
Arsenic	Huttos Lake	2E-05	6E-04	0E+00		6E-04
Barium	Indian Field Swamp	3E-05	0E+00	0E+00	4E-04	3E-05
Barium	Walnut Branch	3E-05	0E+00	0E+00	4E-04	3E-05
Barium	Huttos Lake	3E-05	0E+00	0E+00	4E-04	3E-05
Beryllium	Indian Field Swamp	6E-06	2E-08	0E+00		6E-06
Beryllium	Walnut Branch	6E-06	1E-09	0E+00		6E-06
Beryllium	Huttos Lake	6E-06	1E-05	0E+00		2E-05

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Indian Field Swamp	2E-05	3E-06	0E+00		2E-05
Cadmium	Walnut Branch	2E-05	3E-07	0E+00		2E-05
Cadmium	Huttos Lake	2E-05	7E-03	0E+00		7E-03
Chromium VI	Indian Field Swamp	7E-09	3E-11	0E+00		7E-09
Chromium VI	Walnut Branch	7E-09	2E-12	0E+00		7E-09
Chromium VI	Huttos Lake	7E-09	6E-08	0E+00		7E-08
Chromium III	Indian Field Swamp	2E-07	2E-11	0E+00		2E-07
Chromium III	Walnut Branch	2E-07	1E-12	0E+00		2E-07
Chromium III	Huttos Lake	2E-07	5E-10	0E+00		2E-07
Cobalt	Indian Field Swamp	6E-08	0E+00	0E+00		6E-08
Cobalt	Walnut Branch	6E-08	0E+00	0E+00		6E-08
Cobalt	Huttos Lake	6E-08	0E+00	0E+00		6E-08
Hydrogen Chloride	Indian Field Swamp				5E-03	
Hydrogen Chloride	Walnut Branch				5E-03	
Hydrogen Chloride	Huttos Lake				5E-03	
Selenium	Indian Field Swamp	1E-06	4E-05	0E+00		4E-05
Selenium	Walnut Branch	1E-06	3E-06	0E+00		4E-06
Selenium	Huttos Lake	1E-06	9E-02	0E+00		9E-02
Chlorine	Indian Field Swamp				1E-02	
Chlorine	Walnut Branch				1E-02	
Chlorine	Huttos Lake				1E-02	
Methylmercury - Developmental Effects	Indian Field Swamp	1E-05	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Walnut Branch	1E-05	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Huttos Lake	1E-05	4E-01	0E+00		4E-01
Methylmercury - Neurological Effects	Indian Field Swamp	3E-06	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Walnut Branch	3E-06	9E-05	0E+00		9E-05
Methylmercury - Neurological Effects	Huttos Lake	3E-06	1E-01	0E+00		1E-01

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Indian Field Swamp	7E-09	4E-08	0E+00	7E-10	4E-08
2,3,7,8-TCDD-TEQ	Walnut Branch	7E-09	3E-09	0E+00	7E-10	1E-08
2,3,7,8-TCDD-TEQ	Huttos Lake	7E-09	3E-06	0E+00	7E-10	3E-06
Nickel	Indian Field Swamp				2E-09	
Nickel	Walnut Branch				2E-09	
Nickel	Huttos Lake				2E-09	
Arsenic	Indian Field Swamp	6E-10	1E-11	0E+00	7E-09	6E-10
Arsenic	Walnut Branch	6E-10	9E-13	0E+00	7E-09	6E-10
Arsenic	Huttos Lake	6E-10	2E-08	0E+00	7E-09	3E-08
Beryllium	Indian Field Swamp				3E-10	
Beryllium	Walnut Branch				3E-10	
Beryllium	Huttos Lake				3E-10	
Cadmium	Indian Field Swamp				2E-09	
Cadmium	Walnut Branch				2E-09	
Cadmium	Huttos Lake				2E-09	
Chromium VI	Indian Field Swamp				2E-10	
Chromium VI	Walnut Branch				2E-10	
Chromium VI	Huttos Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Indian Field Swamp	3E-08	0E+00	0E+00	2E-04	3E-08
Manganese	Walnut Branch	3E-08	0E+00	0E+00	2E-04	3E-08
Manganese	Huttos Lake	3E-08	0E+00	0E+00	2E-04	3E-08
Mercury (elemental)	Indian Field Swamp				7E-05	
Mercury (elemental)	Walnut Branch				7E-05	
Mercury (elemental)	Huttos Lake				7E-05	
Mercury (divalent)	Indian Field Swamp	8E-05		0E+00		8E-05
Mercury (divalent)	Walnut Branch	8E-05		0E+00		8E-05
Mercury (divalent)	Huttos Lake	8E-05		0E+00		8E-05
Nickel	Indian Field Swamp	5E-07	3E-09	0E+00		5E-07
Nickel	Walnut Branch	5E-07	2E-10	0E+00		5E-07
Nickel	Huttos Lake	5E-07	7E-06	0E+00		7E-06
Silver	Indian Field Swamp	2E-09	0E+00	0E+00		2E-09
Silver	Walnut Branch	2E-09	0E+00	0E+00		2E-09
Silver	Huttos Lake	2E-09	0E+00	0E+00		2E-09
Thallium	Indian Field Swamp	6E-04	1E-04	0E+00		7E-04
Thallium	Walnut Branch	6E-04	9E-06	0E+00		7E-04
Thallium	Huttos Lake	6E-04	2E-01	0E+00		2E-01
Antimony	Indian Field Swamp	4E-06	0E+00	0E+00		4E-06
Antimony	Walnut Branch	4E-06	0E+00	0E+00		4E-06
Antimony	Huttos Lake	4E-06	0E+00	0E+00		4E-06
Arsenic	Indian Field Swamp	1E-05	2E-07	0E+00		1E-05
Arsenic	Walnut Branch	1E-05	2E-08	0E+00		1E-05
Arsenic	Huttos Lake	1E-05	4E-04	0E+00		4E-04
Barium	Indian Field Swamp	2E-05	0E+00	0E+00	4E-04	2E-05
Barium	Walnut Branch	2E-05	0E+00	0E+00	4E-04	2E-05
Barium	Huttos Lake	2E-05	0E+00	0E+00	4E-04	2E-05
Beryllium	Indian Field Swamp	3E-06	1E-08	0E+00		3E-06
Beryllium	Walnut Branch	3E-06	1E-09	0E+00		3E-06
Beryllium	Huttos Lake	3E-06	8E-06	0E+00		1E-05

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Indian Field Swamp	9E-06	2E-06	0E+00		1E-05
Cadmium	Walnut Branch	9E-06	2E-07	0E+00		9E-06
Cadmium	Huttos Lake	9E-06	5E-03	0E+00		5E-03
Chromium VI	Indian Field Swamp	4E-09	2E-11	0E+00		4E-09
Chromium VI	Walnut Branch	4E-09	2E-12	0E+00		4E-09
Chromium VI	Huttos Lake	4E-09	5E-08	0E+00		5E-08
Chromium III	Indian Field Swamp	1E-07	1E-11	0E+00		1E-07
Chromium III	Walnut Branch	1E-07	1E-12	0E+00		1E-07
Chromium III	Huttos Lake	1E-07	3E-10	0E+00		1E-07
Cobalt	Indian Field Swamp	3E-08	0E+00	0E+00		3E-08
Cobalt	Walnut Branch	3E-08	0E+00	0E+00		3E-08
Cobalt	Huttos Lake	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Indian Field Swamp				5E-03	
Hydrogen Chloride	Walnut Branch				5E-03	
Hydrogen Chloride	Huttos Lake				5E-03	
Selenium	Indian Field Swamp	6E-07	3E-05	0E+00		3E-05
Selenium	Walnut Branch	6E-07	2E-06	0E+00		3E-06
Selenium	Huttos Lake	6E-07	6E-02	0E+00		6E-02
Chlorine	Indian Field Swamp				1E-02	
Chlorine	Walnut Branch				1E-02	
Chlorine	Huttos Lake				1E-02	
Methylmercury - Developmental Effects	Indian Field Swamp	5E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Walnut Branch	5E-06	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Huttos Lake	5E-06	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Indian Field Swamp	2E-06	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Walnut Branch	2E-06	6E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Huttos Lake	2E-06	1E-01	0E+00		1E-01

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Indian Field Swamp	5E-09	7E-08	0E+00	1E-09	8E-08
2,3,7,8-TCDD-TEQ	Walnut Branch	5E-09	5E-09	0E+00	1E-09	1E-08
2,3,7,8-TCDD-TEQ	Huttos Lake	5E-09	5E-06	0E+00	1E-09	5E-06
Nickel	Indian Field Swamp				3E-09	
Nickel	Walnut Branch				3E-09	
Nickel	Huttos Lake				3E-09	
Arsenic	Indian Field Swamp	4E-10	2E-11	0E+00	1E-08	4E-10
Arsenic	Walnut Branch	4E-10	2E-12	0E+00	1E-08	4E-10
Arsenic	Huttos Lake	4E-10	5E-08	0E+00	1E-08	5E-08
Beryllium	Indian Field Swamp				4E-10	
Beryllium	Walnut Branch				4E-10	
Beryllium	Huttos Lake				4E-10	
Cadmium	Indian Field Swamp				3E-09	
Cadmium	Walnut Branch				3E-09	
Cadmium	Huttos Lake				3E-09	
Chromium VI	Indian Field Swamp				3E-10	
Chromium VI	Walnut Branch				3E-10	
Chromium VI	Huttos Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Indian Field Swamp	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Walnut Branch	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Huttos Lake	1E-08	0E+00	0E+00	2E-04	1E-08
Mercury (elemental)	Indian Field Swamp				7E-05	
Mercury (elemental)	Walnut Branch				7E-05	
Mercury (elemental)	Huttos Lake				7E-05	
Mercury (divalent)	Indian Field Swamp	3E-05		0E+00		3E-05
Mercury (divalent)	Walnut Branch	3E-05		0E+00		3E-05
Mercury (divalent)	Huttos Lake	3E-05		0E+00		3E-05
Nickel	Indian Field Swamp	2E-07	3E-09	0E+00		2E-07
Nickel	Walnut Branch	2E-07	2E-10	0E+00		2E-07
Nickel	Huttos Lake	2E-07	7E-06	0E+00		7E-06
Silver	Indian Field Swamp	1E-09	0E+00	0E+00		1E-09
Silver	Walnut Branch	1E-09	0E+00	0E+00		1E-09
Silver	Huttos Lake	1E-09	0E+00	0E+00		1E-09
Thallium	Indian Field Swamp	3E-04	1E-04	0E+00		4E-04
Thallium	Walnut Branch	3E-04	9E-06	0E+00		3E-04
Thallium	Huttos Lake	3E-04	2E-01	0E+00		2E-01
Antimony	Indian Field Swamp	2E-06	0E+00	0E+00		2E-06
Antimony	Walnut Branch	2E-06	0E+00	0E+00		2E-06
Antimony	Huttos Lake	2E-06	0E+00	0E+00		2E-06
Arsenic	Indian Field Swamp	4E-06	2E-07	0E+00		4E-06
Arsenic	Walnut Branch	4E-06	2E-08	0E+00		4E-06
Arsenic	Huttos Lake	4E-06	4E-04	0E+00		4E-04
Barium	Indian Field Swamp	6E-06	0E+00	0E+00	4E-04	6E-06
Barium	Walnut Branch	6E-06	0E+00	0E+00	4E-04	6E-06
Barium	Huttos Lake	6E-06	0E+00	0E+00	4E-04	6E-06
Beryllium	Indian Field Swamp	1E-06	1E-08	0E+00		1E-06
Beryllium	Walnut Branch	1E-06	1E-09	0E+00		1E-06
Beryllium	Huttos Lake	1E-06	8E-06	0E+00		9E-06

Table IX-B24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 200, 201, 680, 681) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Indian Field Swamp	4E-06	2E-06	0E+00		6E-06
Cadmium	Walnut Branch	4E-06	2E-07	0E+00		4E-06
Cadmium	Huttos Lake	4E-06	5E-03	0E+00		5E-03
Chromium VI	Indian Field Swamp	2E-09	2E-11	0E+00		2E-09
Chromium VI	Walnut Branch	2E-09	2E-12	0E+00		2E-09
Chromium VI	Huttos Lake	2E-09	5E-08	0E+00		5E-08
Chromium III	Indian Field Swamp	4E-08	1E-11	0E+00		4E-08
Chromium III	Walnut Branch	4E-08	1E-12	0E+00		4E-08
Chromium III	Huttos Lake	4E-08	3E-10	0E+00		4E-08
Cobalt	Indian Field Swamp	1E-08	0E+00	0E+00		1E-08
Cobalt	Walnut Branch	1E-08	0E+00	0E+00		1E-08
Cobalt	Huttos Lake	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Indian Field Swamp				5E-03	
Hydrogen Chloride	Walnut Branch				5E-03	
Hydrogen Chloride	Huttos Lake				5E-03	
Selenium	Indian Field Swamp	2E-07	3E-05	0E+00		3E-05
Selenium	Walnut Branch	2E-07	2E-06	0E+00		2E-06
Selenium	Huttos Lake	2E-07	6E-02	0E+00		6E-02
Chlorine	Indian Field Swamp				1E-02	
Chlorine	Walnut Branch				1E-02	
Chlorine	Huttos Lake				1E-02	
Methylmercury - Developmental Effects	Indian Field Swamp	2E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Walnut Branch	2E-06	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Huttos Lake	2E-06	3E-01	0E+00		3E-01
Methylmercury - Neurological Effects	Indian Field Swamp	7E-07	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Walnut Branch	7E-07	6E-05	0E+00		6E-05
Methylmercury - Neurological Effects	Huttos Lake	7E-07	1E-01	0E+00		1E-01

Table IX-B25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	5E-10	1E-09	1E-09	2E-07	2E-06	4E-08	5E-07	3E-07	2E-07		6E-10	3E-06
Nickel												1E-10	
Arsenic	5E-10	2E-10	8E-11	4E-10	7E-10	1E-09	7E-11			4E-09		1E-09	7E-09
Beryllium												2E-10	
Cadmium												3E-09	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-07	3E-07	1E-07	5E-07	7E-08	4E-06	6E-09			0E+00		2E-04	5E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	9E-05	7E-05	5E-04	4E-03	2E-06						5E-03
Nickel	2E-07	8E-08	4E-08	2E-07	2E-06	2E-05	1E-07			4E-07			2E-05
Silver	6E-09	7E-08	2E-08	2E-07	1E-06	4E-04	4E-08			0E+00			4E-04
Thallium	8E-05	6E-06	5E-07	2E-05	2E-03	5E-03	2E-04			4E-03			1E-02
Antimony	8E-06	3E-05	8E-06	6E-05	8E-05	5E-04	3E-06			0E+00			7E-04
Arsenic	1E-05	4E-06	2E-06	9E-06	2E-05	3E-05	2E-06			9E-05			2E-04
Barium	8E-06	8E-07	2E-07	2E-06	4E-07	5E-05	6E-08			0E+00		3E-05	6E-05
Beryllium	1E-05	1E-07	3E-08	3E-07	2E-06	6E-08	6E-07			7E-07			2E-05
Cadmium	8E-05	9E-05	4E-05	2E-04	7E-06	2E-05	1E-06			5E-03			5E-03
Chromium VI	5E-08	2E-08	7E-09	4E-08	6E-07	9E-06	3E-08			1E-07			1E-05
Chromium III	8E-07	7E-09	6E-09	2E-08	5E-07	6E-06	2E-07			6E-11			8E-06
Cobalt	3E-07	6E-08	4E-10	1E-07	5E-06	3E-05	4E-07			0E+00			3E-05
Hydrogen Chloride												3E-03	
Selenium	2E-07	1E-07	1E-07	3E-07	2E-06	2E-04	7E-06			3E-03			3E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	5E-05	1E-05	1E-05	1E-05	5E-05	5E-04	1E-07			2E-01			2E-01
Methylmercury - Neurological Effects	2E-05	3E-06	4E-06	3E-06	2E-05	2E-04	4E-08			6E-02			6E-02

Table IX-B25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-09	4E-10	9E-10	1E-09	3E-07	1E-06	3E-08	4E-07	3E-07	2E-07		7E-10	2E-06
Nickel												1E-10	
Arsenic	2E-10	1E-10	8E-11	5E-10	1E-09	8E-10	5E-11			4E-09		1E-09	7E-09
Beryllium												2E-10	
Cadmium												3E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-08	1E-07	1E-07	5E-07	9E-08	2E-06	4E-09			0E+00		2E-04	3E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	2E-05	6E-05	7E-05	6E-04	2E-03	1E-06						3E-03
Nickel	4E-08	5E-08	2E-08	2E-07	2E-06	9E-06	6E-08			3E-07			1E-05
Silver	1E-09	4E-08	1E-08	2E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	2E-05	4E-06	3E-07	2E-05	2E-03	3E-03	1E-04			3E-03			8E-03
Antimony	2E-06	2E-05	6E-06	6E-05	1E-04	2E-04	2E-06			0E+00			4E-04
Arsenic	3E-06	2E-06	2E-06	9E-06	2E-05	2E-05	1E-06			7E-05			1E-04
Barium	2E-06	4E-07	1E-07	1E-06	4E-07	2E-05	3E-08			0E+00		3E-05	3E-05
Beryllium	3E-06	8E-08	2E-08	3E-07	2E-06	3E-08	3E-07			5E-07			6E-06
Cadmium	2E-05	5E-05	3E-05	2E-04	8E-06	1E-05	8E-07			4E-03			4E-03
Chromium VI	1E-08	9E-09	5E-09	4E-08	7E-07	5E-06	2E-08			9E-08			5E-06
Chromium III	2E-07	4E-09	4E-09	2E-08	6E-07	3E-06	1E-07			4E-11			4E-06
Cobalt	7E-08	3E-08	3E-10	1E-07	6E-06	1E-05	2E-07			0E+00			2E-05
Hydrogen Chloride												3E-03	
Selenium	4E-08	5E-08	8E-08	3E-07	2E-06	8E-05	4E-06			2E-03			2E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-05	6E-06	8E-06	1E-05	6E-05	3E-04	7E-08			1E-01			1E-01
Methylmercury - Neurological Effects	4E-06	2E-06	3E-06	3E-06	2E-05	9E-05	2E-08			5E-02			5E-02

Table IX-B25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	3E-10	6E-10	8E-10	1E-07	5E-07	2E-08	3E-07	2E-07	1E-07		4E-10	1E-06
Nickel												8E-11	
Arsenic	9E-11	1E-10	6E-11	3E-10	5E-10	4E-10	4E-11			2E-09		9E-10	4E-09
Beryllium												1E-10	
Cadmium												2E-09	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	7E-08	3E-07	4E-08	8E-07	2E-09			0E+00		2E-04	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	1E-04	1E-05	4E-05	4E-05	3E-04	9E-04	7E-07			0E+00			1E-03
Nickel	2E-08	4E-08	2E-08	1E-07	1E-06	4E-06	4E-08			2E-07			5E-06
Silver	8E-10	3E-08	9E-09	9E-08	6E-07	1E-04	2E-08			0E+00			1E-04
Thallium	1E-05	3E-06	2E-07	9E-06	1E-03	1E-03	8E-05			2E-03			4E-03
Antimony	1E-06	1E-05	4E-06	3E-05	4E-05	1E-04	1E-06			0E+00			2E-04
Arsenic	2E-06	2E-06	1E-06	5E-06	9E-06	7E-06	6E-07			4E-05			6E-05
Barium	1E-06	3E-07	1E-07	8E-07	2E-07	1E-05	2E-08			0E+00		3E-05	1E-05
Beryllium	2E-06	6E-08	2E-08	2E-07	8E-07	1E-08	2E-07			3E-07			3E-06
Cadmium	1E-05	4E-05	2E-05	9E-05	4E-06	6E-06	5E-07			2E-03			2E-03
Chromium VI	7E-09	7E-09	3E-09	2E-08	3E-07	2E-06	1E-08			5E-08			3E-06
Chromium III	1E-07	3E-09	3E-09	1E-08	3E-07	1E-06	8E-08			2E-11			2E-06
Cobalt	4E-08	3E-08	2E-10	7E-08	3E-06	6E-06	2E-07			0E+00			9E-06
Hydrogen Chloride												3E-03	
Selenium	2E-08	4E-08	6E-08	1E-07	1E-06	4E-05	3E-06			1E-03			1E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	7E-06	4E-06	6E-06	5E-06	3E-05	1E-04	5E-08			7E-02			7E-02
Methylmercury - Neurological Effects	2E-06	1E-06	2E-06	2E-06	8E-06	4E-05	2E-08			2E-02			2E-02

Table IX-B25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	7E-10	1E-09	1E-09	3E-07	4E-07	3E-08	4E-07	3E-07	2E-07		7E-10	2E-06
Nickel												1E-10	
Arsenic	7E-11	2E-10	1E-10	4E-10	1E-09	3E-10	6E-11			4E-09		1E-09	7E-09
Beryllium												2E-10	
Cadmium												3E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	8E-08	2E-07	4E-08	4E-07	2E-09			0E+00		2E-04	9E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	4E-05	2E-05	5E-05	3E-05	3E-04	4E-04	6E-07			0E+00			8E-04
Nickel	9E-09	5E-08	2E-08	9E-08	1E-06	2E-06	4E-08			2E-07			3E-06
Silver	3E-10	4E-08	1E-08	8E-08	7E-07	4E-05	1E-08			0E+00			4E-05
Thallium	5E-06	4E-06	3E-07	8E-06	1E-03	5E-04	7E-05			2E-03			4E-03
Antimony	5E-07	2E-05	5E-06	3E-05	5E-05	5E-05	1E-06			0E+00			2E-04
Arsenic	6E-07	3E-06	1E-06	4E-06	1E-05	3E-06	6E-07			4E-05			6E-05
Barium	4E-07	5E-07	1E-07	7E-07	2E-07	5E-06	2E-08			0E+00		3E-05	7E-06
Beryllium	7E-07	8E-08	2E-08	2E-07	9E-07	6E-09	2E-07			3E-07			2E-06
Cadmium	4E-06	5E-05	3E-05	8E-05	4E-06	2E-06	4E-07			2E-03			2E-03
Chromium VI	3E-09	9E-09	4E-09	2E-08	4E-07	9E-07	1E-08			5E-08			1E-06
Chromium III	4E-08	4E-09	3E-09	9E-09	3E-07	6E-07	7E-08			3E-11			1E-06
Cobalt	2E-08	4E-08	2E-10	7E-08	3E-06	3E-06	1E-07			0E+00			6E-06
Hydrogen Chloride												3E-03	
Selenium	9E-09	6E-08	6E-08	1E-07	1E-06	2E-05	2E-06			1E-03			1E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	3E-06	6E-06	7E-06	5E-06	3E-05	5E-05	4E-08			8E-02			8E-02
Methylmercury - Neurological Effects	9E-07	2E-06	2E-06	2E-06	1E-05	2E-05	1E-08			3E-02			3E-02

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Huttos Lake	2E-08	6E-07	0E+00	6E-10	6E-07
2,3,7,8-TCDD-TEQ	Lake Merkel	2E-08	2E-07	0E+00	6E-10	2E-07
Nickel	Huttos Lake				1E-10	
Nickel	Lake Merkel				1E-10	
Arsenic	Huttos Lake	5E-10	2E-09	0E+00	1E-09	2E-09
Arsenic	Lake Merkel	5E-10	2E-10	0E+00	1E-09	7E-10
Beryllium	Huttos Lake				2E-10	
Beryllium	Lake Merkel				2E-10	
Cadmium	Huttos Lake				3E-09	
Cadmium	Lake Merkel				3E-09	
Chromium VI	Huttos Lake				5E-10	
Chromium VI	Lake Merkel				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Huttos Lake	2E-07	0E+00	0E+00	2E-04	2E-07
Manganese	Lake Merkel	2E-07	0E+00	0E+00	2E-04	2E-07
Mercury (elemental)	Huttos Lake				1E-05	
Mercury (elemental)	Lake Merkel				1E-05	
Mercury (divalent)	Huttos Lake	8E-04		0E+00		8E-04
Mercury (divalent)	Lake Merkel	8E-04		0E+00		8E-04
Nickel	Huttos Lake	2E-07	2E-07	0E+00		3E-07
Nickel	Lake Merkel	2E-07	3E-08	0E+00		2E-07
Silver	Huttos Lake	6E-09	0E+00	0E+00		6E-09
Silver	Lake Merkel	6E-09	0E+00	0E+00		6E-09
Thallium	Huttos Lake	8E-05	2E-03	0E+00		2E-03
Thallium	Lake Merkel	8E-05	3E-04	0E+00		4E-04
Antimony	Huttos Lake	8E-06	0E+00	0E+00		8E-06
Antimony	Lake Merkel	8E-06	0E+00	0E+00		8E-06
Arsenic	Huttos Lake	1E-05	4E-05	0E+00		5E-05
Arsenic	Lake Merkel	1E-05	6E-06	0E+00		2E-05
Barium	Huttos Lake	8E-06	0E+00	0E+00	3E-05	8E-06
Barium	Lake Merkel	8E-06	0E+00	0E+00	3E-05	8E-06
Beryllium	Huttos Lake	1E-05	3E-06	0E+00		1E-05
Beryllium	Lake Merkel	1E-05	5E-07	0E+00		1E-05
Cadmium	Huttos Lake	8E-05	4E-03	0E+00		4E-03
Cadmium	Lake Merkel	8E-05	5E-04	0E+00		6E-04
Chromium VI	Huttos Lake	5E-08	5E-08	0E+00		1E-07
Chromium VI	Lake Merkel	5E-08	7E-09	0E+00		6E-08
Chromium III	Huttos Lake	8E-07	2E-10	0E+00		8E-07
Chromium III	Lake Merkel	8E-07	5E-11	0E+00		8E-07
Cobalt	Huttos Lake	3E-07	0E+00	0E+00		3E-07
Cobalt	Lake Merkel	3E-07	0E+00	0E+00		3E-07
Hydrogen Chloride	Huttos Lake				3E-03	
Hydrogen Chloride	Lake Merkel				3E-03	
Selenium	Huttos Lake	2E-07	1E-03	0E+00		1E-03
Selenium	Lake Merkel	2E-07	2E-04	0E+00		2E-04
Chlorine	Huttos Lake				2E-03	
Chlorine	Lake Merkel				2E-03	
Methylmercury - Developmental Effects	Huttos Lake	5E-05	3E-01	0E+00		3E-01
Methylmercury - Developmental Effects	Lake Merkel	5E-05	3E-01	0E+00		3E-01

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Huttos Lake	2E-05	1E-01	0E+00		1E-01
Methylmercury - Neurological Effects	Lake Merkel	2E-05	9E-02	0E+00		9E-02

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Huttos Lake	7E-09	8E-07	0E+00	7E-10	8E-07
2,3,7,8-TCDD-TEQ	Lake Merkel	7E-09	3E-07	0E+00	7E-10	3E-07
Nickel	Huttos Lake				1E-10	
Nickel	Lake Merkel				1E-10	
Arsenic	Huttos Lake	2E-10	2E-09	0E+00	1E-09	2E-09
Arsenic	Lake Merkel	2E-10	3E-10	0E+00	1E-09	5E-10
Beryllium	Huttos Lake				2E-10	
Beryllium	Lake Merkel				2E-10	
Cadmium	Huttos Lake				3E-09	
Cadmium	Lake Merkel				3E-09	
Chromium VI	Huttos Lake				6E-10	
Chromium VI	Lake Merkel				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Huttos Lake	5E-08	0E+00	0E+00	2E-04	5E-08
Manganese	Lake Merkel	5E-08	0E+00	0E+00	2E-04	5E-08
Mercury (elemental)	Huttos Lake				1E-05	
Mercury (elemental)	Lake Merkel				1E-05	
Mercury (divalent)	Huttos Lake	2E-04		0E+00		2E-04
Mercury (divalent)	Lake Merkel	2E-04		0E+00		2E-04
Nickel	Huttos Lake	4E-08	2E-07	0E+00		2E-07
Nickel	Lake Merkel	4E-08	3E-08	0E+00		7E-08
Silver	Huttos Lake	1E-09	0E+00	0E+00		1E-09
Silver	Lake Merkel	1E-09	0E+00	0E+00		1E-09
Thallium	Huttos Lake	2E-05	2E-03	0E+00		2E-03
Thallium	Lake Merkel	2E-05	3E-04	0E+00		4E-04
Antimony	Huttos Lake	2E-06	0E+00	0E+00		2E-06
Antimony	Lake Merkel	2E-06	0E+00	0E+00		2E-06
Arsenic	Huttos Lake	3E-06	4E-05	0E+00		4E-05
Arsenic	Lake Merkel	3E-06	6E-06	0E+00		9E-06
Barium	Huttos Lake	2E-06	0E+00	0E+00	3E-05	2E-06
Barium	Lake Merkel	2E-06	0E+00	0E+00	3E-05	2E-06
Beryllium	Huttos Lake	3E-06	3E-06	0E+00		6E-06
Beryllium	Lake Merkel	3E-06	5E-07	0E+00		4E-06
Cadmium	Huttos Lake	2E-05	4E-03	0E+00		4E-03
Cadmium	Lake Merkel	2E-05	5E-04	0E+00		6E-04
Chromium VI	Huttos Lake	1E-08	5E-08	0E+00		7E-08
Chromium VI	Lake Merkel	1E-08	7E-09	0E+00		2E-08
Chromium III	Huttos Lake	2E-07	2E-10	0E+00		2E-07
Chromium III	Lake Merkel	2E-07	5E-11	0E+00		2E-07
Cobalt	Huttos Lake	7E-08	0E+00	0E+00		7E-08
Cobalt	Lake Merkel	7E-08	0E+00	0E+00		7E-08
Hydrogen Chloride	Huttos Lake				3E-03	
Hydrogen Chloride	Lake Merkel				3E-03	
Selenium	Huttos Lake	4E-08	1E-03	0E+00		1E-03
Selenium	Lake Merkel	4E-08	2E-04	0E+00		2E-04
Chlorine	Huttos Lake				2E-03	
Chlorine	Lake Merkel				2E-03	
Methylmercury - Developmental Effects	Huttos Lake	1E-05	3E-01	0E+00		3E-01
Methylmercury - Developmental Effects	Lake Merkel	1E-05	3E-01	0E+00		3E-01

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Huttos Lake	4E-06	1E-01	0E+00		1E-01
Methylmercury - Neurological Effects	Lake Merkel	4E-06	9E-02	0E+00		9E-02

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Huttos Lake	4E-09	6E-07	0E+00	4E-10	6E-07
2,3,7,8-TCDD-TEQ	Lake Merkel	4E-09	2E-07	0E+00	4E-10	2E-07
Nickel	Huttos Lake				8E-11	
Nickel	Lake Merkel				8E-11	
Arsenic	Huttos Lake	9E-11	2E-09	0E+00	9E-10	2E-09
Arsenic	Lake Merkel	9E-11	2E-10	0E+00	9E-10	3E-10
Beryllium	Huttos Lake				1E-10	
Beryllium	Lake Merkel				1E-10	
Cadmium	Huttos Lake				2E-09	
Cadmium	Lake Merkel				2E-09	
Chromium VI	Huttos Lake				4E-10	
Chromium VI	Lake Merkel				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Huttos Lake	3E-08	0E+00	0E+00	2E-04	3E-08
Manganese	Lake Merkel	3E-08	0E+00	0E+00	2E-04	3E-08
Mercury (elemental)	Huttos Lake				1E-05	
Mercury (elemental)	Lake Merkel				1E-05	
Mercury (divalent)	Huttos Lake	1E-04		0E+00		1E-04
Mercury (divalent)	Lake Merkel	1E-04		0E+00		1E-04
Nickel	Huttos Lake	2E-08	1E-07	0E+00		2E-07
Nickel	Lake Merkel	2E-08	2E-08	0E+00		4E-08
Silver	Huttos Lake	8E-10	0E+00	0E+00		8E-10
Silver	Lake Merkel	8E-10	0E+00	0E+00		8E-10
Thallium	Huttos Lake	1E-05	2E-03	0E+00		2E-03
Thallium	Lake Merkel	1E-05	2E-04	0E+00		3E-04
Antimony	Huttos Lake	1E-06	0E+00	0E+00		1E-06
Antimony	Lake Merkel	1E-06	0E+00	0E+00		1E-06
Arsenic	Huttos Lake	2E-06	3E-05	0E+00		3E-05
Arsenic	Lake Merkel	2E-06	4E-06	0E+00		6E-06
Barium	Huttos Lake	1E-06	0E+00	0E+00	3E-05	1E-06
Barium	Lake Merkel	1E-06	0E+00	0E+00	3E-05	1E-06
Beryllium	Huttos Lake	2E-06	2E-06	0E+00		4E-06
Beryllium	Lake Merkel	2E-06	3E-07	0E+00		2E-06
Cadmium	Huttos Lake	1E-05	3E-03	0E+00		3E-03
Cadmium	Lake Merkel	1E-05	4E-04	0E+00		4E-04
Chromium VI	Huttos Lake	7E-09	4E-08	0E+00		4E-08
Chromium VI	Lake Merkel	7E-09	5E-09	0E+00		1E-08
Chromium III	Huttos Lake	1E-07	1E-10	0E+00		1E-07
Chromium III	Lake Merkel	1E-07	3E-11	0E+00		1E-07
Cobalt	Huttos Lake	4E-08	0E+00	0E+00		4E-08
Cobalt	Lake Merkel	4E-08	0E+00	0E+00		4E-08
Hydrogen Chloride	Huttos Lake				3E-03	
Hydrogen Chloride	Lake Merkel				3E-03	
Selenium	Huttos Lake	2E-08	8E-04	0E+00		8E-04
Selenium	Lake Merkel	2E-08	1E-04	0E+00		1E-04
Chlorine	Huttos Lake				2E-03	
Chlorine	Lake Merkel				2E-03	
Methylmercury - Developmental Effects	Huttos Lake	7E-06	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Lake Merkel	7E-06	2E-01	0E+00		2E-01

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Huttos Lake	2E-06	7E-02	0E+00		7E-02
Methylmercury - Neurological Effects	Lake Merkel	2E-06	7E-02	0E+00		7E-02

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Huttos Lake	3E-09	1E-06	0E+00	7E-10	1E-06
2,3,7,8-TCDD-TEQ	Lake Merkel	3E-09	4E-07	0E+00	7E-10	4E-07
Nickel	Huttos Lake				1E-10	
Nickel	Lake Merkel				1E-10	
Arsenic	Huttos Lake	7E-11	3E-09	0E+00	1E-09	3E-09
Arsenic	Lake Merkel	7E-11	5E-10	0E+00	1E-09	5E-10
Beryllium	Huttos Lake				2E-10	
Beryllium	Lake Merkel				2E-10	
Cadmium	Huttos Lake				3E-09	
Cadmium	Lake Merkel				3E-09	
Chromium VI	Huttos Lake				6E-10	
Chromium VI	Lake Merkel				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Huttos Lake	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Lake Merkel	1E-08	0E+00	0E+00	2E-04	1E-08
Mercury (elemental)	Huttos Lake				1E-05	
Mercury (elemental)	Lake Merkel				1E-05	
Mercury (divalent)	Huttos Lake	4E-05		0E+00		4E-05
Mercury (divalent)	Lake Merkel	4E-05		0E+00		4E-05
Nickel	Huttos Lake	9E-09	1E-07	0E+00		1E-07
Nickel	Lake Merkel	9E-09	2E-08	0E+00		3E-08
Silver	Huttos Lake	3E-10	0E+00	0E+00		3E-10
Silver	Lake Merkel	3E-10	0E+00	0E+00		3E-10
Thallium	Huttos Lake	5E-06	2E-03	0E+00		2E-03
Thallium	Lake Merkel	5E-06	2E-04	0E+00		3E-04
Antimony	Huttos Lake	5E-07	0E+00	0E+00		5E-07
Antimony	Lake Merkel	5E-07	0E+00	0E+00		5E-07
Arsenic	Huttos Lake	6E-07	3E-05	0E+00		3E-05
Arsenic	Lake Merkel	6E-07	4E-06	0E+00		5E-06
Barium	Huttos Lake	4E-07	0E+00	0E+00	3E-05	4E-07
Barium	Lake Merkel	4E-07	0E+00	0E+00	3E-05	4E-07
Beryllium	Huttos Lake	7E-07	2E-06	0E+00		3E-06
Beryllium	Lake Merkel	7E-07	3E-07	0E+00		1E-06
Cadmium	Huttos Lake	4E-06	3E-03	0E+00		3E-03
Cadmium	Lake Merkel	4E-06	4E-04	0E+00		4E-04
Chromium VI	Huttos Lake	3E-09	4E-08	0E+00		4E-08
Chromium VI	Lake Merkel	3E-09	5E-09	0E+00		8E-09
Chromium III	Huttos Lake	4E-08	1E-10	0E+00		4E-08
Chromium III	Lake Merkel	4E-08	3E-11	0E+00		4E-08
Cobalt	Huttos Lake	2E-08	0E+00	0E+00		2E-08
Cobalt	Lake Merkel	2E-08	0E+00	0E+00		2E-08
Hydrogen Chloride	Huttos Lake				3E-03	
Hydrogen Chloride	Lake Merkel				3E-03	
Selenium	Huttos Lake	9E-09	8E-04	0E+00		8E-04
Selenium	Lake Merkel	9E-09	1E-04	0E+00		1E-04
Chlorine	Huttos Lake				2E-03	
Chlorine	Lake Merkel				2E-03	
Methylmercury - Developmental Effects	Huttos Lake	3E-06	2E-01	0E+00		2E-01
Methylmercury - Developmental Effects	Lake Merkel	3E-06	2E-01	0E+00		2E-01

Table IX-B26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 205, 206) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Huttos Lake	9E-07	7E-02	0E+00		7E-02
Methylmercury - Neurological Effects	Lake Merkel	9E-07	7E-02	0E+00		7E-02

Table IX-B27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	5E-10	8E-10	1E-09	2E-07	2E-06	3E-08	3E-07	2E-07	2E-07		8E-10	3E-06
Nickel												1E-10	
Arsenic	4E-10	1E-10	5E-11	2E-10	5E-10	9E-10	5E-11			4E-09		9E-10	6E-09
Beryllium												6E-10	
Cadmium												2E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-07	3E-07	1E-07	5E-07	8E-08	4E-06	8E-09			0E+00		2E-04	5E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	6E-05	3E-05	3E-04	2E-03	1E-06						3E-03
Nickel	3E-07	1E-07	5E-08	2E-07	2E-06	2E-05	1E-07			1E-06			3E-05
Silver	1E-08	1E-07	3E-08	2E-07	1E-06	5E-04	5E-08			0E+00			5E-04
Thallium	2E-04	1E-05	9E-07	4E-05	4E-03	1E-02	6E-04			1E-02			3E-02
Antimony	6E-06	2E-05	6E-06	4E-05	5E-05	3E-04	2E-06			0E+00			4E-04
Arsenic	9E-06	3E-06	1E-06	6E-06	1E-05	2E-05	1E-06			1E-04			2E-04
Barium	2E-04	2E-05	5E-06	4E-05	9E-06	1E-03	1E-06			0E+00		1E-03	1E-03
Beryllium	2E-05	3E-07	6E-08	7E-07	3E-06	1E-07	1E-06			1E-06			3E-05
Cadmium	4E-05	4E-05	2E-05	7E-05	3E-06	1E-05	7E-07			3E-03			3E-03
Chromium VI	8E-08	2E-08	8E-09	4E-08	6E-07	9E-06	4E-08			3E-07			1E-05
Chromium III	6E-08	6E-10	4E-10	2E-09	4E-08	5E-07	2E-08			5E-12			6E-07
Cobalt	3E-07	5E-08	3E-10	1E-07	4E-06	2E-05	4E-07			0E+00			3E-05
Hydrogen Chloride												4E-03	
Selenium	1E-07	6E-08	8E-08	2E-07	1E-06	9E-05	4E-06			4E-03			4E-03
Chlorine												7E-04	
Methylmercury - Developmental Effects	3E-05	4E-06	8E-06	4E-06	2E-05	2E-04	7E-08			2E-01			2E-01
Methylmercury - Neurological Effects	1E-05	1E-06	3E-06	1E-06	8E-06	8E-05	2E-08			6E-02			6E-02

Table IX-B27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	4E-10	7E-10	2E-09	3E-07	1E-06	3E-08	3E-07	2E-07	2E-07		1E-09	2E-06
Nickel												2E-10	
Arsenic	1E-10	8E-11	5E-11	3E-10	8E-10	6E-10	4E-11			4E-09		1E-09	6E-09
Beryllium												6E-10	
Cadmium												2E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	7E-08	1E-07	1E-07	5E-07	1E-07	2E-06	5E-09			0E+00		2E-04	3E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	7E-06	4E-05	3E-05	3E-04	1E-03	7E-07						2E-03
Nickel	7E-08	6E-08	3E-08	2E-07	3E-06	1E-05	9E-08			8E-07			1E-05
Silver	3E-09	6E-08	2E-08	2E-07	2E-06	3E-04	3E-08			0E+00			3E-04
Thallium	6E-05	7E-06	7E-07	4E-05	5E-03	6E-03	3E-04			1E-02			2E-02
Antimony	2E-06	1E-05	4E-06	4E-05	6E-05	1E-04	1E-06			0E+00			3E-04
Arsenic	2E-06	2E-06	9E-07	6E-06	1E-05	1E-05	7E-07			8E-05			1E-04
Barium	5E-05	1E-05	3E-06	4E-05	1E-05	6E-04	8E-07			0E+00		1E-03	7E-04
Beryllium	6E-06	2E-07	4E-08	7E-07	4E-06	6E-08	6E-07			1E-06			1E-05
Cadmium	1E-05	2E-05	1E-05	7E-05	4E-06	6E-06	4E-07			2E-03			2E-03
Chromium VI	2E-08	9E-09	6E-09	4E-08	7E-07	5E-06	2E-08			2E-07			6E-06
Chromium III	2E-08	3E-10	3E-10	2E-09	5E-08	3E-07	9E-09			4E-12			3E-07
Cobalt	8E-08	3E-08	2E-10	1E-07	5E-06	1E-05	3E-07			0E+00			2E-05
Hydrogen Chloride												4E-03	
Selenium	3E-08	3E-08	5E-08	2E-07	1E-06	5E-05	3E-06			3E-03			3E-03
Chlorine												7E-04	
Methylmercury - Developmental Effects	8E-06	2E-06	5E-06	4E-06	3E-05	1E-04	4E-08			1E-01			1E-01
Methylmercury - Neurological Effects	3E-06	7E-07	2E-06	1E-06	1E-05	4E-05	1E-08			5E-02			5E-02

Table IX-B27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	3E-10	5E-10	8E-10	1E-07	6E-07	2E-08	2E-07	1E-07	1E-07		6E-10	1E-06
Nickel												1E-10	
Arsenic	7E-11	6E-11	3E-11	2E-10	4E-10	3E-10	3E-11			2E-09		7E-10	3E-09
Beryllium												4E-10	
Cadmium												1E-09	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	7E-08	3E-07	5E-08	1E-06	3E-09			0E+00		2E-04	1E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	7E-05	6E-06	3E-05	2E-05	2E-04	6E-04	5E-07			0E+00			8E-04
Nickel	4E-08	4E-08	2E-08	1E-07	1E-06	5E-06	6E-08			4E-07			7E-06
Silver	1E-09	4E-08	2E-08	1E-07	7E-07	1E-04	2E-08			0E+00			1E-04
Thallium	3E-05	6E-06	5E-07	2E-05	2E-03	3E-03	2E-04			6E-03			1E-02
Antimony	8E-07	8E-06	3E-06	2E-05	3E-05	7E-05	8E-07			0E+00			1E-04
Arsenic	1E-06	1E-06	7E-07	3E-06	7E-06	5E-06	5E-07			4E-05			6E-05
Barium	3E-05	8E-06	2E-06	2E-05	5E-06	3E-04	5E-07			0E+00		1E-03	3E-04
Beryllium	3E-06	1E-07	3E-08	3E-07	2E-06	3E-08	4E-07			6E-07			6E-06
Cadmium	6E-06	2E-05	9E-06	4E-05	2E-06	3E-06	3E-07			1E-03			1E-03
Chromium VI	1E-08	7E-09	4E-09	2E-08	3E-07	2E-06	2E-08			1E-07			3E-06
Chromium III	8E-09	3E-10	2E-10	8E-10	2E-08	1E-07	6E-09			2E-12			2E-07
Cobalt	4E-08	2E-08	2E-10	6E-08	2E-06	5E-06	2E-07			0E+00			8E-06
Hydrogen Chloride												4E-03	
Selenium	1E-08	3E-08	4E-08	8E-08	6E-07	2E-05	2E-06			2E-03			2E-03
Chlorine												7E-04	
Methylmercury - Developmental Effects	4E-06	2E-06	4E-06	2E-06	1E-05	6E-05	3E-08			7E-02			7E-02
Methylmercury - Neurological Effects	1E-06	5E-07	1E-06	7E-07	4E-06	2E-05	1E-08			2E-02			2E-02

Table IX-B27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	7E-10	1E-09	1E-09	3E-07	5E-07	3E-08	3E-07	2E-07	2E-07		9E-10	2E-06
Nickel												2E-10	
Arsenic	5E-11	1E-10	6E-11	3E-10	8E-10	2E-10	4E-11			5E-09		1E-09	6E-09
Beryllium												6E-10	
Cadmium												2E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	8E-08	2E-07	5E-08	4E-07	3E-09			0E+00		2E-04	1E-06
Mercury (elemental)												4E-06	
Mercury (divalent)	3E-05	8E-06	3E-05	1E-05	2E-04	2E-04	4E-07			0E+00			5E-04
Nickel	1E-08	6E-08	3E-08	1E-07	1E-06	2E-06	5E-08			5E-07			4E-06
Silver	6E-10	6E-08	2E-08	1E-07	8E-07	5E-05	2E-08			0E+00			6E-05
Thallium	1E-05	8E-06	5E-07	2E-05	3E-03	1E-03	2E-04			6E-03			1E-02
Antimony	3E-07	1E-05	3E-06	2E-05	3E-05	3E-05	7E-07			0E+00			9E-05
Arsenic	5E-07	2E-06	7E-07	3E-06	8E-06	2E-06	4E-07			4E-05			6E-05
Barium	1E-05	1E-05	3E-06	2E-05	5E-06	1E-04	5E-07			0E+00		1E-03	2E-04
Beryllium	1E-06	2E-07	3E-08	3E-07	2E-06	1E-08	4E-07			6E-07			5E-06
Cadmium	3E-06	2E-05	1E-05	3E-05	2E-06	1E-06	2E-07			1E-03			1E-03
Chromium VI	4E-09	1E-08	5E-09	2E-08	4E-07	9E-07	1E-08			1E-07			1E-06
Chromium III	3E-09	4E-10	3E-10	7E-10	3E-08	5E-08	5E-09			2E-12			9E-08
Cobalt	2E-08	3E-08	2E-10	6E-08	2E-06	2E-06	1E-07			0E+00			5E-06
Hydrogen Chloride												4E-03	
Selenium	6E-09	3E-08	4E-08	8E-08	6E-07	9E-06	1E-06			2E-03			2E-03
Chlorine												7E-04	
Methylmercury - Developmental Effects	2E-06	2E-06	4E-06	2E-06	1E-05	2E-05	2E-08			8E-02			8E-02
Methylmercury - Neurological Effects	6E-07	7E-07	1E-06	6E-07	5E-06	8E-06	8E-09			3E-02			3E-02

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armstrong Creek	2E-08	1E-06	3E-10	8E-10	1E-06
2,3,7,8-TCDD-TEQ	Waxahachie Creek	2E-08	7E-07	3E-10	8E-10	7E-07
2,3,7,8-TCDD-TEQ	Massey Lake	2E-08	3E-07	3E-10	8E-10	3E-07
2,3,7,8-TCDD-TEQ	Mountain Creek	2E-08	2E-06	3E-10	8E-10	2E-06
Nickel	Armstrong Creek				1E-10	
Nickel	Waxahachie Creek				1E-10	
Nickel	Massey Lake				1E-10	
Nickel	Mountain Creek				1E-10	
Arsenic	Armstrong Creek	4E-10	3E-10	5E-09	9E-10	6E-09
Arsenic	Waxahachie Creek	4E-10	6E-10	5E-09	9E-10	6E-09
Arsenic	Massey Lake	4E-10	5E-10	5E-09	9E-10	6E-09
Arsenic	Mountain Creek	4E-10	9E-10	5E-09	9E-10	7E-09
Beryllium	Armstrong Creek				6E-10	
Beryllium	Waxahachie Creek				6E-10	
Beryllium	Massey Lake				6E-10	
Beryllium	Mountain Creek				6E-10	
Cadmium	Armstrong Creek				2E-09	
Cadmium	Waxahachie Creek				2E-09	
Cadmium	Massey Lake				2E-09	
Cadmium	Mountain Creek				2E-09	
Chromium VI	Armstrong Creek				6E-10	
Chromium VI	Waxahachie Creek				6E-10	
Chromium VI	Massey Lake				6E-10	
Chromium VI	Mountain Creek				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Armstrong Creek	3E-07	0E+00	2E-06	2E-04	2E-06
Manganese	Waxahachie Creek	3E-07	0E+00	2E-06	2E-04	2E-06
Manganese	Massey Lake	3E-07	0E+00	2E-06	2E-04	2E-06
Manganese	Mountain Creek	3E-07	0E+00	2E-06	2E-04	2E-06
Mercury (elemental)	Armstrong Creek				4E-06	
Mercury (elemental)	Waxahachie Creek				4E-06	
Mercury (elemental)	Massey Lake				4E-06	
Mercury (elemental)	Mountain Creek				4E-06	
Mercury (divalent)	Armstrong Creek	5E-04		4E-05		5E-04
Mercury (divalent)	Waxahachie Creek	5E-04		4E-05		5E-04
Mercury (divalent)	Massey Lake	5E-04		4E-05		5E-04
Mercury (divalent)	Mountain Creek	5E-04		4E-05		5E-04
Nickel	Armstrong Creek	3E-07	6E-08	5E-06		6E-06
Nickel	Waxahachie Creek	3E-07	1E-07	5E-06		6E-06
Nickel	Massey Lake	3E-07	1E-07	5E-06		6E-06
Nickel	Mountain Creek	3E-07	2E-07	5E-06		6E-06
Silver	Armstrong Creek	1E-08	0E+00	8E-06		8E-06
Silver	Waxahachie Creek	1E-08	0E+00	8E-06		8E-06
Silver	Massey Lake	1E-08	0E+00	8E-06		8E-06
Silver	Mountain Creek	1E-08	0E+00	8E-06		8E-06
Thallium	Armstrong Creek	2E-04	2E-03	2E-03		4E-03
Thallium	Waxahachie Creek	2E-04	3E-03	2E-03		5E-03
Thallium	Massey Lake	2E-04	3E-03	2E-03		5E-03
Thallium	Mountain Creek	2E-04	6E-03	2E-03		7E-03

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Armstrong Creek	6E-06	0E+00	1E-03		1E-03
Antimony	Waxahachie Creek	6E-06	0E+00	1E-03		1E-03
Antimony	Massey Lake	6E-06	0E+00	1E-03		1E-03
Antimony	Mountain Creek	6E-06	0E+00	1E-03		1E-03
Arsenic	Armstrong Creek	9E-06	7E-06	1E-04		1E-04
Arsenic	Waxahachie Creek	9E-06	1E-05	1E-04		2E-04
Arsenic	Massey Lake	9E-06	1E-05	1E-04		2E-04
Arsenic	Mountain Creek	9E-06	2E-05	1E-04		2E-04
Barium	Armstrong Creek	2E-04	0E+00	4E-05	1E-03	2E-04
Barium	Waxahachie Creek	2E-04	0E+00	4E-05	1E-03	2E-04
Barium	Massey Lake	2E-04	0E+00	4E-05	1E-03	2E-04
Barium	Mountain Creek	2E-04	0E+00	4E-05	1E-03	2E-04
Beryllium	Armstrong Creek	2E-05	7E-06	7E-06		4E-05
Beryllium	Waxahachie Creek	2E-05	5E-06	7E-06		3E-05
Beryllium	Massey Lake	2E-05	3E-06	7E-06		3E-05
Beryllium	Mountain Creek	2E-05	1E-05	7E-06		4E-05
Cadmium	Armstrong Creek	4E-05	6E-04	4E-04		1E-03
Cadmium	Waxahachie Creek	4E-05	1E-03	4E-04		2E-03
Cadmium	Massey Lake	4E-05	1E-03	4E-04		1E-03
Cadmium	Mountain Creek	4E-05	2E-03	4E-04		2E-03
Chromium VI	Armstrong Creek	8E-08	2E-08	2E-06		2E-06
Chromium VI	Waxahachie Creek	8E-08	3E-08	2E-06		2E-06
Chromium VI	Massey Lake	8E-08	3E-08	2E-06		2E-06
Chromium VI	Mountain Creek	8E-08	5E-08	2E-06		2E-06
Chromium III	Armstrong Creek	6E-08	2E-10	3E-11		6E-08
Chromium III	Waxahachie Creek	6E-08	1E-10	3E-11		6E-08
Chromium III	Massey Lake	6E-08	6E-11	3E-11		6E-08
Chromium III	Mountain Creek	6E-08	3E-10	3E-11		6E-08
Cobalt	Armstrong Creek	3E-07	0E+00	3E-11		3E-07
Cobalt	Waxahachie Creek	3E-07	0E+00	3E-11		3E-07
Cobalt	Massey Lake	3E-07	0E+00	3E-11		3E-07
Cobalt	Mountain Creek	3E-07	0E+00	3E-11		3E-07
Hydrogen Chloride	Armstrong Creek				4E-03	
Hydrogen Chloride	Waxahachie Creek				4E-03	
Hydrogen Chloride	Massey Lake				4E-03	
Hydrogen Chloride	Mountain Creek				4E-03	
Selenium	Armstrong Creek	1E-07	2E-04	9E-06		2E-04
Selenium	Waxahachie Creek	1E-07	3E-04	9E-06		3E-04
Selenium	Massey Lake	1E-07	3E-04	9E-06		3E-04
Selenium	Mountain Creek	1E-07	6E-04	9E-06		6E-04
Chlorine	Armstrong Creek				7E-04	
Chlorine	Waxahachie Creek				7E-04	
Chlorine	Massey Lake				7E-04	
Chlorine	Mountain Creek				7E-04	
Methylmercury - Developmental Effects	Armstrong Creek	3E-05	4E-01	2E-06		4E-01
Methylmercury - Developmental Effects	Waxahachie Creek	3E-05	2E-01	2E-06		2E-01
Methylmercury - Developmental Effects	Massey Lake	3E-05	2E-01	2E-06		2E-01
Methylmercury - Developmental Effects	Mountain Creek	3E-05	4E-01	2E-06		4E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Armstrong Creek	1E-05	1E-01	5E-07		1E-01
Methylmercury - Neurological Effects	Waxahachie Creek	1E-05	8E-02	5E-07		8E-02
Methylmercury - Neurological Effects	Massey Lake	1E-05	6E-02	5E-07		6E-02
Methylmercury - Neurological Effects	Mountain Creek	1E-05	1E-01	5E-07		1E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armstrong Creek	6E-09	1E-06	3E-10	1E-09	1E-06
2,3,7,8-TCDD-TEQ	Waxahachie Creek	6E-09	9E-07	3E-10	1E-09	9E-07
2,3,7,8-TCDD-TEQ	Massey Lake	6E-09	4E-07	3E-10	1E-09	4E-07
2,3,7,8-TCDD-TEQ	Mountain Creek	6E-09	2E-06	3E-10	1E-09	2E-06
Nickel	Armstrong Creek				2E-10	
Nickel	Waxahachie Creek				2E-10	
Nickel	Massey Lake				2E-10	
Nickel	Mountain Creek				2E-10	
Arsenic	Armstrong Creek	1E-10	4E-10	4E-09	1E-09	5E-09
Arsenic	Waxahachie Creek	1E-10	8E-10	4E-09	1E-09	5E-09
Arsenic	Massey Lake	1E-10	7E-10	4E-09	1E-09	5E-09
Arsenic	Mountain Creek	1E-10	1E-09	4E-09	1E-09	6E-09
Beryllium	Armstrong Creek				6E-10	
Beryllium	Waxahachie Creek				6E-10	
Beryllium	Massey Lake				6E-10	
Beryllium	Mountain Creek				6E-10	
Cadmium	Armstrong Creek				2E-09	
Cadmium	Waxahachie Creek				2E-09	
Cadmium	Massey Lake				2E-09	
Cadmium	Mountain Creek				2E-09	
Chromium VI	Armstrong Creek				7E-10	
Chromium VI	Waxahachie Creek				7E-10	
Chromium VI	Massey Lake				7E-10	
Chromium VI	Mountain Creek				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Armstrong Creek	7E-08	0E+00	1E-06	2E-04	1E-06
Manganese	Waxahachie Creek	7E-08	0E+00	1E-06	2E-04	1E-06
Manganese	Massey Lake	7E-08	0E+00	1E-06	2E-04	1E-06
Manganese	Mountain Creek	7E-08	0E+00	1E-06	2E-04	1E-06
Mercury (elemental)	Armstrong Creek				4E-06	
Mercury (elemental)	Waxahachie Creek				4E-06	
Mercury (elemental)	Massey Lake				4E-06	
Mercury (elemental)	Mountain Creek				4E-06	
Mercury (divalent)	Armstrong Creek	1E-04		2E-05		2E-04
Mercury (divalent)	Waxahachie Creek	1E-04		2E-05		2E-04
Mercury (divalent)	Massey Lake	1E-04		2E-05		2E-04
Mercury (divalent)	Mountain Creek	1E-04		2E-05		2E-04
Nickel	Armstrong Creek	7E-08	6E-08	3E-06		3E-06
Nickel	Waxahachie Creek	7E-08	1E-07	3E-06		3E-06
Nickel	Massey Lake	7E-08	1E-07	3E-06		3E-06
Nickel	Mountain Creek	7E-08	2E-07	3E-06		3E-06
Silver	Armstrong Creek	3E-09	0E+00	4E-06		4E-06
Silver	Waxahachie Creek	3E-09	0E+00	4E-06		4E-06
Silver	Massey Lake	3E-09	0E+00	4E-06		4E-06
Silver	Mountain Creek	3E-09	0E+00	4E-06		4E-06
Thallium	Armstrong Creek	6E-05	2E-03	9E-04		3E-03
Thallium	Waxahachie Creek	6E-05	3E-03	9E-04		4E-03
Thallium	Massey Lake	6E-05	3E-03	9E-04		4E-03
Thallium	Mountain Creek	6E-05	6E-03	9E-04		6E-03

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Armstrong Creek	2E-06	0E+00	6E-04		6E-04
Antimony	Waxahachie Creek	2E-06	0E+00	6E-04		6E-04
Antimony	Massey Lake	2E-06	0E+00	6E-04		6E-04
Antimony	Mountain Creek	2E-06	0E+00	6E-04		6E-04
Arsenic	Armstrong Creek	2E-06	7E-06	7E-05		8E-05
Arsenic	Waxahachie Creek	2E-06	1E-05	7E-05		9E-05
Arsenic	Massey Lake	2E-06	1E-05	7E-05		9E-05
Arsenic	Mountain Creek	2E-06	2E-05	7E-05		1E-04
Barium	Armstrong Creek	5E-05	0E+00	2E-05	1E-03	7E-05
Barium	Waxahachie Creek	5E-05	0E+00	2E-05	1E-03	7E-05
Barium	Massey Lake	5E-05	0E+00	2E-05	1E-03	7E-05
Barium	Mountain Creek	5E-05	0E+00	2E-05	1E-03	7E-05
Beryllium	Armstrong Creek	6E-06	7E-06	4E-06		2E-05
Beryllium	Waxahachie Creek	6E-06	5E-06	4E-06		2E-05
Beryllium	Massey Lake	6E-06	3E-06	4E-06		1E-05
Beryllium	Mountain Creek	6E-06	1E-05	4E-06		2E-05
Cadmium	Armstrong Creek	1E-05	6E-04	2E-04		8E-04
Cadmium	Waxahachie Creek	1E-05	1E-03	2E-04		1E-03
Cadmium	Massey Lake	1E-05	1E-03	2E-04		1E-03
Cadmium	Mountain Creek	1E-05	2E-03	2E-04		2E-03
Chromium VI	Armstrong Creek	2E-08	2E-08	1E-06		1E-06
Chromium VI	Waxahachie Creek	2E-08	3E-08	1E-06		1E-06
Chromium VI	Massey Lake	2E-08	3E-08	1E-06		1E-06
Chromium VI	Mountain Creek	2E-08	5E-08	1E-06		1E-06
Chromium III	Armstrong Creek	2E-08	2E-10	2E-11		2E-08
Chromium III	Waxahachie Creek	2E-08	1E-10	2E-11		2E-08
Chromium III	Massey Lake	2E-08	6E-11	2E-11		2E-08
Chromium III	Mountain Creek	2E-08	3E-10	2E-11		2E-08
Cobalt	Armstrong Creek	8E-08	0E+00	2E-11		8E-08
Cobalt	Waxahachie Creek	8E-08	0E+00	2E-11		8E-08
Cobalt	Massey Lake	8E-08	0E+00	2E-11		8E-08
Cobalt	Mountain Creek	8E-08	0E+00	2E-11		8E-08
Hydrogen Chloride	Armstrong Creek				4E-03	
Hydrogen Chloride	Waxahachie Creek				4E-03	
Hydrogen Chloride	Massey Lake				4E-03	
Hydrogen Chloride	Mountain Creek				4E-03	
Selenium	Armstrong Creek	3E-08	2E-04	5E-06		2E-04
Selenium	Waxahachie Creek	3E-08	3E-04	5E-06		3E-04
Selenium	Massey Lake	3E-08	3E-04	5E-06		3E-04
Selenium	Mountain Creek	3E-08	6E-04	5E-06		6E-04
Chlorine	Armstrong Creek				7E-04	
Chlorine	Waxahachie Creek				7E-04	
Chlorine	Massey Lake				7E-04	
Chlorine	Mountain Creek				7E-04	
Methylmercury - Developmental Effects	Armstrong Creek	8E-06	4E-01	9E-07		4E-01
Methylmercury - Developmental Effects	Waxahachie Creek	8E-06	2E-01	9E-07		2E-01
Methylmercury - Developmental Effects	Massey Lake	8E-06	2E-01	9E-07		2E-01
Methylmercury - Developmental Effects	Mountain Creek	8E-06	4E-01	9E-07		4E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Armstrong Creek	3E-06	1E-01	3E-07		1E-01
Methylmercury - Neurological Effects	Waxahachie Creek	3E-06	8E-02	3E-07		8E-02
Methylmercury - Neurological Effects	Massey Lake	3E-06	6E-02	3E-07		6E-02
Methylmercury - Neurological Effects	Mountain Creek	3E-06	1E-01	3E-07		1E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armstrong Creek	3E-09	1E-06	2E-10	6E-10	1E-06
2,3,7,8-TCDD-TEQ	Waxahachie Creek	3E-09	7E-07	2E-10	6E-10	7E-07
2,3,7,8-TCDD-TEQ	Massey Lake	3E-09	3E-07	2E-10	6E-10	3E-07
2,3,7,8-TCDD-TEQ	Mountain Creek	3E-09	2E-06	2E-10	6E-10	2E-06
Nickel	Armstrong Creek				1E-10	
Nickel	Waxahachie Creek				1E-10	
Nickel	Massey Lake				1E-10	
Nickel	Mountain Creek				1E-10	
Arsenic	Armstrong Creek	7E-11	3E-10	3E-09	7E-10	3E-09
Arsenic	Waxahachie Creek	7E-11	6E-10	3E-09	7E-10	3E-09
Arsenic	Massey Lake	7E-11	5E-10	3E-09	7E-10	3E-09
Arsenic	Mountain Creek	7E-11	9E-10	3E-09	7E-10	4E-09
Beryllium	Armstrong Creek				4E-10	
Beryllium	Waxahachie Creek				4E-10	
Beryllium	Massey Lake				4E-10	
Beryllium	Mountain Creek				4E-10	
Cadmium	Armstrong Creek				1E-09	
Cadmium	Waxahachie Creek				1E-09	
Cadmium	Massey Lake				1E-09	
Cadmium	Mountain Creek				1E-09	
Chromium VI	Armstrong Creek				4E-10	
Chromium VI	Waxahachie Creek				4E-10	
Chromium VI	Massey Lake				4E-10	
Chromium VI	Mountain Creek				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Armstrong Creek	4E-08	0E+00	7E-07	2E-04	7E-07
Manganese	Waxahachie Creek	4E-08	0E+00	7E-07	2E-04	7E-07
Manganese	Massey Lake	4E-08	0E+00	7E-07	2E-04	7E-07
Manganese	Mountain Creek	4E-08	0E+00	7E-07	2E-04	7E-07
Mercury (elemental)	Armstrong Creek				4E-06	
Mercury (elemental)	Waxahachie Creek				4E-06	
Mercury (elemental)	Massey Lake				4E-06	
Mercury (elemental)	Mountain Creek				4E-06	
Mercury (divalent)	Armstrong Creek	7E-05		1E-05		8E-05
Mercury (divalent)	Waxahachie Creek	7E-05		1E-05		8E-05
Mercury (divalent)	Massey Lake	7E-05		1E-05		8E-05
Mercury (divalent)	Mountain Creek	7E-05		1E-05		8E-05
Nickel	Armstrong Creek	4E-08	4E-08	2E-06		2E-06
Nickel	Waxahachie Creek	4E-08	9E-08	2E-06		2E-06
Nickel	Massey Lake	4E-08	9E-08	2E-06		2E-06
Nickel	Mountain Creek	4E-08	2E-07	2E-06		2E-06
Silver	Armstrong Creek	1E-09	0E+00	3E-06		3E-06
Silver	Waxahachie Creek	1E-09	0E+00	3E-06		3E-06
Silver	Massey Lake	1E-09	0E+00	3E-06		3E-06
Silver	Mountain Creek	1E-09	0E+00	3E-06		3E-06
Thallium	Armstrong Creek	3E-05	1E-03	6E-04		2E-03
Thallium	Waxahachie Creek	3E-05	2E-03	6E-04		3E-03
Thallium	Massey Lake	3E-05	2E-03	6E-04		3E-03
Thallium	Mountain Creek	3E-05	4E-03	6E-04		5E-03

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Armstrong Creek	8E-07	0E+00	4E-04		4E-04
Antimony	Waxahachie Creek	8E-07	0E+00	4E-04		4E-04
Antimony	Massey Lake	8E-07	0E+00	4E-04		4E-04
Antimony	Mountain Creek	8E-07	0E+00	4E-04		4E-04
Arsenic	Armstrong Creek	1E-06	5E-06	5E-05		5E-05
Arsenic	Waxahachie Creek	1E-06	1E-05	5E-05		6E-05
Arsenic	Massey Lake	1E-06	9E-06	5E-05		6E-05
Arsenic	Mountain Creek	1E-06	2E-05	5E-05		7E-05
Barium	Armstrong Creek	3E-05	0E+00	1E-05	1E-03	4E-05
Barium	Waxahachie Creek	3E-05	0E+00	1E-05	1E-03	4E-05
Barium	Massey Lake	3E-05	0E+00	1E-05	1E-03	4E-05
Barium	Mountain Creek	3E-05	0E+00	1E-05	1E-03	4E-05
Beryllium	Armstrong Creek	3E-06	5E-06	3E-06		1E-05
Beryllium	Waxahachie Creek	3E-06	4E-06	3E-06		9E-06
Beryllium	Massey Lake	3E-06	2E-06	3E-06		7E-06
Beryllium	Mountain Creek	3E-06	7E-06	3E-06		1E-05
Cadmium	Armstrong Creek	6E-06	4E-04	1E-04		5E-04
Cadmium	Waxahachie Creek	6E-06	8E-04	1E-04		9E-04
Cadmium	Massey Lake	6E-06	7E-04	1E-04		8E-04
Cadmium	Mountain Creek	6E-06	1E-03	1E-04		1E-03
Chromium VI	Armstrong Creek	1E-08	1E-08	6E-07		7E-07
Chromium VI	Waxahachie Creek	1E-08	2E-08	6E-07		7E-07
Chromium VI	Massey Lake	1E-08	2E-08	6E-07		7E-07
Chromium VI	Mountain Creek	1E-08	4E-08	6E-07		7E-07
Chromium III	Armstrong Creek	8E-09	2E-10	1E-11		8E-09
Chromium III	Waxahachie Creek	8E-09	9E-11	1E-11		8E-09
Chromium III	Massey Lake	8E-09	4E-11	1E-11		8E-09
Chromium III	Mountain Creek	8E-09	2E-10	1E-11		8E-09
Cobalt	Armstrong Creek	4E-08	0E+00	1E-06		1E-06
Cobalt	Waxahachie Creek	4E-08	0E+00	1E-06		1E-06
Cobalt	Massey Lake	4E-08	0E+00	1E-06		1E-06
Cobalt	Mountain Creek	4E-08	0E+00	1E-06		1E-06
Hydrogen Chloride	Armstrong Creek				4E-03	
Hydrogen Chloride	Waxahachie Creek				4E-03	
Hydrogen Chloride	Massey Lake				4E-03	
Hydrogen Chloride	Mountain Creek				4E-03	
Selenium	Armstrong Creek	1E-08	1E-04	3E-06		1E-04
Selenium	Waxahachie Creek	1E-08	2E-04	3E-06		2E-04
Selenium	Massey Lake	1E-08	2E-04	3E-06		2E-04
Selenium	Mountain Creek	1E-08	4E-04	3E-06		4E-04
Chlorine	Armstrong Creek				7E-04	
Chlorine	Waxahachie Creek				7E-04	
Chlorine	Massey Lake				7E-04	
Chlorine	Mountain Creek				7E-04	
Methylmercury - Developmental Effects	Armstrong Creek	4E-06	3E-01	6E-07		3E-01
Methylmercury - Developmental Effects	Waxahachie Creek	4E-06	2E-01	6E-07		2E-01
Methylmercury - Developmental Effects	Massey Lake	4E-06	1E-01	6E-07		1E-01
Methylmercury - Developmental Effects	Mountain Creek	4E-06	3E-01	6E-07		3E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Armstrong Creek	1E-06	1E-01	2E-07		1E-01
Methylmercury - Neurological Effects	Waxahachie Creek	1E-06	6E-02	2E-07		6E-02
Methylmercury - Neurological Effects	Massey Lake	1E-06	4E-02	2E-07		4E-02
Methylmercury - Neurological Effects	Mountain Creek	1E-06	1E-01	2E-07		1E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armstrong Creek	2E-09	2E-06	3E-10	9E-10	2E-06
2,3,7,8-TCDD-TEQ	Waxahachie Creek	2E-09	1E-06	3E-10	9E-10	1E-06
2,3,7,8-TCDD-TEQ	Massey Lake	2E-09	5E-07	3E-10	9E-10	5E-07
2,3,7,8-TCDD-TEQ	Mountain Creek	2E-09	3E-06	3E-10	9E-10	3E-06
Nickel	Armstrong Creek				2E-10	
Nickel	Waxahachie Creek				2E-10	
Nickel	Massey Lake				2E-10	
Nickel	Mountain Creek				2E-10	
Arsenic	Armstrong Creek	5E-11	5E-10	6E-09	1E-09	7E-09
Arsenic	Waxahachie Creek	5E-11	1E-09	6E-09	1E-09	7E-09
Arsenic	Massey Lake	5E-11	1E-09	6E-09	1E-09	7E-09
Arsenic	Mountain Creek	5E-11	2E-09	6E-09	1E-09	8E-09
Beryllium	Armstrong Creek				6E-10	
Beryllium	Waxahachie Creek				6E-10	
Beryllium	Massey Lake				6E-10	
Beryllium	Mountain Creek				6E-10	
Cadmium	Armstrong Creek				2E-09	
Cadmium	Waxahachie Creek				2E-09	
Cadmium	Massey Lake				2E-09	
Cadmium	Mountain Creek				2E-09	
Chromium VI	Armstrong Creek				6E-10	
Chromium VI	Waxahachie Creek				6E-10	
Chromium VI	Massey Lake				6E-10	
Chromium VI	Mountain Creek				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Armstrong Creek	1E-08	0E+00	8E-07	2E-04	8E-07
Manganese	Waxahachie Creek	1E-08	0E+00	8E-07	2E-04	8E-07
Manganese	Massey Lake	1E-08	0E+00	8E-07	2E-04	8E-07
Manganese	Mountain Creek	1E-08	0E+00	8E-07	2E-04	8E-07
Mercury (elemental)	Armstrong Creek				4E-06	
Mercury (elemental)	Waxahachie Creek				4E-06	
Mercury (elemental)	Massey Lake				4E-06	
Mercury (elemental)	Mountain Creek				4E-06	
Mercury (divalent)	Armstrong Creek	3E-05		2E-05		4E-05
Mercury (divalent)	Waxahachie Creek	3E-05		2E-05		4E-05
Mercury (divalent)	Massey Lake	3E-05		2E-05		4E-05
Mercury (divalent)	Mountain Creek	3E-05		2E-05		4E-05
Nickel	Armstrong Creek	1E-08	4E-08	2E-06		2E-06
Nickel	Waxahachie Creek	1E-08	9E-08	2E-06		2E-06
Nickel	Massey Lake	1E-08	9E-08	2E-06		2E-06
Nickel	Mountain Creek	1E-08	2E-07	2E-06		2E-06
Silver	Armstrong Creek	6E-10	0E+00	3E-06		3E-06
Silver	Waxahachie Creek	6E-10	0E+00	3E-06		3E-06
Silver	Massey Lake	6E-10	0E+00	3E-06		3E-06
Silver	Mountain Creek	6E-10	0E+00	3E-06		3E-06
Thallium	Armstrong Creek	1E-05	1E-03	7E-04		2E-03
Thallium	Waxahachie Creek	1E-05	2E-03	7E-04		3E-03
Thallium	Massey Lake	1E-05	2E-03	7E-04		3E-03
Thallium	Mountain Creek	1E-05	4E-03	7E-04		5E-03

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Armstrong Creek	3E-07	0E+00	5E-04		5E-04
Antimony	Waxahachie Creek	3E-07	0E+00	5E-04		5E-04
Antimony	Massey Lake	3E-07	0E+00	5E-04		5E-04
Antimony	Mountain Creek	3E-07	0E+00	5E-04		5E-04
Arsenic	Armstrong Creek	5E-07	5E-06	6E-05		6E-05
Arsenic	Waxahachie Creek	5E-07	1E-05	6E-05		7E-05
Arsenic	Massey Lake	5E-07	9E-06	6E-05		7E-05
Arsenic	Mountain Creek	5E-07	2E-05	6E-05		7E-05
Barium	Armstrong Creek	1E-05	0E+00	1E-05	1E-03	3E-05
Barium	Waxahachie Creek	1E-05	0E+00	1E-05	1E-03	3E-05
Barium	Massey Lake	1E-05	0E+00	1E-05	1E-03	3E-05
Barium	Mountain Creek	1E-05	0E+00	1E-05	1E-03	3E-05
Beryllium	Armstrong Creek	1E-06	5E-06	3E-06		9E-06
Beryllium	Waxahachie Creek	1E-06	4E-06	3E-06		8E-06
Beryllium	Massey Lake	1E-06	2E-06	3E-06		6E-06
Beryllium	Mountain Creek	1E-06	7E-06	3E-06		1E-05
Cadmium	Armstrong Creek	3E-06	4E-04	2E-04		6E-04
Cadmium	Waxahachie Creek	3E-06	8E-04	2E-04		9E-04
Cadmium	Massey Lake	3E-06	7E-04	2E-04		9E-04
Cadmium	Mountain Creek	3E-06	1E-03	2E-04		1E-03
Chromium VI	Armstrong Creek	4E-09	1E-08	7E-07		8E-07
Chromium VI	Waxahachie Creek	4E-09	2E-08	7E-07		8E-07
Chromium VI	Massey Lake	4E-09	2E-08	7E-07		8E-07
Chromium VI	Mountain Creek	4E-09	4E-08	7E-07		8E-07
Chromium III	Armstrong Creek	3E-09	2E-10	1E-11		4E-09
Chromium III	Waxahachie Creek	3E-09	9E-11	1E-11		3E-09
Chromium III	Massey Lake	3E-09	4E-11	1E-11		3E-09
Chromium III	Mountain Creek	3E-09	2E-10	1E-11		4E-09
Cobalt	Armstrong Creek	2E-08	0E+00	1E-06		1E-06
Cobalt	Waxahachie Creek	2E-08	0E+00	1E-06		1E-06
Cobalt	Massey Lake	2E-08	0E+00	1E-06		1E-06
Cobalt	Mountain Creek	2E-08	0E+00	1E-06		1E-06
Hydrogen Chloride	Armstrong Creek				4E-03	
Hydrogen Chloride	Waxahachie Creek				4E-03	
Hydrogen Chloride	Massey Lake				4E-03	
Hydrogen Chloride	Mountain Creek				4E-03	
Selenium	Armstrong Creek	6E-09	1E-04	4E-06		1E-04
Selenium	Waxahachie Creek	6E-09	2E-04	4E-06		2E-04
Selenium	Massey Lake	6E-09	2E-04	4E-06		2E-04
Selenium	Mountain Creek	6E-09	4E-04	4E-06		4E-04
Chlorine	Armstrong Creek				7E-04	
Chlorine	Waxahachie Creek				7E-04	
Chlorine	Massey Lake				7E-04	
Chlorine	Mountain Creek				7E-04	
Methylmercury - Developmental Effects	Armstrong Creek	2E-06	3E-01	7E-07		3E-01
Methylmercury - Developmental Effects	Waxahachie Creek	2E-06	2E-01	7E-07		2E-01
Methylmercury - Developmental Effects	Massey Lake	2E-06	1E-01	7E-07		1E-01
Methylmercury - Developmental Effects	Mountain Creek	2E-06	3E-01	7E-07		3E-01

Table IX-B28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 318, 473) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Armstrong Creek	6E-07	1E-01	2E-07		1E-01
Methylmercury - Neurological Effects	Waxahachie Creek	6E-07	6E-02	2E-07		6E-02
Methylmercury - Neurological Effects	Massey Lake	6E-07	4E-02	2E-07		4E-02
Methylmercury - Neurological Effects	Mountain Creek	6E-07	1E-01	2E-07		1E-01

Table IX-B29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-08	1E-09	2E-09	3E-09	4E-07	4E-06	8E-08	9E-07	5E-07	7E-07	1E-10	2E-09	7E-06
Nickel												1E-10	
Arsenic	4E-10	1E-10	7E-11	3E-10	8E-10	1E-09	7E-11			3E-09	1E-10	1E-09	6E-09
Beryllium												1E-11	
Cadmium												2E-09	
Chromium VI												6E-11	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	1E-07	4E-07	6E-08	3E-06	5E-09			0E+00	2E-08	7E-05	4E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	6E-05	2E-04	1E-04	1E-03	1E-02	5E-06				4E-05		1E-02
Nickel	3E-07	1E-07	6E-08	3E-07	3E-06	3E-05	2E-07			6E-07	1E-07		3E-05
Silver	3E-09	4E-08	1E-08	9E-08	5E-07	2E-04	2E-08			0E+00	4E-08		2E-04
Thallium	8E-05	5E-06	3E-07	1E-05	2E-03	4E-03	2E-04			4E-03	8E-06		1E-02
Antimony	5E-08	2E-07	5E-08	3E-07	4E-07	2E-06	2E-08			0E+00	2E-07		4E-06
Arsenic	1E-05	4E-06	2E-06	9E-06	2E-05	4E-05	2E-06			7E-05	2E-06		2E-04
Barium	6E-06	6E-07	2E-07	1E-06	3E-07	4E-05	5E-08			0E+00	3E-08	2E-05	5E-05
Beryllium	8E-07	1E-08	2E-09	3E-08	1E-07	5E-09	4E-08			1E-07	5E-09		1E-06
Cadmium	9E-05	8E-05	4E-05	2E-04	7E-06	2E-05	1E-06			6E-03	1E-05		6E-03
Chromium VI	2E-08	5E-09	2E-09	1E-08	2E-07	3E-06	1E-08			4E-08	9E-09		3E-06
Chromium III	7E-08	7E-10	5E-10	2E-09	5E-08	6E-07	2E-08			1E-11	5E-12		7E-07
Cobalt	2E-07	4E-08	2E-10	9E-08	3E-06	2E-05	3E-07			0E+00	4E-08		2E-05
Hydrogen Chloride												3E-03	
Selenium	7E-06	4E-06	5E-06	1E-05	7E-05	6E-03	3E-04			9E-02	1E-05		1E-01
Chlorine												5E-04	
Methylmercury - Developmental Effects	1E-04	1E-05	3E-05	2E-05	1E-04	1E-03	3E-07			6E-01	9E-07		6E-01
Methylmercury - Neurological Effects	5E-05	5E-06	1E-05	5E-06	3E-05	3E-04	1E-07			2E-01	3E-07		2E-01

Table IX-B29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	9E-10	2E-09	4E-09	7E-07	3E-06	7E-08	9E-07	6E-07	8E-07	9E-11	2E-09	6E-06
Nickel												1E-10	
Arsenic	2E-10	1E-10	6E-11	4E-10	1E-09	1E-09	6E-11			3E-09	8E-11	1E-09	6E-09
Beryllium												1E-11	
Cadmium												3E-09	
Chromium VI												7E-11	
	Noncarcinogenic Chemicals												
Manganese	5E-08	1E-07	7E-08	4E-07	7E-08	2E-06	3E-09			0E+00	1E-08	7E-05	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	2E-04	1E-04	2E-03	6E-03	3E-06				2E-05		9E-03
Nickel	8E-08	7E-08	4E-08	3E-07	3E-06	1E-05	1E-07			5E-07	6E-08		2E-05
Silver	8E-10	2E-08	7E-09	9E-08	6E-07	1E-04	1E-08			0E+00	2E-08		1E-04
Thallium	2E-05	3E-06	2E-07	1E-05	2E-03	2E-03	1E-04			3E-03	4E-06		7E-03
Antimony	1E-08	9E-08	3E-08	3E-07	5E-07	1E-06	1E-08			0E+00	9E-08		2E-06
Arsenic	3E-06	2E-06	1E-06	8E-06	2E-05	2E-05	1E-06			5E-05	1E-06		1E-04
Barium	2E-06	4E-07	1E-07	1E-06	4E-07	2E-05	3E-08			0E+00	2E-08	2E-05	2E-05
Beryllium	2E-07	6E-09	2E-09	2E-08	1E-07	2E-09	2E-08			9E-08	3E-09		5E-07
Cadmium	2E-05	5E-05	3E-05	2E-04	8E-06	1E-05	8E-07			4E-03	6E-06		5E-03
Chromium VI	5E-09	3E-09	2E-09	1E-08	2E-07	1E-06	6E-09			3E-08	5E-09		2E-06
Chromium III	2E-08	4E-10	4E-10	2E-09	6E-08	3E-07	1E-08			1E-11	3E-12		4E-07
Cobalt	6E-08	2E-08	2E-10	9E-08	4E-06	9E-06	2E-07			0E+00	2E-08		1E-05
Hydrogen Chloride												3E-03	
Selenium	2E-06	2E-06	3E-06	1E-05	8E-05	3E-03	2E-04			7E-02	6E-06		7E-02
Chlorine												5E-04	
Methylmercury - Developmental Effects	4E-05	8E-06	2E-05	2E-05	1E-04	5E-04	2E-07			4E-01	5E-07		4E-01
Methylmercury - Neurological Effects	1E-05	3E-06	8E-06	5E-06	4E-05	2E-04	6E-08			1E-01	2E-07		1E-01

Table IX-B29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-09	7E-10	2E-09	2E-09	3E-07	1E-06	5E-08	5E-07	3E-07	4E-07	6E-11	1E-09	3E-06
Nickel												8E-11	
Arsenic	8E-11	9E-11	4E-11	2E-10	6E-10	5E-10	4E-11			2E-09	5E-11	8E-10	3E-09
Beryllium												9E-12	
Cadmium												2E-09	
Chromium VI												5E-11	
	Noncarcinogenic Chemicals												
Manganese	3E-08	9E-08	5E-08	2E-07	3E-08	7E-07	2E-09			0E+00	8E-09	7E-05	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	3E-04	2E-05	1E-04	7E-05	8E-04	3E-03	2E-06			0E+00	1E-05		4E-03
Nickel	4E-08	6E-08	3E-08	2E-07	1E-06	6E-06	7E-08			2E-07	4E-08		8E-06
Silver	4E-10	2E-08	5E-09	5E-08	3E-07	5E-05	8E-09			0E+00	2E-08		5E-05
Thallium	1E-05	2E-06	2E-07	7E-06	8E-04	1E-03	7E-05			1E-03	3E-06		3E-03
Antimony	7E-09	7E-08	2E-08	2E-07	2E-07	6E-07	7E-09			0E+00	6E-08		1E-06
Arsenic	2E-06	2E-06	9E-07	4E-06	1E-05	8E-06	7E-07			3E-05	9E-07		6E-05
Barium	9E-07	3E-07	8E-08	6E-07	2E-07	9E-06	2E-08			0E+00	1E-08	2E-05	1E-05
Beryllium	1E-07	4E-09	1E-09	1E-08	6E-08	1E-09	2E-08			5E-08	2E-09		3E-07
Cadmium	1E-05	3E-05	2E-05	8E-05	4E-06	6E-06	5E-07			2E-03	4E-06		2E-03
Chromium VI	3E-09	2E-09	1E-09	6E-09	9E-08	6E-07	4E-09			1E-08	3E-09		7E-07
Chromium III	9E-09	3E-10	3E-10	9E-10	3E-08	1E-07	7E-09			5E-12	2E-12		2E-07
Cobalt	3E-08	2E-08	1E-10	5E-08	2E-06	4E-06	1E-07			0E+00	1E-08		6E-06
Hydrogen Chloride												3E-03	
Selenium	9E-07	2E-06	2E-06	5E-06	4E-05	1E-03	1E-04			4E-02	4E-06		4E-02
Chlorine												5E-04	
Methylmercury - Developmental Effects	2E-05	6E-06	2E-05	8E-06	6E-05	2E-04	1E-07			2E-01	3E-07		2E-01
Methylmercury - Neurological Effects	6E-06	2E-06	6E-06	3E-06	2E-05	8E-05	4E-08			8E-02	1E-07		8E-02

Table IX-B29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	2E-09	3E-09	4E-09	7E-07	1E-06	7E-08	9E-07	5E-07	9E-07	1E-10	2E-09	4E-06
Nickel												1E-10	
Arsenic	7E-11	2E-10	9E-11	4E-10	1E-09	4E-10	6E-11			3E-09	1E-10	1E-09	6E-09
Beryllium												1E-11	
Cadmium												2E-09	
Chromium VI												7E-11	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-07	6E-08	2E-07	4E-08	3E-07	2E-09			0E+00	9E-09	7E-05	7E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	1E-04	3E-05	1E-04	6E-05	9E-04	1E-03	2E-06			0E+00	2E-05		3E-03
Nickel	2E-08	7E-08	3E-08	1E-07	2E-06	3E-06	6E-08			3E-07	4E-08		5E-06
Silver	2E-10	2E-08	6E-09	4E-08	3E-07	2E-05	7E-09			0E+00	2E-08		2E-05
Thallium	4E-06	3E-06	2E-07	7E-06	9E-04	4E-04	6E-05			2E-03	3E-06		3E-03
Antimony	3E-09	9E-08	3E-08	2E-07	2E-07	2E-07	6E-09			0E+00	7E-08		9E-07
Arsenic	6E-07	2E-06	1E-06	4E-06	1E-05	4E-06	6E-07			3E-05	1E-06		6E-05
Barium	4E-07	4E-07	9E-08	6E-07	2E-07	4E-06	2E-08			0E+00	1E-08	2E-05	5E-06
Beryllium	5E-08	6E-09	1E-09	1E-08	7E-08	5E-10	1E-08			5E-08	2E-09		2E-07
Cadmium	5E-06	5E-05	2E-05	7E-05	4E-06	2E-06	5E-07			3E-03	5E-06		3E-03
Chromium VI	1E-09	3E-09	1E-09	6E-09	1E-07	3E-07	4E-09			2E-08	4E-09		4E-07
Chromium III	4E-09	4E-10	3E-10	9E-10	3E-08	6E-08	6E-09			6E-12	2E-12		1E-07
Cobalt	1E-08	2E-08	1E-10	4E-08	2E-06	2E-06	1E-07			0E+00	2E-08		4E-06
Hydrogen Chloride												3E-03	
Selenium	4E-07	2E-06	3E-06	5E-06	4E-05	6E-04	9E-05			4E-02	4E-06		4E-02
Chlorine												5E-04	
Methylmercury - Developmental Effects	8E-06	8E-06	2E-05	8E-06	6E-05	1E-04	1E-07			3E-01	4E-07		3E-01
Methylmercury - Neurological Effects	3E-06	3E-06	6E-06	3E-06	2E-05	3E-05	4E-08			9E-02	1E-07		9E-02

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Beaver River	5E-08	2E-07	2E-10	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Connoquenessing Creek	5E-08	1E-06	2E-10	2E-09	1E-06
2,3,7,8-TCDD-TEQ	Slippery Rock Creek	5E-08	3E-07	2E-10	2E-09	4E-07
2,3,7,8-TCDD-TEQ	Hereford Manor Lake	5E-08	5E-07	2E-10	2E-09	6E-07
Nickel	Beaver River				1E-10	
Nickel	Connoquenessing Creek				1E-10	
Nickel	Slippery Rock Creek				1E-10	
Nickel	Hereford Manor Lake				1E-10	
Arsenic	Beaver River	4E-10	1E-11	1E-10	1E-09	6E-10
Arsenic	Connoquenessing Creek	4E-10	7E-11	1E-10	1E-09	7E-10
Arsenic	Slippery Rock Creek	4E-10	1E-11	1E-10	1E-09	6E-10
Arsenic	Hereford Manor Lake	4E-10	3E-10	1E-10	1E-09	9E-10
Beryllium	Beaver River				1E-11	
Beryllium	Connoquenessing Creek				1E-11	
Beryllium	Slippery Rock Creek				1E-11	
Beryllium	Hereford Manor Lake				1E-11	
Cadmium	Beaver River				2E-09	
Cadmium	Connoquenessing Creek				2E-09	
Cadmium	Slippery Rock Creek				2E-09	
Cadmium	Hereford Manor Lake				2E-09	
Chromium VI	Beaver River				6E-11	
Chromium VI	Connoquenessing Creek				6E-11	
Chromium VI	Slippery Rock Creek				6E-11	
Chromium VI	Hereford Manor Lake				6E-11	
	Noncarcinogenic Chemicals					
Manganese	Beaver River	2E-07	0E+00	3E-08	7E-05	2E-07
Manganese	Connoquenessing Creek	2E-07	0E+00	3E-08	7E-05	2E-07
Manganese	Slippery Rock Creek	2E-07	0E+00	3E-08	7E-05	2E-07
Manganese	Hereford Manor Lake	2E-07	0E+00	3E-08	7E-05	2E-07
Mercury (elemental)	Beaver River				1E-05	
Mercury (elemental)	Connoquenessing Creek				1E-05	
Mercury (elemental)	Slippery Rock Creek				1E-05	
Mercury (elemental)	Hereford Manor Lake				1E-05	
Mercury (divalent)	Beaver River	2E-03		4E-05		2E-03
Mercury (divalent)	Connoquenessing Creek	2E-03		4E-05		2E-03
Mercury (divalent)	Slippery Rock Creek	2E-03		4E-05		2E-03
Mercury (divalent)	Hereford Manor Lake	2E-03		4E-05		2E-03
Nickel	Beaver River	3E-07	2E-09	1E-07		4E-07
Nickel	Connoquenessing Creek	3E-07	2E-08	1E-07		5E-07
Nickel	Slippery Rock Creek	3E-07	4E-09	1E-07		4E-07
Nickel	Hereford Manor Lake	3E-07	9E-08	1E-07		5E-07
Silver	Beaver River	3E-09	0E+00	6E-08		6E-08
Silver	Connoquenessing Creek	3E-09	0E+00	6E-08		6E-08
Silver	Slippery Rock Creek	3E-09	0E+00	6E-08		6E-08
Silver	Hereford Manor Lake	3E-09	0E+00	6E-08		6E-08
Thallium	Beaver River	8E-05	2E-05	1E-05		1E-04
Thallium	Connoquenessing Creek	8E-05	1E-04	1E-05		2E-04
Thallium	Slippery Rock Creek	8E-05	2E-05	1E-05		1E-04
Thallium	Hereford Manor Lake	8E-05	5E-04	1E-05		6E-04

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Beaver River	5E-08	0E+00	2E-07		3E-07
Antimony	Connoquenessing Creek	5E-08	0E+00	2E-07		3E-07
Antimony	Slippery Rock Creek	5E-08	0E+00	2E-07		3E-07
Antimony	Hereford Manor Lake	5E-08	0E+00	2E-07		3E-07
Arsenic	Beaver River	1E-05	3E-07	3E-06		1E-05
Arsenic	Connoquenessing Creek	1E-05	2E-06	3E-06		2E-05
Arsenic	Slippery Rock Creek	1E-05	4E-07	3E-06		1E-05
Arsenic	Hereford Manor Lake	1E-05	8E-06	3E-06		2E-05
Barium	Beaver River	6E-06	0E+00	7E-08	2E-05	7E-06
Barium	Connoquenessing Creek	6E-06	0E+00	7E-08	2E-05	7E-06
Barium	Slippery Rock Creek	6E-06	0E+00	7E-08	2E-05	7E-06
Barium	Hereford Manor Lake	6E-06	0E+00	7E-08	2E-05	7E-06
Beryllium	Beaver River	8E-07	4E-09	1E-08		9E-07
Beryllium	Connoquenessing Creek	8E-07	3E-08	1E-08		9E-07
Beryllium	Slippery Rock Creek	8E-07	8E-09	1E-08		9E-07
Beryllium	Hereford Manor Lake	8E-07	5E-08	1E-08		9E-07
Cadmium	Beaver River	9E-05	3E-05	2E-05		1E-04
Cadmium	Connoquenessing Creek	9E-05	2E-04	2E-05		3E-04
Cadmium	Slippery Rock Creek	9E-05	4E-05	2E-05		1E-04
Cadmium	Hereford Manor Lake	9E-05	1E-03	2E-05		1E-03
Chromium VI	Beaver River	2E-08	2E-10	1E-08		3E-08
Chromium VI	Connoquenessing Creek	2E-08	1E-09	1E-08		4E-08
Chromium VI	Slippery Rock Creek	2E-08	2E-10	1E-08		4E-08
Chromium VI	Hereford Manor Lake	2E-08	7E-09	1E-08		4E-08
Chromium III	Beaver River	7E-08	7E-12	1E-11		7E-08
Chromium III	Connoquenessing Creek	7E-08	6E-11	1E-11		7E-08
Chromium III	Slippery Rock Creek	7E-08	2E-11	1E-11		7E-08
Chromium III	Hereford Manor Lake	7E-08	4E-12	1E-11		7E-08
Cobalt	Beaver River	2E-07	0E+00	1E-11		2E-07
Cobalt	Connoquenessing Creek	2E-07	0E+00	1E-11		2E-07
Cobalt	Slippery Rock Creek	2E-07	0E+00	1E-11		2E-07
Cobalt	Hereford Manor Lake	2E-07	0E+00	1E-11		2E-07
Hydrogen Chloride	Beaver River				3E-03	
Hydrogen Chloride	Connoquenessing Creek				3E-03	
Hydrogen Chloride	Slippery Rock Creek				3E-03	
Hydrogen Chloride	Hereford Manor Lake				3E-03	
Selenium	Beaver River	7E-06	4E-04	1E-05		4E-04
Selenium	Connoquenessing Creek	7E-06	3E-03	1E-05		3E-03
Selenium	Slippery Rock Creek	7E-06	6E-04	1E-05		6E-04
Selenium	Hereford Manor Lake	7E-06	2E-02	1E-05		2E-02
Chlorine	Beaver River				5E-04	
Chlorine	Connoquenessing Creek				5E-04	
Chlorine	Slippery Rock Creek				5E-04	
Chlorine	Hereford Manor Lake				5E-04	
Methylmercury - Developmental Effects	Beaver River	1E-04	1E-01	1E-06		1E-01
Methylmercury - Developmental Effects	Connoquenessing Creek	1E-04	5E-01	1E-06		5E-01
Methylmercury - Developmental Effects	Slippery Rock Creek	1E-04	2E-01	1E-06		2E-01
Methylmercury - Developmental Effects	Hereford Manor Lake	1E-04	4E-01	1E-06		4E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Beaver River	5E-05	4E-02	4E-07		4E-02
Methylmercury - Neurological Effects	Connoquenessing Creek	5E-05	2E-01	4E-07		2E-01
Methylmercury - Neurological Effects	Slippery Rock Creek	5E-05	6E-02	4E-07		6E-02
Methylmercury - Neurological Effects	Hereford Manor Lake	5E-05	1E-01	4E-07		1E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Beaver River	2E-08	3E-07	1E-10	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Connoquenessing Creek	2E-08	2E-06	1E-10	2E-09	2E-06
2,3,7,8-TCDD-TEQ	Slippery Rock Creek	2E-08	4E-07	1E-10	2E-09	4E-07
2,3,7,8-TCDD-TEQ	Hereford Manor Lake	2E-08	7E-07	1E-10	2E-09	7E-07
Nickel	Beaver River				1E-10	
Nickel	Connoquenessing Creek				1E-10	
Nickel	Slippery Rock Creek				1E-10	
Nickel	Hereford Manor Lake				1E-10	
Arsenic	Beaver River	2E-10	1E-11	1E-10	1E-09	3E-10
Arsenic	Connoquenessing Creek	2E-10	1E-10	1E-10	1E-09	4E-10
Arsenic	Slippery Rock Creek	2E-10	2E-11	1E-10	1E-09	3E-10
Arsenic	Hereford Manor Lake	2E-10	5E-10	1E-10	1E-09	7E-10
Beryllium	Beaver River				1E-11	
Beryllium	Connoquenessing Creek				1E-11	
Beryllium	Slippery Rock Creek				1E-11	
Beryllium	Hereford Manor Lake				1E-11	
Cadmium	Beaver River				3E-09	
Cadmium	Connoquenessing Creek				3E-09	
Cadmium	Slippery Rock Creek				3E-09	
Cadmium	Hereford Manor Lake				3E-09	
Chromium VI	Beaver River				7E-11	
Chromium VI	Connoquenessing Creek				7E-11	
Chromium VI	Slippery Rock Creek				7E-11	
Chromium VI	Hereford Manor Lake				7E-11	
	Noncarcinogenic Chemicals					
Manganese	Beaver River	5E-08	0E+00	2E-08	7E-05	7E-08
Manganese	Connoquenessing Creek	5E-08	0E+00	2E-08	7E-05	7E-08
Manganese	Slippery Rock Creek	5E-08	0E+00	2E-08	7E-05	7E-08
Manganese	Hereford Manor Lake	5E-08	0E+00	2E-08	7E-05	7E-08
Mercury (elemental)	Beaver River				1E-05	
Mercury (elemental)	Connoquenessing Creek				1E-05	
Mercury (elemental)	Slippery Rock Creek				1E-05	
Mercury (elemental)	Hereford Manor Lake				1E-05	
Mercury (divalent)	Beaver River	6E-04		2E-05		6E-04
Mercury (divalent)	Connoquenessing Creek	6E-04		2E-05		6E-04
Mercury (divalent)	Slippery Rock Creek	6E-04		2E-05		6E-04
Mercury (divalent)	Hereford Manor Lake	6E-04		2E-05		6E-04
Nickel	Beaver River	8E-08	2E-09	8E-08		2E-07
Nickel	Connoquenessing Creek	8E-08	2E-08	8E-08		2E-07
Nickel	Slippery Rock Creek	8E-08	4E-09	8E-08		2E-07
Nickel	Hereford Manor Lake	8E-08	9E-08	8E-08		3E-07
Silver	Beaver River	8E-10	0E+00	3E-08		3E-08
Silver	Connoquenessing Creek	8E-10	0E+00	3E-08		3E-08
Silver	Slippery Rock Creek	8E-10	0E+00	3E-08		3E-08
Silver	Hereford Manor Lake	8E-10	0E+00	3E-08		3E-08
Thallium	Beaver River	2E-05	2E-05	6E-06		4E-05
Thallium	Connoquenessing Creek	2E-05	1E-04	6E-06		1E-04
Thallium	Slippery Rock Creek	2E-05	2E-05	6E-06		5E-05
Thallium	Hereford Manor Lake	2E-05	5E-04	6E-06		5E-04

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Beaver River	1E-08	0E+00	1E-07		1E-07
Antimony	Connoquenessing Creek	1E-08	0E+00	1E-07		1E-07
Antimony	Slippery Rock Creek	1E-08	0E+00	1E-07		1E-07
Antimony	Hereford Manor Lake	1E-08	0E+00	1E-07		1E-07
Arsenic	Beaver River	3E-06	3E-07	2E-06		5E-06
Arsenic	Connoquenessing Creek	3E-06	2E-06	2E-06		7E-06
Arsenic	Slippery Rock Creek	3E-06	4E-07	2E-06		5E-06
Arsenic	Hereford Manor Lake	3E-06	8E-06	2E-06		1E-05
Barium	Beaver River	2E-06	0E+00	4E-08	2E-05	2E-06
Barium	Connoquenessing Creek	2E-06	0E+00	4E-08	2E-05	2E-06
Barium	Slippery Rock Creek	2E-06	0E+00	4E-08	2E-05	2E-06
Barium	Hereford Manor Lake	2E-06	0E+00	4E-08	2E-05	2E-06
Beryllium	Beaver River	2E-07	4E-09	7E-09		2E-07
Beryllium	Connoquenessing Creek	2E-07	3E-08	7E-09		3E-07
Beryllium	Slippery Rock Creek	2E-07	8E-09	7E-09		2E-07
Beryllium	Hereford Manor Lake	2E-07	5E-08	7E-09		3E-07
Cadmium	Beaver River	2E-05	3E-05	9E-06		6E-05
Cadmium	Connoquenessing Creek	2E-05	2E-04	9E-06		2E-04
Cadmium	Slippery Rock Creek	2E-05	4E-05	9E-06		8E-05
Cadmium	Hereford Manor Lake	2E-05	1E-03	9E-06		1E-03
Chromium VI	Beaver River	5E-09	2E-10	8E-09		1E-08
Chromium VI	Connoquenessing Creek	5E-09	1E-09	8E-09		1E-08
Chromium VI	Slippery Rock Creek	5E-09	2E-10	8E-09		1E-08
Chromium VI	Hereford Manor Lake	5E-09	7E-09	8E-09		2E-08
Chromium III	Beaver River	2E-08	7E-12	6E-12		2E-08
Chromium III	Connoquenessing Creek	2E-08	6E-11	6E-12		2E-08
Chromium III	Slippery Rock Creek	2E-08	2E-11	6E-12		2E-08
Chromium III	Hereford Manor Lake	2E-08	4E-12	6E-12		2E-08
Cobalt	Beaver River	6E-08	0E+00	6E-12		6E-08
Cobalt	Connoquenessing Creek	6E-08	0E+00	6E-12		6E-08
Cobalt	Slippery Rock Creek	6E-08	0E+00	6E-12		6E-08
Cobalt	Hereford Manor Lake	6E-08	0E+00	6E-12		6E-08
Hydrogen Chloride	Beaver River				3E-03	
Hydrogen Chloride	Connoquenessing Creek				3E-03	
Hydrogen Chloride	Slippery Rock Creek				3E-03	
Hydrogen Chloride	Hereford Manor Lake				3E-03	
Selenium	Beaver River	2E-06	4E-04	8E-06		4E-04
Selenium	Connoquenessing Creek	2E-06	3E-03	8E-06		3E-03
Selenium	Slippery Rock Creek	2E-06	6E-04	8E-06		6E-04
Selenium	Hereford Manor Lake	2E-06	2E-02	8E-06		2E-02
Chlorine	Beaver River				5E-04	
Chlorine	Connoquenessing Creek				5E-04	
Chlorine	Slippery Rock Creek				5E-04	
Chlorine	Hereford Manor Lake				5E-04	
Methylmercury - Developmental Effects	Beaver River	4E-05	1E-01	7E-07		1E-01
Methylmercury - Developmental Effects	Connoquenessing Creek	4E-05	5E-01	7E-07		5E-01
Methylmercury - Developmental Effects	Slippery Rock Creek	4E-05	2E-01	7E-07		2E-01
Methylmercury - Developmental Effects	Hereford Manor Lake	4E-05	4E-01	7E-07		4E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Beaver River	1E-05	4E-02	2E-07		4E-02
Methylmercury - Neurological Effects	Connoquenessing Creek	1E-05	2E-01	2E-07		2E-01
Methylmercury - Neurological Effects	Slippery Rock Creek	1E-05	6E-02	2E-07		6E-02
Methylmercury - Neurological Effects	Hereford Manor Lake	1E-05	1E-01	2E-07		1E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Beaver River	9E-09	2E-07	9E-11	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Connoquenessing Creek	9E-09	1E-06	9E-11	1E-09	1E-06
2,3,7,8-TCDD-TEQ	Slippery Rock Creek	9E-09	3E-07	9E-11	1E-09	3E-07
2,3,7,8-TCDD-TEQ	Hereford Manor Lake	9E-09	5E-07	9E-11	1E-09	5E-07
Nickel	Beaver River				8E-11	
Nickel	Connoquenessing Creek				8E-11	
Nickel	Slippery Rock Creek				8E-11	
Nickel	Hereford Manor Lake				8E-11	
Arsenic	Beaver River	8E-11	1E-11	7E-11	8E-10	2E-10
Arsenic	Connoquenessing Creek	8E-11	7E-11	7E-11	8E-10	2E-10
Arsenic	Slippery Rock Creek	8E-11	1E-11	7E-11	8E-10	2E-10
Arsenic	Hereford Manor Lake	8E-11	3E-10	7E-11	8E-10	5E-10
Beryllium	Beaver River				9E-12	
Beryllium	Connoquenessing Creek				9E-12	
Beryllium	Slippery Rock Creek				9E-12	
Beryllium	Hereford Manor Lake				9E-12	
Cadmium	Beaver River				2E-09	
Cadmium	Connoquenessing Creek				2E-09	
Cadmium	Slippery Rock Creek				2E-09	
Cadmium	Hereford Manor Lake				2E-09	
Chromium VI	Beaver River				5E-11	
Chromium VI	Connoquenessing Creek				5E-11	
Chromium VI	Slippery Rock Creek				5E-11	
Chromium VI	Hereford Manor Lake				5E-11	
	Noncarcinogenic Chemicals					
Manganese	Beaver River	3E-08	0E+00	1E-08	7E-05	4E-08
Manganese	Connoquenessing Creek	3E-08	0E+00	1E-08	7E-05	4E-08
Manganese	Slippery Rock Creek	3E-08	0E+00	1E-08	7E-05	4E-08
Manganese	Hereford Manor Lake	3E-08	0E+00	1E-08	7E-05	4E-08
Mercury (elemental)	Beaver River				1E-05	
Mercury (elemental)	Connoquenessing Creek				1E-05	
Mercury (elemental)	Slippery Rock Creek				1E-05	
Mercury (elemental)	Hereford Manor Lake				1E-05	
Mercury (divalent)	Beaver River	3E-04		1E-05		3E-04
Mercury (divalent)	Connoquenessing Creek	3E-04		1E-05		3E-04
Mercury (divalent)	Slippery Rock Creek	3E-04		1E-05		3E-04
Mercury (divalent)	Hereford Manor Lake	3E-04		1E-05		3E-04
Nickel	Beaver River	4E-08	2E-09	5E-08		1E-07
Nickel	Connoquenessing Creek	4E-08	1E-08	5E-08		1E-07
Nickel	Slippery Rock Creek	4E-08	3E-09	5E-08		1E-07
Nickel	Hereford Manor Lake	4E-08	6E-08	5E-08		2E-07
Silver	Beaver River	4E-10	0E+00	2E-08		2E-08
Silver	Connoquenessing Creek	4E-10	0E+00	2E-08		2E-08
Silver	Slippery Rock Creek	4E-10	0E+00	2E-08		2E-08
Silver	Hereford Manor Lake	4E-10	0E+00	2E-08		2E-08
Thallium	Beaver River	1E-05	1E-05	4E-06		3E-05
Thallium	Connoquenessing Creek	1E-05	8E-05	4E-06		9E-05
Thallium	Slippery Rock Creek	1E-05	2E-05	4E-06		3E-05
Thallium	Hereford Manor Lake	1E-05	4E-04	4E-06		4E-04

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Beaver River	7E-09	0E+00	9E-08		9E-08
Antimony	Connoquenessing Creek	7E-09	0E+00	9E-08		9E-08
Antimony	Slippery Rock Creek	7E-09	0E+00	9E-08		9E-08
Antimony	Hereford Manor Lake	7E-09	0E+00	9E-08		9E-08
Arsenic	Beaver River	2E-06	2E-07	1E-06		3E-06
Arsenic	Connoquenessing Creek	2E-06	1E-06	1E-06		4E-06
Arsenic	Slippery Rock Creek	2E-06	3E-07	1E-06		3E-06
Arsenic	Hereford Manor Lake	2E-06	6E-06	1E-06		9E-06
Barium	Beaver River	9E-07	0E+00	3E-08	2E-05	9E-07
Barium	Connoquenessing Creek	9E-07	0E+00	3E-08	2E-05	9E-07
Barium	Slippery Rock Creek	9E-07	0E+00	3E-08	2E-05	9E-07
Barium	Hereford Manor Lake	9E-07	0E+00	3E-08	2E-05	9E-07
Beryllium	Beaver River	1E-07	3E-09	4E-09		1E-07
Beryllium	Connoquenessing Creek	1E-07	2E-08	4E-09		1E-07
Beryllium	Slippery Rock Creek	1E-07	5E-09	4E-09		1E-07
Beryllium	Hereford Manor Lake	1E-07	3E-08	4E-09		2E-07
Cadmium	Beaver River	1E-05	2E-05	6E-06		4E-05
Cadmium	Connoquenessing Creek	1E-05	2E-04	6E-06		2E-04
Cadmium	Slippery Rock Creek	1E-05	3E-05	6E-06		5E-05
Cadmium	Hereford Manor Lake	1E-05	7E-04	6E-06		8E-04
Chromium VI	Beaver River	3E-09	1E-10	5E-09		8E-09
Chromium VI	Connoquenessing Creek	3E-09	8E-10	5E-09		9E-09
Chromium VI	Slippery Rock Creek	3E-09	2E-10	5E-09		8E-09
Chromium VI	Hereford Manor Lake	3E-09	5E-09	5E-09		1E-08
Chromium III	Beaver River	9E-09	5E-12	4E-12		9E-09
Chromium III	Connoquenessing Creek	9E-09	4E-11	4E-12		1E-08
Chromium III	Slippery Rock Creek	9E-09	1E-11	4E-12		9E-09
Chromium III	Hereford Manor Lake	9E-09	3E-12	4E-12		9E-09
Cobalt	Beaver River	3E-08	0E+00	2E-08		5E-08
Cobalt	Connoquenessing Creek	3E-08	0E+00	2E-08		5E-08
Cobalt	Slippery Rock Creek	3E-08	0E+00	2E-08		5E-08
Cobalt	Hereford Manor Lake	3E-08	0E+00	2E-08		5E-08
Hydrogen Chloride	Beaver River				3E-03	
Hydrogen Chloride	Connoquenessing Creek				3E-03	
Hydrogen Chloride	Slippery Rock Creek				3E-03	
Hydrogen Chloride	Hereford Manor Lake				3E-03	
Selenium	Beaver River	9E-07	3E-04	5E-06		3E-04
Selenium	Connoquenessing Creek	9E-07	2E-03	5E-06		2E-03
Selenium	Slippery Rock Creek	9E-07	4E-04	5E-06		4E-04
Selenium	Hereford Manor Lake	9E-07	1E-02	5E-06		1E-02
Chlorine	Beaver River				5E-04	
Chlorine	Connoquenessing Creek				5E-04	
Chlorine	Slippery Rock Creek				5E-04	
Chlorine	Hereford Manor Lake				5E-04	
Methylmercury - Developmental Effects	Beaver River	2E-05	9E-02	5E-07		9E-02
Methylmercury - Developmental Effects	Connoquenessing Creek	2E-05	3E-01	5E-07		3E-01
Methylmercury - Developmental Effects	Slippery Rock Creek	2E-05	1E-01	5E-07		1E-01
Methylmercury - Developmental Effects	Hereford Manor Lake	2E-05	3E-01	5E-07		3E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Beaver River	6E-06	3E-02	2E-07		3E-02
Methylmercury - Neurological Effects	Connoquenessing Creek	6E-06	1E-01	2E-07		1E-01
Methylmercury - Neurological Effects	Slippery Rock Creek	6E-06	4E-02	2E-07		4E-02
Methylmercury - Neurological Effects	Hereford Manor Lake	6E-06	1E-01	2E-07		1E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Beaver River	6E-09	3E-07	2E-10	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Connoquenessing Creek	6E-09	2E-06	2E-10	2E-09	2E-06
2,3,7,8-TCDD-TEQ	Slippery Rock Creek	6E-09	6E-07	2E-10	2E-09	6E-07
2,3,7,8-TCDD-TEQ	Hereford Manor Lake	6E-09	1E-06	2E-10	2E-09	1E-06
Nickel	Beaver River				1E-10	
Nickel	Connoquenessing Creek				1E-10	
Nickel	Slippery Rock Creek				1E-10	
Nickel	Hereford Manor Lake				1E-10	
Arsenic	Beaver River	7E-11	2E-11	2E-10	1E-09	2E-10
Arsenic	Connoquenessing Creek	7E-11	1E-10	2E-10	1E-09	4E-10
Arsenic	Slippery Rock Creek	7E-11	3E-11	2E-10	1E-09	2E-10
Arsenic	Hereford Manor Lake	7E-11	6E-10	2E-10	1E-09	9E-10
Beryllium	Beaver River				1E-11	
Beryllium	Connoquenessing Creek				1E-11	
Beryllium	Slippery Rock Creek				1E-11	
Beryllium	Hereford Manor Lake				1E-11	
Cadmium	Beaver River				2E-09	
Cadmium	Connoquenessing Creek				2E-09	
Cadmium	Slippery Rock Creek				2E-09	
Cadmium	Hereford Manor Lake				2E-09	
Chromium VI	Beaver River				7E-11	
Chromium VI	Connoquenessing Creek				7E-11	
Chromium VI	Slippery Rock Creek				7E-11	
Chromium VI	Hereford Manor Lake				7E-11	
	Noncarcinogenic Chemicals					
Manganese	Beaver River	1E-08	0E+00	1E-08	7E-05	2E-08
Manganese	Connoquenessing Creek	1E-08	0E+00	1E-08	7E-05	2E-08
Manganese	Slippery Rock Creek	1E-08	0E+00	1E-08	7E-05	2E-08
Manganese	Hereford Manor Lake	1E-08	0E+00	1E-08	7E-05	2E-08
Mercury (elemental)	Beaver River				1E-05	
Mercury (elemental)	Connoquenessing Creek				1E-05	
Mercury (elemental)	Slippery Rock Creek				1E-05	
Mercury (elemental)	Hereford Manor Lake				1E-05	
Mercury (divalent)	Beaver River	1E-04		2E-05		1E-04
Mercury (divalent)	Connoquenessing Creek	1E-04		2E-05		1E-04
Mercury (divalent)	Slippery Rock Creek	1E-04		2E-05		1E-04
Mercury (divalent)	Hereford Manor Lake	1E-04		2E-05		1E-04
Nickel	Beaver River	2E-08	2E-09	6E-08		8E-08
Nickel	Connoquenessing Creek	2E-08	1E-08	6E-08		9E-08
Nickel	Slippery Rock Creek	2E-08	3E-09	6E-08		8E-08
Nickel	Hereford Manor Lake	2E-08	6E-08	6E-08		1E-07
Silver	Beaver River	2E-10	0E+00	3E-08		3E-08
Silver	Connoquenessing Creek	2E-10	0E+00	3E-08		3E-08
Silver	Slippery Rock Creek	2E-10	0E+00	3E-08		3E-08
Silver	Hereford Manor Lake	2E-10	0E+00	3E-08		3E-08
Thallium	Beaver River	4E-06	1E-05	5E-06		2E-05
Thallium	Connoquenessing Creek	4E-06	8E-05	5E-06		9E-05
Thallium	Slippery Rock Creek	4E-06	2E-05	5E-06		2E-05
Thallium	Hereford Manor Lake	4E-06	4E-04	5E-06		4E-04

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Beaver River	3E-09	0E+00	1E-07		1E-07
Antimony	Connoquenessing Creek	3E-09	0E+00	1E-07		1E-07
Antimony	Slippery Rock Creek	3E-09	0E+00	1E-07		1E-07
Antimony	Hereford Manor Lake	3E-09	0E+00	1E-07		1E-07
Arsenic	Beaver River	6E-07	2E-07	1E-06		2E-06
Arsenic	Connoquenessing Creek	6E-07	1E-06	1E-06		3E-06
Arsenic	Slippery Rock Creek	6E-07	3E-07	1E-06		2E-06
Arsenic	Hereford Manor Lake	6E-07	6E-06	1E-06		8E-06
Barium	Beaver River	4E-07	0E+00	3E-08	2E-05	4E-07
Barium	Connoquenessing Creek	4E-07	0E+00	3E-08	2E-05	4E-07
Barium	Slippery Rock Creek	4E-07	0E+00	3E-08	2E-05	4E-07
Barium	Hereford Manor Lake	4E-07	0E+00	3E-08	2E-05	4E-07
Beryllium	Beaver River	5E-08	3E-09	5E-09		5E-08
Beryllium	Connoquenessing Creek	5E-08	2E-08	5E-09		7E-08
Beryllium	Slippery Rock Creek	5E-08	5E-09	5E-09		6E-08
Beryllium	Hereford Manor Lake	5E-08	3E-08	5E-09		9E-08
Cadmium	Beaver River	5E-06	2E-05	7E-06		3E-05
Cadmium	Connoquenessing Creek	5E-06	2E-04	7E-06		2E-04
Cadmium	Slippery Rock Creek	5E-06	3E-05	7E-06		4E-05
Cadmium	Hereford Manor Lake	5E-06	7E-04	7E-06		8E-04
Chromium VI	Beaver River	1E-09	1E-10	6E-09		7E-09
Chromium VI	Connoquenessing Creek	1E-09	8E-10	6E-09		8E-09
Chromium VI	Slippery Rock Creek	1E-09	2E-10	6E-09		7E-09
Chromium VI	Hereford Manor Lake	1E-09	5E-09	6E-09		1E-08
Chromium III	Beaver River	4E-09	5E-12	5E-12		4E-09
Chromium III	Connoquenessing Creek	4E-09	4E-11	5E-12		4E-09
Chromium III	Slippery Rock Creek	4E-09	1E-11	5E-12		4E-09
Chromium III	Hereford Manor Lake	4E-09	3E-12	5E-12		4E-09
Cobalt	Beaver River	1E-08	0E+00	2E-08		4E-08
Cobalt	Connoquenessing Creek	1E-08	0E+00	2E-08		4E-08
Cobalt	Slippery Rock Creek	1E-08	0E+00	2E-08		4E-08
Cobalt	Hereford Manor Lake	1E-08	0E+00	2E-08		4E-08
Hydrogen Chloride	Beaver River				3E-03	
Hydrogen Chloride	Connoquenessing Creek				3E-03	
Hydrogen Chloride	Slippery Rock Creek				3E-03	
Hydrogen Chloride	Hereford Manor Lake				3E-03	
Selenium	Beaver River	4E-07	3E-04	6E-06		3E-04
Selenium	Connoquenessing Creek	4E-07	2E-03	6E-06		2E-03
Selenium	Slippery Rock Creek	4E-07	4E-04	6E-06		4E-04
Selenium	Hereford Manor Lake	4E-07	1E-02	6E-06		1E-02
Chlorine	Beaver River				5E-04	
Chlorine	Connoquenessing Creek				5E-04	
Chlorine	Slippery Rock Creek				5E-04	
Chlorine	Hereford Manor Lake				5E-04	
Methylmercury - Developmental Effects	Beaver River	8E-06	9E-02	5E-07		9E-02
Methylmercury - Developmental Effects	Connoquenessing Creek	8E-06	3E-01	5E-07		3E-01
Methylmercury - Developmental Effects	Slippery Rock Creek	8E-06	1E-01	5E-07		1E-01
Methylmercury - Developmental Effects	Hereford Manor Lake	8E-06	3E-01	5E-07		3E-01

Table IX-B30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Cement Kiln (Stack Numbers 305, 335) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Beaver River	3E-06	3E-02	2E-07		3E-02
Methylmercury - Neurological Effects	Connoquenessing Creek	3E-06	1E-01	2E-07		1E-01
Methylmercury - Neurological Effects	Slippery Rock Creek	3E-06	4E-02	2E-07		4E-02
Methylmercury - Neurological Effects	Hereford Manor Lake	3E-06	1E-01	2E-07		1E-01

Table IX-C1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	1E-09	1E-09	3E-09	5E-07	5E-06	7E-08	7E-07	4E-07	4E-07		2E-09	7E-06
Nickel												5E-10	
Arsenic	2E-09	8E-10	3E-10	2E-09	6E-09	1E-08	4E-10			1E-08		9E-09	3E-08
Beryllium												4E-10	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	9E-08	3E-07	6E-08	3E-06	5E-09			0E+00		2E-04	4E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	9E-06	3E-06	2E-05	2E-05	2E-04	7E-08						3E-04
Nickel	5E-07	3E-07	1E-07	6E-07	6E-06	6E-05	3E-07			1E-06			7E-05
Silver	5E-09	7E-08	2E-08	2E-07	1E-06	4E-04	4E-08			0E+00			4E-04
Thallium	2E-05	2E-06	1E-07	5E-06	6E-04	2E-03	6E-05			1E-03			3E-03
Antimony	3E-05	1E-04	3E-05	3E-04	5E-04	3E-03	2E-05			0E+00			4E-03
Arsenic	5E-05	2E-05	8E-06	5E-05	1E-04	2E-04	9E-06			3E-04			8E-04
Barium	4E-06	4E-07	1E-07	9E-07	2E-07	3E-05	3E-08			0E+00		3E-05	3E-05
Beryllium	1E-05	2E-07	3E-08	4E-07	2E-06	7E-08	5E-07			1E-06			1E-05
Cadmium	3E-05	3E-05	1E-05	6E-05	3E-06	1E-05	5E-07			2E-03			2E-03
Chromium VI	2E-07	7E-08	3E-08	2E-07	3E-06	4E-05	1E-07			4E-07			5E-05
Chromium III	2E-07	2E-09	2E-09	6E-09	2E-07	2E-06	5E-08			3E-11			2E-06
Cobalt	2E-07	4E-08	2E-10	1E-07	3E-06	2E-05	3E-07			0E+00			2E-05
Hydrogen Chloride												9E-03	
Selenium	5E-08	5E-08	3E-08	1E-07	1E-06	1E-04	4E-06			7E-04			8E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	2E-06	3E-06	4E-07	3E-06	7E-06	1E-04	5E-09			2E-03			2E-03
Methylmercury - Neurological Effects	6E-07	1E-06	1E-07	9E-07	2E-06	3E-05	2E-09			6E-04			6E-04

Table IX-C1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	8E-10	1E-09	3E-09	8E-07	4E-06	6E-08	7E-07	4E-07	4E-07		2E-09	6E-06
Nickel												5E-10	
Arsenic	7E-10	6E-10	3E-10	2E-09	9E-09	7E-09	3E-10			1E-08		1E-08	3E-08
Beryllium												4E-10	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	6E-08	3E-07	7E-08	2E-06	3E-09			0E+00		2E-04	2E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	5E-06	2E-06	2E-05	3E-05	1E-04	4E-08						2E-04
Nickel	1E-07	1E-07	7E-08	6E-07	7E-06	3E-05	2E-07			8E-07			4E-05
Silver	1E-09	4E-08	1E-08	2E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	6E-06	1E-06	8E-08	5E-06	7E-04	8E-04	4E-05			8E-04			2E-03
Antimony	7E-06	7E-05	2E-05	3E-04	6E-04	1E-03	1E-05			0E+00			2E-03
Arsenic	1E-05	1E-05	6E-06	5E-05	2E-04	1E-04	6E-06			2E-04			6E-04
Barium	1E-06	2E-07	8E-08	8E-07	2E-07	1E-05	2E-08			0E+00		3E-05	2E-05
Beryllium	3E-06	9E-08	2E-08	4E-07	2E-06	3E-08	3E-07			8E-07			6E-06
Cadmium	8E-06	2E-05	1E-05	6E-05	3E-06	5E-06	3E-07			1E-03			2E-03
Chromium VI	6E-08	4E-08	2E-08	2E-07	3E-06	2E-05	9E-08			3E-07			2E-05
Chromium III	5E-08	1E-09	1E-09	6E-09	2E-07	1E-06	3E-08			2E-11			1E-06
Cobalt	4E-08	2E-08	1E-10	9E-08	4E-06	1E-05	2E-07			0E+00			1E-05
Hydrogen Chloride												9E-03	
Selenium	1E-08	3E-08	2E-08	1E-07	1E-06	5E-05	2E-06			5E-04			6E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	4E-07	2E-06	3E-07	3E-06	8E-06	5E-05	3E-09			1E-03			1E-03
Methylmercury - Neurological Effects	1E-07	5E-07	1E-07	9E-07	3E-06	2E-05	1E-09			4E-04			5E-04

Table IX-C1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	7E-10	7E-10	2E-09	4E-07	2E-06	4E-08	4E-07	2E-07	2E-07		1E-09	3E-06
Nickel												4E-10	
Arsenic	4E-10	5E-10	2E-10	1E-09	4E-09	3E-09	2E-10			7E-09		7E-09	2E-08
Beryllium												3E-10	
Cadmium												1E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	8E-08	5E-08	2E-07	3E-08	7E-07	2E-09			0E+00		2E-04	1E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	4E-06	4E-06	2E-06	9E-06	1E-05	5E-05	3E-08			0E+00			8E-05
Nickel	7E-08	1E-07	5E-08	3E-07	3E-06	1E-05	1E-07			4E-07			2E-05
Silver	7E-10	3E-08	8E-09	9E-08	6E-07	1E-04	2E-08			0E+00			1E-04
Thallium	3E-06	8E-07	5E-08	3E-06	3E-04	4E-04	2E-05			4E-04			1E-03
Antimony	4E-06	5E-05	1E-05	2E-04	3E-04	7E-04	8E-06			0E+00			1E-03
Arsenic	7E-06	9E-06	4E-06	2E-05	8E-05	6E-05	4E-06			1E-04			3E-04
Barium	6E-07	2E-07	5E-08	4E-07	1E-07	6E-06	1E-08			0E+00		3E-05	7E-06
Beryllium	1E-06	7E-08	1E-08	2E-07	9E-07	2E-08	2E-07			4E-07			3E-06
Cadmium	4E-06	1E-05	7E-06	3E-05	2E-06	2E-06	2E-07			8E-04			8E-04
Chromium VI	3E-08	3E-08	1E-08	1E-07	1E-06	1E-05	6E-08			1E-07			1E-05
Chromium III	3E-08	1E-09	8E-10	3E-09	9E-08	5E-07	2E-08			1E-11			6E-07
Cobalt	2E-08	2E-08	1E-10	5E-08	2E-06	5E-06	1E-07			0E+00			7E-06
Hydrogen Chloride												9E-03	
Selenium	7E-09	2E-08	2E-08	7E-08	6E-07	2E-05	1E-06			3E-04			3E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	2E-07	1E-06	2E-07	1E-06	4E-06	2E-05	2E-09			7E-04			7E-04
Methylmercury - Neurological Effects	8E-08	4E-07	7E-08	5E-07	1E-06	7E-06	6E-10			2E-04			2E-04

Table IX-C1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	2E-09	1E-09	3E-09	8E-07	1E-06	6E-08	7E-07	4E-07	5E-07		2E-09	4E-06
Nickel												5E-10	
Arsenic	3E-10	1E-09	4E-10	2E-09	9E-09	3E-09	3E-10			1E-08		1E-08	3E-08
Beryllium												4E-10	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-09	1E-07	5E-08	2E-07	4E-08	3E-07	2E-09			0E+00		2E-04	7E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	2E-06	5E-06	2E-06	8E-06	1E-05	2E-05	2E-08			0E+00			5E-05
Nickel	3E-08	1E-07	6E-08	3E-07	4E-06	6E-06	1E-07			4E-07			1E-05
Silver	3E-10	4E-08	9E-09	8E-08	7E-07	4E-05	1E-08			0E+00			4E-05
Thallium	1E-06	1E-06	6E-08	3E-06	4E-04	2E-04	2E-05			5E-04			1E-03
Antimony	1E-06	7E-05	1E-05	1E-04	3E-04	3E-04	7E-06			0E+00			8E-04
Arsenic	3E-06	1E-05	5E-06	2E-05	9E-05	3E-05	3E-06			1E-04			3E-04
Barium	2E-07	2E-07	6E-08	4E-07	1E-07	3E-06	1E-08			0E+00		3E-05	4E-06
Beryllium	6E-07	9E-08	2E-08	2E-07	1E-06	7E-09	2E-07			5E-07			3E-06
Cadmium	2E-06	2E-05	8E-06	3E-05	2E-06	1E-06	2E-07			9E-04			9E-04
Chromium VI	1E-08	4E-08	1E-08	9E-08	2E-06	4E-06	5E-08			2E-07			6E-06
Chromium III	1E-08	1E-09	9E-10	3E-09	1E-07	2E-07	2E-08			1E-11			3E-07
Cobalt	1E-08	2E-08	1E-10	5E-08	2E-06	2E-06	9E-08			0E+00			4E-06
Hydrogen Chloride												9E-03	
Selenium	3E-09	3E-08	2E-08	7E-08	7E-07	1E-05	1E-06			3E-04			3E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	9E-08	2E-06	2E-07	1E-06	4E-06	1E-05	2E-09			8E-04			8E-04
Methylmercury - Neurological Effects	3E-08	6E-07	8E-08	5E-07	1E-06	3E-06	5E-10			3E-04			3E-04

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	James River	3E-08	5E-08	4E-11	2E-09	8E-08
2,3,7,8-TCDD-TEQ	Rivanna River	3E-08	9E-08	4E-11	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Sports Lake	3E-08	2E-07	4E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Holman Creek	3E-08	9E-07	4E-11	2E-09	9E-07
Nickel	James River				5E-10	
Nickel	Rivanna River				5E-10	
Nickel	Sports Lake				5E-10	
Nickel	Holman Creek				5E-10	
Arsenic	James River	2E-09	4E-11	4E-10	9E-09	2E-09
Arsenic	Rivanna River	2E-09	5E-11	4E-10	9E-09	2E-09
Arsenic	Sports Lake	2E-09	5E-10	4E-10	9E-09	3E-09
Arsenic	Holman Creek	2E-09	7E-10	4E-10	9E-09	3E-09
Beryllium	James River				4E-10	
Beryllium	Rivanna River				4E-10	
Beryllium	Sports Lake				4E-10	
Beryllium	Holman Creek				4E-10	
Cadmium	James River				2E-09	
Cadmium	Rivanna River				2E-09	
Cadmium	Sports Lake				2E-09	
Cadmium	Holman Creek				2E-09	
Chromium VI	James River				3E-09	
Chromium VI	Rivanna River				3E-09	
Chromium VI	Sports Lake				3E-09	
Chromium VI	Holman Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	James River	1E-07	0E+00	2E-08	2E-04	2E-07
Manganese	Rivanna River	1E-07	0E+00	2E-08	2E-04	2E-07
Manganese	Sports Lake	1E-07	0E+00	2E-08	2E-04	2E-07
Manganese	Holman Creek	1E-07	0E+00	2E-08	2E-04	2E-07
Mercury (elemental)	James River				3E-06	
Mercury (elemental)	Rivanna River				3E-06	
Mercury (elemental)	Sports Lake				3E-06	
Mercury (elemental)	Holman Creek				3E-06	
Mercury (divalent)	James River	3E-05		3E-07		3E-05
Mercury (divalent)	Rivanna River	3E-05		3E-07		3E-05
Mercury (divalent)	Sports Lake	3E-05		3E-07		3E-05
Mercury (divalent)	Holman Creek	3E-05		3E-07		3E-05
Nickel	James River	5E-07	3E-09	2E-07		6E-07
Nickel	Rivanna River	5E-07	4E-09	2E-07		6E-07
Nickel	Sports Lake	5E-07	4E-08	2E-07		7E-07
Nickel	Holman Creek	5E-07	6E-08	2E-07		7E-07
Silver	James River	5E-09	0E+00	6E-08		6E-08
Silver	Rivanna River	5E-09	0E+00	6E-08		6E-08
Silver	Sports Lake	5E-09	0E+00	6E-08		6E-08
Silver	Holman Creek	5E-09	0E+00	6E-08		6E-08
Thallium	James River	2E-05	4E-06	2E-06		3E-05
Thallium	Rivanna River	2E-05	5E-06	2E-06		3E-05
Thallium	Sports Lake	2E-05	5E-05	2E-06		7E-05
Thallium	Holman Creek	2E-05	7E-05	2E-06		1E-04

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	James River	3E-05	0E+00	8E-05		1E-04
Antimony	Rivanna River	3E-05	0E+00	8E-05		1E-04
Antimony	Sports Lake	3E-05	0E+00	8E-05		1E-04
Antimony	Holman Creek	3E-05	0E+00	8E-05		1E-04
Arsenic	James River	5E-05	1E-06	1E-05		6E-05
Arsenic	Rivanna River	5E-05	1E-06	1E-05		6E-05
Arsenic	Sports Lake	5E-05	1E-05	1E-05		7E-05
Arsenic	Holman Creek	5E-05	2E-05	1E-05		8E-05
Barium	James River	4E-06	0E+00	2E-08	3E-05	4E-06
Barium	Rivanna River	4E-06	0E+00	2E-08	3E-05	4E-06
Barium	Sports Lake	4E-06	0E+00	2E-08	3E-05	4E-06
Barium	Holman Creek	4E-06	0E+00	2E-08	3E-05	4E-06
Beryllium	James River	1E-05	2E-08	7E-08		1E-05
Beryllium	Rivanna River	1E-05	4E-08	7E-08		1E-05
Beryllium	Sports Lake	1E-05	2E-07	7E-08		1E-05
Beryllium	Holman Creek	1E-05	7E-07	7E-08		1E-05
Cadmium	James River	3E-05	8E-06	3E-06		4E-05
Cadmium	Rivanna River	3E-05	1E-05	3E-06		4E-05
Cadmium	Sports Lake	3E-05	1E-04	3E-06		1E-04
Cadmium	Holman Creek	3E-05	2E-04	3E-06		2E-04
Chromium VI	James River	2E-07	1E-09	8E-08		3E-07
Chromium VI	Rivanna River	2E-07	1E-09	8E-08		3E-07
Chromium VI	Sports Lake	2E-07	2E-08	8E-08		3E-07
Chromium VI	Holman Creek	2E-07	2E-08	8E-08		3E-07
Chromium III	James River	2E-07	1E-11	1E-11		2E-07
Chromium III	Rivanna River	2E-07	2E-11	1E-11		2E-07
Chromium III	Sports Lake	2E-07	4E-12	1E-11		2E-07
Chromium III	Holman Creek	2E-07	2E-10	1E-11		2E-07
Cobalt	James River	2E-07	0E+00	1E-11		2E-07
Cobalt	Rivanna River	2E-07	0E+00	1E-11		2E-07
Cobalt	Sports Lake	2E-07	0E+00	1E-11		2E-07
Cobalt	Holman Creek	2E-07	0E+00	1E-11		2E-07
Hydrogen Chloride	James River				9E-03	
Hydrogen Chloride	Rivanna River				9E-03	
Hydrogen Chloride	Sports Lake				9E-03	
Hydrogen Chloride	Holman Creek				9E-03	
Selenium	James River	5E-08	2E-06	6E-08		2E-06
Selenium	Rivanna River	5E-08	2E-06	6E-08		3E-06
Selenium	Sports Lake	5E-08	3E-05	6E-08		3E-05
Selenium	Holman Creek	5E-08	4E-05	6E-08		4E-05
Chlorine	James River				3E-04	
Chlorine	Rivanna River				3E-04	
Chlorine	Sports Lake				3E-04	
Chlorine	Holman Creek				3E-04	
Methylmercury - Developmental Effects	James River	2E-06	9E-04	1E-08		9E-04
Methylmercury - Developmental Effects	Rivanna River	2E-06	2E-03	1E-08		2E-03
Methylmercury - Developmental Effects	Sports Lake	2E-06	3E-03	1E-08		3E-03
Methylmercury - Developmental Effects	Holman Creek	2E-06	8E-03	1E-08		8E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	James River	6E-07	3E-04	4E-09		3E-04
Methylmercury - Neurological Effects	Rivanna River	6E-07	6E-04	4E-09		6E-04
Methylmercury - Neurological Effects	Sports Lake	6E-07	9E-04	4E-09		9E-04
Methylmercury - Neurological Effects	Holman Creek	6E-07	3E-03	4E-09		3E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	James River	1E-08	7E-08	3E-11	2E-09	8E-08
2,3,7,8-TCDD-TEQ	Rivanna River	1E-08	1E-07	3E-11	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Sports Lake	1E-08	2E-07	3E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Holman Creek	1E-08	1E-06	3E-11	2E-09	1E-06
Nickel	James River				5E-10	
Nickel	Rivanna River				5E-10	
Nickel	Sports Lake				5E-10	
Nickel	Holman Creek				5E-10	
Arsenic	James River	7E-10	5E-11	3E-10	1E-08	1E-09
Arsenic	Rivanna River	7E-10	6E-11	3E-10	1E-08	1E-09
Arsenic	Sports Lake	7E-10	7E-10	3E-10	1E-08	2E-09
Arsenic	Holman Creek	7E-10	1E-09	3E-10	1E-08	2E-09
Beryllium	James River				4E-10	
Beryllium	Rivanna River				4E-10	
Beryllium	Sports Lake				4E-10	
Beryllium	Holman Creek				4E-10	
Cadmium	James River				2E-09	
Cadmium	Rivanna River				2E-09	
Cadmium	Sports Lake				2E-09	
Cadmium	Holman Creek				2E-09	
Chromium VI	James River				3E-09	
Chromium VI	Rivanna River				3E-09	
Chromium VI	Sports Lake				3E-09	
Chromium VI	Holman Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	James River	4E-08	0E+00	9E-09	2E-04	5E-08
Manganese	Rivanna River	4E-08	0E+00	9E-09	2E-04	5E-08
Manganese	Sports Lake	4E-08	0E+00	9E-09	2E-04	5E-08
Manganese	Holman Creek	4E-08	0E+00	9E-09	2E-04	5E-08
Mercury (elemental)	James River				3E-06	
Mercury (elemental)	Rivanna River				3E-06	
Mercury (elemental)	Sports Lake				3E-06	
Mercury (elemental)	Holman Creek				3E-06	
Mercury (divalent)	James River	7E-06		2E-07		7E-06
Mercury (divalent)	Rivanna River	7E-06		2E-07		7E-06
Mercury (divalent)	Sports Lake	7E-06		2E-07		7E-06
Mercury (divalent)	Holman Creek	7E-06		2E-07		7E-06
Nickel	James River	1E-07	3E-09	9E-08		2E-07
Nickel	Rivanna River	1E-07	4E-09	9E-08		2E-07
Nickel	Sports Lake	1E-07	4E-08	9E-08		3E-07
Nickel	Holman Creek	1E-07	6E-08	9E-08		3E-07
Silver	James River	1E-09	0E+00	3E-08		3E-08
Silver	Rivanna River	1E-09	0E+00	3E-08		3E-08
Silver	Sports Lake	1E-09	0E+00	3E-08		3E-08
Silver	Holman Creek	1E-09	0E+00	3E-08		3E-08
Thallium	James River	6E-06	4E-06	1E-06		1E-05
Thallium	Rivanna River	6E-06	5E-06	1E-06		1E-05
Thallium	Sports Lake	6E-06	5E-05	1E-06		6E-05
Thallium	Holman Creek	6E-06	7E-05	1E-06		8E-05

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	James River	7E-06	0E+00	5E-05		5E-05
Antimony	Rivanna River	7E-06	0E+00	5E-05		5E-05
Antimony	Sports Lake	7E-06	0E+00	5E-05		5E-05
Antimony	Holman Creek	7E-06	0E+00	5E-05		5E-05
Arsenic	James River	1E-05	1E-06	6E-06		2E-05
Arsenic	Rivanna River	1E-05	1E-06	6E-06		2E-05
Arsenic	Sports Lake	1E-05	1E-05	6E-06		3E-05
Arsenic	Holman Creek	1E-05	2E-05	6E-06		4E-05
Barium	James River	1E-06	0E+00	1E-08	3E-05	1E-06
Barium	Rivanna River	1E-06	0E+00	1E-08	3E-05	1E-06
Barium	Sports Lake	1E-06	0E+00	1E-08	3E-05	1E-06
Barium	Holman Creek	1E-06	0E+00	1E-08	3E-05	1E-06
Beryllium	James River	3E-06	2E-08	4E-08		3E-06
Beryllium	Rivanna River	3E-06	4E-08	4E-08		3E-06
Beryllium	Sports Lake	3E-06	2E-07	4E-08		3E-06
Beryllium	Holman Creek	3E-06	7E-07	4E-08		4E-06
Cadmium	James River	8E-06	8E-06	2E-06		2E-05
Cadmium	Rivanna River	8E-06	1E-05	2E-06		2E-05
Cadmium	Sports Lake	8E-06	1E-04	2E-06		1E-04
Cadmium	Holman Creek	8E-06	2E-04	2E-06		2E-04
Chromium VI	James River	6E-08	1E-09	4E-08		1E-07
Chromium VI	Rivanna River	6E-08	1E-09	4E-08		1E-07
Chromium VI	Sports Lake	6E-08	2E-08	4E-08		1E-07
Chromium VI	Holman Creek	6E-08	2E-08	4E-08		1E-07
Chromium III	James River	5E-08	1E-11	6E-12		5E-08
Chromium III	Rivanna River	5E-08	2E-11	6E-12		5E-08
Chromium III	Sports Lake	5E-08	4E-12	6E-12		5E-08
Chromium III	Holman Creek	5E-08	2E-10	6E-12		5E-08
Cobalt	James River	4E-08	0E+00	6E-12		4E-08
Cobalt	Rivanna River	4E-08	0E+00	6E-12		4E-08
Cobalt	Sports Lake	4E-08	0E+00	6E-12		4E-08
Cobalt	Holman Creek	4E-08	0E+00	6E-12		4E-08
Hydrogen Chloride	James River				9E-03	
Hydrogen Chloride	Rivanna River				9E-03	
Hydrogen Chloride	Sports Lake				9E-03	
Hydrogen Chloride	Holman Creek				9E-03	
Selenium	James River	1E-08	2E-06	4E-08		2E-06
Selenium	Rivanna River	1E-08	2E-06	4E-08		2E-06
Selenium	Sports Lake	1E-08	3E-05	4E-08		3E-05
Selenium	Holman Creek	1E-08	4E-05	4E-08		4E-05
Chlorine	James River				3E-04	
Chlorine	Rivanna River				3E-04	
Chlorine	Sports Lake				3E-04	
Chlorine	Holman Creek				3E-04	
Methylmercury - Developmental Effects	James River	4E-07	9E-04	7E-09		9E-04
Methylmercury - Developmental Effects	Rivanna River	4E-07	2E-03	7E-09		2E-03
Methylmercury - Developmental Effects	Sports Lake	4E-07	3E-03	7E-09		3E-03
Methylmercury - Developmental Effects	Holman Creek	4E-07	8E-03	7E-09		8E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	James River	1E-07	3E-04	2E-09		3E-04
Methylmercury - Neurological Effects	Rivanna River	1E-07	6E-04	2E-09		6E-04
Methylmercury - Neurological Effects	Sports Lake	1E-07	9E-04	2E-09		9E-04
Methylmercury - Neurological Effects	Holman Creek	1E-07	3E-03	2E-09		3E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	James River	6E-09	5E-08	2E-11	1E-09	6E-08
2,3,7,8-TCDD-TEQ	Rivanna River	6E-09	9E-08	2E-11	1E-09	9E-08
2,3,7,8-TCDD-TEQ	Sports Lake	6E-09	2E-07	2E-11	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Holman Creek	6E-09	9E-07	2E-11	1E-09	9E-07
Nickel	James River				4E-10	
Nickel	Rivanna River				4E-10	
Nickel	Sports Lake				4E-10	
Nickel	Holman Creek				4E-10	
Arsenic	James River	4E-10	4E-11	2E-10	7E-09	6E-10
Arsenic	Rivanna River	4E-10	5E-11	2E-10	7E-09	6E-10
Arsenic	Sports Lake	4E-10	5E-10	2E-10	7E-09	1E-09
Arsenic	Holman Creek	4E-10	7E-10	2E-10	7E-09	1E-09
Beryllium	James River				3E-10	
Beryllium	Rivanna River				3E-10	
Beryllium	Sports Lake				3E-10	
Beryllium	Holman Creek				3E-10	
Cadmium	James River				1E-09	
Cadmium	Rivanna River				1E-09	
Cadmium	Sports Lake				1E-09	
Cadmium	Holman Creek				1E-09	
Chromium VI	James River				2E-09	
Chromium VI	Rivanna River				2E-09	
Chromium VI	Sports Lake				2E-09	
Chromium VI	Holman Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	James River	2E-08	0E+00	6E-09	2E-04	3E-08
Manganese	Rivanna River	2E-08	0E+00	6E-09	2E-04	3E-08
Manganese	Sports Lake	2E-08	0E+00	6E-09	2E-04	3E-08
Manganese	Holman Creek	2E-08	0E+00	6E-09	2E-04	3E-08
Mercury (elemental)	James River				3E-06	
Mercury (elemental)	Rivanna River				3E-06	
Mercury (elemental)	Sports Lake				3E-06	
Mercury (elemental)	Holman Creek				3E-06	
Mercury (divalent)	James River	4E-06		1E-07		4E-06
Mercury (divalent)	Rivanna River	4E-06		1E-07		4E-06
Mercury (divalent)	Sports Lake	4E-06		1E-07		4E-06
Mercury (divalent)	Holman Creek	4E-06		1E-07		4E-06
Nickel	James River	7E-08	2E-09	6E-08		1E-07
Nickel	Rivanna River	7E-08	3E-09	6E-08		1E-07
Nickel	Sports Lake	7E-08	3E-08	6E-08		2E-07
Nickel	Holman Creek	7E-08	4E-08	6E-08		2E-07
Silver	James River	7E-10	0E+00	2E-08		2E-08
Silver	Rivanna River	7E-10	0E+00	2E-08		2E-08
Silver	Sports Lake	7E-10	0E+00	2E-08		2E-08
Silver	Holman Creek	7E-10	0E+00	2E-08		2E-08
Thallium	James River	3E-06	3E-06	8E-07		7E-06
Thallium	Rivanna River	3E-06	3E-06	8E-07		7E-06
Thallium	Sports Lake	3E-06	3E-05	8E-07		4E-05
Thallium	Holman Creek	3E-06	5E-05	8E-07		6E-05

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	James River	4E-06	0E+00	3E-05		3E-05
Antimony	Rivanna River	4E-06	0E+00	3E-05		3E-05
Antimony	Sports Lake	4E-06	0E+00	3E-05		3E-05
Antimony	Holman Creek	4E-06	0E+00	3E-05		3E-05
Arsenic	James River	7E-06	7E-07	4E-06		1E-05
Arsenic	Rivanna River	7E-06	8E-07	4E-06		1E-05
Arsenic	Sports Lake	7E-06	9E-06	4E-06		2E-05
Arsenic	Holman Creek	7E-06	1E-05	4E-06		2E-05
Barium	James River	6E-07	0E+00	8E-09	3E-05	6E-07
Barium	Rivanna River	6E-07	0E+00	8E-09	3E-05	6E-07
Barium	Sports Lake	6E-07	0E+00	8E-09	3E-05	6E-07
Barium	Holman Creek	6E-07	0E+00	8E-09	3E-05	6E-07
Beryllium	James River	1E-06	2E-08	2E-08		2E-06
Beryllium	Rivanna River	1E-06	3E-08	2E-08		2E-06
Beryllium	Sports Lake	1E-06	1E-07	2E-08		2E-06
Beryllium	Holman Creek	1E-06	5E-07	2E-08		2E-06
Cadmium	James River	4E-06	6E-06	1E-06		1E-05
Cadmium	Rivanna River	4E-06	7E-06	1E-06		1E-05
Cadmium	Sports Lake	4E-06	7E-05	1E-06		8E-05
Cadmium	Holman Creek	4E-06	1E-04	1E-06		1E-04
Chromium VI	James River	3E-08	8E-10	3E-08		6E-08
Chromium VI	Rivanna River	3E-08	1E-09	3E-08		6E-08
Chromium VI	Sports Lake	3E-08	1E-08	3E-08		7E-08
Chromium VI	Holman Creek	3E-08	2E-08	3E-08		7E-08
Chromium III	James River	3E-08	8E-12	4E-12		3E-08
Chromium III	Rivanna River	3E-08	1E-11	4E-12		3E-08
Chromium III	Sports Lake	3E-08	3E-12	4E-12		3E-08
Chromium III	Holman Creek	3E-08	1E-10	4E-12		3E-08
Cobalt	James River	2E-08	0E+00	1E-08		3E-08
Cobalt	Rivanna River	2E-08	0E+00	1E-08		3E-08
Cobalt	Sports Lake	2E-08	0E+00	1E-08		3E-08
Cobalt	Holman Creek	2E-08	0E+00	1E-08		3E-08
Hydrogen Chloride	James River				9E-03	
Hydrogen Chloride	Rivanna River				9E-03	
Hydrogen Chloride	Sports Lake				9E-03	
Hydrogen Chloride	Holman Creek				9E-03	
Selenium	James River	7E-09	1E-06	2E-08		1E-06
Selenium	Rivanna River	7E-09	2E-06	2E-08		2E-06
Selenium	Sports Lake	7E-09	2E-05	2E-08		2E-05
Selenium	Holman Creek	7E-09	3E-05	2E-08		3E-05
Chlorine	James River				3E-04	
Chlorine	Rivanna River				3E-04	
Chlorine	Sports Lake				3E-04	
Chlorine	Holman Creek				3E-04	
Methylmercury - Developmental Effects	James River	2E-07	7E-04	5E-09		7E-04
Methylmercury - Developmental Effects	Rivanna River	2E-07	1E-03	5E-09		1E-03
Methylmercury - Developmental Effects	Sports Lake	2E-07	2E-03	5E-09		2E-03
Methylmercury - Developmental Effects	Holman Creek	2E-07	6E-03	5E-09		6E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	James River	8E-08	2E-04	2E-09		2E-04
Methylmercury - Neurological Effects	Rivanna River	8E-08	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	Sports Lake	8E-08	6E-04	2E-09		6E-04
Methylmercury - Neurological Effects	Holman Creek	8E-08	2E-03	2E-09		2E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	James River	4E-09	9E-08	4E-11	2E-09	9E-08
2,3,7,8-TCDD-TEQ	Rivanna River	4E-09	2E-07	4E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Sports Lake	4E-09	3E-07	4E-11	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Holman Creek	4E-09	2E-06	4E-11	2E-09	2E-06
Nickel	James River				5E-10	
Nickel	Rivanna River				5E-10	
Nickel	Sports Lake				5E-10	
Nickel	Holman Creek				5E-10	
Arsenic	James River	3E-10	7E-11	5E-10	1E-08	9E-10
Arsenic	Rivanna River	3E-10	9E-11	5E-10	1E-08	9E-10
Arsenic	Sports Lake	3E-10	9E-10	5E-10	1E-08	2E-09
Arsenic	Holman Creek	3E-10	1E-09	5E-10	1E-08	2E-09
Beryllium	James River				4E-10	
Beryllium	Rivanna River				4E-10	
Beryllium	Sports Lake				4E-10	
Beryllium	Holman Creek				4E-10	
Cadmium	James River				2E-09	
Cadmium	Rivanna River				2E-09	
Cadmium	Sports Lake				2E-09	
Cadmium	Holman Creek				2E-09	
Chromium VI	James River				3E-09	
Chromium VI	Rivanna River				3E-09	
Chromium VI	Sports Lake				3E-09	
Chromium VI	Holman Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	James River	8E-09	0E+00	7E-09	2E-04	1E-08
Manganese	Rivanna River	8E-09	0E+00	7E-09	2E-04	1E-08
Manganese	Sports Lake	8E-09	0E+00	7E-09	2E-04	1E-08
Manganese	Holman Creek	8E-09	0E+00	7E-09	2E-04	1E-08
Mercury (elemental)	James River				3E-06	
Mercury (elemental)	Rivanna River				3E-06	
Mercury (elemental)	Sports Lake				3E-06	
Mercury (elemental)	Holman Creek				3E-06	
Mercury (divalent)	James River	2E-06		1E-07		2E-06
Mercury (divalent)	Rivanna River	2E-06		1E-07		2E-06
Mercury (divalent)	Sports Lake	2E-06		1E-07		2E-06
Mercury (divalent)	Holman Creek	2E-06		1E-07		2E-06
Nickel	James River	3E-08	2E-09	7E-08		1E-07
Nickel	Rivanna River	3E-08	3E-09	7E-08		1E-07
Nickel	Sports Lake	3E-08	3E-08	7E-08		1E-07
Nickel	Holman Creek	3E-08	4E-08	7E-08		1E-07
Silver	James River	3E-10	0E+00	3E-08		3E-08
Silver	Rivanna River	3E-10	0E+00	3E-08		3E-08
Silver	Sports Lake	3E-10	0E+00	3E-08		3E-08
Silver	Holman Creek	3E-10	0E+00	3E-08		3E-08
Thallium	James River	1E-06	3E-06	9E-07		5E-06
Thallium	Rivanna River	1E-06	3E-06	9E-07		5E-06
Thallium	Sports Lake	1E-06	3E-05	9E-07		4E-05
Thallium	Holman Creek	1E-06	5E-05	9E-07		5E-05

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	James River	1E-06	0E+00	3E-05		4E-05
Antimony	Rivanna River	1E-06	0E+00	3E-05		4E-05
Antimony	Sports Lake	1E-06	0E+00	3E-05		4E-05
Antimony	Holman Creek	1E-06	0E+00	3E-05		4E-05
Arsenic	James River	3E-06	7E-07	5E-06		8E-06
Arsenic	Rivanna River	3E-06	8E-07	5E-06		8E-06
Arsenic	Sports Lake	3E-06	9E-06	5E-06		2E-05
Arsenic	Holman Creek	3E-06	1E-05	5E-06		2E-05
Barium	James River	2E-07	0E+00	1E-08	3E-05	3E-07
Barium	Rivanna River	2E-07	0E+00	1E-08	3E-05	3E-07
Barium	Sports Lake	2E-07	0E+00	1E-08	3E-05	3E-07
Barium	Holman Creek	2E-07	0E+00	1E-08	3E-05	3E-07
Beryllium	James River	6E-07	2E-08	3E-08		6E-07
Beryllium	Rivanna River	6E-07	3E-08	3E-08		7E-07
Beryllium	Sports Lake	6E-07	1E-07	3E-08		8E-07
Beryllium	Holman Creek	6E-07	5E-07	3E-08		1E-06
Cadmium	James River	2E-06	6E-06	1E-06		9E-06
Cadmium	Rivanna River	2E-06	7E-06	1E-06		1E-05
Cadmium	Sports Lake	2E-06	7E-05	1E-06		8E-05
Cadmium	Holman Creek	2E-06	1E-04	1E-06		1E-04
Chromium VI	James River	1E-08	8E-10	3E-08		5E-08
Chromium VI	Rivanna River	1E-08	1E-09	3E-08		5E-08
Chromium VI	Sports Lake	1E-08	1E-08	3E-08		6E-08
Chromium VI	Holman Creek	1E-08	2E-08	3E-08		6E-08
Chromium III	James River	1E-08	8E-12	4E-12		1E-08
Chromium III	Rivanna River	1E-08	1E-11	4E-12		1E-08
Chromium III	Sports Lake	1E-08	3E-12	4E-12		1E-08
Chromium III	Holman Creek	1E-08	1E-10	4E-12		1E-08
Cobalt	James River	1E-08	0E+00	1E-08		2E-08
Cobalt	Rivanna River	1E-08	0E+00	1E-08		2E-08
Cobalt	Sports Lake	1E-08	0E+00	1E-08		2E-08
Cobalt	Holman Creek	1E-08	0E+00	1E-08		2E-08
Hydrogen Chloride	James River				9E-03	
Hydrogen Chloride	Rivanna River				9E-03	
Hydrogen Chloride	Sports Lake				9E-03	
Hydrogen Chloride	Holman Creek				9E-03	
Selenium	James River	3E-09	1E-06	3E-08		1E-06
Selenium	Rivanna River	3E-09	2E-06	3E-08		2E-06
Selenium	Sports Lake	3E-09	2E-05	3E-08		2E-05
Selenium	Holman Creek	3E-09	3E-05	3E-08		3E-05
Chlorine	James River				3E-04	
Chlorine	Rivanna River				3E-04	
Chlorine	Sports Lake				3E-04	
Chlorine	Holman Creek				3E-04	
Methylmercury - Developmental Effects	James River	9E-08	7E-04	5E-09		7E-04
Methylmercury - Developmental Effects	Rivanna River	9E-08	1E-03	5E-09		1E-03
Methylmercury - Developmental Effects	Sports Lake	9E-08	2E-03	5E-09		2E-03
Methylmercury - Developmental Effects	Holman Creek	9E-08	6E-03	5E-09		6E-03

Table IX-C2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 313, 314) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	James River	3E-08	2E-04	2E-09		2E-04
Methylmercury - Neurological Effects	Rivanna River	3E-08	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	Sports Lake	3E-08	6E-04	2E-09		6E-04
Methylmercury - Neurological Effects	Holman Creek	3E-08	2E-03	2E-09		2E-03

Table IX-C3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-09	6E-10	6E-10	1E-09	2E-07	2E-06	3E-08	2E-07	1E-07	1E-07		2E-09	3E-06
Nickel												4E-10	
Arsenic	9E-10	3E-10	1E-10	7E-10	2E-09	4E-09	2E-10			5E-09		6E-09	1E-08
Beryllium												3E-10	
Cadmium												4E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	6E-08	2E-07	4E-08	2E-06	3E-09			0E+00		2E-04	3E-06
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	1E-04	1E-04	3E-04	6E-04	6E-03	2E-06						7E-03
Nickel	3E-07	1E-07	5E-08	3E-07	3E-06	3E-05	2E-07			5E-07			3E-05
Silver	3E-09	4E-08	9E-09	9E-08	6E-07	2E-04	2E-08			0E+00			2E-04
Thallium	3E-05	2E-06	1E-07	6E-06	6E-04	2E-03	7E-05			1E-03			3E-03
Antimony	5E-07	2E-06	5E-07	4E-06	7E-06	4E-05	3E-07			0E+00			5E-05
Arsenic	2E-05	9E-06	4E-06	2E-05	5E-05	9E-05	4E-06			1E-04			3E-04
Barium	6E-06	6E-07	1E-07	1E-06	3E-07	3E-05	4E-08			0E+00		6E-05	4E-05
Beryllium	4E-06	6E-08	1E-08	1E-07	6E-07	3E-08	2E-07			3E-07			6E-06
Cadmium	4E-05	4E-05	2E-05	8E-05	4E-06	1E-05	7E-07			2E-03			2E-03
Chromium VI	6E-07	2E-07	7E-08	5E-07	6E-06	1E-04	4E-07			1E-06			1E-04
Chromium III	2E-07	2E-09	2E-09	6E-09	2E-07	2E-06	6E-08			2E-11			2E-06
Cobalt	1E-07	3E-08	1E-10	6E-08	2E-06	1E-05	2E-07			0E+00			1E-05
Hydrogen Chloride												1E-02	
Selenium	6E-08	5E-08	5E-08	1E-07	1E-06	1E-04	4E-06			8E-04			9E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	6E-05	5E-05	1E-05	5E-05	1E-04	2E-03	1E-07			2E-01			2E-01
Methylmercury - Neurological Effects	2E-05	2E-05	5E-06	2E-05	4E-05	6E-04	5E-08			7E-02			7E-02

Table IX-C3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	5E-10	5E-10	2E-09	4E-07	2E-06	2E-08	2E-07	1E-07	1E-07		2E-09	3E-06
Nickel												4E-10	
Arsenic	3E-10	2E-10	1E-10	1E-09	3E-09	2E-09	1E-10			5E-09		7E-09	1E-08
Beryllium												3E-10	
Cadmium												5E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	4E-08	2E-07	5E-08	1E-06	2E-09			0E+00		2E-04	1E-06
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	8E-05	7E-05	3E-04	8E-04	3E-03	1E-06						4E-03
Nickel	7E-08	7E-08	3E-08	3E-07	3E-06	1E-05	1E-07			3E-07			2E-05
Silver	8E-10	2E-08	7E-09	9E-08	6E-07	1E-04	1E-08			0E+00			1E-04
Thallium	7E-06	1E-06	9E-08	5E-06	7E-04	9E-04	4E-05			7E-04			2E-03
Antimony	1E-07	1E-06	3E-07	4E-06	8E-06	2E-05	2E-07			0E+00			3E-05
Arsenic	6E-06	5E-06	3E-06	2E-05	6E-05	5E-05	2E-06			9E-05			2E-04
Barium	1E-06	3E-07	1E-07	1E-06	3E-07	2E-05	2E-08			0E+00		6E-05	2E-05
Beryllium	1E-06	3E-08	8E-09	1E-07	7E-07	1E-08	1E-07			2E-07			2E-06
Cadmium	1E-05	2E-05	1E-05	8E-05	5E-06	7E-06	4E-07			2E-03			2E-03
Chromium VI	2E-07	1E-07	5E-08	5E-07	8E-06	5E-05	2E-07			7E-07			6E-05
Chromium III	6E-08	1E-09	1E-09	6E-09	2E-07	1E-06	3E-08			1E-11			1E-06
Cobalt	3E-08	1E-08	1E-10	6E-08	3E-06	6E-06	1E-07			0E+00			9E-06
Hydrogen Chloride												1E-02	
Selenium	2E-08	3E-08	3E-08	1E-07	1E-06	5E-05	2E-06			6E-04			7E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	1E-05	3E-05	1E-05	5E-05	2E-04	9E-04	9E-08			2E-01			2E-01
Methylmercury - Neurological Effects	5E-06	9E-06	3E-06	2E-05	5E-05	3E-04	3E-08			5E-02			5E-02

Table IX-C3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	4E-10	4E-10	9E-10	2E-07	8E-07	1E-08	1E-07	7E-08	6E-08		1E-09	1E-06
Nickel												3E-10	
Arsenic	2E-10	2E-10	9E-11	5E-10	2E-09	1E-09	8E-11			3E-09		5E-09	7E-09
Beryllium												2E-10	
Cadmium												3E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	5E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00		2E-04	7E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	1E-04	6E-05	5E-05	2E-04	3E-04	1E-03	9E-07			0E+00			2E-03
Nickel	3E-08	5E-08	2E-08	1E-07	1E-06	6E-06	6E-08			2E-07			8E-06
Silver	4E-10	2E-08	5E-09	5E-08	3E-07	5E-05	8E-09			0E+00			5E-05
Thallium	4E-06	9E-07	6E-08	3E-06	3E-04	4E-04	3E-05			4E-04			1E-03
Antimony	7E-08	8E-07	2E-07	2E-06	4E-06	9E-06	1E-07			0E+00			2E-05
Arsenic	3E-06	4E-06	2E-06	1E-05	3E-05	2E-05	1E-06			5E-05			1E-04
Barium	8E-07	2E-07	7E-08	6E-07	1E-07	8E-06	2E-08			0E+00		6E-05	9E-06
Beryllium	6E-07	3E-08	6E-09	8E-08	3E-07	6E-09	8E-08			1E-07			1E-06
Cadmium	6E-06	2E-05	1E-05	4E-05	2E-06	3E-06	3E-07			9E-04			1E-03
Chromium VI	8E-08	7E-08	4E-08	2E-07	3E-06	2E-05	1E-07			4E-07			3E-05
Chromium III	3E-08	1E-09	8E-10	3E-09	9E-08	5E-07	2E-08			7E-12			6E-07
Cobalt	2E-08	1E-08	7E-11	3E-08	1E-06	3E-06	7E-08			0E+00			4E-06
Hydrogen Chloride												1E-02	
Selenium	9E-09	2E-08	2E-08	8E-08	6E-07	2E-05	2E-06			3E-04			3E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	8E-06	2E-05	7E-06	2E-05	7E-05	4E-04	6E-08			8E-02			8E-02
Methylmercury - Neurological Effects	3E-06	7E-06	2E-06	8E-06	2E-05	1E-04	2E-08			3E-02			3E-02

Table IX-C3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	9E-10	7E-10	2E-09	4E-07	6E-07	2E-08	2E-07	1E-07	1E-07		2E-09	2E-06
Nickel												4E-10	
Arsenic	1E-10	5E-10	2E-10	9E-10	3E-09	1E-09	1E-10			6E-09		7E-09	1E-08
Beryllium												3E-10	
Cadmium												5E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-09	7E-08	4E-08	1E-07	2E-08	2E-07	1E-09			0E+00		2E-04	5E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	5E-05	8E-05	6E-05	1E-04	4E-04	6E-04	7E-07			0E+00			1E-03
Nickel	1E-08	7E-08	3E-08	1E-07	2E-06	3E-06	5E-08			2E-07			5E-06
Silver	2E-10	2E-08	5E-09	4E-08	3E-07	2E-05	7E-09			0E+00			2E-05
Thallium	2E-06	1E-06	7E-08	3E-06	4E-04	2E-04	2E-05			4E-04			1E-03
Antimony	3E-08	1E-06	3E-07	2E-06	4E-06	4E-06	9E-08			0E+00			1E-05
Arsenic	1E-06	5E-06	2E-06	9E-06	3E-05	9E-06	1E-06			5E-05			1E-04
Barium	3E-07	3E-07	8E-08	5E-07	2E-07	3E-06	1E-08			0E+00		6E-05	5E-06
Beryllium	2E-07	3E-08	6E-09	7E-08	4E-07	3E-09	7E-08			1E-07			9E-07
Cadmium	2E-06	2E-05	1E-05	4E-05	2E-06	1E-06	2E-07			1E-03			1E-03
Chromium VI	3E-08	1E-07	4E-08	2E-07	4E-06	1E-05	1E-07			4E-07			2E-05
Chromium III	1E-08	1E-09	9E-10	3E-09	1E-07	2E-07	2E-08			8E-12			3E-07
Cobalt	7E-09	1E-08	8E-11	3E-08	1E-06	1E-06	6E-08			0E+00			3E-06
Hydrogen Chloride												1E-02	
Selenium	4E-09	3E-08	3E-08	7E-08	7E-07	1E-05	1E-06			4E-04			4E-04
Chlorine												3E-04	
Methylmercury - Developmental Effects	3E-06	3E-05	8E-06	2E-05	8E-05	2E-04	5E-08			9E-02			9E-02
Methylmercury - Neurological Effects	1E-06	9E-06	3E-06	7E-06	3E-05	6E-05	2E-08			3E-02			3E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Bluelick Creek (includes Clear Run)	9E-09	5E-07	8E-11	2E-09	5E-07
2,3,7,8-TCDD-TEQ	Salt River (includes Floyd's Fork)	9E-09	1E-07	8E-11	2E-09	1E-07
2,3,7,8-TCDD-TEQ	McNeely Lake	9E-09	2E-07	8E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Silver Lake	9E-09	2E-07	8E-11	2E-09	2E-07
Nickel	Bluelick Creek (includes Clear Run)				4E-10	
Nickel	Salt River (includes Floyd's Fork)				4E-10	
Nickel	McNeely Lake				4E-10	
Nickel	Silver Lake				4E-10	
Arsenic	Bluelick Creek (includes Clear Run)	9E-10	1E-09	7E-10	6E-09	3E-09
Arsenic	Salt River (includes Floyd's Fork)	9E-10	7E-11	7E-10	6E-09	2E-09
Arsenic	McNeely Lake	9E-10	6E-10	7E-10	6E-09	2E-09
Arsenic	Silver Lake	9E-10	7E-10	7E-10	6E-09	2E-09
Beryllium	Bluelick Creek (includes Clear Run)				3E-10	
Beryllium	Salt River (includes Floyd's Fork)				3E-10	
Beryllium	McNeely Lake				3E-10	
Beryllium	Silver Lake				3E-10	
Cadmium	Bluelick Creek (includes Clear Run)				4E-09	
Cadmium	Salt River (includes Floyd's Fork)				4E-09	
Cadmium	McNeely Lake				4E-09	
Cadmium	Silver Lake				4E-09	
Chromium VI	Bluelick Creek (includes Clear Run)				1E-08	
Chromium VI	Salt River (includes Floyd's Fork)				1E-08	
Chromium VI	McNeely Lake				1E-08	
Chromium VI	Silver Lake				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Bluelick Creek (includes Clear Run)	1E-07	0E+00	4E-08	2E-04	1E-07
Manganese	Salt River (includes Floyd's Fork)	1E-07	0E+00	4E-08	2E-04	1E-07
Manganese	McNeely Lake	1E-07	0E+00	4E-08	2E-04	1E-07
Manganese	Silver Lake	1E-07	0E+00	4E-08	2E-04	1E-07
Mercury (elemental)	Bluelick Creek (includes Clear Run)				5E-05	
Mercury (elemental)	Salt River (includes Floyd's Fork)				5E-05	
Mercury (elemental)	McNeely Lake				5E-05	
Mercury (elemental)	Silver Lake				5E-05	
Mercury (divalent)	Bluelick Creek (includes Clear Run)	9E-04		1E-05		9E-04
Mercury (divalent)	Salt River (includes Floyd's Fork)	9E-04		1E-05		9E-04
Mercury (divalent)	McNeely Lake	9E-04		1E-05		9E-04
Mercury (divalent)	Silver Lake	9E-04		1E-05		9E-04
Nickel	Bluelick Creek (includes Clear Run)	3E-07	1E-07	3E-07		7E-07
Nickel	Salt River (includes Floyd's Fork)	3E-07	7E-09	3E-07		5E-07
Nickel	McNeely Lake	3E-07	7E-08	3E-07		6E-07
Nickel	Silver Lake	3E-07	6E-08	3E-07		6E-07
Silver	Bluelick Creek (includes Clear Run)	3E-09	0E+00	1E-07		1E-07
Silver	Salt River (includes Floyd's Fork)	3E-09	0E+00	1E-07		1E-07
Silver	McNeely Lake	3E-09	0E+00	1E-07		1E-07
Silver	Silver Lake	3E-09	0E+00	1E-07		1E-07
Thallium	Bluelick Creek (includes Clear Run)	3E-05	4E-04	9E-06		4E-04
Thallium	Salt River (includes Floyd's Fork)	3E-05	2E-05	9E-06		5E-05
Thallium	McNeely Lake	3E-05	1E-04	9E-06		2E-04
Thallium	Silver Lake	3E-05	2E-04	9E-06		2E-04

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Bluelick Creek (includes Clear Run)	5E-07	0E+00	6E-06		6E-06
Antimony	Salt River (includes Floyd's Fork)	5E-07	0E+00	6E-06		6E-06
Antimony	McNeely Lake	5E-07	0E+00	6E-06		6E-06
Antimony	Silver Lake	5E-07	0E+00	6E-06		6E-06
Arsenic	Bluelick Creek (includes Clear Run)	2E-05	4E-05	2E-05		8E-05
Arsenic	Salt River (includes Floyd's Fork)	2E-05	2E-06	2E-05		4E-05
Arsenic	McNeely Lake	2E-05	1E-05	2E-05		5E-05
Arsenic	Silver Lake	2E-05	2E-05	2E-05		6E-05
Barium	Bluelick Creek (includes Clear Run)	6E-06	0E+00	1E-07	6E-05	6E-06
Barium	Salt River (includes Floyd's Fork)	6E-06	0E+00	1E-07	6E-05	6E-06
Barium	McNeely Lake	6E-06	0E+00	1E-07	6E-05	6E-06
Barium	Silver Lake	6E-06	0E+00	1E-07	6E-05	6E-06
Beryllium	Bluelick Creek (includes Clear Run)	4E-06	6E-07	9E-08		5E-06
Beryllium	Salt River (includes Floyd's Fork)	4E-06	6E-08	9E-08		4E-06
Beryllium	McNeely Lake	4E-06	2E-07	9E-08		5E-06
Beryllium	Silver Lake	4E-06	4E-07	9E-08		5E-06
Cadmium	Bluelick Creek (includes Clear Run)	4E-05	1E-03	2E-05		1E-03
Cadmium	Salt River (includes Floyd's Fork)	4E-05	5E-05	2E-05		1E-04
Cadmium	McNeely Lake	4E-05	4E-04	2E-05		5E-04
Cadmium	Silver Lake	4E-05	4E-04	2E-05		5E-04
Chromium VI	Bluelick Creek (includes Clear Run)	6E-07	3E-07	7E-07		2E-06
Chromium VI	Salt River (includes Floyd's Fork)	6E-07	1E-08	7E-07		1E-06
Chromium VI	McNeely Lake	6E-07	9E-08	7E-07		1E-06
Chromium VI	Silver Lake	6E-07	1E-07	7E-07		1E-06
Chromium III	Bluelick Creek (includes Clear Run)	2E-07	1E-10	4E-11		2E-07
Chromium III	Salt River (includes Floyd's Fork)	2E-07	6E-11	4E-11		2E-07
Chromium III	McNeely Lake	2E-07	9E-12	4E-11		2E-07
Chromium III	Silver Lake	2E-07	6E-11	4E-11		2E-07
Cobalt	Bluelick Creek (includes Clear Run)	1E-07	0E+00	4E-11		1E-07
Cobalt	Salt River (includes Floyd's Fork)	1E-07	0E+00	4E-11		1E-07
Cobalt	McNeely Lake	1E-07	0E+00	4E-11		1E-07
Cobalt	Silver Lake	1E-07	0E+00	4E-11		1E-07
Hydrogen Chloride	Bluelick Creek (includes Clear Run)				1E-02	
Hydrogen Chloride	Salt River (includes Floyd's Fork)				1E-02	
Hydrogen Chloride	McNeely Lake				1E-02	
Hydrogen Chloride	Silver Lake				1E-02	
Selenium	Bluelick Creek (includes Clear Run)	6E-08	2E-04	3E-07		2E-04
Selenium	Salt River (includes Floyd's Fork)	6E-08	1E-05	3E-07		1E-05
Selenium	McNeely Lake	6E-08	1E-04	3E-07		1E-04
Selenium	Silver Lake	6E-08	1E-04	3E-07		1E-04
Chlorine	Bluelick Creek (includes Clear Run)				3E-04	
Chlorine	Salt River (includes Floyd's Fork)				3E-04	
Chlorine	McNeely Lake				3E-04	
Chlorine	Silver Lake				3E-04	
Methylmercury - Developmental Effects	Bluelick Creek (includes Clear Run)	6E-05	1E-01	4E-07		1E-01
Methylmercury - Developmental Effects	Salt River (includes Floyd's Fork)	6E-05	6E-02	4E-07		6E-02
Methylmercury - Developmental Effects	McNeely Lake	6E-05	2E-01	4E-07		2E-01
Methylmercury - Developmental Effects	Silver Lake	6E-05	3E-02	4E-07		3E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Bluelick Creek (includes Clear Run)	2E-05	4E-02	1E-07		4E-02
Methylmercury - Neurological Effects	Salt River (includes Floyd's Fork)	2E-05	2E-02	1E-07		2E-02
Methylmercury - Neurological Effects	McNeely Lake	2E-05	6E-02	1E-07		6E-02
Methylmercury - Neurological Effects	Silver Lake	2E-05	1E-02	1E-07		1E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Bluelick Creek (includes Clear Run)	3E-09	7E-07	6E-11	2E-09	7E-07
2,3,7,8-TCDD-TEQ	Salt River (includes Floyd's Fork)	3E-09	2E-07	6E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	McNeely Lake	3E-09	3E-07	6E-11	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Silver Lake	3E-09	2E-07	6E-11	2E-09	2E-07
Nickel	Bluelick Creek (includes Clear Run)				4E-10	
Nickel	Salt River (includes Floyd's Fork)				4E-10	
Nickel	McNeely Lake				4E-10	
Nickel	Silver Lake				4E-10	
Arsenic	Bluelick Creek (includes Clear Run)	3E-10	2E-09	5E-10	7E-09	3E-09
Arsenic	Salt River (includes Floyd's Fork)	3E-10	1E-10	5E-10	7E-09	1E-09
Arsenic	McNeely Lake	3E-10	8E-10	5E-10	7E-09	2E-09
Arsenic	Silver Lake	3E-10	9E-10	5E-10	7E-09	2E-09
Beryllium	Bluelick Creek (includes Clear Run)				3E-10	
Beryllium	Salt River (includes Floyd's Fork)				3E-10	
Beryllium	McNeely Lake				3E-10	
Beryllium	Silver Lake				3E-10	
Cadmium	Bluelick Creek (includes Clear Run)				5E-09	
Cadmium	Salt River (includes Floyd's Fork)				5E-09	
Cadmium	McNeely Lake				5E-09	
Cadmium	Silver Lake				5E-09	
Chromium VI	Bluelick Creek (includes Clear Run)				2E-08	
Chromium VI	Salt River (includes Floyd's Fork)				2E-08	
Chromium VI	McNeely Lake				2E-08	
Chromium VI	Silver Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Bluelick Creek (includes Clear Run)	3E-08	0E+00	2E-08	2E-04	5E-08
Manganese	Salt River (includes Floyd's Fork)	3E-08	0E+00	2E-08	2E-04	5E-08
Manganese	McNeely Lake	3E-08	0E+00	2E-08	2E-04	5E-08
Manganese	Silver Lake	3E-08	0E+00	2E-08	2E-04	5E-08
Mercury (elemental)	Bluelick Creek (includes Clear Run)				5E-05	
Mercury (elemental)	Salt River (includes Floyd's Fork)				5E-05	
Mercury (elemental)	McNeely Lake				5E-05	
Mercury (elemental)	Silver Lake				5E-05	
Mercury (divalent)	Bluelick Creek (includes Clear Run)	2E-04		7E-06		2E-04
Mercury (divalent)	Salt River (includes Floyd's Fork)	2E-04		7E-06		2E-04
Mercury (divalent)	McNeely Lake	2E-04		7E-06		2E-04
Mercury (divalent)	Silver Lake	2E-04		7E-06		2E-04
Nickel	Bluelick Creek (includes Clear Run)	7E-08	1E-07	2E-07		4E-07
Nickel	Salt River (includes Floyd's Fork)	7E-08	7E-09	2E-07		2E-07
Nickel	McNeely Lake	7E-08	7E-08	2E-07		3E-07
Nickel	Silver Lake	7E-08	6E-08	2E-07		3E-07
Silver	Bluelick Creek (includes Clear Run)	8E-10	0E+00	7E-08		7E-08
Silver	Salt River (includes Floyd's Fork)	8E-10	0E+00	7E-08		7E-08
Silver	McNeely Lake	8E-10	0E+00	7E-08		7E-08
Silver	Silver Lake	8E-10	0E+00	7E-08		7E-08
Thallium	Bluelick Creek (includes Clear Run)	7E-06	4E-04	5E-06		4E-04
Thallium	Salt River (includes Floyd's Fork)	7E-06	2E-05	5E-06		3E-05
Thallium	McNeely Lake	7E-06	1E-04	5E-06		2E-04
Thallium	Silver Lake	7E-06	2E-04	5E-06		2E-04

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Bluelick Creek (includes Clear Run)	1E-07	0E+00	3E-06		3E-06
Antimony	Salt River (includes Floyd's Fork)	1E-07	0E+00	3E-06		3E-06
Antimony	McNeely Lake	1E-07	0E+00	3E-06		3E-06
Antimony	Silver Lake	1E-07	0E+00	3E-06		3E-06
Arsenic	Bluelick Creek (includes Clear Run)	6E-06	4E-05	1E-05		5E-05
Arsenic	Salt River (includes Floyd's Fork)	6E-06	2E-06	1E-05		2E-05
Arsenic	McNeely Lake	6E-06	1E-05	1E-05		3E-05
Arsenic	Silver Lake	6E-06	2E-05	1E-05		3E-05
Barium	Bluelick Creek (includes Clear Run)	1E-06	0E+00	6E-08	6E-05	2E-06
Barium	Salt River (includes Floyd's Fork)	1E-06	0E+00	6E-08	6E-05	2E-06
Barium	McNeely Lake	1E-06	0E+00	6E-08	6E-05	2E-06
Barium	Silver Lake	1E-06	0E+00	6E-08	6E-05	2E-06
Beryllium	Bluelick Creek (includes Clear Run)	1E-06	6E-07	5E-08		2E-06
Beryllium	Salt River (includes Floyd's Fork)	1E-06	6E-08	5E-08		1E-06
Beryllium	McNeely Lake	1E-06	2E-07	5E-08		1E-06
Beryllium	Silver Lake	1E-06	4E-07	5E-08		2E-06
Cadmium	Bluelick Creek (includes Clear Run)	1E-05	1E-03	1E-05		1E-03
Cadmium	Salt River (includes Floyd's Fork)	1E-05	5E-05	1E-05		7E-05
Cadmium	McNeely Lake	1E-05	4E-04	1E-05		4E-04
Cadmium	Silver Lake	1E-05	4E-04	1E-05		5E-04
Chromium VI	Bluelick Creek (includes Clear Run)	2E-07	3E-07	4E-07		8E-07
Chromium VI	Salt River (includes Floyd's Fork)	2E-07	1E-08	4E-07		6E-07
Chromium VI	McNeely Lake	2E-07	9E-08	4E-07		6E-07
Chromium VI	Silver Lake	2E-07	1E-07	4E-07		7E-07
Chromium III	Bluelick Creek (includes Clear Run)	6E-08	1E-10	2E-11		6E-08
Chromium III	Salt River (includes Floyd's Fork)	6E-08	6E-11	2E-11		6E-08
Chromium III	McNeely Lake	6E-08	9E-12	2E-11		6E-08
Chromium III	Silver Lake	6E-08	6E-11	2E-11		6E-08
Cobalt	Bluelick Creek (includes Clear Run)	3E-08	0E+00	2E-11		3E-08
Cobalt	Salt River (includes Floyd's Fork)	3E-08	0E+00	2E-11		3E-08
Cobalt	McNeely Lake	3E-08	0E+00	2E-11		3E-08
Cobalt	Silver Lake	3E-08	0E+00	2E-11		3E-08
Hydrogen Chloride	Bluelick Creek (includes Clear Run)				1E-02	
Hydrogen Chloride	Salt River (includes Floyd's Fork)				1E-02	
Hydrogen Chloride	McNeely Lake				1E-02	
Hydrogen Chloride	Silver Lake				1E-02	
Selenium	Bluelick Creek (includes Clear Run)	2E-08	2E-04	2E-07		2E-04
Selenium	Salt River (includes Floyd's Fork)	2E-08	1E-05	2E-07		1E-05
Selenium	McNeely Lake	2E-08	1E-04	2E-07		1E-04
Selenium	Silver Lake	2E-08	1E-04	2E-07		1E-04
Chlorine	Bluelick Creek (includes Clear Run)				3E-04	
Chlorine	Salt River (includes Floyd's Fork)				3E-04	
Chlorine	McNeely Lake				3E-04	
Chlorine	Silver Lake				3E-04	
Methylmercury - Developmental Effects	Bluelick Creek (includes Clear Run)	1E-05	1E-01	2E-07		1E-01
Methylmercury - Developmental Effects	Salt River (includes Floyd's Fork)	1E-05	6E-02	2E-07		6E-02
Methylmercury - Developmental Effects	McNeely Lake	1E-05	2E-01	2E-07		2E-01
Methylmercury - Developmental Effects	Silver Lake	1E-05	3E-02	2E-07		3E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Bluelick Creek (includes Clear Run)	5E-06	4E-02	7E-08		4E-02
Methylmercury - Neurological Effects	Salt River (includes Floyd's Fork)	5E-06	2E-02	7E-08		2E-02
Methylmercury - Neurological Effects	McNeely Lake	5E-06	6E-02	7E-08		6E-02
Methylmercury - Neurological Effects	Silver Lake	5E-06	1E-02	7E-08		1E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Bluelick Creek (includes Clear Run)	2E-09	5E-07	4E-11	1E-09	5E-07
2,3,7,8-TCDD-TEQ	Salt River (includes Floyd's Fork)	2E-09	1E-07	4E-11	1E-09	1E-07
2,3,7,8-TCDD-TEQ	McNeely Lake	2E-09	2E-07	4E-11	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Silver Lake	2E-09	2E-07	4E-11	1E-09	2E-07
Nickel	Bluelick Creek (includes Clear Run)				3E-10	
Nickel	Salt River (includes Floyd's Fork)				3E-10	
Nickel	McNeely Lake				3E-10	
Nickel	Silver Lake				3E-10	
Arsenic	Bluelick Creek (includes Clear Run)	2E-10	1E-09	4E-10	5E-09	2E-09
Arsenic	Salt River (includes Floyd's Fork)	2E-10	7E-11	4E-10	5E-09	6E-10
Arsenic	McNeely Lake	2E-10	6E-10	4E-10	5E-09	1E-09
Arsenic	Silver Lake	2E-10	7E-10	4E-10	5E-09	1E-09
Beryllium	Bluelick Creek (includes Clear Run)				2E-10	
Beryllium	Salt River (includes Floyd's Fork)				2E-10	
Beryllium	McNeely Lake				2E-10	
Beryllium	Silver Lake				2E-10	
Cadmium	Bluelick Creek (includes Clear Run)				3E-09	
Cadmium	Salt River (includes Floyd's Fork)				3E-09	
Cadmium	McNeely Lake				3E-09	
Cadmium	Silver Lake				3E-09	
Chromium VI	Bluelick Creek (includes Clear Run)				1E-08	
Chromium VI	Salt River (includes Floyd's Fork)				1E-08	
Chromium VI	McNeely Lake				1E-08	
Chromium VI	Silver Lake				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Bluelick Creek (includes Clear Run)	1E-08	0E+00	1E-08	2E-04	3E-08
Manganese	Salt River (includes Floyd's Fork)	1E-08	0E+00	1E-08	2E-04	3E-08
Manganese	McNeely Lake	1E-08	0E+00	1E-08	2E-04	3E-08
Manganese	Silver Lake	1E-08	0E+00	1E-08	2E-04	3E-08
Mercury (elemental)	Bluelick Creek (includes Clear Run)				5E-05	
Mercury (elemental)	Salt River (includes Floyd's Fork)				5E-05	
Mercury (elemental)	McNeely Lake				5E-05	
Mercury (elemental)	Silver Lake				5E-05	
Mercury (divalent)	Bluelick Creek (includes Clear Run)	1E-04		4E-06		1E-04
Mercury (divalent)	Salt River (includes Floyd's Fork)	1E-04		4E-06		1E-04
Mercury (divalent)	McNeely Lake	1E-04		4E-06		1E-04
Mercury (divalent)	Silver Lake	1E-04		4E-06		1E-04
Nickel	Bluelick Creek (includes Clear Run)	3E-08	1E-07	1E-07		2E-07
Nickel	Salt River (includes Floyd's Fork)	3E-08	5E-09	1E-07		1E-07
Nickel	McNeely Lake	3E-08	5E-08	1E-07		2E-07
Nickel	Silver Lake	3E-08	5E-08	1E-07		2E-07
Silver	Bluelick Creek (includes Clear Run)	4E-10	0E+00	4E-08		4E-08
Silver	Salt River (includes Floyd's Fork)	4E-10	0E+00	4E-08		4E-08
Silver	McNeely Lake	4E-10	0E+00	4E-08		4E-08
Silver	Silver Lake	4E-10	0E+00	4E-08		4E-08
Thallium	Bluelick Creek (includes Clear Run)	4E-06	3E-04	3E-06		3E-04
Thallium	Salt River (includes Floyd's Fork)	4E-06	1E-05	3E-06		2E-05
Thallium	McNeely Lake	4E-06	1E-04	3E-06		1E-04
Thallium	Silver Lake	4E-06	1E-04	3E-06		1E-04

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Bluelick Creek (includes Clear Run)	7E-08	0E+00	2E-06		2E-06
Antimony	Salt River (includes Floyd's Fork)	7E-08	0E+00	2E-06		2E-06
Antimony	McNeely Lake	7E-08	0E+00	2E-06		2E-06
Antimony	Silver Lake	7E-08	0E+00	2E-06		2E-06
Arsenic	Bluelick Creek (includes Clear Run)	3E-06	3E-05	6E-06		4E-05
Arsenic	Salt River (includes Floyd's Fork)	3E-06	1E-06	6E-06		1E-05
Arsenic	McNeely Lake	3E-06	1E-05	6E-06		2E-05
Arsenic	Silver Lake	3E-06	1E-05	6E-06		2E-05
Barium	Bluelick Creek (includes Clear Run)	8E-07	0E+00	4E-08	6E-05	8E-07
Barium	Salt River (includes Floyd's Fork)	8E-07	0E+00	4E-08	6E-05	8E-07
Barium	McNeely Lake	8E-07	0E+00	4E-08	6E-05	8E-07
Barium	Silver Lake	8E-07	0E+00	4E-08	6E-05	8E-07
Beryllium	Bluelick Creek (includes Clear Run)	6E-07	4E-07	3E-08		1E-06
Beryllium	Salt River (includes Floyd's Fork)	6E-07	4E-08	3E-08		7E-07
Beryllium	McNeely Lake	6E-07	1E-07	3E-08		7E-07
Beryllium	Silver Lake	6E-07	3E-07	3E-08		9E-07
Cadmium	Bluelick Creek (includes Clear Run)	6E-06	7E-04	6E-06		7E-04
Cadmium	Salt River (includes Floyd's Fork)	6E-06	3E-05	6E-06		5E-05
Cadmium	McNeely Lake	6E-06	3E-04	6E-06		3E-04
Cadmium	Silver Lake	6E-06	3E-04	6E-06		3E-04
Chromium VI	Bluelick Creek (includes Clear Run)	8E-08	2E-07	2E-07		5E-07
Chromium VI	Salt River (includes Floyd's Fork)	8E-08	9E-09	2E-07		3E-07
Chromium VI	McNeely Lake	8E-08	6E-08	2E-07		4E-07
Chromium VI	Silver Lake	8E-08	8E-08	2E-07		4E-07
Chromium III	Bluelick Creek (includes Clear Run)	3E-08	9E-11	1E-11		3E-08
Chromium III	Salt River (includes Floyd's Fork)	3E-08	4E-11	1E-11		3E-08
Chromium III	McNeely Lake	3E-08	7E-12	1E-11		3E-08
Chromium III	Silver Lake	3E-08	4E-11	1E-11		3E-08
Cobalt	Bluelick Creek (includes Clear Run)	2E-08	0E+00	3E-08		4E-08
Cobalt	Salt River (includes Floyd's Fork)	2E-08	0E+00	3E-08		4E-08
Cobalt	McNeely Lake	2E-08	0E+00	3E-08		4E-08
Cobalt	Silver Lake	2E-08	0E+00	3E-08		4E-08
Hydrogen Chloride	Bluelick Creek (includes Clear Run)				1E-02	
Hydrogen Chloride	Salt River (includes Floyd's Fork)				1E-02	
Hydrogen Chloride	McNeely Lake				1E-02	
Hydrogen Chloride	Silver Lake				1E-02	
Selenium	Bluelick Creek (includes Clear Run)	9E-09	2E-04	1E-07		2E-04
Selenium	Salt River (includes Floyd's Fork)	9E-09	8E-06	1E-07		8E-06
Selenium	McNeely Lake	9E-09	8E-05	1E-07		8E-05
Selenium	Silver Lake	9E-09	8E-05	1E-07		8E-05
Chlorine	Bluelick Creek (includes Clear Run)				3E-04	
Chlorine	Salt River (includes Floyd's Fork)				3E-04	
Chlorine	McNeely Lake				3E-04	
Chlorine	Silver Lake				3E-04	
Methylmercury - Developmental Effects	Bluelick Creek (includes Clear Run)	8E-06	9E-02	1E-07		9E-02
Methylmercury - Developmental Effects	Salt River (includes Floyd's Fork)	8E-06	4E-02	1E-07		4E-02
Methylmercury - Developmental Effects	McNeely Lake	8E-06	1E-01	1E-07		1E-01
Methylmercury - Developmental Effects	Silver Lake	8E-06	2E-02	1E-07		2E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Bluelick Creek (includes Clear Run)	3E-06	3E-02	5E-08		3E-02
Methylmercury - Neurological Effects	Salt River (includes Floyd's Fork)	3E-06	1E-02	5E-08		1E-02
Methylmercury - Neurological Effects	McNeely Lake	3E-06	4E-02	5E-08		4E-02
Methylmercury - Neurological Effects	Silver Lake	3E-06	7E-03	5E-08		7E-03

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Bluelick Creek (includes Clear Run)	1E-09	9E-07	9E-11	2E-09	9E-07
2,3,7,8-TCDD-TEQ	Salt River (includes Floyd's Fork)	1E-09	2E-07	9E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	McNeely Lake	1E-09	4E-07	9E-11	2E-09	4E-07
2,3,7,8-TCDD-TEQ	Silver Lake	1E-09	3E-07	9E-11	2E-09	3E-07
Nickel	Bluelick Creek (includes Clear Run)				4E-10	
Nickel	Salt River (includes Floyd's Fork)				4E-10	
Nickel	McNeely Lake				4E-10	
Nickel	Silver Lake				4E-10	
Arsenic	Bluelick Creek (includes Clear Run)	1E-10	3E-09	8E-10	7E-09	4E-09
Arsenic	Salt River (includes Floyd's Fork)	1E-10	1E-10	8E-10	7E-09	1E-09
Arsenic	McNeely Lake	1E-10	1E-09	8E-10	7E-09	2E-09
Arsenic	Silver Lake	1E-10	1E-09	8E-10	7E-09	2E-09
Beryllium	Bluelick Creek (includes Clear Run)				3E-10	
Beryllium	Salt River (includes Floyd's Fork)				3E-10	
Beryllium	McNeely Lake				3E-10	
Beryllium	Silver Lake				3E-10	
Cadmium	Bluelick Creek (includes Clear Run)				5E-09	
Cadmium	Salt River (includes Floyd's Fork)				5E-09	
Cadmium	McNeely Lake				5E-09	
Cadmium	Silver Lake				5E-09	
Chromium VI	Bluelick Creek (includes Clear Run)				1E-08	
Chromium VI	Salt River (includes Floyd's Fork)				1E-08	
Chromium VI	McNeely Lake				1E-08	
Chromium VI	Silver Lake				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Bluelick Creek (includes Clear Run)	6E-09	0E+00	2E-08	2E-04	2E-08
Manganese	Salt River (includes Floyd's Fork)	6E-09	0E+00	2E-08	2E-04	2E-08
Manganese	McNeely Lake	6E-09	0E+00	2E-08	2E-04	2E-08
Manganese	Silver Lake	6E-09	0E+00	2E-08	2E-04	2E-08
Mercury (elemental)	Bluelick Creek (includes Clear Run)				5E-05	
Mercury (elemental)	Salt River (includes Floyd's Fork)				5E-05	
Mercury (elemental)	McNeely Lake				5E-05	
Mercury (elemental)	Silver Lake				5E-05	
Mercury (divalent)	Bluelick Creek (includes Clear Run)	5E-05		5E-06		6E-05
Mercury (divalent)	Salt River (includes Floyd's Fork)	5E-05		5E-06		6E-05
Mercury (divalent)	McNeely Lake	5E-05		5E-06		6E-05
Mercury (divalent)	Silver Lake	5E-05		5E-06		6E-05
Nickel	Bluelick Creek (includes Clear Run)	1E-08	1E-07	1E-07		2E-07
Nickel	Salt River (includes Floyd's Fork)	1E-08	5E-09	1E-07		1E-07
Nickel	McNeely Lake	1E-08	5E-08	1E-07		2E-07
Nickel	Silver Lake	1E-08	5E-08	1E-07		2E-07
Silver	Bluelick Creek (includes Clear Run)	2E-10	0E+00	5E-08		5E-08
Silver	Salt River (includes Floyd's Fork)	2E-10	0E+00	5E-08		5E-08
Silver	McNeely Lake	2E-10	0E+00	5E-08		5E-08
Silver	Silver Lake	2E-10	0E+00	5E-08		5E-08
Thallium	Bluelick Creek (includes Clear Run)	2E-06	3E-04	4E-06		3E-04
Thallium	Salt River (includes Floyd's Fork)	2E-06	1E-05	4E-06		2E-05
Thallium	McNeely Lake	2E-06	1E-04	4E-06		1E-04
Thallium	Silver Lake	2E-06	1E-04	4E-06		1E-04

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Bluelick Creek (includes Clear Run)	3E-08	0E+00	2E-06		2E-06
Antimony	Salt River (includes Floyd's Fork)	3E-08	0E+00	2E-06		2E-06
Antimony	McNeely Lake	3E-08	0E+00	2E-06		2E-06
Antimony	Silver Lake	3E-08	0E+00	2E-06		2E-06
Arsenic	Bluelick Creek (includes Clear Run)	1E-06	3E-05	7E-06		4E-05
Arsenic	Salt River (includes Floyd's Fork)	1E-06	1E-06	7E-06		1E-05
Arsenic	McNeely Lake	1E-06	1E-05	7E-06		2E-05
Arsenic	Silver Lake	1E-06	1E-05	7E-06		2E-05
Barium	Bluelick Creek (includes Clear Run)	3E-07	0E+00	5E-08	6E-05	4E-07
Barium	Salt River (includes Floyd's Fork)	3E-07	0E+00	5E-08	6E-05	4E-07
Barium	McNeely Lake	3E-07	0E+00	5E-08	6E-05	4E-07
Barium	Silver Lake	3E-07	0E+00	5E-08	6E-05	4E-07
Beryllium	Bluelick Creek (includes Clear Run)	2E-07	4E-07	4E-08		7E-07
Beryllium	Salt River (includes Floyd's Fork)	2E-07	4E-08	4E-08		3E-07
Beryllium	McNeely Lake	2E-07	1E-07	4E-08		4E-07
Beryllium	Silver Lake	2E-07	3E-07	4E-08		6E-07
Cadmium	Bluelick Creek (includes Clear Run)	2E-06	7E-04	7E-06		7E-04
Cadmium	Salt River (includes Floyd's Fork)	2E-06	3E-05	7E-06		4E-05
Cadmium	McNeely Lake	2E-06	3E-04	7E-06		3E-04
Cadmium	Silver Lake	2E-06	3E-04	7E-06		3E-04
Chromium VI	Bluelick Creek (includes Clear Run)	3E-08	2E-07	3E-07		5E-07
Chromium VI	Salt River (includes Floyd's Fork)	3E-08	9E-09	3E-07		3E-07
Chromium VI	McNeely Lake	3E-08	6E-08	3E-07		4E-07
Chromium VI	Silver Lake	3E-08	8E-08	3E-07		4E-07
Chromium III	Bluelick Creek (includes Clear Run)	1E-08	9E-11	2E-11		1E-08
Chromium III	Salt River (includes Floyd's Fork)	1E-08	4E-11	2E-11		1E-08
Chromium III	McNeely Lake	1E-08	7E-12	2E-11		1E-08
Chromium III	Silver Lake	1E-08	4E-11	2E-11		1E-08
Cobalt	Bluelick Creek (includes Clear Run)	7E-09	0E+00	3E-08		4E-08
Cobalt	Salt River (includes Floyd's Fork)	7E-09	0E+00	3E-08		4E-08
Cobalt	McNeely Lake	7E-09	0E+00	3E-08		4E-08
Cobalt	Silver Lake	7E-09	0E+00	3E-08		4E-08
Hydrogen Chloride	Bluelick Creek (includes Clear Run)				1E-02	
Hydrogen Chloride	Salt River (includes Floyd's Fork)				1E-02	
Hydrogen Chloride	McNeely Lake				1E-02	
Hydrogen Chloride	Silver Lake				1E-02	
Selenium	Bluelick Creek (includes Clear Run)	4E-09	2E-04	1E-07		2E-04
Selenium	Salt River (includes Floyd's Fork)	4E-09	8E-06	1E-07		8E-06
Selenium	McNeely Lake	4E-09	8E-05	1E-07		8E-05
Selenium	Silver Lake	4E-09	8E-05	1E-07		8E-05
Chlorine	Bluelick Creek (includes Clear Run)				3E-04	
Chlorine	Salt River (includes Floyd's Fork)				3E-04	
Chlorine	McNeely Lake				3E-04	
Chlorine	Silver Lake				3E-04	
Methylmercury - Developmental Effects	Bluelick Creek (includes Clear Run)	3E-06	9E-02	2E-07		9E-02
Methylmercury - Developmental Effects	Salt River (includes Floyd's Fork)	3E-06	4E-02	2E-07		4E-02
Methylmercury - Developmental Effects	McNeely Lake	3E-06	1E-01	2E-07		1E-01
Methylmercury - Developmental Effects	Silver Lake	3E-06	2E-02	2E-07		2E-02

Table IX-C4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 310, 475) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Bluelick Creek (includes Clear Run)	1E-06	3E-02	5E-08		3E-02
Methylmercury - Neurological Effects	Salt River (includes Floyd's Fork)	1E-06	1E-02	5E-08		1E-02
Methylmercury - Neurological Effects	McNeely Lake	1E-06	4E-02	5E-08		4E-02
Methylmercury - Neurological Effects	Silver Lake	1E-06	7E-03	5E-08		7E-03

Table IX-C5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	7E-10	6E-10	2E-09	3E-07	3E-06	3E-08	3E-07	1E-07	2E-07		2E-09	4E-06
Nickel												2E-10	
Arsenic	9E-10	3E-10	1E-10	7E-10	2E-09	3E-09	1E-10			6E-09		8E-09	1E-08
Beryllium												7E-10	
Cadmium												1E-08	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	6E-08	2E-07	4E-08	2E-06	3E-09			0E+00		3E-04	3E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	7E-05	3E-05	1E-04	2E-04	2E-03	6E-07						2E-03
Nickel	1E-07	5E-08	2E-08	1E-07	1E-06	1E-05	6E-08			2E-07			1E-05
Silver	2E-08	2E-07	5E-08	4E-07	3E-06	1E-03	1E-07			0E+00			1E-03
Thallium	2E-05	2E-06	1E-07	4E-06	5E-04	1E-03	6E-05			1E-03			3E-03
Antimony	4E-07	1E-06	4E-07	3E-06	4E-06	3E-05	2E-07			0E+00			4E-05
Arsenic	2E-05	8E-06	4E-06	2E-05	5E-05	8E-05	4E-06			1E-04			3E-04
Barium	2E-05	2E-06	4E-07	3E-06	8E-07	1E-04	1E-07			0E+00		3E-04	1E-04
Beryllium	1E-05	1E-07	3E-08	3E-07	1E-06	6E-08	5E-07			9E-07			1E-05
Cadmium	9E-05	8E-05	4E-05	2E-04	8E-06	3E-05	1E-06			5E-03			6E-03
Chromium VI	1E-07	3E-08	1E-08	9E-08	1E-06	2E-05	7E-08			2E-07			2E-05
Chromium III	5E-07	5E-09	4E-09	1E-08	4E-07	5E-06	1E-07			6E-11			6E-06
Cobalt	1E-07	3E-08	1E-10	6E-08	2E-06	1E-05	2E-07			0E+00			1E-05
Hydrogen Chloride												1E-02	
Selenium	3E-08	2E-08	2E-08	6E-08	4E-07	4E-05	2E-06			4E-04			4E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-05	2E-05	3E-06	2E-05	6E-05	8E-04	4E-08			3E-02			3E-02
Methylmercury - Neurological Effects	5E-06	8E-06	1E-06	8E-06	2E-05	3E-04	1E-08			1E-02			1E-02

Table IX-C5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	5E-10	5E-10	2E-09	5E-07	2E-06	3E-08	3E-07	2E-07	2E-07		2E-09	3E-06
Nickel												2E-10	
Arsenic	3E-10	2E-10	1E-10	9E-10	3E-09	2E-09	1E-10			6E-09		9E-09	1E-08
Beryllium												8E-10	
Cadmium												1E-08	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	4E-08	2E-07	5E-08	1E-06	2E-09			0E+00		3E-04	1E-06
Mercury (elemental)												3E-05	
Mercury (divalent)	NA	4E-05	2E-05	1E-04	2E-04	1E-03	3E-07						1E-03
Nickel	3E-08	3E-08	1E-08	1E-07	1E-06	5E-06	4E-08			2E-07			7E-06
Silver	4E-09	1E-07	4E-08	4E-07	3E-06	5E-04	6E-08			0E+00			5E-04
Thallium	6E-06	9E-07	7E-08	4E-06	6E-04	7E-04	3E-05			7E-04			2E-03
Antimony	1E-07	8E-07	3E-07	3E-06	5E-06	1E-05	1E-07			0E+00			2E-05
Arsenic	6E-06	5E-06	3E-06	2E-05	5E-05	4E-05	2E-06			1E-04			2E-04
Barium	4E-06	9E-07	3E-07	3E-06	9E-07	5E-05	7E-08			0E+00		3E-04	6E-05
Beryllium	3E-06	7E-08	2E-08	3E-07	2E-06	3E-08	3E-07			7E-07			6E-06
Cadmium	2E-05	5E-05	3E-05	2E-04	9E-06	1E-05	8E-07			4E-03			4E-03
Chromium VI	3E-08	2E-08	1E-08	9E-08	1E-06	1E-05	4E-08			2E-07			1E-05
Chromium III	1E-07	3E-09	3E-09	1E-08	4E-07	2E-06	8E-08			5E-11			3E-06
Cobalt	4E-08	1E-08	1E-10	6E-08	3E-06	6E-06	1E-07			0E+00			9E-06
Hydrogen Chloride												1E-02	
Selenium	7E-09	1E-08	1E-08	6E-08	5E-07	2E-05	9E-07			3E-04			3E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	4E-06	1E-05	2E-06	2E-05	7E-05	4E-04	2E-08			2E-02			2E-02
Methylmercury - Neurological Effects	1E-06	5E-06	8E-07	8E-06	2E-05	1E-04	8E-09			8E-03			8E-03

Table IX-C5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	4E-10	4E-10	1E-09	2E-07	1E-06	2E-08	2E-07	8E-08	9E-08		1E-09	2E-06
Nickel												1E-10	
Arsenic	2E-10	2E-10	9E-11	5E-10	1E-09	1E-09	8E-11			3E-09		6E-09	7E-09
Beryllium												5E-10	
Cadmium												8E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00		3E-04	7E-07
Mercury (elemental)												3E-05	
Mercury (divalent)	3E-05	3E-05	1E-05	8E-05	1E-04	4E-04	2E-07			0E+00			7E-04
Nickel	1E-08	2E-08	1E-08	6E-08	6E-07	2E-06	3E-08			9E-08			3E-06
Silver	2E-09	8E-08	3E-08	2E-07	1E-06	2E-04	4E-08			0E+00			2E-04
Thallium	3E-06	7E-07	5E-08	2E-06	3E-04	3E-04	2E-05			4E-04			1E-03
Antimony	5E-08	6E-07	2E-07	2E-06	2E-06	6E-06	7E-08			0E+00			1E-05
Arsenic	3E-06	4E-06	2E-06	9E-06	2E-05	2E-05	1E-06			6E-05			1E-04
Barium	2E-06	7E-07	2E-07	2E-06	4E-07	2E-05	5E-08			0E+00		3E-04	3E-05
Beryllium	1E-06	6E-08	1E-08	2E-07	8E-07	1E-08	2E-07			3E-07			3E-06
Cadmium	1E-05	3E-05	2E-05	8E-05	4E-06	6E-06	6E-07			2E-03			2E-03
Chromium VI	2E-08	1E-08	7E-09	5E-08	6E-07	4E-06	3E-08			9E-08			5E-06
Chromium III	7E-08	2E-09	2E-09	7E-09	2E-07	1E-06	5E-08			2E-11			1E-06
Cobalt	2E-08	1E-08	7E-11	3E-08	1E-06	3E-06	8E-08			0E+00			4E-06
Hydrogen Chloride												1E-02	
Selenium	4E-09	9E-09	1E-08	3E-08	2E-07	8E-06	6E-07			2E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	2E-06	1E-05	2E-06	1E-05	3E-05	2E-04	2E-08			1E-02			1E-02
Methylmercury - Neurological Effects	6E-07	4E-06	6E-07	4E-06	1E-05	6E-05	5E-09			4E-03			4E-03

Table IX-C5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	1E-09	7E-10	2E-09	5E-07	9E-07	3E-08	3E-07	1E-07	2E-07		2E-09	2E-06
Nickel												2E-10	
Arsenic	1E-10	4E-10	2E-10	8E-10	3E-09	9E-10	1E-10			7E-09		9E-09	1E-08
Beryllium												8E-10	
Cadmium												1E-08	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-09	7E-08	4E-08	1E-07	2E-08	2E-07	1E-09			0E+00		3E-04	5E-07
Mercury (elemental)												3E-05	
Mercury (divalent)	1E-05	4E-05	1E-05	7E-05	1E-04	2E-04	2E-07			0E+00			4E-04
Nickel	6E-09	3E-08	1E-08	5E-08	6E-07	1E-06	2E-08			1E-07			2E-06
Silver	9E-10	1E-07	3E-08	2E-07	2E-06	1E-04	3E-08			0E+00			1E-04
Thallium	1E-06	9E-07	6E-08	2E-06	3E-04	1E-04	2E-05			4E-04			9E-04
Antimony	2E-08	8E-07	2E-07	2E-06	3E-06	3E-06	6E-08			0E+00			8E-06
Arsenic	1E-06	5E-06	2E-06	9E-06	3E-05	8E-06	1E-06			6E-05			1E-04
Barium	9E-07	1E-06	2E-07	2E-06	5E-07	1E-05	4E-08			0E+00		3E-04	1E-05
Beryllium	6E-07	8E-08	1E-08	2E-07	9E-07	6E-09	2E-07			4E-07			2E-06
Cadmium	5E-06	5E-05	2E-05	7E-05	5E-06	3E-06	5E-07			2E-03			2E-03
Chromium VI	7E-09	2E-08	8E-09	4E-08	7E-07	2E-06	2E-08			1E-07			3E-06
Chromium III	3E-08	3E-09	2E-09	7E-09	2E-07	5E-07	4E-08			3E-11			8E-07
Cobalt	8E-09	1E-08	8E-11	3E-08	1E-06	1E-06	7E-08			0E+00			3E-06
Hydrogen Chloride												1E-02	
Selenium	2E-09	1E-08	1E-08	3E-08	3E-07	4E-06	5E-07			2E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	8E-07	1E-05	2E-06	1E-05	4E-05	8E-05	1E-08			1E-02			1E-02
Methylmercury - Neurological Effects	3E-07	5E-06	6E-07	4E-06	1E-05	3E-05	5E-09			5E-03			5E-03

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cascade Creek	1E-08	6E-07	3E-12	2E-09	7E-07
2,3,7,8-TCDD-TEQ	Dan River	1E-08	5E-09	3E-12	2E-09	2E-08
2,3,7,8-TCDD-TEQ	Smith River	1E-08	4E-08	3E-12	2E-09	5E-08
Nickel	Cascade Creek				2E-10	
Nickel	Dan River				2E-10	
Nickel	Smith River				2E-10	
Arsenic	Cascade Creek	9E-10	1E-09	9E-12	8E-09	2E-09
Arsenic	Dan River	9E-10	1E-12	9E-12	8E-09	9E-10
Arsenic	Smith River	9E-10	2E-11	9E-12	8E-09	1E-09
Beryllium	Cascade Creek				7E-10	
Beryllium	Dan River				7E-10	
Beryllium	Smith River				7E-10	
Cadmium	Cascade Creek				1E-08	
Cadmium	Dan River				1E-08	
Cadmium	Smith River				1E-08	
Chromium VI	Cascade Creek				3E-09	
Chromium VI	Dan River				3E-09	
Chromium VI	Smith River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Cascade Creek	1E-07	0E+00	5E-10	3E-04	1E-07
Manganese	Dan River	1E-07	0E+00	5E-10	3E-04	1E-07
Manganese	Smith River	1E-07	0E+00	5E-10	3E-04	1E-07
Mercury (elemental)	Cascade Creek				3E-05	
Mercury (elemental)	Dan River				3E-05	
Mercury (elemental)	Smith River				3E-05	
Mercury (divalent)	Cascade Creek	2E-04		5E-08		2E-04
Mercury (divalent)	Dan River	2E-04		5E-08		2E-04
Mercury (divalent)	Smith River	2E-04		5E-08		2E-04
Nickel	Cascade Creek	1E-07	4E-08	1E-09		1E-07
Nickel	Dan River	1E-07	4E-11	1E-09		1E-07
Nickel	Smith River	1E-07	8E-10	1E-09		1E-07
Silver	Cascade Creek	2E-08	0E+00	9E-09		2E-08
Silver	Dan River	2E-08	0E+00	9E-09		2E-08
Silver	Smith River	2E-08	0E+00	9E-09		2E-08
Thallium	Cascade Creek	2E-05	2E-04	9E-08		2E-04
Thallium	Dan River	2E-05	2E-07	9E-08		2E-05
Thallium	Smith River	2E-05	4E-06	9E-08		3E-05
Antimony	Cascade Creek	4E-07	0E+00	5E-08		4E-07
Antimony	Dan River	4E-07	0E+00	5E-08		4E-07
Antimony	Smith River	4E-07	0E+00	5E-08		4E-07
Arsenic	Cascade Creek	2E-05	3E-05	2E-07		5E-05
Arsenic	Dan River	2E-05	2E-08	2E-07		2E-05
Arsenic	Smith River	2E-05	6E-07	2E-07		2E-05
Barium	Cascade Creek	2E-05	0E+00	6E-09	3E-04	2E-05
Barium	Dan River	2E-05	0E+00	6E-09	3E-04	2E-05
Barium	Smith River	2E-05	0E+00	6E-09	3E-04	2E-05
Beryllium	Cascade Creek	1E-05	1E-06	5E-09		1E-05
Beryllium	Dan River	1E-05	3E-09	5E-09		1E-05
Beryllium	Smith River	1E-05	3E-08	5E-09		1E-05

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cascade Creek	9E-05	1E-03	5E-07		1E-03
Cadmium	Dan River	9E-05	1E-06	5E-07		9E-05
Cadmium	Smith River	9E-05	3E-05	5E-07		1E-04
Chromium VI	Cascade Creek	1E-07	4E-08	2E-09		2E-07
Chromium VI	Dan River	1E-07	3E-11	2E-09		1E-07
Chromium VI	Smith River	1E-07	8E-10	2E-09		1E-07
Chromium III	Cascade Creek	5E-07	4E-10	3E-12		5E-07
Chromium III	Dan River	5E-07	4E-12	3E-12		5E-07
Chromium III	Smith River	5E-07	4E-11	3E-12		5E-07
Cobalt	Cascade Creek	1E-07	0E+00	3E-12		1E-07
Cobalt	Dan River	1E-07	0E+00	3E-12		1E-07
Cobalt	Smith River	1E-07	0E+00	3E-12		1E-07
Hydrogen Chloride	Cascade Creek				1E-02	
Hydrogen Chloride	Dan River				1E-02	
Hydrogen Chloride	Smith River				1E-02	
Selenium	Cascade Creek	3E-08	6E-05	1E-09		6E-05
Selenium	Dan River	3E-08	6E-08	1E-09		8E-08
Selenium	Smith River	3E-08	1E-06	1E-09		1E-06
Chlorine	Cascade Creek				2E-03	
Chlorine	Dan River				2E-03	
Chlorine	Smith River				2E-03	
Methylmercury - Developmental Effects	Cascade Creek	1E-05	6E-02	2E-09		6E-02
Methylmercury - Developmental Effects	Dan River	1E-05	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Smith River	1E-05	7E-03	2E-09		7E-03
Methylmercury - Neurological Effects	Cascade Creek	5E-06	2E-02	6E-10		2E-02
Methylmercury - Neurological Effects	Dan River	5E-06	9E-05	6E-10		1E-04
Methylmercury - Neurological Effects	Smith River	5E-06	2E-03	6E-10		2E-03

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cascade Creek	4E-09	9E-07	2E-12	2E-09	9E-07
2,3,7,8-TCDD-TEQ	Dan River	4E-09	7E-09	2E-12	2E-09	1E-08
2,3,7,8-TCDD-TEQ	Smith River	4E-09	5E-08	2E-12	2E-09	6E-08
Nickel	Cascade Creek				2E-10	
Nickel	Dan River				2E-10	
Nickel	Smith River				2E-10	
Arsenic	Cascade Creek	3E-10	1E-09	7E-12	9E-09	2E-09
Arsenic	Dan River	3E-10	1E-12	7E-12	9E-09	3E-10
Arsenic	Smith River	3E-10	3E-11	7E-12	9E-09	4E-10
Beryllium	Cascade Creek				8E-10	
Beryllium	Dan River				8E-10	
Beryllium	Smith River				8E-10	
Cadmium	Cascade Creek				1E-08	
Cadmium	Dan River				1E-08	
Cadmium	Smith River				1E-08	
Chromium VI	Cascade Creek				4E-09	
Chromium VI	Dan River				4E-09	
Chromium VI	Smith River				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Cascade Creek	3E-08	0E+00	3E-10	3E-04	3E-08
Manganese	Dan River	3E-08	0E+00	3E-10	3E-04	3E-08
Manganese	Smith River	3E-08	0E+00	3E-10	3E-04	3E-08
Mercury (elemental)	Cascade Creek				3E-05	
Mercury (elemental)	Dan River				3E-05	
Mercury (elemental)	Smith River				3E-05	
Mercury (divalent)	Cascade Creek	6E-05		3E-08		6E-05
Mercury (divalent)	Dan River	6E-05		3E-08		6E-05
Mercury (divalent)	Smith River	6E-05		3E-08		6E-05
Nickel	Cascade Creek	3E-08	4E-08	8E-10		7E-08
Nickel	Dan River	3E-08	4E-11	8E-10		3E-08
Nickel	Smith River	3E-08	8E-10	8E-10		3E-08
Silver	Cascade Creek	4E-09	0E+00	5E-09		9E-09
Silver	Dan River	4E-09	0E+00	5E-09		9E-09
Silver	Smith River	4E-09	0E+00	5E-09		9E-09
Thallium	Cascade Creek	6E-06	2E-04	5E-08		2E-04
Thallium	Dan River	6E-06	2E-07	5E-08		6E-06
Thallium	Smith River	6E-06	4E-06	5E-08		1E-05
Antimony	Cascade Creek	1E-07	0E+00	3E-08		1E-07
Antimony	Dan River	1E-07	0E+00	3E-08		1E-07
Antimony	Smith River	1E-07	0E+00	3E-08		1E-07
Arsenic	Cascade Creek	6E-06	3E-05	1E-07		3E-05
Arsenic	Dan River	6E-06	2E-08	1E-07		6E-06
Arsenic	Smith River	6E-06	6E-07	1E-07		7E-06
Barium	Cascade Creek	4E-06	0E+00	4E-09	3E-04	4E-06
Barium	Dan River	4E-06	0E+00	4E-09	3E-04	4E-06
Barium	Smith River	4E-06	0E+00	4E-09	3E-04	4E-06
Beryllium	Cascade Creek	3E-06	1E-06	3E-09		4E-06
Beryllium	Dan River	3E-06	3E-09	3E-09		3E-06
Beryllium	Smith River	3E-06	3E-08	3E-09		3E-06

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cascade Creek	2E-05	1E-03	3E-07		1E-03
Cadmium	Dan River	2E-05	1E-06	3E-07		2E-05
Cadmium	Smith River	2E-05	3E-05	3E-07		5E-05
Chromium VI	Cascade Creek	3E-08	4E-08	1E-09		7E-08
Chromium VI	Dan River	3E-08	3E-11	1E-09		3E-08
Chromium VI	Smith River	3E-08	8E-10	1E-09		4E-08
Chromium III	Cascade Creek	1E-07	4E-10	2E-12		1E-07
Chromium III	Dan River	1E-07	4E-12	2E-12		1E-07
Chromium III	Smith River	1E-07	4E-11	2E-12		1E-07
Cobalt	Cascade Creek	4E-08	0E+00	2E-12		4E-08
Cobalt	Dan River	4E-08	0E+00	2E-12		4E-08
Cobalt	Smith River	4E-08	0E+00	2E-12		4E-08
Hydrogen Chloride	Cascade Creek				1E-02	
Hydrogen Chloride	Dan River				1E-02	
Hydrogen Chloride	Smith River				1E-02	
Selenium	Cascade Creek	7E-09	6E-05	8E-10		6E-05
Selenium	Dan River	7E-09	6E-08	8E-10		6E-08
Selenium	Smith River	7E-09	1E-06	8E-10		1E-06
Chlorine	Cascade Creek				2E-03	
Chlorine	Dan River				2E-03	
Chlorine	Smith River				2E-03	
Methylmercury - Developmental Effects	Cascade Creek	4E-06	6E-02	1E-09		6E-02
Methylmercury - Developmental Effects	Dan River	4E-06	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Smith River	4E-06	7E-03	1E-09		7E-03
Methylmercury - Neurological Effects	Cascade Creek	1E-06	2E-02	3E-10		2E-02
Methylmercury - Neurological Effects	Dan River	1E-06	9E-05	3E-10		9E-05
Methylmercury - Neurological Effects	Smith River	1E-06	2E-03	3E-10		2E-03

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cascade Creek	2E-09	6E-07	1E-12	1E-09	6E-07
2,3,7,8-TCDD-TEQ	Dan River	2E-09	5E-09	1E-12	1E-09	7E-09
2,3,7,8-TCDD-TEQ	Smith River	2E-09	4E-08	1E-12	1E-09	4E-08
Nickel	Cascade Creek				1E-10	
Nickel	Dan River				1E-10	
Nickel	Smith River				1E-10	
Arsenic	Cascade Creek	2E-10	1E-09	5E-12	6E-09	1E-09
Arsenic	Dan River	2E-10	1E-12	5E-12	6E-09	2E-10
Arsenic	Smith River	2E-10	2E-11	5E-12	6E-09	2E-10
Beryllium	Cascade Creek				5E-10	
Beryllium	Dan River				5E-10	
Beryllium	Smith River				5E-10	
Cadmium	Cascade Creek				8E-09	
Cadmium	Dan River				8E-09	
Cadmium	Smith River				8E-09	
Chromium VI	Cascade Creek				3E-09	
Chromium VI	Dan River				3E-09	
Chromium VI	Smith River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Cascade Creek	2E-08	0E+00	2E-10	3E-04	2E-08
Manganese	Dan River	2E-08	0E+00	2E-10	3E-04	2E-08
Manganese	Smith River	2E-08	0E+00	2E-10	3E-04	2E-08
Mercury (elemental)	Cascade Creek				3E-05	
Mercury (elemental)	Dan River				3E-05	
Mercury (elemental)	Smith River				3E-05	
Mercury (divalent)	Cascade Creek	3E-05		2E-08		3E-05
Mercury (divalent)	Dan River	3E-05		2E-08		3E-05
Mercury (divalent)	Smith River	3E-05		2E-08		3E-05
Nickel	Cascade Creek	1E-08	3E-08	5E-10		4E-08
Nickel	Dan River	1E-08	3E-11	5E-10		2E-08
Nickel	Smith River	1E-08	6E-10	5E-10		2E-08
Silver	Cascade Creek	2E-09	0E+00	3E-09		5E-09
Silver	Dan River	2E-09	0E+00	3E-09		5E-09
Silver	Smith River	2E-09	0E+00	3E-09		5E-09
Thallium	Cascade Creek	3E-06	1E-04	3E-08		1E-04
Thallium	Dan River	3E-06	1E-07	3E-08		3E-06
Thallium	Smith River	3E-06	3E-06	3E-08		6E-06
Antimony	Cascade Creek	5E-08	0E+00	2E-08		7E-08
Antimony	Dan River	5E-08	0E+00	2E-08		7E-08
Antimony	Smith River	5E-08	0E+00	2E-08		7E-08
Arsenic	Cascade Creek	3E-06	2E-05	9E-08		2E-05
Arsenic	Dan River	3E-06	2E-08	9E-08		3E-06
Arsenic	Smith River	3E-06	4E-07	9E-08		4E-06
Barium	Cascade Creek	2E-06	0E+00	2E-09	3E-04	2E-06
Barium	Dan River	2E-06	0E+00	2E-09	3E-04	2E-06
Barium	Smith River	2E-06	0E+00	2E-09	3E-04	2E-06
Beryllium	Cascade Creek	1E-06	9E-07	2E-09		2E-06
Beryllium	Dan River	1E-06	2E-09	2E-09		1E-06
Beryllium	Smith River	1E-06	2E-08	2E-09		1E-06

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cascade Creek	1E-05	1E-03	2E-07		1E-03
Cadmium	Dan River	1E-05	9E-07	2E-07		1E-05
Cadmium	Smith River	1E-05	2E-05	2E-07		3E-05
Chromium VI	Cascade Creek	2E-08	3E-08	7E-10		5E-08
Chromium VI	Dan River	2E-08	2E-11	7E-10		2E-08
Chromium VI	Smith River	2E-08	6E-10	7E-10		2E-08
Chromium III	Cascade Creek	7E-08	3E-10	1E-12		7E-08
Chromium III	Dan River	7E-08	3E-12	1E-12		7E-08
Chromium III	Smith River	7E-08	3E-11	1E-12		7E-08
Cobalt	Cascade Creek	2E-08	0E+00	3E-10		2E-08
Cobalt	Dan River	2E-08	0E+00	3E-10		2E-08
Cobalt	Smith River	2E-08	0E+00	3E-10		2E-08
Hydrogen Chloride	Cascade Creek				1E-02	
Hydrogen Chloride	Dan River				1E-02	
Hydrogen Chloride	Smith River				1E-02	
Selenium	Cascade Creek	4E-09	4E-05	5E-10		4E-05
Selenium	Dan River	4E-09	4E-08	5E-10		4E-08
Selenium	Smith River	4E-09	9E-07	5E-10		9E-07
Chlorine	Cascade Creek				2E-03	
Chlorine	Dan River				2E-03	
Chlorine	Smith River				2E-03	
Methylmercury - Developmental Effects	Cascade Creek	2E-06	5E-02	7E-10		5E-02
Methylmercury - Developmental Effects	Dan River	2E-06	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Smith River	2E-06	5E-03	7E-10		5E-03
Methylmercury - Neurological Effects	Cascade Creek	6E-07	2E-02	2E-10		2E-02
Methylmercury - Neurological Effects	Dan River	6E-07	7E-05	2E-10		7E-05
Methylmercury - Neurological Effects	Smith River	6E-07	2E-03	2E-10		2E-03

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cascade Creek	2E-09	1E-06	3E-12	2E-09	1E-06
2,3,7,8-TCDD-TEQ	Dan River	2E-09	9E-09	3E-12	2E-09	1E-08
2,3,7,8-TCDD-TEQ	Smith River	2E-09	7E-08	3E-12	2E-09	7E-08
Nickel	Cascade Creek				2E-10	
Nickel	Dan River				2E-10	
Nickel	Smith River				2E-10	
Arsenic	Cascade Creek	1E-10	2E-09	1E-11	9E-09	2E-09
Arsenic	Dan River	1E-10	2E-12	1E-11	9E-09	1E-10
Arsenic	Smith River	1E-10	4E-11	1E-11	9E-09	2E-10
Beryllium	Cascade Creek				8E-10	
Beryllium	Dan River				8E-10	
Beryllium	Smith River				8E-10	
Cadmium	Cascade Creek				1E-08	
Cadmium	Dan River				1E-08	
Cadmium	Smith River				1E-08	
Chromium VI	Cascade Creek				4E-09	
Chromium VI	Dan River				4E-09	
Chromium VI	Smith River				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Cascade Creek	6E-09	0E+00	2E-10	3E-04	7E-09
Manganese	Dan River	6E-09	0E+00	2E-10	3E-04	7E-09
Manganese	Smith River	6E-09	0E+00	2E-10	3E-04	7E-09
Mercury (elemental)	Cascade Creek				3E-05	
Mercury (elemental)	Dan River				3E-05	
Mercury (elemental)	Smith River				3E-05	
Mercury (divalent)	Cascade Creek	1E-05		2E-08		1E-05
Mercury (divalent)	Dan River	1E-05		2E-08		1E-05
Mercury (divalent)	Smith River	1E-05		2E-08		1E-05
Nickel	Cascade Creek	6E-09	3E-08	6E-10		3E-08
Nickel	Dan River	6E-09	3E-11	6E-10		7E-09
Nickel	Smith River	6E-09	6E-10	6E-10		7E-09
Silver	Cascade Creek	9E-10	0E+00	4E-09		5E-09
Silver	Dan River	9E-10	0E+00	4E-09		5E-09
Silver	Smith River	9E-10	0E+00	4E-09		5E-09
Thallium	Cascade Creek	1E-06	1E-04	4E-08		1E-04
Thallium	Dan River	1E-06	1E-07	4E-08		1E-06
Thallium	Smith River	1E-06	3E-06	4E-08		5E-06
Antimony	Cascade Creek	2E-08	0E+00	2E-08		4E-08
Antimony	Dan River	2E-08	0E+00	2E-08		4E-08
Antimony	Smith River	2E-08	0E+00	2E-08		4E-08
Arsenic	Cascade Creek	1E-06	2E-05	1E-07		2E-05
Arsenic	Dan River	1E-06	2E-08	1E-07		1E-06
Arsenic	Smith River	1E-06	4E-07	1E-07		2E-06
Barium	Cascade Creek	9E-07	0E+00	3E-09	3E-04	9E-07
Barium	Dan River	9E-07	0E+00	3E-09	3E-04	9E-07
Barium	Smith River	9E-07	0E+00	3E-09	3E-04	9E-07
Beryllium	Cascade Creek	6E-07	9E-07	2E-09		1E-06
Beryllium	Dan River	6E-07	2E-09	2E-09		6E-07
Beryllium	Smith River	6E-07	2E-08	2E-09		6E-07

Table IX-C6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 311, 312, 336) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cascade Creek	5E-06	1E-03	2E-07		1E-03
Cadmium	Dan River	5E-06	9E-07	2E-07		6E-06
Cadmium	Smith River	5E-06	2E-05	2E-07		3E-05
Chromium VI	Cascade Creek	7E-09	3E-08	8E-10		3E-08
Chromium VI	Dan River	7E-09	2E-11	8E-10		8E-09
Chromium VI	Smith River	7E-09	6E-10	8E-10		9E-09
Chromium III	Cascade Creek	3E-08	3E-10	1E-12		3E-08
Chromium III	Dan River	3E-08	3E-12	1E-12		3E-08
Chromium III	Smith River	3E-08	3E-11	1E-12		3E-08
Cobalt	Cascade Creek	8E-09	0E+00	4E-10		8E-09
Cobalt	Dan River	8E-09	0E+00	4E-10		8E-09
Cobalt	Smith River	8E-09	0E+00	4E-10		8E-09
Hydrogen Chloride	Cascade Creek				1E-02	
Hydrogen Chloride	Dan River				1E-02	
Hydrogen Chloride	Smith River				1E-02	
Selenium	Cascade Creek	2E-09	4E-05	6E-10		4E-05
Selenium	Dan River	2E-09	4E-08	6E-10		4E-08
Selenium	Smith River	2E-09	9E-07	6E-10		9E-07
Chlorine	Cascade Creek				2E-03	
Chlorine	Dan River				2E-03	
Chlorine	Smith River				2E-03	
Methylmercury - Developmental Effects	Cascade Creek	8E-07	5E-02	8E-10		5E-02
Methylmercury - Developmental Effects	Dan River	8E-07	2E-04	8E-10		2E-04
Methylmercury - Developmental Effects	Smith River	8E-07	5E-03	8E-10		5E-03
Methylmercury - Neurological Effects	Cascade Creek	3E-07	2E-02	3E-10		2E-02
Methylmercury - Neurological Effects	Dan River	3E-07	7E-05	3E-10		7E-05
Methylmercury - Neurological Effects	Smith River	3E-07	2E-03	3E-10		2E-03

Table IX-C7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	2E-09	1E-09	5E-09	1E-06	1E-05	1E-07	7E-07	4E-07	6E-07	3E-11	7E-09	1E-05
Nickel												2E-08	
Arsenic	4E-10	2E-10	7E-11	4E-10	1E-09	2E-09	8E-11			3E-09	3E-11	7E-09	8E-09
Beryllium												1E-10	
Cadmium												5E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	9E-08	3E-07	6E-08	3E-06	5E-09			0E+00	5E-09	6E-04	4E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	7E-04	3E-04	1E-03	2E-03	2E-02	7E-06				8E-06		3E-02
Nickel	7E-06	3E-06	1E-06	8E-06	8E-05	8E-04	5E-06			1E-05	7E-07		9E-04
Silver	2E-09	3E-08	7E-09	7E-08	4E-07	2E-04	2E-08			0E+00	8E-09		2E-04
Thallium	1E-05	1E-06	6E-08	3E-06	3E-04	9E-04	3E-05			6E-04	4E-07		2E-03
Antimony	2E-06	1E-05	2E-06	2E-05	4E-05	2E-04	2E-06			0E+00	2E-06		3E-04
Arsenic	1E-05	5E-06	2E-06	1E-05	3E-05	6E-05	2E-06			7E-05	7E-07		2E-04
Barium	6E-07	6E-08	2E-08	1E-07	3E-08	4E-06	5E-09			0E+00	1E-09	1E-05	5E-06
Beryllium	1E-06	2E-08	3E-09	4E-08	2E-07	7E-09	5E-08			2E-07	2E-09		2E-06
Cadmium	2E-05	2E-05	1E-05	5E-05	2E-06	8E-06	4E-07			2E-03	9E-07		2E-03
Chromium VI	5E-09	2E-09	6E-10	5E-09	6E-08	1E-06	3E-09			9E-09	7E-10		1E-06
Chromium III	1E-06	1E-08	8E-09	3E-08	8E-07	1E-05	3E-07			2E-10	3E-11		1E-05
Cobalt	2E-07	4E-08	2E-10	9E-08	3E-06	2E-05	3E-07			0E+00	8E-09		2E-05
Hydrogen Chloride												6E-03	
Selenium	2E-07	2E-07	1E-07	6E-07	4E-06	4E-04	1E-05			3E-03	8E-08		3E-03
Chlorine												7E-03	
Methylmercury - Developmental Effects	2E-04	2E-04	5E-05	2E-04	6E-04	8E-03	5E-07			1E-01	5E-08		1E-01
Methylmercury - Neurological Effects	6E-05	8E-05	2E-05	7E-05	2E-04	3E-03	2E-07			3E-02	2E-08		4E-02

Table IX-C7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	2E-09	1E-09	6E-09	2E-06	7E-06	8E-08	7E-07	4E-07	6E-07	2E-11	8E-09	1E-05
Nickel												2E-08	
Arsenic	2E-10	1E-10	7E-11	6E-10	2E-09	2E-09	7E-11			3E-09	2E-11	8E-09	8E-09
Beryllium												1E-10	
Cadmium												6E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	6E-08	3E-07	7E-08	1E-06	3E-09			0E+00	3E-09	6E-04	2E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	4E-04	2E-04	1E-03	3E-03	1E-02	4E-06				5E-06		2E-02
Nickel	2E-06	2E-06	1E-06	8E-06	1E-04	4E-04	3E-06			1E-05	4E-07		5E-04
Silver	5E-10	1E-08	5E-09	7E-08	5E-07	9E-05	1E-08			0E+00	4E-09		9E-05
Thallium	3E-06	6E-07	4E-08	3E-06	4E-04	5E-04	2E-05			4E-04	2E-07		1E-03
Antimony	6E-07	5E-06	1E-06	2E-05	5E-05	1E-04	9E-07			0E+00	1E-06		2E-04
Arsenic	3E-06	3E-06	1E-06	1E-05	4E-05	3E-05	1E-06			5E-05	4E-07		1E-04
Barium	2E-07	4E-08	1E-08	1E-07	4E-08	2E-06	3E-09			0E+00	7E-10	1E-05	2E-06
Beryllium	3E-07	9E-09	2E-09	4E-08	2E-07	4E-09	3E-08			1E-07	1E-09		7E-07
Cadmium	6E-06	1E-05	8E-06	5E-05	3E-06	4E-06	2E-07			1E-03	5E-07		1E-03
Chromium VI	1E-09	9E-10	4E-10	4E-09	7E-08	5E-07	2E-09			7E-09	4E-10		6E-07
Chromium III	3E-07	7E-09	6E-09	3E-08	1E-06	5E-06	2E-07			2E-10	2E-11		7E-06
Cobalt	4E-08	2E-08	1E-10	9E-08	4E-06	1E-05	2E-07			0E+00	4E-09		1E-05
Hydrogen Chloride												6E-03	
Selenium	5E-08	1E-07	9E-08	5E-07	5E-06	2E-04	9E-06			2E-03	4E-08		2E-03
Chlorine												7E-03	
Methylmercury - Developmental Effects	5E-05	1E-04	3E-05	2E-04	7E-04	4E-03	3E-07			7E-02	3E-08		8E-02
Methylmercury - Neurological Effects	2E-05	4E-05	1E-05	7E-05	2E-04	1E-03	1E-07			2E-02	1E-08		3E-02

Table IX-C7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	1E-09	8E-10	3E-09	8E-07	3E-06	5E-08	4E-07	2E-07	3E-07	1E-11	5E-09	5E-06
Nickel												2E-08	
Arsenic	9E-11	1E-10	5E-11	3E-10	1E-09	7E-10	5E-11			2E-09	1E-11	5E-09	4E-09
Beryllium												1E-10	
Cadmium												4E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-08	7E-08	5E-08	2E-07	3E-08	7E-07	2E-09			0E+00	2E-09	6E-04	1E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	4E-04	3E-04	2E-04	7E-04	1E-03	5E-03	3E-06			0E+00	3E-06		8E-03
Nickel	9E-07	1E-06	7E-07	4E-06	4E-05	2E-04	2E-06			6E-06	2E-07		2E-04
Silver	3E-10	1E-08	3E-09	4E-08	2E-07	4E-05	6E-09			0E+00	3E-09		4E-05
Thallium	2E-06	5E-07	3E-08	2E-06	2E-04	2E-04	1E-05			2E-04	1E-07		6E-04
Antimony	3E-07	4E-06	1E-06	1E-05	2E-05	5E-05	6E-07			0E+00	8E-07		9E-05
Arsenic	2E-06	2E-06	1E-06	6E-06	2E-05	1E-05	8E-07			3E-05	3E-07		7E-05
Barium	9E-08	3E-08	8E-09	6E-08	2E-08	9E-07	2E-09			0E+00	4E-10	1E-05	1E-06
Beryllium	2E-07	7E-09	1E-09	2E-08	9E-08	2E-09	2E-08			6E-08	8E-10		4E-07
Cadmium	3E-06	1E-05	6E-06	2E-05	1E-06	2E-06	2E-07			7E-04	3E-07		7E-04
Chromium VI	7E-10	7E-10	3E-10	2E-09	3E-08	2E-07	1E-09			4E-09	2E-10		3E-07
Chromium III	1E-07	5E-09	4E-09	2E-08	5E-07	2E-06	1E-07			8E-11	1E-11		3E-06
Cobalt	2E-08	2E-08	1E-10	5E-08	2E-06	4E-06	1E-07			0E+00	3E-09		6E-06
Hydrogen Chloride												6E-03	
Selenium	3E-08	8E-08	7E-08	3E-07	2E-06	9E-05	6E-06			1E-03	3E-08		1E-03
Chlorine												7E-03	
Methylmercury - Developmental Effects	3E-05	1E-04	2E-05	1E-04	3E-04	2E-03	2E-07			4E-02	2E-08		4E-02
Methylmercury - Neurological Effects	8E-06	3E-05	8E-06	4E-05	1E-04	6E-04	7E-08			1E-02	6E-09		1E-02

Table IX-C7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	3E-09	2E-09	6E-09	2E-06	3E-06	9E-08	6E-07	4E-07	7E-07	3E-11	8E-09	6E-06
Nickel												2E-08	
Arsenic	7E-11	3E-10	9E-11	5E-10	2E-09	6E-10	8E-11			3E-09	3E-11	8E-09	7E-09
Beryllium												1E-10	
Cadmium												5E-09	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	8E-09	1E-07	5E-08	2E-07	4E-08	3E-07	2E-09			0E+00	2E-09	6E-04	7E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	2E-04	4E-04	2E-04	7E-04	1E-03	2E-03	2E-06			0E+00	3E-06		5E-03
Nickel	4E-07	2E-06	8E-07	4E-06	5E-05	8E-05	2E-06			6E-06	3E-07		1E-04
Silver	1E-10	2E-08	4E-09	3E-08	3E-07	2E-05	6E-09			0E+00	3E-09		2E-05
Thallium	7E-07	6E-07	3E-08	1E-06	2E-04	9E-05	1E-05			3E-04	2E-07		6E-04
Antimony	1E-07	6E-06	1E-06	1E-05	2E-05	2E-05	5E-07			0E+00	9E-07		7E-05
Arsenic	6E-07	3E-06	1E-06	5E-06	2E-05	6E-06	7E-07			3E-05	3E-07		7E-05
Barium	4E-08	4E-08	9E-09	6E-08	2E-08	4E-07	2E-09			0E+00	5E-10	1E-05	6E-07
Beryllium	6E-08	9E-09	2E-09	2E-08	1E-07	7E-10	2E-08			7E-08	1E-09		3E-07
Cadmium	1E-06	1E-05	7E-06	2E-05	1E-06	8E-07	1E-07			7E-04	4E-07		8E-04
Chromium VI	3E-10	9E-10	4E-10	2E-09	4E-08	1E-07	1E-09			4E-09	3E-10		1E-07
Chromium III	6E-08	7E-09	5E-09	2E-08	5E-07	1E-06	9E-08			9E-11	1E-11		2E-06
Cobalt	9E-09	2E-08	1E-10	4E-08	2E-06	2E-06	9E-08			0E+00	3E-09		4E-06
Hydrogen Chloride												6E-03	
Selenium	1E-08	1E-07	8E-08	3E-07	3E-06	4E-05	5E-06			1E-03	3E-08		1E-03
Chlorine												7E-03	
Methylmercury - Developmental Effects	1E-05	1E-04	3E-05	1E-04	3E-04	8E-04	2E-07			4E-02	2E-08		4E-02
Methylmercury - Neurological Effects	3E-06	4E-05	9E-06	4E-05	1E-04	3E-04	6E-08			1E-02	7E-09		1E-02

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Hudson River	3E-08	5E-08	4E-11	7E-09	8E-08
2,3,7,8-TCDD-TEQ	Mohawk River	3E-08	7E-08	4E-11	7E-09	1E-07
2,3,7,8-TCDD-TEQ	Tomahannock Reservoir	3E-08	5E-08	4E-11	7E-09	8E-08
2,3,7,8-TCDD-TEQ	Troy Reservoir	3E-08	2E-07	4E-11	7E-09	2E-07
Nickel	Hudson River				2E-08	
Nickel	Mohawk River				2E-08	
Nickel	Tomahannock Reservoir				2E-08	
Nickel	Troy Reservoir				2E-08	
Arsenic	Hudson River	4E-10	3E-12	2E-10	7E-09	6E-10
Arsenic	Mohawk River	4E-10	4E-12	2E-10	7E-09	6E-10
Arsenic	Tomahannock Reservoir	4E-10	2E-11	2E-10	7E-09	6E-10
Arsenic	Troy Reservoir	4E-10	2E-10	2E-10	7E-09	8E-10
Beryllium	Hudson River				1E-10	
Beryllium	Mohawk River				1E-10	
Beryllium	Tomahannock Reservoir				1E-10	
Beryllium	Troy Reservoir				1E-10	
Cadmium	Hudson River				5E-09	
Cadmium	Mohawk River				5E-09	
Cadmium	Tomahannock Reservoir				5E-09	
Cadmium	Troy Reservoir				5E-09	
Chromium VI	Hudson River				2E-10	
Chromium VI	Mohawk River				2E-10	
Chromium VI	Tomahannock Reservoir				2E-10	
Chromium VI	Troy Reservoir				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Hudson River	1E-07	0E+00	3E-08	6E-04	2E-07
Manganese	Mohawk River	1E-07	0E+00	3E-08	6E-04	2E-07
Manganese	Tomahannock Reservoir	1E-07	0E+00	3E-08	6E-04	2E-07
Manganese	Troy Reservoir	1E-07	0E+00	3E-08	6E-04	2E-07
Mercury (elemental)	Hudson River				3E-04	
Mercury (elemental)	Mohawk River				3E-04	
Mercury (elemental)	Tomahannock Reservoir				3E-04	
Mercury (elemental)	Troy Reservoir				3E-04	
Mercury (divalent)	Hudson River	3E-03		8E-06		3E-03
Mercury (divalent)	Mohawk River	3E-03		8E-06		3E-03
Mercury (divalent)	Tomahannock Reservoir	3E-03		8E-06		3E-03
Mercury (divalent)	Troy Reservoir	3E-03		8E-06		3E-03
Nickel	Hudson River	7E-06	2E-08	4E-06		1E-05
Nickel	Mohawk River	7E-06	2E-08	4E-06		1E-05
Nickel	Tomahannock Reservoir	7E-06	1E-07	4E-06		1E-05
Nickel	Troy Reservoir	7E-06	8E-07	4E-06		1E-05
Silver	Hudson River	2E-09	0E+00	5E-08		5E-08
Silver	Mohawk River	2E-09	0E+00	5E-08		5E-08
Silver	Tomahannock Reservoir	2E-09	0E+00	5E-08		5E-08
Silver	Troy Reservoir	2E-09	0E+00	5E-08		5E-08
Thallium	Hudson River	1E-05	8E-07	2E-06		2E-05
Thallium	Mohawk River	1E-05	1E-06	2E-06		2E-05
Thallium	Tomahannock Reservoir	1E-05	5E-06	2E-06		2E-05
Thallium	Troy Reservoir	1E-05	4E-05	2E-06		5E-05

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Hudson River	2E-06	0E+00	1E-05		2E-05
Antimony	Mohawk River	2E-06	0E+00	1E-05		2E-05
Antimony	Tomahannock Reservoir	2E-06	0E+00	1E-05		2E-05
Antimony	Troy Reservoir	2E-06	0E+00	1E-05		2E-05
Arsenic	Hudson River	1E-05	8E-08	4E-06		2E-05
Arsenic	Mohawk River	1E-05	1E-07	4E-06		2E-05
Arsenic	Tomahannock Reservoir	1E-05	5E-07	4E-06		2E-05
Arsenic	Troy Reservoir	1E-05	4E-06	4E-06		2E-05
Barium	Hudson River	6E-07	0E+00	3E-09	1E-05	6E-07
Barium	Mohawk River	6E-07	0E+00	3E-09	1E-05	6E-07
Barium	Tomahannock Reservoir	6E-07	0E+00	3E-09	1E-05	6E-07
Barium	Troy Reservoir	6E-07	0E+00	3E-09	1E-05	6E-07
Beryllium	Hudson River	1E-06	1E-09	7E-09		1E-06
Beryllium	Mohawk River	1E-06	2E-09	7E-09		1E-06
Beryllium	Tomahannock Reservoir	1E-06	4E-09	7E-09		1E-06
Beryllium	Troy Reservoir	1E-06	2E-08	7E-09		1E-06
Cadmium	Hudson River	2E-05	3E-06	6E-06		3E-05
Cadmium	Mohawk River	2E-05	4E-06	6E-06		3E-05
Cadmium	Tomahannock Reservoir	2E-05	2E-05	6E-06		5E-05
Cadmium	Troy Reservoir	2E-05	1E-04	6E-06		2E-04
Chromium VI	Hudson River	5E-09	1E-11	4E-09		9E-09
Chromium VI	Mohawk River	5E-09	2E-11	4E-09		9E-09
Chromium VI	Tomahannock Reservoir	5E-09	8E-11	4E-09		9E-09
Chromium VI	Troy Reservoir	5E-09	6E-10	4E-09		1E-08
Chromium III	Hudson River	1E-06	5E-11	4E-11		1E-06
Chromium III	Mohawk River	1E-06	7E-11	4E-11		1E-06
Chromium III	Tomahannock Reservoir	1E-06	7E-12	4E-11		1E-06
Chromium III	Troy Reservoir	1E-06	2E-11	4E-11		1E-06
Cobalt	Hudson River	2E-07	0E+00	4E-11		2E-07
Cobalt	Mohawk River	2E-07	0E+00	4E-11		2E-07
Cobalt	Tomahannock Reservoir	2E-07	0E+00	4E-11		2E-07
Cobalt	Troy Reservoir	2E-07	0E+00	4E-11		2E-07
Hydrogen Chloride	Hudson River				6E-03	
Hydrogen Chloride	Mohawk River				6E-03	
Hydrogen Chloride	Tomahannock Reservoir				6E-03	
Hydrogen Chloride	Troy Reservoir				6E-03	
Selenium	Hudson River	2E-07	3E-06	5E-07		4E-06
Selenium	Mohawk River	2E-07	4E-06	5E-07		5E-06
Selenium	Tomahannock Reservoir	2E-07	2E-05	5E-07		2E-05
Selenium	Troy Reservoir	2E-07	2E-04	5E-07		2E-04
Chlorine	Hudson River				7E-03	
Chlorine	Mohawk River				7E-03	
Chlorine	Tomahannock Reservoir				7E-03	
Chlorine	Troy Reservoir				7E-03	
Methylmercury - Developmental Effects	Hudson River	2E-04	8E-03	4E-07		8E-03
Methylmercury - Developmental Effects	Mohawk River	2E-04	5E-03	4E-07		5E-03
Methylmercury - Developmental Effects	Tomahannock Reservoir	2E-04	6E-02	4E-07		6E-02
Methylmercury - Developmental Effects	Troy Reservoir	2E-04	2E-01	4E-07		2E-01

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Hudson River	6E-05	3E-03	1E-07		3E-03
Methylmercury - Neurological Effects	Mohawk River	6E-05	2E-03	1E-07		2E-03
Methylmercury - Neurological Effects	Tomahannock Reservoir	6E-05	2E-02	1E-07		2E-02
Methylmercury - Neurological Effects	Troy Reservoir	6E-05	6E-02	1E-07		6E-02

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Hudson River	1E-08	7E-08	3E-11	8E-09	8E-08
2,3,7,8-TCDD-TEQ	Mohawk River	1E-08	1E-07	3E-11	8E-09	1E-07
2,3,7,8-TCDD-TEQ	Tomahannock Reservoir	1E-08	7E-08	3E-11	8E-09	8E-08
2,3,7,8-TCDD-TEQ	Troy Reservoir	1E-08	3E-07	3E-11	8E-09	3E-07
Nickel	Hudson River				2E-08	
Nickel	Mohawk River				2E-08	
Nickel	Tomahannock Reservoir				2E-08	
Nickel	Troy Reservoir				2E-08	
Arsenic	Hudson River	2E-10	4E-12	1E-10	8E-09	3E-10
Arsenic	Mohawk River	2E-10	6E-12	1E-10	8E-09	3E-10
Arsenic	Tomahannock Reservoir	2E-10	3E-11	1E-10	8E-09	3E-10
Arsenic	Troy Reservoir	2E-10	2E-10	1E-10	8E-09	5E-10
Beryllium	Hudson River				1E-10	
Beryllium	Mohawk River				1E-10	
Beryllium	Tomahannock Reservoir				1E-10	
Beryllium	Troy Reservoir				1E-10	
Cadmium	Hudson River				6E-09	
Cadmium	Mohawk River				6E-09	
Cadmium	Tomahannock Reservoir				6E-09	
Cadmium	Troy Reservoir				6E-09	
Chromium VI	Hudson River				2E-10	
Chromium VI	Mohawk River				2E-10	
Chromium VI	Tomahannock Reservoir				2E-10	
Chromium VI	Troy Reservoir				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Hudson River	4E-08	0E+00	2E-08	6E-04	5E-08
Manganese	Mohawk River	4E-08	0E+00	2E-08	6E-04	5E-08
Manganese	Tomahannock Reservoir	4E-08	0E+00	2E-08	6E-04	5E-08
Manganese	Troy Reservoir	4E-08	0E+00	2E-08	6E-04	5E-08
Mercury (elemental)	Hudson River				3E-04	
Mercury (elemental)	Mohawk River				3E-04	
Mercury (elemental)	Tomahannock Reservoir				3E-04	
Mercury (elemental)	Troy Reservoir				3E-04	
Mercury (divalent)	Hudson River	8E-04		5E-06		8E-04
Mercury (divalent)	Mohawk River	8E-04		5E-06		8E-04
Mercury (divalent)	Tomahannock Reservoir	8E-04		5E-06		8E-04
Mercury (divalent)	Troy Reservoir	8E-04		5E-06		8E-04
Nickel	Hudson River	2E-06	2E-08	2E-06		4E-06
Nickel	Mohawk River	2E-06	2E-08	2E-06		4E-06
Nickel	Tomahannock Reservoir	2E-06	1E-07	2E-06		4E-06
Nickel	Troy Reservoir	2E-06	8E-07	2E-06		5E-06
Silver	Hudson River	5E-10	0E+00	3E-08		3E-08
Silver	Mohawk River	5E-10	0E+00	3E-08		3E-08
Silver	Tomahannock Reservoir	5E-10	0E+00	3E-08		3E-08
Silver	Troy Reservoir	5E-10	0E+00	3E-08		3E-08
Thallium	Hudson River	3E-06	8E-07	1E-06		5E-06
Thallium	Mohawk River	3E-06	1E-06	1E-06		6E-06
Thallium	Tomahannock Reservoir	3E-06	5E-06	1E-06		9E-06
Thallium	Troy Reservoir	3E-06	4E-05	1E-06		4E-05

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Hudson River	6E-07	0E+00	7E-06		8E-06
Antimony	Mohawk River	6E-07	0E+00	7E-06		8E-06
Antimony	Tomahannock Reservoir	6E-07	0E+00	7E-06		8E-06
Antimony	Troy Reservoir	6E-07	0E+00	7E-06		8E-06
Arsenic	Hudson River	3E-06	8E-08	2E-06		5E-06
Arsenic	Mohawk River	3E-06	1E-07	2E-06		5E-06
Arsenic	Tomahannock Reservoir	3E-06	5E-07	2E-06		6E-06
Arsenic	Troy Reservoir	3E-06	4E-06	2E-06		9E-06
Barium	Hudson River	2E-07	0E+00	2E-09	1E-05	2E-07
Barium	Mohawk River	2E-07	0E+00	2E-09	1E-05	2E-07
Barium	Tomahannock Reservoir	2E-07	0E+00	2E-09	1E-05	2E-07
Barium	Troy Reservoir	2E-07	0E+00	2E-09	1E-05	2E-07
Beryllium	Hudson River	3E-07	1E-09	4E-09		3E-07
Beryllium	Mohawk River	3E-07	2E-09	4E-09		3E-07
Beryllium	Tomahannock Reservoir	3E-07	4E-09	4E-09		3E-07
Beryllium	Troy Reservoir	3E-07	2E-08	4E-09		3E-07
Cadmium	Hudson River	6E-06	3E-06	3E-06		1E-05
Cadmium	Mohawk River	6E-06	4E-06	3E-06		1E-05
Cadmium	Tomahannock Reservoir	6E-06	2E-05	3E-06		3E-05
Cadmium	Troy Reservoir	6E-06	1E-04	3E-06		1E-04
Chromium VI	Hudson River	1E-09	1E-11	2E-09		4E-09
Chromium VI	Mohawk River	1E-09	2E-11	2E-09		4E-09
Chromium VI	Tomahannock Reservoir	1E-09	8E-11	2E-09		4E-09
Chromium VI	Troy Reservoir	1E-09	6E-10	2E-09		4E-09
Chromium III	Hudson River	3E-07	5E-11	2E-11		3E-07
Chromium III	Mohawk River	3E-07	7E-11	2E-11		3E-07
Chromium III	Tomahannock Reservoir	3E-07	7E-12	2E-11		3E-07
Chromium III	Troy Reservoir	3E-07	2E-11	2E-11		3E-07
Cobalt	Hudson River	4E-08	0E+00	2E-11		4E-08
Cobalt	Mohawk River	4E-08	0E+00	2E-11		4E-08
Cobalt	Tomahannock Reservoir	4E-08	0E+00	2E-11		4E-08
Cobalt	Troy Reservoir	4E-08	0E+00	2E-11		4E-08
Hydrogen Chloride	Hudson River				6E-03	
Hydrogen Chloride	Mohawk River				6E-03	
Hydrogen Chloride	Tomahannock Reservoir				6E-03	
Hydrogen Chloride	Troy Reservoir				6E-03	
Selenium	Hudson River	5E-08	3E-06	3E-07		3E-06
Selenium	Mohawk River	5E-08	4E-06	3E-07		5E-06
Selenium	Tomahannock Reservoir	5E-08	2E-05	3E-07		2E-05
Selenium	Troy Reservoir	5E-08	2E-04	3E-07		2E-04
Chlorine	Hudson River				7E-03	
Chlorine	Mohawk River				7E-03	
Chlorine	Tomahannock Reservoir				7E-03	
Chlorine	Troy Reservoir				7E-03	
Methylmercury - Developmental Effects	Hudson River	5E-05	8E-03	2E-07		8E-03
Methylmercury - Developmental Effects	Mohawk River	5E-05	5E-03	2E-07		5E-03
Methylmercury - Developmental Effects	Tomahannock Reservoir	5E-05	6E-02	2E-07		6E-02
Methylmercury - Developmental Effects	Troy Reservoir	5E-05	2E-01	2E-07		2E-01

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Hudson River	2E-05	3E-03	7E-08		3E-03
Methylmercury - Neurological Effects	Mohawk River	2E-05	2E-03	7E-08		2E-03
Methylmercury - Neurological Effects	Tomahannock Reservoir	2E-05	2E-02	7E-08		2E-02
Methylmercury - Neurological Effects	Troy Reservoir	2E-05	6E-02	7E-08		6E-02

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Hudson River	6E-09	5E-08	2E-11	5E-09	5E-08
2,3,7,8-TCDD-TEQ	Mohawk River	6E-09	7E-08	2E-11	5E-09	8E-08
2,3,7,8-TCDD-TEQ	Tomahannock Reservoir	6E-09	5E-08	2E-11	5E-09	5E-08
2,3,7,8-TCDD-TEQ	Troy Reservoir	6E-09	2E-07	2E-11	5E-09	2E-07
Nickel	Hudson River				2E-08	
Nickel	Mohawk River				2E-08	
Nickel	Tomahannock Reservoir				2E-08	
Nickel	Troy Reservoir				2E-08	
Arsenic	Hudson River	9E-11	3E-12	9E-11	5E-09	2E-10
Arsenic	Mohawk River	9E-11	4E-12	9E-11	5E-09	2E-10
Arsenic	Tomahannock Reservoir	9E-11	2E-11	9E-11	5E-09	2E-10
Arsenic	Troy Reservoir	9E-11	2E-10	9E-11	5E-09	3E-10
Beryllium	Hudson River				1E-10	
Beryllium	Mohawk River				1E-10	
Beryllium	Tomahannock Reservoir				1E-10	
Beryllium	Troy Reservoir				1E-10	
Cadmium	Hudson River				4E-09	
Cadmium	Mohawk River				4E-09	
Cadmium	Tomahannock Reservoir				4E-09	
Cadmium	Troy Reservoir				4E-09	
Chromium VI	Hudson River				2E-10	
Chromium VI	Mohawk River				2E-10	
Chromium VI	Tomahannock Reservoir				2E-10	
Chromium VI	Troy Reservoir				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Hudson River	2E-08	0E+00	1E-08	6E-04	3E-08
Manganese	Mohawk River	2E-08	0E+00	1E-08	6E-04	3E-08
Manganese	Tomahannock Reservoir	2E-08	0E+00	1E-08	6E-04	3E-08
Manganese	Troy Reservoir	2E-08	0E+00	1E-08	6E-04	3E-08
Mercury (elemental)	Hudson River				3E-04	
Mercury (elemental)	Mohawk River				3E-04	
Mercury (elemental)	Tomahannock Reservoir				3E-04	
Mercury (elemental)	Troy Reservoir				3E-04	
Mercury (divalent)	Hudson River	4E-04		3E-06		4E-04
Mercury (divalent)	Mohawk River	4E-04		3E-06		4E-04
Mercury (divalent)	Tomahannock Reservoir	4E-04		3E-06		4E-04
Mercury (divalent)	Troy Reservoir	4E-04		3E-06		4E-04
Nickel	Hudson River	9E-07	1E-08	1E-06		2E-06
Nickel	Mohawk River	9E-07	2E-08	1E-06		2E-06
Nickel	Tomahannock Reservoir	9E-07	7E-08	1E-06		2E-06
Nickel	Troy Reservoir	9E-07	6E-07	1E-06		3E-06
Silver	Hudson River	3E-10	0E+00	2E-08		2E-08
Silver	Mohawk River	3E-10	0E+00	2E-08		2E-08
Silver	Tomahannock Reservoir	3E-10	0E+00	2E-08		2E-08
Silver	Troy Reservoir	3E-10	0E+00	2E-08		2E-08
Thallium	Hudson River	2E-06	5E-07	8E-07		3E-06
Thallium	Mohawk River	2E-06	8E-07	8E-07		3E-06
Thallium	Tomahannock Reservoir	2E-06	3E-06	8E-07		6E-06
Thallium	Troy Reservoir	2E-06	3E-05	8E-07		3E-05

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Hudson River	3E-07	0E+00	5E-06		5E-06
Antimony	Mohawk River	3E-07	0E+00	5E-06		5E-06
Antimony	Tomahannock Reservoir	3E-07	0E+00	5E-06		5E-06
Antimony	Troy Reservoir	3E-07	0E+00	5E-06		5E-06
Arsenic	Hudson River	2E-06	5E-08	2E-06		3E-06
Arsenic	Mohawk River	2E-06	8E-08	2E-06		3E-06
Arsenic	Tomahannock Reservoir	2E-06	3E-07	2E-06		3E-06
Arsenic	Troy Reservoir	2E-06	3E-06	2E-06		6E-06
Barium	Hudson River	9E-08	0E+00	1E-09	1E-05	9E-08
Barium	Mohawk River	9E-08	0E+00	1E-09	1E-05	9E-08
Barium	Tomahannock Reservoir	9E-08	0E+00	1E-09	1E-05	9E-08
Barium	Troy Reservoir	9E-08	0E+00	1E-09	1E-05	9E-08
Beryllium	Hudson River	2E-07	1E-09	3E-09		2E-07
Beryllium	Mohawk River	2E-07	2E-09	3E-09		2E-07
Beryllium	Tomahannock Reservoir	2E-07	3E-09	3E-09		2E-07
Beryllium	Troy Reservoir	2E-07	1E-08	3E-09		2E-07
Cadmium	Hudson River	3E-06	2E-06	2E-06		7E-06
Cadmium	Mohawk River	3E-06	3E-06	2E-06		8E-06
Cadmium	Tomahannock Reservoir	3E-06	1E-05	2E-06		2E-05
Cadmium	Troy Reservoir	3E-06	9E-05	2E-06		9E-05
Chromium VI	Hudson River	7E-10	9E-12	2E-09		2E-09
Chromium VI	Mohawk River	7E-10	1E-11	2E-09		2E-09
Chromium VI	Tomahannock Reservoir	7E-10	5E-11	2E-09		2E-09
Chromium VI	Troy Reservoir	7E-10	4E-10	2E-09		3E-09
Chromium III	Hudson River	1E-07	3E-11	1E-11		1E-07
Chromium III	Mohawk River	1E-07	5E-11	1E-11		1E-07
Chromium III	Tomahannock Reservoir	1E-07	5E-12	1E-11		1E-07
Chromium III	Troy Reservoir	1E-07	2E-11	1E-11		1E-07
Cobalt	Hudson River	2E-08	0E+00	2E-08		4E-08
Cobalt	Mohawk River	2E-08	0E+00	2E-08		4E-08
Cobalt	Tomahannock Reservoir	2E-08	0E+00	2E-08		4E-08
Cobalt	Troy Reservoir	2E-08	0E+00	2E-08		4E-08
Hydrogen Chloride	Hudson River				6E-03	
Hydrogen Chloride	Mohawk River				6E-03	
Hydrogen Chloride	Tomahannock Reservoir				6E-03	
Hydrogen Chloride	Troy Reservoir				6E-03	
Selenium	Hudson River	3E-08	2E-06	2E-07		2E-06
Selenium	Mohawk River	3E-08	3E-06	2E-07		3E-06
Selenium	Tomahannock Reservoir	3E-08	1E-05	2E-07		1E-05
Selenium	Troy Reservoir	3E-08	1E-04	2E-07		1E-04
Chlorine	Hudson River				7E-03	
Chlorine	Mohawk River				7E-03	
Chlorine	Tomahannock Reservoir				7E-03	
Chlorine	Troy Reservoir				7E-03	
Methylmercury - Developmental Effects	Hudson River	3E-05	6E-03	1E-07		6E-03
Methylmercury - Developmental Effects	Mohawk River	3E-05	3E-03	1E-07		3E-03
Methylmercury - Developmental Effects	Tomahannock Reservoir	3E-05	4E-02	1E-07		4E-02
Methylmercury - Developmental Effects	Troy Reservoir	3E-05	1E-01	1E-07		1E-01

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Hudson River	8E-06	2E-03	5E-08		2E-03
Methylmercury - Neurological Effects	Mohawk River	8E-06	1E-03	5E-08		1E-03
Methylmercury - Neurological Effects	Tomahannock Reservoir	8E-06	1E-02	5E-08		1E-02
Methylmercury - Neurological Effects	Troy Reservoir	8E-06	5E-02	5E-08		5E-02

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Hudson River	4E-09	9E-08	4E-11	8E-09	9E-08
2,3,7,8-TCDD-TEQ	Mohawk River	4E-09	1E-07	4E-11	8E-09	1E-07
2,3,7,8-TCDD-TEQ	Tomahannock Reservoir	4E-09	9E-08	4E-11	8E-09	9E-08
2,3,7,8-TCDD-TEQ	Troy Reservoir	4E-09	4E-07	4E-11	8E-09	4E-07
Nickel	Hudson River				2E-08	
Nickel	Mohawk River				2E-08	
Nickel	Tomahannock Reservoir				2E-08	
Nickel	Troy Reservoir				2E-08	
Arsenic	Hudson River	7E-11	6E-12	2E-10	8E-09	3E-10
Arsenic	Mohawk River	7E-11	9E-12	2E-10	8E-09	3E-10
Arsenic	Tomahannock Reservoir	7E-11	3E-11	2E-10	8E-09	3E-10
Arsenic	Troy Reservoir	7E-11	3E-10	2E-10	8E-09	6E-10
Beryllium	Hudson River				1E-10	
Beryllium	Mohawk River				1E-10	
Beryllium	Tomahannock Reservoir				1E-10	
Beryllium	Troy Reservoir				1E-10	
Cadmium	Hudson River				5E-09	
Cadmium	Mohawk River				5E-09	
Cadmium	Tomahannock Reservoir				5E-09	
Cadmium	Troy Reservoir				5E-09	
Chromium VI	Hudson River				2E-10	
Chromium VI	Mohawk River				2E-10	
Chromium VI	Tomahannock Reservoir				2E-10	
Chromium VI	Troy Reservoir				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Hudson River	8E-09	0E+00	1E-08	6E-04	2E-08
Manganese	Mohawk River	8E-09	0E+00	1E-08	6E-04	2E-08
Manganese	Tomahannock Reservoir	8E-09	0E+00	1E-08	6E-04	2E-08
Manganese	Troy Reservoir	8E-09	0E+00	1E-08	6E-04	2E-08
Mercury (elemental)	Hudson River				3E-04	
Mercury (elemental)	Mohawk River				3E-04	
Mercury (elemental)	Tomahannock Reservoir				3E-04	
Mercury (elemental)	Troy Reservoir				3E-04	
Mercury (divalent)	Hudson River	2E-04		3E-06		2E-04
Mercury (divalent)	Mohawk River	2E-04		3E-06		2E-04
Mercury (divalent)	Tomahannock Reservoir	2E-04		3E-06		2E-04
Mercury (divalent)	Troy Reservoir	2E-04		3E-06		2E-04
Nickel	Hudson River	4E-07	1E-08	2E-06		2E-06
Nickel	Mohawk River	4E-07	2E-08	2E-06		2E-06
Nickel	Tomahannock Reservoir	4E-07	7E-08	2E-06		2E-06
Nickel	Troy Reservoir	4E-07	6E-07	2E-06		3E-06
Silver	Hudson River	1E-10	0E+00	2E-08		2E-08
Silver	Mohawk River	1E-10	0E+00	2E-08		2E-08
Silver	Tomahannock Reservoir	1E-10	0E+00	2E-08		2E-08
Silver	Troy Reservoir	1E-10	0E+00	2E-08		2E-08
Thallium	Hudson River	7E-07	5E-07	1E-06		2E-06
Thallium	Mohawk River	7E-07	8E-07	1E-06		2E-06
Thallium	Tomahannock Reservoir	7E-07	3E-06	1E-06		5E-06
Thallium	Troy Reservoir	7E-07	3E-05	1E-06		3E-05

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Hudson River	1E-07	0E+00	6E-06		6E-06
Antimony	Mohawk River	1E-07	0E+00	6E-06		6E-06
Antimony	Tomahannock Reservoir	1E-07	0E+00	6E-06		6E-06
Antimony	Troy Reservoir	1E-07	0E+00	6E-06		6E-06
Arsenic	Hudson River	6E-07	5E-08	2E-06		3E-06
Arsenic	Mohawk River	6E-07	8E-08	2E-06		3E-06
Arsenic	Tomahannock Reservoir	6E-07	3E-07	2E-06		3E-06
Arsenic	Troy Reservoir	6E-07	3E-06	2E-06		5E-06
Barium	Hudson River	4E-08	0E+00	1E-09	1E-05	4E-08
Barium	Mohawk River	4E-08	0E+00	1E-09	1E-05	4E-08
Barium	Tomahannock Reservoir	4E-08	0E+00	1E-09	1E-05	4E-08
Barium	Troy Reservoir	4E-08	0E+00	1E-09	1E-05	4E-08
Beryllium	Hudson River	6E-08	1E-09	3E-09		7E-08
Beryllium	Mohawk River	6E-08	2E-09	3E-09		7E-08
Beryllium	Tomahannock Reservoir	6E-08	3E-09	3E-09		7E-08
Beryllium	Troy Reservoir	6E-08	1E-08	3E-09		8E-08
Cadmium	Hudson River	1E-06	2E-06	2E-06		6E-06
Cadmium	Mohawk River	1E-06	3E-06	2E-06		6E-06
Cadmium	Tomahannock Reservoir	1E-06	1E-05	2E-06		2E-05
Cadmium	Troy Reservoir	1E-06	9E-05	2E-06		9E-05
Chromium VI	Hudson River	3E-10	9E-12	2E-09		2E-09
Chromium VI	Mohawk River	3E-10	1E-11	2E-09		2E-09
Chromium VI	Tomahannock Reservoir	3E-10	5E-11	2E-09		2E-09
Chromium VI	Troy Reservoir	3E-10	4E-10	2E-09		3E-09
Chromium III	Hudson River	6E-08	3E-11	2E-11		6E-08
Chromium III	Mohawk River	6E-08	5E-11	2E-11		6E-08
Chromium III	Tomahannock Reservoir	6E-08	5E-12	2E-11		6E-08
Chromium III	Troy Reservoir	6E-08	2E-11	2E-11		6E-08
Cobalt	Hudson River	9E-09	0E+00	2E-08		3E-08
Cobalt	Mohawk River	9E-09	0E+00	2E-08		3E-08
Cobalt	Tomahannock Reservoir	9E-09	0E+00	2E-08		3E-08
Cobalt	Troy Reservoir	9E-09	0E+00	2E-08		3E-08
Hydrogen Chloride	Hudson River				6E-03	
Hydrogen Chloride	Mohawk River				6E-03	
Hydrogen Chloride	Tomahannock Reservoir				6E-03	
Hydrogen Chloride	Troy Reservoir				6E-03	
Selenium	Hudson River	1E-08	2E-06	2E-07		2E-06
Selenium	Mohawk River	1E-08	3E-06	2E-07		3E-06
Selenium	Tomahannock Reservoir	1E-08	1E-05	2E-07		1E-05
Selenium	Troy Reservoir	1E-08	1E-04	2E-07		1E-04
Chlorine	Hudson River				7E-03	
Chlorine	Mohawk River				7E-03	
Chlorine	Tomahannock Reservoir				7E-03	
Chlorine	Troy Reservoir				7E-03	
Methylmercury - Developmental Effects	Hudson River	1E-05	6E-03	2E-07		6E-03
Methylmercury - Developmental Effects	Mohawk River	1E-05	3E-03	2E-07		3E-03
Methylmercury - Developmental Effects	Tomahannock Reservoir	1E-05	4E-02	2E-07		4E-02
Methylmercury - Developmental Effects	Troy Reservoir	1E-05	1E-01	2E-07		1E-01

Table IX-C8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Numbers 307, 479) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Hudson River	3E-06	2E-03	6E-08		2E-03
Methylmercury - Neurological Effects	Mohawk River	3E-06	1E-03	6E-08		1E-03
Methylmercury - Neurological Effects	Tomahannock Reservoir	3E-06	1E-02	6E-08		1E-02
Methylmercury - Neurological Effects	Troy Reservoir	3E-06	5E-02	6E-08		5E-02

Table IX-C9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-08	5E-09	5E-09	1E-08	2E-06	2E-05	2E-07	2E-06	1E-06	1E-06		1E-08	3E-05
Nickel												2E-10	
Arsenic	6E-11	3E-11	1E-11	6E-11	2E-10	3E-10	1E-11			3E-10		4E-10	1E-09
Beryllium												2E-11	
Cadmium												1E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	7E-08	8E-08	4E-08	2E-07	3E-08	1E-06	2E-09			0E+00		1E-04	2E-06
Mercury (elemental)												6E-06	
Mercury (divalent)	NA	2E-05	5E-06	3E-05	4E-05	4E-04	1E-07						5E-04
Nickel	2E-07	8E-08	3E-08	2E-07	2E-06	2E-05	1E-07			3E-07			2E-05
Silver	7E-10	9E-09	2E-09	2E-08	1E-07	6E-05	6E-09			0E+00			6E-05
Thallium	1E-05	1E-06	7E-08	3E-06	3E-04	1E-03	4E-05			5E-04			2E-03
Antimony	4E-07	2E-06	4E-07	4E-06	6E-06	4E-05	3E-07			0E+00			5E-05
Arsenic	2E-06	7E-07	3E-07	1E-06	4E-06	7E-06	3E-07			9E-06			2E-05
Barium	2E-07	2E-08	4E-09	3E-08	8E-09	1E-06	1E-09			0E+00		1E-06	1E-06
Beryllium	5E-07	6E-09	1E-09	2E-08	7E-08	3E-09	2E-08			3E-08			6E-07
Cadmium	2E-06	2E-06	9E-07	3E-06	2E-07	6E-07	3E-08			9E-05			1E-04
Chromium VI	9E-08	3E-08	1E-08	8E-08	1E-06	2E-05	6E-08			1E-07			2E-05
Chromium III	2E-07	2E-09	1E-09	5E-09	1E-07	2E-06	5E-08			2E-11			2E-06
Cobalt	8E-08	2E-08	9E-11	4E-08	2E-06	9E-06	1E-07			0E+00			1E-05
Hydrogen Chloride												4E-02	
Selenium	1E-08	2E-08	1E-08	4E-08	3E-07	3E-05	1E-06			2E-04			2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	2E-06	5E-06	6E-07	5E-06	1E-05	2E-04	8E-09			2E-03			3E-03
Methylmercury - Neurological Effects	8E-07	2E-06	2E-07	2E-06	4E-06	6E-05	3E-09			8E-04			9E-04

Table IX-C9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	4E-09	4E-09	2E-08	3E-06	1E-05	2E-07	2E-06	1E-06	1E-06		1E-08	2E-05
Nickel												2E-10	
Arsenic	2E-11	2E-11	9E-12	8E-11	3E-10	2E-10	9E-12			4E-10		4E-10	1E-09
Beryllium												2E-11	
Cadmium												2E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	2E-07	3E-08	7E-07	1E-09			0E+00		1E-04	1E-06
Mercury (elemental)												6E-06	
Mercury (divalent)	NA	9E-06	3E-06	3E-05	4E-05	2E-04	6E-08						3E-04
Nickel	4E-08	5E-08	2E-08	2E-07	2E-06	1E-05	7E-08			2E-07			1E-05
Silver	2E-10	5E-09	2E-09	2E-08	2E-07	3E-05	3E-09			0E+00			3E-05
Thallium	4E-06	6E-07	5E-08	3E-06	4E-04	5E-04	2E-05			4E-04			1E-03
Antimony	1E-07	9E-07	3E-07	4E-06	8E-06	2E-05	2E-07			0E+00			3E-05
Arsenic	4E-07	4E-07	2E-07	1E-06	5E-06	4E-06	2E-07			7E-06			2E-05
Barium	4E-08	9E-09	3E-09	3E-08	9E-09	5E-07	7E-10			0E+00		1E-06	6E-07
Beryllium	1E-07	4E-09	8E-10	2E-08	8E-08	1E-09	1E-08			2E-08			3E-07
Cadmium	4E-07	1E-06	6E-07	3E-06	2E-07	3E-07	2E-08			7E-05			8E-05
Chromium VI	2E-08	2E-08	8E-09	8E-08	1E-06	9E-06	4E-08			1E-07			1E-05
Chromium III	5E-08	1E-09	9E-10	5E-09	2E-07	8E-07	3E-08			1E-11			1E-06
Cobalt	2E-08	1E-08	7E-11	4E-08	2E-06	5E-06	8E-08			0E+00			7E-06
Hydrogen Chloride												4E-02	
Selenium	4E-09	8E-09	7E-09	4E-08	4E-07	1E-05	7E-07			1E-04			2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	6E-07	3E-06	4E-07	5E-06	1E-05	9E-05	5E-09			2E-03			2E-03
Methylmercury - Neurological Effects	2E-07	1E-06	1E-07	2E-06	5E-06	3E-05	2E-09			6E-04			6E-04

Table IX-C9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	3E-09	3E-09	9E-09	2E-06	7E-06	1E-07	1E-06	7E-07	6E-07		9E-09	1E-05
Nickel												1E-10	
Arsenic	1E-11	1E-11	7E-12	4E-11	1E-10	1E-10	6E-12			2E-10		3E-10	5E-10
Beryllium												1E-11	
Cadmium												1E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-09	4E-08	2E-08	8E-08	1E-08	3E-07	9E-10			0E+00		1E-04	5E-07
Mercury (elemental)												6E-06	
Mercury (divalent)	5E-06	7E-06	2E-06	2E-05	2E-05	9E-05	4E-08			0E+00			1E-04
Nickel	2E-08	3E-08	2E-08	1E-07	1E-06	4E-06	4E-08			1E-07			6E-06
Silver	9E-11	4E-09	1E-09	1E-08	8E-08	1E-05	2E-09			0E+00			1E-05
Thallium	2E-06	5E-07	3E-08	2E-06	2E-04	2E-04	1E-05			2E-04			6E-04
Antimony	5E-08	7E-07	2E-07	2E-06	3E-06	9E-06	1E-07			0E+00			2E-05
Arsenic	2E-07	3E-07	1E-07	8E-07	2E-06	2E-06	1E-07			3E-06			9E-06
Barium	2E-08	7E-09	2E-09	2E-08	4E-09	2E-07	5E-10			0E+00		1E-06	3E-07
Beryllium	6E-08	3E-09	6E-10	8E-09	4E-08	6E-10	8E-09			1E-08			1E-07
Cadmium	2E-07	8E-07	4E-07	2E-06	9E-08	1E-07	1E-08			4E-05			4E-05
Chromium VI	1E-08	1E-08	6E-09	4E-08	6E-07	4E-06	2E-08			6E-08			5E-06
Chromium III	2E-08	9E-10	6E-10	3E-09	7E-08	4E-07	2E-08			6E-12			5E-07
Cobalt	1E-08	8E-09	5E-11	2E-08	8E-07	2E-06	5E-08			0E+00			3E-06
Hydrogen Chloride												4E-02	
Selenium	2E-09	6E-09	5E-09	2E-08	2E-07	7E-06	4E-07			8E-05			8E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	3E-07	2E-06	3E-07	3E-06	7E-06	4E-05	3E-09			1E-03			1E-03
Methylmercury - Neurological Effects	1E-07	8E-07	1E-07	9E-07	2E-06	1E-05	1E-09			3E-04			3E-04

Table IX-C9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	8E-09	6E-09	1E-08	3E-06	6E-06	2E-07	2E-06	1E-06	1E-06		1E-08	1E-05
Nickel												2E-10	
Arsenic	9E-12	3E-11	1E-11	7E-11	3E-10	8E-11	1E-11			4E-10		4E-10	9E-10
Beryllium												2E-11	
Cadmium												2E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-09	5E-08	2E-08	8E-08	2E-08	1E-07	7E-10			0E+00		1E-04	3E-07
Mercury (elemental)												6E-06	
Mercury (divalent)	2E-06	9E-06	3E-06	2E-05	2E-05	4E-05	3E-08			0E+00			9E-05
Nickel	9E-09	5E-08	2E-08	9E-08	1E-06	2E-06	4E-08			1E-07			3E-06
Silver	4E-11	5E-09	1E-09	1E-08	9E-08	6E-06	2E-09			0E+00			6E-06
Thallium	8E-07	7E-07	4E-08	2E-06	2E-04	1E-04	1E-05			2E-04			6E-04
Antimony	2E-08	9E-07	2E-07	2E-06	4E-06	4E-06	9E-08			0E+00			1E-05
Arsenic	8E-08	4E-07	1E-07	7E-07	3E-06	7E-07	1E-07			4E-06			9E-06
Barium	9E-09	9E-09	2E-09	2E-08	5E-09	1E-07	4E-10			0E+00		1E-06	1E-07
Beryllium	3E-08	4E-09	7E-10	8E-09	4E-08	3E-10	7E-09			1E-08			1E-07
Cadmium	1E-07	1E-06	5E-07	2E-06	1E-07	6E-08	1E-08			4E-05			4E-05
Chromium VI	5E-09	2E-08	6E-09	4E-08	7E-07	2E-06	2E-08			7E-08			3E-06
Chromium III	1E-08	1E-09	7E-10	2E-09	8E-08	2E-07	2E-08			7E-12			3E-07
Cobalt	4E-09	1E-08	5E-11	2E-08	1E-06	9E-07	4E-08			0E+00			2E-06
Hydrogen Chloride												4E-02	
Selenium	8E-10	9E-09	6E-09	2E-08	2E-07	3E-06	4E-07			8E-05			9E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	1E-07	3E-06	3E-07	2E-06	8E-06	2E-05	3E-09			1E-03			1E-03
Methylmercury - Neurological Effects	5E-08	1E-06	1E-07	8E-07	3E-06	6E-06	9E-10			4E-04			4E-04

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River (includes Bear Creek and Long Creek)	9E-08	8E-07	3E-10	1E-08	9E-07
2,3,7,8-TCDD-TEQ	Lake Tillery	9E-08	4E-07	3E-10	1E-08	5E-07
2,3,7,8-TCDD-TEQ	Long Lake/Creek	9E-08	3E-07	3E-10	1E-08	4E-07
Nickel	Rocky River (includes Bear Creek and Long Creek)				2E-10	
Nickel	Lake Tillery				2E-10	
Nickel	Long Lake/Creek				2E-10	
Arsenic	Rocky River (includes Bear Creek and Long Creek)	6E-11	6E-12	2E-10	4E-10	2E-10
Arsenic	Lake Tillery	6E-11	2E-11	2E-10	4E-10	2E-10
Arsenic	Long Lake/Creek	6E-11	8E-12	2E-10	4E-10	2E-10
Beryllium	Rocky River (includes Bear Creek and Long Creek)				2E-11	
Beryllium	Lake Tillery				2E-11	
Beryllium	Long Lake/Creek				2E-11	
Cadmium	Rocky River (includes Bear Creek and Long Creek)				1E-10	
Cadmium	Lake Tillery				1E-10	
Cadmium	Long Lake/Creek				1E-10	
Chromium VI	Rocky River (includes Bear Creek and Long Creek)				2E-09	
Chromium VI	Lake Tillery				2E-09	
Chromium VI	Long Lake/Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Rocky River (includes Bear Creek and Long Creek)	7E-08	0E+00	8E-08	1E-04	1E-07
Manganese	Lake Tillery	7E-08	0E+00	8E-08	1E-04	1E-07
Manganese	Long Lake/Creek	7E-08	0E+00	8E-08	1E-04	1E-07
Mercury (elemental)	Rocky River (includes Bear Creek and Long Creek)				6E-06	
Mercury (elemental)	Lake Tillery				6E-06	
Mercury (elemental)	Long Lake/Creek				6E-06	
Mercury (divalent)	Rocky River (includes Bear Creek and Long Creek)	4E-05		2E-07		4E-05
Mercury (divalent)	Lake Tillery	4E-05		2E-07		4E-05
Mercury (divalent)	Long Lake/Creek	4E-05		2E-07		4E-05
Nickel	Rocky River (includes Bear Creek and Long Creek)	2E-07	5E-09	6E-07		7E-07
Nickel	Lake Tillery	2E-07	1E-08	6E-07		7E-07
Nickel	Long Lake/Creek	2E-07	6E-09	6E-07		7E-07
Silver	Rocky River (includes Bear Creek and Long Creek)	7E-10	0E+00	9E-08		9E-08
Silver	Lake Tillery	7E-10	0E+00	9E-08		9E-08
Silver	Long Lake/Creek	7E-10	0E+00	9E-08		9E-08
Thallium	Rocky River (includes Bear Creek and Long Creek)	1E-05	1E-05	1E-05		4E-05
Thallium	Lake Tillery	1E-05	3E-05	1E-05		6E-05
Thallium	Long Lake/Creek	1E-05	1E-05	1E-05		4E-05
Antimony	Rocky River (includes Bear Creek and Long Creek)	4E-07	0E+00	1E-05		1E-05
Antimony	Lake Tillery	4E-07	0E+00	1E-05		1E-05
Antimony	Long Lake/Creek	4E-07	0E+00	1E-05		1E-05
Arsenic	Rocky River (includes Bear Creek and Long Creek)	2E-06	2E-07	4E-06		6E-06
Arsenic	Lake Tillery	2E-06	4E-07	4E-06		6E-06
Arsenic	Long Lake/Creek	2E-06	2E-07	4E-06		6E-06
Barium	Rocky River (includes Bear Creek and Long Creek)	2E-07	0E+00	2E-09	1E-06	2E-07
Barium	Lake Tillery	2E-07	0E+00	2E-09	1E-06	2E-07
Barium	Long Lake/Creek	2E-07	0E+00	2E-09	1E-06	2E-07
Beryllium	Rocky River (includes Bear Creek and Long Creek)	5E-07	6E-09	1E-08		5E-07
Beryllium	Lake Tillery	5E-07	7E-09	1E-08		5E-07
Beryllium	Long Lake/Creek	5E-07	4E-09	1E-08		5E-07

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Rocky River (includes Bear Creek and Long Creek)	2E-06	2E-06	2E-06		6E-06
Cadmium	Lake Tillery	2E-06	6E-06	2E-06		1E-05
Cadmium	Long Lake/Creek	2E-06	3E-06	2E-06		7E-06
Chromium VI	Rocky River (includes Bear Creek and Long Creek)	9E-08	3E-09	4E-07		5E-07
Chromium VI	Lake Tillery	9E-08	7E-09	4E-07		5E-07
Chromium VI	Long Lake/Creek	9E-08	3E-09	4E-07		5E-07
Chromium III	Rocky River (includes Bear Creek and Long Creek)	2E-07	3E-11	7E-12		2E-07
Chromium III	Lake Tillery	2E-07	3E-12	7E-12		2E-07
Chromium III	Long Lake/Creek	2E-07	2E-12	7E-12		2E-07
Cobalt	Rocky River (includes Bear Creek and Long Creek)	8E-08	0E+00	7E-12		8E-08
Cobalt	Lake Tillery	8E-08	0E+00	7E-12		8E-08
Cobalt	Long Lake/Creek	8E-08	0E+00	7E-12		8E-08
Hydrogen Chloride	Rocky River (includes Bear Creek and Long Creek)				4E-02	
Hydrogen Chloride	Lake Tillery				4E-02	
Hydrogen Chloride	Long Lake/Creek				4E-02	
Selenium	Rocky River (includes Bear Creek and Long Creek)	1E-08	3E-06	2E-07		3E-06
Selenium	Lake Tillery	1E-08	8E-06	2E-07		8E-06
Selenium	Long Lake/Creek	1E-08	4E-06	2E-07		4E-06
Chlorine	Rocky River (includes Bear Creek and Long Creek)				1E-04	
Chlorine	Lake Tillery				1E-04	
Chlorine	Long Lake/Creek				1E-04	
Methylmercury - Developmental Effects	Rocky River (includes Bear Creek and Long Creek)	2E-06	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Lake Tillery	2E-06	3E-03	2E-08		3E-03
Methylmercury - Developmental Effects	Long Lake/Creek	2E-06	3E-03	2E-08		3E-03
Methylmercury - Neurological Effects	Rocky River (includes Bear Creek and Long Creek)	8E-07	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Lake Tillery	8E-07	9E-04	6E-09		9E-04
Methylmercury - Neurological Effects	Long Lake/Creek	8E-07	9E-04	6E-09		9E-04

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River (includes Bear Creek and Long Creek)	3E-08	1E-06	2E-10	1E-08	1E-06
2,3,7,8-TCDD-TEQ	Lake Tillery	3E-08	5E-07	2E-10	1E-08	6E-07
2,3,7,8-TCDD-TEQ	Long Lake/Creek	3E-08	4E-07	2E-10	1E-08	4E-07
Nickel	Rocky River (includes Bear Creek and Long Creek)				2E-10	
Nickel	Lake Tillery				2E-10	
Nickel	Long Lake/Creek				2E-10	
Arsenic	Rocky River (includes Bear Creek and Long Creek)	2E-11	9E-12	1E-10	4E-10	2E-10
Arsenic	Lake Tillery	2E-11	2E-11	1E-10	4E-10	2E-10
Arsenic	Long Lake/Creek	2E-11	1E-11	1E-10	4E-10	2E-10
Beryllium	Rocky River (includes Bear Creek and Long Creek)				2E-11	
Beryllium	Lake Tillery				2E-11	
Beryllium	Long Lake/Creek				2E-11	
Cadmium	Rocky River (includes Bear Creek and Long Creek)				2E-10	
Cadmium	Lake Tillery				2E-10	
Cadmium	Long Lake/Creek				2E-10	
Chromium VI	Rocky River (includes Bear Creek and Long Creek)				2E-09	
Chromium VI	Lake Tillery				2E-09	
Chromium VI	Long Lake/Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Rocky River (includes Bear Creek and Long Creek)	2E-08	0E+00	4E-08	1E-04	6E-08
Manganese	Lake Tillery	2E-08	0E+00	4E-08	1E-04	6E-08
Manganese	Long Lake/Creek	2E-08	0E+00	4E-08	1E-04	6E-08
Mercury (elemental)	Rocky River (includes Bear Creek and Long Creek)				6E-06	
Mercury (elemental)	Lake Tillery				6E-06	
Mercury (elemental)	Long Lake/Creek				6E-06	
Mercury (divalent)	Rocky River (includes Bear Creek and Long Creek)	1E-05		1E-07		1E-05
Mercury (divalent)	Lake Tillery	1E-05		1E-07		1E-05
Mercury (divalent)	Long Lake/Creek	1E-05		1E-07		1E-05
Nickel	Rocky River (includes Bear Creek and Long Creek)	4E-08	5E-09	3E-07		4E-07
Nickel	Lake Tillery	4E-08	1E-08	3E-07		4E-07
Nickel	Long Lake/Creek	4E-08	6E-09	3E-07		4E-07
Silver	Rocky River (includes Bear Creek and Long Creek)	2E-10	0E+00	5E-08		5E-08
Silver	Lake Tillery	2E-10	0E+00	5E-08		5E-08
Silver	Long Lake/Creek	2E-10	0E+00	5E-08		5E-08
Thallium	Rocky River (includes Bear Creek and Long Creek)	4E-06	1E-05	8E-06		2E-05
Thallium	Lake Tillery	4E-06	3E-05	8E-06		4E-05
Thallium	Long Lake/Creek	4E-06	1E-05	8E-06		3E-05
Antimony	Rocky River (includes Bear Creek and Long Creek)	1E-07	0E+00	7E-06		7E-06
Antimony	Lake Tillery	1E-07	0E+00	7E-06		7E-06
Antimony	Long Lake/Creek	1E-07	0E+00	7E-06		7E-06
Arsenic	Rocky River (includes Bear Creek and Long Creek)	4E-07	2E-07	2E-06		3E-06
Arsenic	Lake Tillery	4E-07	4E-07	2E-06		3E-06
Arsenic	Long Lake/Creek	4E-07	2E-07	2E-06		3E-06
Barium	Rocky River (includes Bear Creek and Long Creek)	4E-08	0E+00	1E-09	1E-06	4E-08
Barium	Lake Tillery	4E-08	0E+00	1E-09	1E-06	4E-08
Barium	Long Lake/Creek	4E-08	0E+00	1E-09	1E-06	4E-08
Beryllium	Rocky River (includes Bear Creek and Long Creek)	1E-07	6E-09	7E-09		1E-07
Beryllium	Lake Tillery	1E-07	7E-09	7E-09		1E-07
Beryllium	Long Lake/Creek	1E-07	4E-09	7E-09		1E-07

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Rocky River (includes Bear Creek and Long Creek)	4E-07	2E-06	1E-06		4E-06
Cadmium	Lake Tillery	4E-07	6E-06	1E-06		8E-06
Cadmium	Long Lake/Creek	4E-07	3E-06	1E-06		5E-06
Chromium VI	Rocky River (includes Bear Creek and Long Creek)	2E-08	3E-09	2E-07		2E-07
Chromium VI	Lake Tillery	2E-08	7E-09	2E-07		2E-07
Chromium VI	Long Lake/Creek	2E-08	3E-09	2E-07		2E-07
Chromium III	Rocky River (includes Bear Creek and Long Creek)	5E-08	3E-11	4E-12		5E-08
Chromium III	Lake Tillery	5E-08	3E-12	4E-12		5E-08
Chromium III	Long Lake/Creek	5E-08	2E-12	4E-12		5E-08
Cobalt	Rocky River (includes Bear Creek and Long Creek)	2E-08	0E+00	4E-12		2E-08
Cobalt	Lake Tillery	2E-08	0E+00	4E-12		2E-08
Cobalt	Long Lake/Creek	2E-08	0E+00	4E-12		2E-08
Hydrogen Chloride	Rocky River (includes Bear Creek and Long Creek)				4E-02	
Hydrogen Chloride	Lake Tillery				4E-02	
Hydrogen Chloride	Long Lake/Creek				4E-02	
Selenium	Rocky River (includes Bear Creek and Long Creek)	4E-09	3E-06	1E-07		3E-06
Selenium	Lake Tillery	4E-09	8E-06	1E-07		8E-06
Selenium	Long Lake/Creek	4E-09	4E-06	1E-07		4E-06
Chlorine	Rocky River (includes Bear Creek and Long Creek)				1E-04	
Chlorine	Lake Tillery				1E-04	
Chlorine	Long Lake/Creek				1E-04	
Methylmercury - Developmental Effects	Rocky River (includes Bear Creek and Long Creek)	6E-07	5E-03	1E-08		5E-03
Methylmercury - Developmental Effects	Lake Tillery	6E-07	3E-03	1E-08		3E-03
Methylmercury - Developmental Effects	Long Lake/Creek	6E-07	3E-03	1E-08		3E-03
Methylmercury - Neurological Effects	Rocky River (includes Bear Creek and Long Creek)	2E-07	2E-03	3E-09		2E-03
Methylmercury - Neurological Effects	Lake Tillery	2E-07	9E-04	3E-09		9E-04
Methylmercury - Neurological Effects	Long Lake/Creek	2E-07	9E-04	3E-09		9E-04

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River (includes Bear Creek and Long Creek)	2E-08	8E-07	1E-10	9E-09	8E-07
2,3,7,8-TCDD-TEQ	Lake Tillery	2E-08	4E-07	1E-10	9E-09	4E-07
2,3,7,8-TCDD-TEQ	Long Lake/Creek	2E-08	3E-07	1E-10	9E-09	3E-07
Nickel	Rocky River (includes Bear Creek and Long Creek)				1E-10	
Nickel	Lake Tillery				1E-10	
Nickel	Long Lake/Creek				1E-10	
Arsenic	Rocky River (includes Bear Creek and Long Creek)	1E-11	6E-12	8E-11	3E-10	1E-10
Arsenic	Lake Tillery	1E-11	2E-11	8E-11	3E-10	1E-10
Arsenic	Long Lake/Creek	1E-11	8E-12	8E-11	3E-10	1E-10
Beryllium	Rocky River (includes Bear Creek and Long Creek)				1E-11	
Beryllium	Lake Tillery				1E-11	
Beryllium	Long Lake/Creek				1E-11	
Cadmium	Rocky River (includes Bear Creek and Long Creek)				1E-10	
Cadmium	Lake Tillery				1E-10	
Cadmium	Long Lake/Creek				1E-10	
Chromium VI	Rocky River (includes Bear Creek and Long Creek)				1E-09	
Chromium VI	Lake Tillery				1E-09	
Chromium VI	Long Lake/Creek				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Rocky River (includes Bear Creek and Long Creek)	9E-09	0E+00	3E-08	1E-04	4E-08
Manganese	Lake Tillery	9E-09	0E+00	3E-08	1E-04	4E-08
Manganese	Long Lake/Creek	9E-09	0E+00	3E-08	1E-04	4E-08
Mercury (elemental)	Rocky River (includes Bear Creek and Long Creek)				6E-06	
Mercury (elemental)	Lake Tillery				6E-06	
Mercury (elemental)	Long Lake/Creek				6E-06	
Mercury (divalent)	Rocky River (includes Bear Creek and Long Creek)	5E-06		7E-08		6E-06
Mercury (divalent)	Lake Tillery	5E-06		7E-08		6E-06
Mercury (divalent)	Long Lake/Creek	5E-06		7E-08		6E-06
Nickel	Rocky River (includes Bear Creek and Long Creek)	2E-08	4E-09	2E-07		2E-07
Nickel	Lake Tillery	2E-08	1E-08	2E-07		2E-07
Nickel	Long Lake/Creek	2E-08	5E-09	2E-07		2E-07
Silver	Rocky River (includes Bear Creek and Long Creek)	9E-11	0E+00	3E-08		3E-08
Silver	Lake Tillery	9E-11	0E+00	3E-08		3E-08
Silver	Long Lake/Creek	9E-11	0E+00	3E-08		3E-08
Thallium	Rocky River (includes Bear Creek and Long Creek)	2E-06	8E-06	5E-06		2E-05
Thallium	Lake Tillery	2E-06	2E-05	5E-06		3E-05
Thallium	Long Lake/Creek	2E-06	1E-05	5E-06		2E-05
Antimony	Rocky River (includes Bear Creek and Long Creek)	5E-08	0E+00	5E-06		5E-06
Antimony	Lake Tillery	5E-08	0E+00	5E-06		5E-06
Antimony	Long Lake/Creek	5E-08	0E+00	5E-06		5E-06
Arsenic	Rocky River (includes Bear Creek and Long Creek)	2E-07	1E-07	1E-06		2E-06
Arsenic	Lake Tillery	2E-07	3E-07	1E-06		2E-06
Arsenic	Long Lake/Creek	2E-07	1E-07	1E-06		2E-06
Barium	Rocky River (includes Bear Creek and Long Creek)	2E-08	0E+00	9E-10	1E-06	2E-08
Barium	Lake Tillery	2E-08	0E+00	9E-10	1E-06	2E-08
Barium	Long Lake/Creek	2E-08	0E+00	9E-10	1E-06	2E-08
Beryllium	Rocky River (includes Bear Creek and Long Creek)	6E-08	4E-09	4E-09		7E-08
Beryllium	Lake Tillery	6E-08	5E-09	4E-09		7E-08
Beryllium	Long Lake/Creek	6E-08	3E-09	4E-09		7E-08

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Rocky River (includes Bear Creek and Long Creek)	2E-07	2E-06	8E-07		3E-06
Cadmium	Lake Tillery	2E-07	4E-06	8E-07		5E-06
Cadmium	Long Lake/Creek	2E-07	2E-06	8E-07		3E-06
Chromium VI	Rocky River (includes Bear Creek and Long Creek)	1E-08	2E-09	1E-07		1E-07
Chromium VI	Lake Tillery	1E-08	5E-09	1E-07		2E-07
Chromium VI	Long Lake/Creek	1E-08	2E-09	1E-07		1E-07
Chromium III	Rocky River (includes Bear Creek and Long Creek)	2E-08	2E-11	3E-12		2E-08
Chromium III	Lake Tillery	2E-08	2E-12	3E-12		2E-08
Chromium III	Long Lake/Creek	2E-08	1E-12	3E-12		2E-08
Cobalt	Rocky River (includes Bear Creek and Long Creek)	1E-08	0E+00	5E-08		6E-08
Cobalt	Lake Tillery	1E-08	0E+00	5E-08		6E-08
Cobalt	Long Lake/Creek	1E-08	0E+00	5E-08		6E-08
Hydrogen Chloride	Rocky River (includes Bear Creek and Long Creek)				4E-02	
Hydrogen Chloride	Lake Tillery				4E-02	
Hydrogen Chloride	Long Lake/Creek				4E-02	
Selenium	Rocky River (includes Bear Creek and Long Creek)	2E-09	2E-06	8E-08		2E-06
Selenium	Lake Tillery	2E-09	6E-06	8E-08		6E-06
Selenium	Long Lake/Creek	2E-09	3E-06	8E-08		3E-06
Chlorine	Rocky River (includes Bear Creek and Long Creek)				1E-04	
Chlorine	Lake Tillery				1E-04	
Chlorine	Long Lake/Creek				1E-04	
Methylmercury - Developmental Effects	Rocky River (includes Bear Creek and Long Creek)	3E-07	3E-03	6E-09		3E-03
Methylmercury - Developmental Effects	Lake Tillery	3E-07	2E-03	6E-09		2E-03
Methylmercury - Developmental Effects	Long Lake/Creek	3E-07	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Rocky River (includes Bear Creek and Long Creek)	1E-07	1E-03	2E-09		1E-03
Methylmercury - Neurological Effects	Lake Tillery	1E-07	6E-04	2E-09		6E-04
Methylmercury - Neurological Effects	Long Lake/Creek	1E-07	6E-04	2E-09		6E-04

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Rocky River (includes Bear Creek and Long Creek)	1E-08	1E-06	3E-10	1E-08	1E-06
2,3,7,8-TCDD-TEQ	Lake Tillery	1E-08	7E-07	3E-10	1E-08	7E-07
2,3,7,8-TCDD-TEQ	Long Lake/Creek	1E-08	5E-07	3E-10	1E-08	6E-07
Nickel	Rocky River (includes Bear Creek and Long Creek)				2E-10	
Nickel	Lake Tillery				2E-10	
Nickel	Long Lake/Creek				2E-10	
Arsenic	Rocky River (includes Bear Creek and Long Creek)	9E-12	1E-11	2E-10	4E-10	2E-10
Arsenic	Lake Tillery	9E-12	3E-11	2E-10	4E-10	2E-10
Arsenic	Long Lake/Creek	9E-12	1E-11	2E-10	4E-10	2E-10
Beryllium	Rocky River (includes Bear Creek and Long Creek)				2E-11	
Beryllium	Lake Tillery				2E-11	
Beryllium	Long Lake/Creek				2E-11	
Cadmium	Rocky River (includes Bear Creek and Long Creek)				2E-10	
Cadmium	Lake Tillery				2E-10	
Cadmium	Long Lake/Creek				2E-10	
Chromium VI	Rocky River (includes Bear Creek and Long Creek)				2E-09	
Chromium VI	Lake Tillery				2E-09	
Chromium VI	Long Lake/Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Rocky River (includes Bear Creek and Long Creek)	4E-09	0E+00	3E-08	1E-04	4E-08
Manganese	Lake Tillery	4E-09	0E+00	3E-08	1E-04	4E-08
Manganese	Long Lake/Creek	4E-09	0E+00	3E-08	1E-04	4E-08
Mercury (elemental)	Rocky River (includes Bear Creek and Long Creek)				6E-06	
Mercury (elemental)	Lake Tillery				6E-06	
Mercury (elemental)	Long Lake/Creek				6E-06	
Mercury (divalent)	Rocky River (includes Bear Creek and Long Creek)	2E-06		8E-08		2E-06
Mercury (divalent)	Lake Tillery	2E-06		8E-08		2E-06
Mercury (divalent)	Long Lake/Creek	2E-06		8E-08		2E-06
Nickel	Rocky River (includes Bear Creek and Long Creek)	9E-09	4E-09	2E-07		2E-07
Nickel	Lake Tillery	9E-09	1E-08	2E-07		3E-07
Nickel	Long Lake/Creek	9E-09	5E-09	2E-07		3E-07
Silver	Rocky River (includes Bear Creek and Long Creek)	4E-11	0E+00	4E-08		4E-08
Silver	Lake Tillery	4E-11	0E+00	4E-08		4E-08
Silver	Long Lake/Creek	4E-11	0E+00	4E-08		4E-08
Thallium	Rocky River (includes Bear Creek and Long Creek)	8E-07	8E-06	6E-06		2E-05
Thallium	Lake Tillery	8E-07	2E-05	6E-06		3E-05
Thallium	Long Lake/Creek	8E-07	1E-05	6E-06		2E-05
Antimony	Rocky River (includes Bear Creek and Long Creek)	2E-08	0E+00	6E-06		6E-06
Antimony	Lake Tillery	2E-08	0E+00	6E-06		6E-06
Antimony	Long Lake/Creek	2E-08	0E+00	6E-06		6E-06
Arsenic	Rocky River (includes Bear Creek and Long Creek)	8E-08	1E-07	2E-06		2E-06
Arsenic	Lake Tillery	8E-08	3E-07	2E-06		2E-06
Arsenic	Long Lake/Creek	8E-08	1E-07	2E-06		2E-06
Barium	Rocky River (includes Bear Creek and Long Creek)	9E-09	0E+00	1E-09	1E-06	1E-08
Barium	Lake Tillery	9E-09	0E+00	1E-09	1E-06	1E-08
Barium	Long Lake/Creek	9E-09	0E+00	1E-09	1E-06	1E-08
Beryllium	Rocky River (includes Bear Creek and Long Creek)	3E-08	4E-09	5E-09		3E-08
Beryllium	Lake Tillery	3E-08	5E-09	5E-09		3E-08
Beryllium	Long Lake/Creek	3E-08	3E-09	5E-09		3E-08

Table IX-C10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Light Weight Aggregate Kiln (Stack Number NOR) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Rocky River (includes Bear Creek and Long Creek)	1E-07	2E-06	9E-07		3E-06
Cadmium	Lake Tillery	1E-07	4E-06	9E-07		5E-06
Cadmium	Long Lake/Creek	1E-07	2E-06	9E-07		3E-06
Chromium VI	Rocky River (includes Bear Creek and Long Creek)	5E-09	2E-09	2E-07		2E-07
Chromium VI	Lake Tillery	5E-09	5E-09	2E-07		2E-07
Chromium VI	Long Lake/Creek	5E-09	2E-09	2E-07		2E-07
Chromium III	Rocky River (includes Bear Creek and Long Creek)	1E-08	2E-11	3E-12		1E-08
Chromium III	Lake Tillery	1E-08	2E-12	3E-12		1E-08
Chromium III	Long Lake/Creek	1E-08	1E-12	3E-12		1E-08
Cobalt	Rocky River (includes Bear Creek and Long Creek)	4E-09	0E+00	6E-08		6E-08
Cobalt	Lake Tillery	4E-09	0E+00	6E-08		6E-08
Cobalt	Long Lake/Creek	4E-09	0E+00	6E-08		6E-08
Hydrogen Chloride	Rocky River (includes Bear Creek and Long Creek)				4E-02	
Hydrogen Chloride	Lake Tillery				4E-02	
Hydrogen Chloride	Long Lake/Creek				4E-02	
Selenium	Rocky River (includes Bear Creek and Long Creek)	8E-10	2E-06	9E-08		2E-06
Selenium	Lake Tillery	8E-10	6E-06	9E-08		6E-06
Selenium	Long Lake/Creek	8E-10	3E-06	9E-08		3E-06
Chlorine	Rocky River (includes Bear Creek and Long Creek)				1E-04	
Chlorine	Lake Tillery				1E-04	
Chlorine	Long Lake/Creek				1E-04	
Methylmercury - Developmental Effects	Rocky River (includes Bear Creek and Long Creek)	1E-07	3E-03	7E-09		3E-03
Methylmercury - Developmental Effects	Lake Tillery	1E-07	2E-03	7E-09		2E-03
Methylmercury - Developmental Effects	Long Lake/Creek	1E-07	2E-03	7E-09		2E-03
Methylmercury - Neurological Effects	Rocky River (includes Bear Creek and Long Creek)	5E-08	1E-03	2E-09		1E-03
Methylmercury - Neurological Effects	Lake Tillery	5E-08	6E-04	2E-09		6E-04
Methylmercury - Neurological Effects	Long Lake/Creek	5E-08	6E-04	2E-09		6E-04

Table IX-D1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-09	3E-10	3E-10	7E-10	1E-07	1E-06	2E-08	1E-07	6E-08	7E-08		1E-09	2E-06
Nickel												1E-10	
Arsenic	2E-10	7E-11	3E-11	1E-10	4E-10	7E-10	3E-11			2E-09		2E-09	4E-09
Beryllium												2E-11	
Cadmium												3E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-08	4E-08	2E-08	9E-08	2E-08	8E-07	1E-09			0E+00		9E-05	1E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	4E-06	1E-06	7E-06	1E-05	2E-04	3E-08						2E-04
Nickel	1E-07	4E-08	2E-08	9E-08	8E-07	8E-06	5E-08			3E-07			9E-06
Silver	8E-10	8E-09	2E-09	2E-08	1E-07	4E-05	4E-09			0E+00			4E-05
Thallium	3E-05	2E-06	1E-07	5E-06	6E-04	2E-03	7E-05			2E-03			4E-03
Antimony	5E-06	2E-05	5E-06	4E-05	5E-05	3E-04	2E-06			0E+00			4E-04
Arsenic	6E-06	2E-06	8E-07	4E-06	1E-05	2E-05	9E-07			5E-05			9E-05
Barium	9E-06	9E-07	2E-07	2E-06	4E-07	5E-05	7E-08			0E+00		1E-04	7E-05
Beryllium	2E-07	3E-09	6E-10	7E-09	3E-08	1E-09	1E-08			3E-08			3E-07
Cadmium	3E-05	2E-05	1E-05	4E-05	2E-06	8E-06	4E-07			2E-03			2E-03
Chromium VI	2E-06	4E-07	2E-07	1E-06	1E-05	2E-04	1E-06			4E-06			3E-04
Chromium III	1E-07	1E-09	9E-10	4E-09	1E-07	1E-06	3E-08			2E-11			1E-06
Cobalt	1E-08	2E-09	1E-11	5E-09	2E-07	1E-06	2E-08			0E+00			1E-06
Hydrogen Chloride												8E-04	
Selenium	2E-08	2E-08	2E-08	4E-08	3E-07	3E-05	1E-06			4E-04			5E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	6E-07	1E-06	2E-07	1E-06	3E-06	4E-05	2E-09			7E-04			8E-04
Methylmercury - Neurological Effects	2E-07	4E-07	5E-08	4E-07	9E-07	1E-05	6E-10			2E-04			3E-04

Table IX-D1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-10	2E-10	1E-09	2E-07	1E-06	1E-08	1E-07	7E-08	7E-08		1E-09	2E-06
Nickel												2E-10	
Arsenic	8E-11	5E-11	3E-11	2E-10	7E-10	5E-10	3E-11			2E-09		2E-09	4E-09
Beryllium												2E-11	
Cadmium												3E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	2E-08	8E-08	2E-08	4E-07	8E-10			0E+00		9E-05	5E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	2E-06	8E-07	7E-06	2E-05	9E-05	2E-08						1E-04
Nickel	3E-08	2E-08	1E-08	8E-08	1E-06	4E-06	3E-08			2E-07			5E-06
Silver	2E-10	4E-09	2E-09	2E-08	1E-07	2E-05	2E-09			0E+00			2E-05
Thallium	8E-06	1E-06	8E-08	5E-06	7E-04	8E-04	4E-05			1E-03			3E-03
Antimony	1E-06	1E-05	3E-06	4E-05	6E-05	2E-04	1E-06			0E+00			3E-04
Arsenic	1E-06	1E-06	5E-07	4E-06	1E-05	9E-06	5E-07			4E-05			6E-05
Barium	2E-06	5E-07	2E-07	2E-06	5E-07	3E-05	4E-08			0E+00		1E-04	3E-05
Beryllium	6E-08	2E-09	4E-10	7E-09	4E-08	7E-10	6E-09			2E-08			1E-07
Cadmium	7E-06	1E-05	7E-06	4E-05	3E-06	4E-06	3E-07			2E-03			2E-03
Chromium VI	5E-07	2E-07	1E-07	1E-06	2E-05	1E-04	6E-07			3E-06			1E-04
Chromium III	3E-08	8E-10	6E-10	4E-09	1E-07	6E-07	2E-08			2E-11			8E-07
Cobalt	3E-09	1E-09	8E-12	5E-09	2E-07	5E-07	1E-08			0E+00			7E-07
Hydrogen Chloride												8E-04	
Selenium	6E-09	8E-09	1E-08	4E-08	3E-07	1E-05	7E-07			3E-04			3E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	2E-07	6E-07	1E-07	1E-06	3E-06	2E-05	1E-09			5E-04			6E-04
Methylmercury - Neurological Effects	5E-08	2E-07	4E-08	4E-07	1E-06	6E-06	4E-10			2E-04			2E-04

Table IX-D1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-10	2E-10	5E-10	1E-07	5E-07	9E-09	8E-08	4E-08	4E-08		7E-10	7E-07
Nickel												1E-10	
Arsenic	4E-11	4E-11	2E-11	1E-10	3E-10	2E-10	2E-11			1E-09		1E-09	2E-09
Beryllium												1E-11	
Cadmium												2E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-09	2E-08	1E-08	4E-08	8E-09	2E-07	5E-10			0E+00		9E-05	3E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	1E-06	2E-06	6E-07	4E-06	8E-06	4E-05	1E-08			0E+00			5E-05
Nickel	1E-08	2E-08	8E-09	4E-08	4E-07	2E-06	2E-08			1E-07			3E-06
Silver	1E-10	3E-09	1E-09	1E-08	6E-08	1E-05	2E-09			0E+00			1E-05
Thallium	4E-06	7E-07	5E-08	2E-06	3E-04	4E-04	3E-05			7E-04			1E-03
Antimony	7E-07	8E-06	2E-06	2E-05	3E-05	7E-05	9E-07			0E+00			1E-04
Arsenic	8E-07	8E-07	4E-07	2E-06	6E-06	4E-06	3E-07			2E-05			3E-05
Barium	1E-06	4E-07	1E-07	9E-07	2E-07	1E-05	3E-08			0E+00		1E-04	2E-05
Beryllium	3E-08	1E-09	3E-10	4E-09	2E-08	3E-10	4E-09			1E-08			7E-08
Cadmium	4E-06	9E-06	5E-06	2E-05	1E-06	2E-06	2E-07			9E-04			9E-04
Chromium VI	3E-07	2E-07	9E-08	6E-07	8E-06	5E-05	4E-07			2E-06			6E-05
Chromium III	2E-08	6E-10	5E-10	2E-09	5E-08	3E-07	1E-08			8E-12			4E-07
Cobalt	2E-09	9E-10	6E-12	3E-09	9E-08	2E-07	7E-09			0E+00			3E-07
Hydrogen Chloride												8E-04	
Selenium	3E-09	7E-09	8E-09	2E-08	2E-07	6E-06	4E-07			2E-04			2E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	8E-08	5E-07	8E-08	6E-07	1E-06	9E-06	7E-10			3E-04			3E-04
Methylmercury - Neurological Effects	3E-08	2E-07	3E-08	2E-07	5E-07	3E-06	2E-10			9E-05			1E-04

Table IX-D1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-10	5E-10	3E-10	9E-10	2E-07	4E-07	1E-08	1E-07	6E-08	8E-08		1E-09	9E-07
Nickel												1E-10	
Arsenic	3E-11	9E-11	4E-11	2E-10	7E-10	2E-10	3E-11			2E-09		2E-09	3E-09
Beryllium												2E-11	
Cadmium												3E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-09	3E-08	1E-08	4E-08	1E-08	8E-08	5E-10			0E+00		9E-05	2E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	6E-07	2E-06	6E-07	3E-06	9E-06	2E-05	9E-09			0E+00			3E-05
Nickel	5E-09	2E-08	9E-09	4E-08	5E-07	8E-07	2E-08			1E-07			2E-06
Silver	4E-11	4E-09	1E-09	9E-09	7E-08	4E-06	1E-09			0E+00			4E-06
Thallium	2E-06	1E-06	6E-08	2E-06	3E-04	2E-04	2E-05			8E-04			1E-03
Antimony	3E-07	1E-05	3E-06	2E-05	3E-05	3E-05	8E-07			0E+00			1E-04
Arsenic	3E-07	1E-06	4E-07	2E-06	6E-06	2E-06	3E-07			2E-05			3E-05
Barium	5E-07	5E-07	1E-07	8E-07	3E-07	5E-06	2E-08			0E+00		1E-04	8E-06
Beryllium	1E-08	2E-09	3E-10	4E-09	2E-08	1E-10	4E-09			1E-08			5E-08
Cadmium	2E-06	1E-05	6E-06	2E-05	1E-06	8E-07	1E-07			1E-03			1E-03
Chromium VI	1E-07	2E-07	1E-07	5E-07	9E-06	2E-05	3E-07			2E-06			3E-05
Chromium III	7E-09	8E-10	5E-10	2E-09	6E-08	1E-07	1E-08			9E-12			2E-07
Cobalt	7E-10	1E-09	7E-12	2E-09	1E-07	1E-07	6E-09			0E+00			2E-07
Hydrogen Chloride												8E-04	
Selenium	1E-09	9E-09	9E-09	2E-08	2E-07	3E-06	4E-07			2E-04			2E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	3E-08	7E-07	9E-08	5E-07	2E-06	4E-06	6E-10			3E-04			3E-04
Methylmercury - Neurological Effects	1E-08	2E-07	3E-08	2E-07	5E-07	1E-06	2E-10			1E-04			1E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	6E-09	3E-09	0E+00	1E-09	9E-09
2,3,7,8-TCDD-TEQ	Vermilion River	6E-09	6E-08	0E+00	1E-09	7E-08
2,3,7,8-TCDD-TEQ	Colby Lake	6E-09	9E-08	0E+00	1E-09	9E-08
2,3,7,8-TCDD-TEQ	Lake Isabelle	6E-09	2E-07	0E+00	1E-09	2E-07
Nickel	Mississippi River				1E-10	
Nickel	Vermilion River				1E-10	
Nickel	Colby Lake				1E-10	
Nickel	Lake Isabelle				1E-10	
Arsenic	Mississippi River	2E-10	1E-12	0E+00	2E-09	2E-10
Arsenic	Vermilion River	2E-10	5E-11	0E+00	2E-09	3E-10
Arsenic	Colby Lake	2E-10	1E-09	0E+00	2E-09	1E-09
Arsenic	Lake Isabelle	2E-10	1E-09	0E+00	2E-09	1E-09
Beryllium	Mississippi River				2E-11	
Beryllium	Vermilion River				2E-11	
Beryllium	Colby Lake				2E-11	
Beryllium	Lake Isabelle				2E-11	
Cadmium	Mississippi River				3E-09	
Cadmium	Vermilion River				3E-09	
Cadmium	Colby Lake				3E-09	
Cadmium	Lake Isabelle				3E-09	
Chromium VI	Mississippi River				4E-08	
Chromium VI	Vermilion River				4E-08	
Chromium VI	Colby Lake				4E-08	
Chromium VI	Lake Isabelle				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	5E-08	0E+00	0E+00	9E-05	5E-08
Manganese	Vermilion River	5E-08	0E+00	0E+00	9E-05	5E-08
Manganese	Colby Lake	5E-08	0E+00	0E+00	9E-05	5E-08
Manganese	Lake Isabelle	5E-08	0E+00	0E+00	9E-05	5E-08
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Vermilion River				1E-06	
Mercury (elemental)	Colby Lake				1E-06	
Mercury (elemental)	Lake Isabelle				1E-06	
Mercury (divalent)	Mississippi River	1E-05		0E+00		1E-05
Mercury (divalent)	Vermilion River	1E-05		0E+00		1E-05
Mercury (divalent)	Colby Lake	1E-05		0E+00		1E-05
Mercury (divalent)	Lake Isabelle	1E-05		0E+00		1E-05
Nickel	Mississippi River	1E-07	2E-10	0E+00		1E-07
Nickel	Vermilion River	1E-07	7E-09	0E+00		1E-07
Nickel	Colby Lake	1E-07	2E-07	0E+00		3E-07
Nickel	Lake Isabelle	1E-07	1E-07	0E+00		2E-07
Silver	Mississippi River	8E-10	0E+00	0E+00		8E-10
Silver	Vermilion River	8E-10	0E+00	0E+00		8E-10
Silver	Colby Lake	8E-10	0E+00	0E+00		8E-10
Silver	Lake Isabelle	8E-10	0E+00	0E+00		8E-10
Thallium	Mississippi River	3E-05	2E-06	0E+00		3E-05
Thallium	Vermilion River	3E-05	6E-05	0E+00		9E-05
Thallium	Colby Lake	3E-05	1E-03	0E+00		1E-03
Thallium	Lake Isabelle	3E-05	1E-03	0E+00		1E-03

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	5E-06	0E+00	0E+00		5E-06
Antimony	Vermilion River	5E-06	0E+00	0E+00		5E-06
Antimony	Colby Lake	5E-06	0E+00	0E+00		5E-06
Antimony	Lake Isabelle	5E-06	0E+00	0E+00		5E-06
Arsenic	Mississippi River	6E-06	3E-08	0E+00		6E-06
Arsenic	Vermilion River	6E-06	1E-06	0E+00		7E-06
Arsenic	Colby Lake	6E-06	3E-05	0E+00		4E-05
Arsenic	Lake Isabelle	6E-06	3E-05	0E+00		3E-05
Barium	Mississippi River	9E-06	0E+00	0E+00	1E-04	9E-06
Barium	Vermilion River	9E-06	0E+00	0E+00	1E-04	9E-06
Barium	Colby Lake	9E-06	0E+00	0E+00	1E-04	9E-06
Barium	Lake Isabelle	9E-06	0E+00	0E+00	1E-04	9E-06
Beryllium	Mississippi River	2E-07	3E-10	0E+00		2E-07
Beryllium	Vermilion River	2E-07	8E-09	0E+00		2E-07
Beryllium	Colby Lake	2E-07	5E-08	0E+00		3E-07
Beryllium	Lake Isabelle	2E-07	2E-07	0E+00		4E-07
Cadmium	Mississippi River	3E-05	2E-06	0E+00		3E-05
Cadmium	Vermilion River	3E-05	9E-05	0E+00		1E-04
Cadmium	Colby Lake	3E-05	2E-03	0E+00		2E-03
Cadmium	Lake Isabelle	3E-05	2E-03	0E+00		2E-03
Chromium VI	Mississippi River	2E-06	3E-09	0E+00		2E-06
Chromium VI	Vermilion River	2E-06	1E-07	0E+00		2E-06
Chromium VI	Colby Lake	2E-06	3E-06	0E+00		4E-06
Chromium VI	Lake Isabelle	2E-06	2E-06	0E+00		4E-06
Chromium III	Mississippi River	1E-07	5E-12	0E+00		1E-07
Chromium III	Vermilion River	1E-07	1E-10	0E+00		1E-07
Chromium III	Colby Lake	1E-07	1E-10	0E+00		1E-07
Chromium III	Lake Isabelle	1E-07	9E-10	0E+00		1E-07
Cobalt	Mississippi River	1E-08	0E+00	0E+00		1E-08
Cobalt	Vermilion River	1E-08	0E+00	0E+00		1E-08
Cobalt	Colby Lake	1E-08	0E+00	0E+00		1E-08
Cobalt	Lake Isabelle	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Vermilion River				8E-04	
Hydrogen Chloride	Colby Lake				8E-04	
Hydrogen Chloride	Lake Isabelle				8E-04	
Selenium	Mississippi River	2E-08	3E-07	0E+00		3E-07
Selenium	Vermilion River	2E-08	1E-05	0E+00		1E-05
Selenium	Colby Lake	2E-08	2E-04	0E+00		2E-04
Selenium	Lake Isabelle	2E-08	2E-04	0E+00		2E-04
Chlorine	Mississippi River				1E-02	
Chlorine	Vermilion River				1E-02	
Chlorine	Colby Lake				1E-02	
Chlorine	Lake Isabelle				1E-02	
Methylmercury - Developmental Effects	Mississippi River	6E-07	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Vermilion River	6E-07	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Colby Lake	6E-07	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Lake Isabelle	6E-07	8E-04	0E+00		8E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-07	7E-06	0E+00		7E-06
Methylmercury - Neurological Effects	Vermilion River	2E-07	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Colby Lake	2E-07	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Lake Isabelle	2E-07	3E-04	0E+00		3E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-09	4E-09	0E+00	1E-09	6E-09
2,3,7,8-TCDD-TEQ	Vermilion River	2E-09	8E-08	0E+00	1E-09	8E-08
2,3,7,8-TCDD-TEQ	Colby Lake	2E-09	1E-07	0E+00	1E-09	1E-07
2,3,7,8-TCDD-TEQ	Lake Isabelle	2E-09	2E-07	0E+00	1E-09	2E-07
Nickel	Mississippi River				2E-10	
Nickel	Vermilion River				2E-10	
Nickel	Colby Lake				2E-10	
Nickel	Lake Isabelle				2E-10	
Arsenic	Mississippi River	8E-11	2E-12	0E+00	2E-09	8E-11
Arsenic	Vermilion River	8E-11	7E-11	0E+00	2E-09	2E-10
Arsenic	Colby Lake	8E-11	2E-09	0E+00	2E-09	2E-09
Arsenic	Lake Isabelle	8E-11	1E-09	0E+00	2E-09	1E-09
Beryllium	Mississippi River				2E-11	
Beryllium	Vermilion River				2E-11	
Beryllium	Colby Lake				2E-11	
Beryllium	Lake Isabelle				2E-11	
Cadmium	Mississippi River				3E-09	
Cadmium	Vermilion River				3E-09	
Cadmium	Colby Lake				3E-09	
Cadmium	Lake Isabelle				3E-09	
Chromium VI	Mississippi River				4E-08	
Chromium VI	Vermilion River				4E-08	
Chromium VI	Colby Lake				4E-08	
Chromium VI	Lake Isabelle				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	0E+00	9E-05	1E-08
Manganese	Vermilion River	1E-08	0E+00	0E+00	9E-05	1E-08
Manganese	Colby Lake	1E-08	0E+00	0E+00	9E-05	1E-08
Manganese	Lake Isabelle	1E-08	0E+00	0E+00	9E-05	1E-08
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Vermilion River				1E-06	
Mercury (elemental)	Colby Lake				1E-06	
Mercury (elemental)	Lake Isabelle				1E-06	
Mercury (divalent)	Mississippi River	3E-06		0E+00		3E-06
Mercury (divalent)	Vermilion River	3E-06		0E+00		3E-06
Mercury (divalent)	Colby Lake	3E-06		0E+00		3E-06
Mercury (divalent)	Lake Isabelle	3E-06		0E+00		3E-06
Nickel	Mississippi River	3E-08	2E-10	0E+00		3E-08
Nickel	Vermilion River	3E-08	7E-09	0E+00		3E-08
Nickel	Colby Lake	3E-08	2E-07	0E+00		2E-07
Nickel	Lake Isabelle	3E-08	1E-07	0E+00		2E-07
Silver	Mississippi River	2E-10	0E+00	0E+00		2E-10
Silver	Vermilion River	2E-10	0E+00	0E+00		2E-10
Silver	Colby Lake	2E-10	0E+00	0E+00		2E-10
Silver	Lake Isabelle	2E-10	0E+00	0E+00		2E-10
Thallium	Mississippi River	8E-06	2E-06	0E+00		1E-05
Thallium	Vermilion River	8E-06	6E-05	0E+00		7E-05
Thallium	Colby Lake	8E-06	1E-03	0E+00		1E-03
Thallium	Lake Isabelle	8E-06	1E-03	0E+00		1E-03

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-06	0E+00	0E+00		1E-06
Antimony	Vermilion River	1E-06	0E+00	0E+00		1E-06
Antimony	Colby Lake	1E-06	0E+00	0E+00		1E-06
Antimony	Lake Isabelle	1E-06	0E+00	0E+00		1E-06
Arsenic	Mississippi River	1E-06	3E-08	0E+00		1E-06
Arsenic	Vermilion River	1E-06	1E-06	0E+00		3E-06
Arsenic	Colby Lake	1E-06	3E-05	0E+00		3E-05
Arsenic	Lake Isabelle	1E-06	3E-05	0E+00		3E-05
Barium	Mississippi River	2E-06	0E+00	0E+00	1E-04	2E-06
Barium	Vermilion River	2E-06	0E+00	0E+00	1E-04	2E-06
Barium	Colby Lake	2E-06	0E+00	0E+00	1E-04	2E-06
Barium	Lake Isabelle	2E-06	0E+00	0E+00	1E-04	2E-06
Beryllium	Mississippi River	6E-08	3E-10	0E+00		6E-08
Beryllium	Vermilion River	6E-08	8E-09	0E+00		7E-08
Beryllium	Colby Lake	6E-08	5E-08	0E+00		1E-07
Beryllium	Lake Isabelle	6E-08	2E-07	0E+00		2E-07
Cadmium	Mississippi River	7E-06	2E-06	0E+00		1E-05
Cadmium	Vermilion River	7E-06	9E-05	0E+00		1E-04
Cadmium	Colby Lake	7E-06	2E-03	0E+00		2E-03
Cadmium	Lake Isabelle	7E-06	2E-03	0E+00		2E-03
Chromium VI	Mississippi River	5E-07	3E-09	0E+00		5E-07
Chromium VI	Vermilion River	5E-07	1E-07	0E+00		6E-07
Chromium VI	Colby Lake	5E-07	3E-06	0E+00		3E-06
Chromium VI	Lake Isabelle	5E-07	2E-06	0E+00		3E-06
Chromium III	Mississippi River	3E-08	5E-12	0E+00		3E-08
Chromium III	Vermilion River	3E-08	1E-10	0E+00		3E-08
Chromium III	Colby Lake	3E-08	1E-10	0E+00		3E-08
Chromium III	Lake Isabelle	3E-08	9E-10	0E+00		3E-08
Cobalt	Mississippi River	3E-09	0E+00	0E+00		3E-09
Cobalt	Vermilion River	3E-09	0E+00	0E+00		3E-09
Cobalt	Colby Lake	3E-09	0E+00	0E+00		3E-09
Cobalt	Lake Isabelle	3E-09	0E+00	0E+00		3E-09
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Vermilion River				8E-04	
Hydrogen Chloride	Colby Lake				8E-04	
Hydrogen Chloride	Lake Isabelle				8E-04	
Selenium	Mississippi River	6E-09	3E-07	0E+00		3E-07
Selenium	Vermilion River	6E-09	1E-05	0E+00		1E-05
Selenium	Colby Lake	6E-09	2E-04	0E+00		2E-04
Selenium	Lake Isabelle	6E-09	2E-04	0E+00		2E-04
Chlorine	Mississippi River				1E-02	
Chlorine	Vermilion River				1E-02	
Chlorine	Colby Lake				1E-02	
Chlorine	Lake Isabelle				1E-02	
Methylmercury - Developmental Effects	Mississippi River	2E-07	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Vermilion River	2E-07	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Colby Lake	2E-07	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Lake Isabelle	2E-07	8E-04	0E+00		8E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	5E-08	7E-06	0E+00		7E-06
Methylmercury - Neurological Effects	Vermilion River	5E-08	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Colby Lake	5E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Lake Isabelle	5E-08	3E-04	0E+00		3E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-09	3E-09	0E+00	7E-10	4E-09
2,3,7,8-TCDD-TEQ	Vermilion River	1E-09	6E-08	0E+00	7E-10	6E-08
2,3,7,8-TCDD-TEQ	Colby Lake	1E-09	9E-08	0E+00	7E-10	9E-08
2,3,7,8-TCDD-TEQ	Lake Isabelle	1E-09	2E-07	0E+00	7E-10	2E-07
Nickel	Mississippi River				1E-10	
Nickel	Vermilion River				1E-10	
Nickel	Colby Lake				1E-10	
Nickel	Lake Isabelle				1E-10	
Arsenic	Mississippi River	4E-11	1E-12	0E+00	1E-09	4E-11
Arsenic	Vermilion River	4E-11	5E-11	0E+00	1E-09	9E-11
Arsenic	Colby Lake	4E-11	1E-09	0E+00	1E-09	1E-09
Arsenic	Lake Isabelle	4E-11	1E-09	0E+00	1E-09	1E-09
Beryllium	Mississippi River				1E-11	
Beryllium	Vermilion River				1E-11	
Beryllium	Colby Lake				1E-11	
Beryllium	Lake Isabelle				1E-11	
Cadmium	Mississippi River				2E-09	
Cadmium	Vermilion River				2E-09	
Cadmium	Colby Lake				2E-09	
Cadmium	Lake Isabelle				2E-09	
Chromium VI	Mississippi River				3E-08	
Chromium VI	Vermilion River				3E-08	
Chromium VI	Colby Lake				3E-08	
Chromium VI	Lake Isabelle				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	7E-09	0E+00	0E+00	9E-05	7E-09
Manganese	Vermilion River	7E-09	0E+00	0E+00	9E-05	7E-09
Manganese	Colby Lake	7E-09	0E+00	0E+00	9E-05	7E-09
Manganese	Lake Isabelle	7E-09	0E+00	0E+00	9E-05	7E-09
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Vermilion River				1E-06	
Mercury (elemental)	Colby Lake				1E-06	
Mercury (elemental)	Lake Isabelle				1E-06	
Mercury (divalent)	Mississippi River	1E-06		0E+00		1E-06
Mercury (divalent)	Vermilion River	1E-06		0E+00		1E-06
Mercury (divalent)	Colby Lake	1E-06		0E+00		1E-06
Mercury (divalent)	Lake Isabelle	1E-06		0E+00		1E-06
Nickel	Mississippi River	1E-08	1E-10	0E+00		1E-08
Nickel	Vermilion River	1E-08	5E-09	0E+00		2E-08
Nickel	Colby Lake	1E-08	1E-07	0E+00		1E-07
Nickel	Lake Isabelle	1E-08	1E-07	0E+00		1E-07
Silver	Mississippi River	1E-10	0E+00	0E+00		1E-10
Silver	Vermilion River	1E-10	0E+00	0E+00		1E-10
Silver	Colby Lake	1E-10	0E+00	0E+00		1E-10
Silver	Lake Isabelle	1E-10	0E+00	0E+00		1E-10
Thallium	Mississippi River	4E-06	1E-06	0E+00		5E-06
Thallium	Vermilion River	4E-06	4E-05	0E+00		5E-05
Thallium	Colby Lake	4E-06	9E-04	0E+00		9E-04
Thallium	Lake Isabelle	4E-06	8E-04	0E+00		8E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	7E-07	0E+00	0E+00		7E-07
Antimony	Vermilion River	7E-07	0E+00	0E+00		7E-07
Antimony	Colby Lake	7E-07	0E+00	0E+00		7E-07
Antimony	Lake Isabelle	7E-07	0E+00	0E+00		7E-07
Arsenic	Mississippi River	8E-07	2E-08	0E+00		8E-07
Arsenic	Vermilion River	8E-07	9E-07	0E+00		2E-06
Arsenic	Colby Lake	8E-07	2E-05	0E+00		2E-05
Arsenic	Lake Isabelle	8E-07	2E-05	0E+00		2E-05
Barium	Mississippi River	1E-06	0E+00	0E+00	1E-04	1E-06
Barium	Vermilion River	1E-06	0E+00	0E+00	1E-04	1E-06
Barium	Colby Lake	1E-06	0E+00	0E+00	1E-04	1E-06
Barium	Lake Isabelle	1E-06	0E+00	0E+00	1E-04	1E-06
Beryllium	Mississippi River	3E-08	2E-10	0E+00		3E-08
Beryllium	Vermilion River	3E-08	6E-09	0E+00		4E-08
Beryllium	Colby Lake	3E-08	4E-08	0E+00		7E-08
Beryllium	Lake Isabelle	3E-08	1E-07	0E+00		1E-07
Cadmium	Mississippi River	4E-06	2E-06	0E+00		6E-06
Cadmium	Vermilion River	4E-06	6E-05	0E+00		7E-05
Cadmium	Colby Lake	4E-06	1E-03	0E+00		1E-03
Cadmium	Lake Isabelle	4E-06	1E-03	0E+00		1E-03
Chromium VI	Mississippi River	3E-07	2E-09	0E+00		3E-07
Chromium VI	Vermilion River	3E-07	8E-08	0E+00		3E-07
Chromium VI	Colby Lake	3E-07	2E-06	0E+00		2E-06
Chromium VI	Lake Isabelle	3E-07	2E-06	0E+00		2E-06
Chromium III	Mississippi River	2E-08	4E-12	0E+00		2E-08
Chromium III	Vermilion River	2E-08	8E-11	0E+00		2E-08
Chromium III	Colby Lake	2E-08	1E-10	0E+00		2E-08
Chromium III	Lake Isabelle	2E-08	7E-10	0E+00		2E-08
Cobalt	Mississippi River	2E-09	0E+00	0E+00		2E-09
Cobalt	Vermilion River	2E-09	0E+00	0E+00		2E-09
Cobalt	Colby Lake	2E-09	0E+00	0E+00		2E-09
Cobalt	Lake Isabelle	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Vermilion River				8E-04	
Hydrogen Chloride	Colby Lake				8E-04	
Hydrogen Chloride	Lake Isabelle				8E-04	
Selenium	Mississippi River	3E-09	2E-07	0E+00		2E-07
Selenium	Vermilion River	3E-09	7E-06	0E+00		7E-06
Selenium	Colby Lake	3E-09	2E-04	0E+00		2E-04
Selenium	Lake Isabelle	3E-09	1E-04	0E+00		1E-04
Chlorine	Mississippi River				1E-02	
Chlorine	Vermilion River				1E-02	
Chlorine	Colby Lake				1E-02	
Chlorine	Lake Isabelle				1E-02	
Methylmercury - Developmental Effects	Mississippi River	8E-08	1E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Vermilion River	8E-08	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Colby Lake	8E-08	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Lake Isabelle	8E-08	5E-04	0E+00		5E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	3E-08	5E-06	0E+00		5E-06
Methylmercury - Neurological Effects	Vermilion River	3E-08	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Colby Lake	3E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Lake Isabelle	3E-08	2E-04	0E+00		2E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	9E-10	5E-09	0E+00	1E-09	6E-09
2,3,7,8-TCDD-TEQ	Vermilion River	9E-10	1E-07	0E+00	1E-09	1E-07
2,3,7,8-TCDD-TEQ	Colby Lake	9E-10	2E-07	0E+00	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Lake Isabelle	9E-10	3E-07	0E+00	1E-09	3E-07
Nickel	Mississippi River				1E-10	
Nickel	Vermilion River				1E-10	
Nickel	Colby Lake				1E-10	
Nickel	Lake Isabelle				1E-10	
Arsenic	Mississippi River	3E-11	3E-12	0E+00	2E-09	4E-11
Arsenic	Vermilion River	3E-11	1E-10	0E+00	2E-09	1E-10
Arsenic	Colby Lake	3E-11	2E-09	0E+00	2E-09	2E-09
Arsenic	Lake Isabelle	3E-11	2E-09	0E+00	2E-09	2E-09
Beryllium	Mississippi River				2E-11	
Beryllium	Vermilion River				2E-11	
Beryllium	Colby Lake				2E-11	
Beryllium	Lake Isabelle				2E-11	
Cadmium	Mississippi River				3E-09	
Cadmium	Vermilion River				3E-09	
Cadmium	Colby Lake				3E-09	
Cadmium	Lake Isabelle				3E-09	
Chromium VI	Mississippi River				4E-08	
Chromium VI	Vermilion River				4E-08	
Chromium VI	Colby Lake				4E-08	
Chromium VI	Lake Isabelle				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	3E-09	0E+00	0E+00	9E-05	3E-09
Manganese	Vermilion River	3E-09	0E+00	0E+00	9E-05	3E-09
Manganese	Colby Lake	3E-09	0E+00	0E+00	9E-05	3E-09
Manganese	Lake Isabelle	3E-09	0E+00	0E+00	9E-05	3E-09
Mercury (elemental)	Mississippi River				1E-06	
Mercury (elemental)	Vermilion River				1E-06	
Mercury (elemental)	Colby Lake				1E-06	
Mercury (elemental)	Lake Isabelle				1E-06	
Mercury (divalent)	Mississippi River	6E-07		0E+00		6E-07
Mercury (divalent)	Vermilion River	6E-07		0E+00		6E-07
Mercury (divalent)	Colby Lake	6E-07		0E+00		6E-07
Mercury (divalent)	Lake Isabelle	6E-07		0E+00		6E-07
Nickel	Mississippi River	5E-09	1E-10	0E+00		6E-09
Nickel	Vermilion River	5E-09	5E-09	0E+00		1E-08
Nickel	Colby Lake	5E-09	1E-07	0E+00		1E-07
Nickel	Lake Isabelle	5E-09	1E-07	0E+00		1E-07
Silver	Mississippi River	4E-11	0E+00	0E+00		4E-11
Silver	Vermilion River	4E-11	0E+00	0E+00		4E-11
Silver	Colby Lake	4E-11	0E+00	0E+00		4E-11
Silver	Lake Isabelle	4E-11	0E+00	0E+00		4E-11
Thallium	Mississippi River	2E-06	1E-06	0E+00		3E-06
Thallium	Vermilion River	2E-06	4E-05	0E+00		4E-05
Thallium	Colby Lake	2E-06	9E-04	0E+00		9E-04
Thallium	Lake Isabelle	2E-06	8E-04	0E+00		8E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	3E-07	0E+00	0E+00		3E-07
Antimony	Vermilion River	3E-07	0E+00	0E+00		3E-07
Antimony	Colby Lake	3E-07	0E+00	0E+00		3E-07
Antimony	Lake Isabelle	3E-07	0E+00	0E+00		3E-07
Arsenic	Mississippi River	3E-07	2E-08	0E+00		3E-07
Arsenic	Vermilion River	3E-07	9E-07	0E+00		1E-06
Arsenic	Colby Lake	3E-07	2E-05	0E+00		2E-05
Arsenic	Lake Isabelle	3E-07	2E-05	0E+00		2E-05
Barium	Mississippi River	5E-07	0E+00	0E+00	1E-04	5E-07
Barium	Vermilion River	5E-07	0E+00	0E+00	1E-04	5E-07
Barium	Colby Lake	5E-07	0E+00	0E+00	1E-04	5E-07
Barium	Lake Isabelle	5E-07	0E+00	0E+00	1E-04	5E-07
Beryllium	Mississippi River	1E-08	2E-10	0E+00		1E-08
Beryllium	Vermilion River	1E-08	6E-09	0E+00		2E-08
Beryllium	Colby Lake	1E-08	4E-08	0E+00		5E-08
Beryllium	Lake Isabelle	1E-08	1E-07	0E+00		1E-07
Cadmium	Mississippi River	2E-06	2E-06	0E+00		3E-06
Cadmium	Vermilion River	2E-06	6E-05	0E+00		7E-05
Cadmium	Colby Lake	2E-06	1E-03	0E+00		1E-03
Cadmium	Lake Isabelle	2E-06	1E-03	0E+00		1E-03
Chromium VI	Mississippi River	1E-07	2E-09	0E+00		1E-07
Chromium VI	Vermilion River	1E-07	8E-08	0E+00		2E-07
Chromium VI	Colby Lake	1E-07	2E-06	0E+00		2E-06
Chromium VI	Lake Isabelle	1E-07	2E-06	0E+00		2E-06
Chromium III	Mississippi River	7E-09	4E-12	0E+00		7E-09
Chromium III	Vermilion River	7E-09	8E-11	0E+00		7E-09
Chromium III	Colby Lake	7E-09	1E-10	0E+00		7E-09
Chromium III	Lake Isabelle	7E-09	7E-10	0E+00		8E-09
Cobalt	Mississippi River	7E-10	0E+00	0E+00		7E-10
Cobalt	Vermilion River	7E-10	0E+00	0E+00		7E-10
Cobalt	Colby Lake	7E-10	0E+00	0E+00		7E-10
Cobalt	Lake Isabelle	7E-10	0E+00	0E+00		7E-10
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Vermilion River				8E-04	
Hydrogen Chloride	Colby Lake				8E-04	
Hydrogen Chloride	Lake Isabelle				8E-04	
Selenium	Mississippi River	1E-09	2E-07	0E+00		2E-07
Selenium	Vermilion River	1E-09	7E-06	0E+00		7E-06
Selenium	Colby Lake	1E-09	2E-04	0E+00		2E-04
Selenium	Lake Isabelle	1E-09	1E-04	0E+00		1E-04
Chlorine	Mississippi River				1E-02	
Chlorine	Vermilion River				1E-02	
Chlorine	Colby Lake				1E-02	
Chlorine	Lake Isabelle				1E-02	
Methylmercury - Developmental Effects	Mississippi River	3E-08	1E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Vermilion River	3E-08	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Colby Lake	3E-08	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Lake Isabelle	3E-08	5E-04	0E+00		5E-04

Table IX-D2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 334) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	1E-08	5E-06	0E+00		5E-06
Methylmercury - Neurological Effects	Vermilion River	1E-08	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Colby Lake	1E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Lake Isabelle	1E-08	2E-04	0E+00		2E-04

Table IX-D3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	2E-11	5E-12	5E-11	1E-08	1E-07	8E-10	2E-09	1E-09	2E-09		1E-10	2E-07
Nickel												3E-10	
Arsenic	4E-10	1E-10	7E-11	3E-10	8E-10	1E-09	6E-11			4E-09		5E-08	8E-09
Beryllium												3E-12	
Cadmium												1E-10	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-08	6E-09	2E-08	3E-09	2E-07	3E-10			0E+00		3E-04	2E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	7E-04	6E-07	1E-03	6E-04	9E-03	3E-07						1E-02
Nickel	1E-08	6E-09	2E-09	1E-08	1E-07	1E-06	7E-09			4E-08			1E-06
Silver	2E-10	2E-09	6E-10	5E-09	3E-08	1E-05	1E-09			0E+00			1E-05
Thallium	2E-08	1E-09	7E-11	3E-09	3E-07	9E-07	4E-08			1E-06			2E-06
Antimony	4E-07	1E-06	4E-07	3E-06	4E-06	3E-05	2E-07			0E+00			4E-05
Arsenic	1E-05	4E-06	2E-06	8E-06	2E-05	3E-05	2E-06			1E-04			2E-04
Barium	1E-07	1E-08	3E-09	2E-08	5E-09	6E-07	7E-10			0E+00		2E-05	7E-07
Beryllium	4E-09	5E-11	1E-11	1E-10	5E-10	2E-11	2E-10			3E-10			5E-09
Cadmium	9E-08	9E-08	4E-08	2E-07	8E-09	3E-08	1E-09			7E-06			8E-06
Chromium VI	1E-07	3E-08	1E-08	8E-08	1E-06	2E-05	6E-08			3E-07			2E-05
Chromium III	9E-08	1E-09	7E-10	2E-09	7E-08	8E-07	2E-08			1E-11			1E-06
Cobalt	3E-09	5E-10	3E-12	1E-09	4E-08	2E-07	4E-09			0E+00			3E-07
Hydrogen Chloride												8E-03	
Selenium	1E-08	7E-09	8E-09	2E-08	1E-07	1E-05	6E-07			3E-04			3E-04
Chlorine												8E-02	
Methylmercury - Developmental Effects	3E-07	3E-04	8E-08	2E-04	5E-04	8E-03	9E-08			4E-04			9E-03
Methylmercury - Neurological Effects	1E-07	8E-05	3E-08	8E-05	2E-04	3E-03	3E-08			1E-04			3E-03

Table IX-D3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-11	2E-11	4E-12	6E-11	2E-08	9E-08	7E-10	2E-09	1E-09	2E-09		1E-10	1E-07
Nickel												3E-10	
Arsenic	2E-10	1E-10	6E-11	4E-10	1E-09	9E-10	5E-11			4E-09		5E-08	7E-09
Beryllium												4E-12	
Cadmium												2E-10	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-09	6E-09	4E-09	2E-08	4E-09	9E-08	2E-10			0E+00		3E-04	1E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	4E-04	4E-07	1E-03	7E-04	5E-03	2E-07						7E-03
Nickel	3E-09	3E-09	2E-09	1E-08	1E-07	6E-07	4E-09			3E-08			8E-07
Silver	5E-11	1E-09	4E-10	5E-09	4E-08	6E-06	7E-10			0E+00			6E-06
Thallium	4E-09	6E-10	5E-11	3E-09	4E-07	4E-07	2E-08			7E-07			2E-06
Antimony	1E-07	8E-07	3E-07	3E-06	5E-06	1E-05	1E-07			0E+00			2E-05
Arsenic	3E-06	2E-06	1E-06	8E-06	2E-05	2E-05	1E-06			8E-05			1E-04
Barium	3E-08	6E-09	2E-09	2E-08	6E-09	3E-07	4E-10			0E+00		2E-05	4E-07
Beryllium	1E-09	3E-11	7E-12	1E-10	6E-10	1E-11	1E-10			2E-10			2E-09
Cadmium	2E-08	5E-08	3E-08	2E-07	9E-09	1E-08	9E-10			5E-06			6E-06
Chromium VI	3E-08	2E-08	9E-09	8E-08	1E-06	8E-06	4E-08			2E-07			1E-05
Chromium III	2E-08	5E-10	5E-10	2E-09	8E-08	4E-07	1E-08			8E-12			5E-07
Cobalt	7E-10	3E-10	2E-12	1E-09	5E-08	1E-07	2E-09			0E+00			2E-07
Hydrogen Chloride												8E-03	
Selenium	3E-09	4E-09	5E-09	2E-08	2E-07	6E-06	3E-07			2E-04			2E-04
Chlorine												8E-02	
Methylmercury - Developmental Effects	8E-08	1E-04	5E-08	2E-04	6E-04	4E-03	5E-08			3E-04			5E-03
Methylmercury - Neurological Effects	3E-08	5E-05	2E-08	8E-05	2E-04	1E-03	2E-08			1E-04			2E-03

Table IX-D3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	1E-11	3E-12	3E-11	9E-09	4E-08	5E-10	1E-09	6E-10	1E-09		9E-11	6E-08
Nickel												2E-10	
Arsenic	8E-11	9E-11	4E-11	2E-10	6E-10	4E-10	4E-11			2E-09		3E-08	4E-09
Beryllium												3E-12	
Cadmium												1E-10	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-09	5E-09	3E-09	1E-08	2E-09	4E-08	1E-10			0E+00		3E-04	6E-08
Mercury (elemental)												3E-04	
Mercury (divalent)	7E-07	3E-04	3E-07	8E-04	3E-04	2E-03	1E-07			0E+00			4E-03
Nickel	2E-09	2E-09	1E-09	7E-09	7E-08	3E-07	3E-09			2E-08			4E-07
Silver	3E-11	9E-10	3E-10	3E-09	2E-08	3E-06	5E-10			0E+00			3E-06
Thallium	2E-09	4E-10	3E-11	1E-09	2E-07	2E-07	1E-08			4E-07			8E-07
Antimony	5E-08	6E-07	2E-07	2E-06	2E-06	6E-06	7E-08			0E+00			1E-05
Arsenic	1E-06	2E-06	9E-07	4E-06	1E-05	8E-06	6E-07			4E-05			7E-05
Barium	1E-08	4E-09	1E-09	1E-08	3E-09	1E-07	3E-10			0E+00		2E-05	2E-07
Beryllium	5E-10	2E-11	5E-12	6E-11	3E-10	5E-12	7E-11			1E-10			1E-09
Cadmium	1E-08	4E-08	2E-08	8E-08	4E-09	6E-09	6E-10			3E-06			3E-06
Chromium VI	2E-08	1E-08	6E-09	4E-08	5E-07	4E-06	2E-08			1E-07			5E-06
Chromium III	1E-08	4E-10	3E-10	1E-09	4E-08	2E-07	9E-09			4E-12			2E-07
Cobalt	4E-10	2E-10	1E-12	6E-10	2E-08	5E-08	1E-09			0E+00			8E-08
Hydrogen Chloride												8E-03	
Selenium	1E-09	3E-09	4E-09	1E-08	8E-08	3E-06	2E-07			1E-04			1E-04
Chlorine												8E-02	
Methylmercury - Developmental Effects	4E-08	1E-04	4E-08	1E-04	3E-04	2E-03	3E-08			2E-04			2E-03
Methylmercury - Neurological Effects	1E-08	4E-05	1E-08	4E-05	9E-05	6E-04	1E-08			6E-05			8E-04

Table IX-D3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	4E-11	6E-12	6E-11	2E-08	4E-08	7E-10	2E-09	1E-09	3E-09		1E-10	6E-08
Nickel												3E-10	
Arsenic	6E-11	2E-10	8E-11	4E-10	1E-09	4E-10	6E-11			5E-09		5E-08	8E-09
Beryllium												4E-12	
Cadmium												1E-10	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-10	6E-09	3E-09	1E-08	2E-09	2E-08	1E-10			0E+00		3E-04	4E-08
Mercury (elemental)												3E-04	
Mercury (divalent)	3E-07	4E-04	3E-07	7E-04	4E-04	9E-04	9E-08			0E+00			2E-03
Nickel	7E-10	3E-09	1E-09	6E-09	7E-08	1E-07	3E-09			2E-08			2E-07
Silver	1E-11	1E-09	3E-10	3E-09	2E-08	1E-06	4E-10			0E+00			1E-06
Thallium	9E-10	6E-10	4E-11	1E-09	2E-07	9E-08	1E-08			4E-07			7E-07
Antimony	2E-08	8E-07	2E-07	2E-06	3E-06	3E-06	6E-08			0E+00			8E-06
Arsenic	6E-07	2E-06	1E-06	4E-06	1E-05	3E-06	5E-07			5E-05			7E-05
Barium	6E-09	6E-09	1E-09	9E-09	3E-09	6E-08	2E-10			0E+00		2E-05	9E-08
Beryllium	2E-10	3E-11	6E-12	6E-11	3E-10	2E-12	6E-11			1E-10			8E-10
Cadmium	5E-09	5E-08	2E-08	8E-08	5E-09	3E-09	5E-10			3E-06			3E-06
Chromium VI	6E-09	2E-08	7E-09	4E-08	6E-07	2E-06	2E-08			1E-07			2E-06
Chromium III	5E-09	5E-10	4E-10	1E-09	4E-08	8E-08	8E-09			5E-12			1E-07
Cobalt	1E-10	3E-10	2E-12	6E-10	2E-08	2E-08	1E-09			0E+00			5E-08
Hydrogen Chloride												8E-03	
Selenium	6E-10	4E-09	4E-09	1E-08	9E-08	1E-06	2E-07			1E-04			1E-04
Chlorine												8E-02	
Methylmercury - Developmental Effects	2E-08	1E-04	4E-08	1E-04	3E-04	8E-04	3E-08			2E-04			2E-03
Methylmercury - Neurological Effects	6E-09	5E-05	1E-08	4E-05	1E-04	3E-04	1E-08			6E-05			5E-04

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Blue River	1E-10	8E-09	3E-12	1E-10	8E-09
2,3,7,8-TCDD-TEQ	Rock Creek	1E-10	1E-08	3E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Missouri River	1E-10	7E-09	3E-12	1E-10	7E-09
2,3,7,8-TCDD-TEQ	Shoal Creek	1E-10	3E-09	3E-12	1E-10	4E-09
Nickel	Blue River				3E-10	
Nickel	Rock Creek				3E-10	
Nickel	Missouri River				3E-10	
Nickel	Shoal Creek				3E-10	
Arsenic	Blue River	4E-10	2E-09	1E-08	5E-08	2E-08
Arsenic	Rock Creek	4E-10	6E-10	1E-08	5E-08	1E-08
Arsenic	Missouri River	4E-10	1E-09	1E-08	5E-08	2E-08
Arsenic	Shoal Creek	4E-10	4E-09	1E-08	5E-08	2E-08
Beryllium	Blue River				3E-12	
Beryllium	Rock Creek				3E-12	
Beryllium	Missouri River				3E-12	
Beryllium	Shoal Creek				3E-12	
Cadmium	Blue River				1E-10	
Cadmium	Rock Creek				1E-10	
Cadmium	Missouri River				1E-10	
Cadmium	Shoal Creek				1E-10	
Chromium VI	Blue River				4E-08	
Chromium VI	Rock Creek				4E-08	
Chromium VI	Missouri River				4E-08	
Chromium VI	Shoal Creek				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Blue River	1E-08	0E+00	1E-07	3E-04	1E-07
Manganese	Rock Creek	1E-08	0E+00	1E-07	3E-04	1E-07
Manganese	Missouri River	1E-08	0E+00	1E-07	3E-04	1E-07
Manganese	Shoal Creek	1E-08	0E+00	1E-07	3E-04	1E-07
Mercury (elemental)	Blue River				3E-04	
Mercury (elemental)	Rock Creek				3E-04	
Mercury (elemental)	Missouri River				3E-04	
Mercury (elemental)	Shoal Creek				3E-04	
Mercury (divalent)	Blue River	5E-06		0E+00		5E-06
Mercury (divalent)	Rock Creek	5E-06		0E+00		5E-06
Mercury (divalent)	Missouri River	5E-06		0E+00		5E-06
Mercury (divalent)	Shoal Creek	5E-06		0E+00		5E-06
Nickel	Blue River	1E-08	1E-08	5E-07		6E-07
Nickel	Rock Creek	1E-08	6E-09	5E-07		6E-07
Nickel	Missouri River	1E-08	1E-08	5E-07		6E-07
Nickel	Shoal Creek	1E-08	4E-08	5E-07		6E-07
Silver	Blue River	2E-10	0E+00	3E-07		3E-07
Silver	Rock Creek	2E-10	0E+00	3E-07		3E-07
Silver	Missouri River	2E-10	0E+00	3E-07		3E-07
Silver	Shoal Creek	2E-10	0E+00	3E-07		3E-07
Thallium	Blue River	2E-08	4E-07	2E-07		7E-07
Thallium	Rock Creek	2E-08	2E-07	2E-07		4E-07
Thallium	Missouri River	2E-08	4E-07	2E-07		6E-07
Thallium	Shoal Creek	2E-08	1E-06	2E-07		1E-06

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Blue River	4E-07	0E+00	2E-04		2E-04
Antimony	Rock Creek	4E-07	0E+00	2E-04		2E-04
Antimony	Missouri River	4E-07	0E+00	2E-04		2E-04
Antimony	Shoal Creek	4E-07	0E+00	2E-04		2E-04
Arsenic	Blue River	1E-05	4E-05	3E-04		4E-04
Arsenic	Rock Creek	1E-05	2E-05	3E-04		4E-04
Arsenic	Missouri River	1E-05	4E-05	3E-04		4E-04
Arsenic	Shoal Creek	1E-05	1E-04	3E-04		5E-04
Barium	Blue River	1E-07	0E+00	2E-08	2E-05	1E-07
Barium	Rock Creek	1E-07	0E+00	2E-08	2E-05	1E-07
Barium	Missouri River	1E-07	0E+00	2E-08	2E-05	1E-07
Barium	Shoal Creek	1E-07	0E+00	2E-08	2E-05	1E-07
Beryllium	Blue River	4E-09	1E-09	2E-09		7E-09
Beryllium	Rock Creek	4E-09	2E-09	2E-09		7E-09
Beryllium	Missouri River	4E-09	1E-09	2E-09		7E-09
Beryllium	Shoal Creek	4E-09	7E-10	2E-09		6E-09
Cadmium	Blue River	9E-08	4E-06	1E-06		6E-06
Cadmium	Rock Creek	9E-08	2E-06	1E-06		3E-06
Cadmium	Missouri River	9E-08	4E-06	1E-06		5E-06
Cadmium	Shoal Creek	9E-08	8E-06	1E-06		1E-05
Chromium VI	Blue River	1E-07	1E-07	5E-06		6E-06
Chromium VI	Rock Creek	1E-07	4E-08	5E-06		6E-06
Chromium VI	Missouri River	1E-07	1E-07	5E-06		6E-06
Chromium VI	Shoal Creek	1E-07	3E-07	5E-06		6E-06
Chromium III	Blue River	9E-08	4E-10	6E-11		9E-08
Chromium III	Rock Creek	9E-08	1E-09	6E-11		9E-08
Chromium III	Missouri River	9E-08	4E-10	6E-11		9E-08
Chromium III	Shoal Creek	9E-08	2E-10	6E-11		9E-08
Cobalt	Blue River	3E-09	0E+00	6E-11		3E-09
Cobalt	Rock Creek	3E-09	0E+00	6E-11		3E-09
Cobalt	Missouri River	3E-09	0E+00	6E-11		3E-09
Cobalt	Shoal Creek	3E-09	0E+00	6E-11		3E-09
Hydrogen Chloride	Blue River				8E-03	
Hydrogen Chloride	Rock Creek				8E-03	
Hydrogen Chloride	Missouri River				8E-03	
Hydrogen Chloride	Shoal Creek				8E-03	
Selenium	Blue River	1E-08	8E-05	2E-06		8E-05
Selenium	Rock Creek	1E-08	3E-05	2E-06		3E-05
Selenium	Missouri River	1E-08	7E-05	2E-06		8E-05
Selenium	Shoal Creek	1E-08	2E-04	2E-06		2E-04
Chlorine	Blue River				8E-02	
Chlorine	Rock Creek				8E-02	
Chlorine	Missouri River				8E-02	
Chlorine	Shoal Creek				8E-02	
Methylmercury - Developmental Effects	Blue River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Rock Creek	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Missouri River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Shoal Creek	3E-07	0E+00	0E+00		3E-07

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Blue River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Rock Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Missouri River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Shoal Creek	1E-07	0E+00	0E+00		1E-07

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Blue River	3E-11	1E-08	2E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Rock Creek	3E-11	2E-08	2E-12	1E-10	2E-08
2,3,7,8-TCDD-TEQ	Missouri River	3E-11	1E-08	2E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Shoal Creek	3E-11	5E-09	2E-12	1E-10	5E-09
Nickel	Blue River				3E-10	
Nickel	Rock Creek				3E-10	
Nickel	Missouri River				3E-10	
Nickel	Shoal Creek				3E-10	
Arsenic	Blue River	2E-10	2E-09	1E-08	5E-08	1E-08
Arsenic	Rock Creek	2E-10	9E-10	1E-08	5E-08	1E-08
Arsenic	Missouri River	2E-10	2E-09	1E-08	5E-08	1E-08
Arsenic	Shoal Creek	2E-10	6E-09	1E-08	5E-08	2E-08
Beryllium	Blue River				4E-12	
Beryllium	Rock Creek				4E-12	
Beryllium	Missouri River				4E-12	
Beryllium	Shoal Creek				4E-12	
Cadmium	Blue River				2E-10	
Cadmium	Rock Creek				2E-10	
Cadmium	Missouri River				2E-10	
Cadmium	Shoal Creek				2E-10	
Chromium VI	Blue River				4E-08	
Chromium VI	Rock Creek				4E-08	
Chromium VI	Missouri River				4E-08	
Chromium VI	Shoal Creek				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Blue River	3E-09	0E+00	8E-08	3E-04	8E-08
Manganese	Rock Creek	3E-09	0E+00	8E-08	3E-04	8E-08
Manganese	Missouri River	3E-09	0E+00	8E-08	3E-04	8E-08
Manganese	Shoal Creek	3E-09	0E+00	8E-08	3E-04	8E-08
Mercury (elemental)	Blue River				3E-04	
Mercury (elemental)	Rock Creek				3E-04	
Mercury (elemental)	Missouri River				3E-04	
Mercury (elemental)	Shoal Creek				3E-04	
Mercury (divalent)	Blue River	1E-06		0E+00		1E-06
Mercury (divalent)	Rock Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Missouri River	1E-06		0E+00		1E-06
Mercury (divalent)	Shoal Creek	1E-06		0E+00		1E-06
Nickel	Blue River	3E-09	1E-08	3E-07		3E-07
Nickel	Rock Creek	3E-09	6E-09	3E-07		3E-07
Nickel	Missouri River	3E-09	1E-08	3E-07		3E-07
Nickel	Shoal Creek	3E-09	4E-08	3E-07		4E-07
Silver	Blue River	5E-11	0E+00	2E-07		2E-07
Silver	Rock Creek	5E-11	0E+00	2E-07		2E-07
Silver	Missouri River	5E-11	0E+00	2E-07		2E-07
Silver	Shoal Creek	5E-11	0E+00	2E-07		2E-07
Thallium	Blue River	4E-09	4E-07	1E-07		6E-07
Thallium	Rock Creek	4E-09	2E-07	1E-07		3E-07
Thallium	Missouri River	4E-09	4E-07	1E-07		5E-07
Thallium	Shoal Creek	4E-09	1E-06	1E-07		1E-06

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Blue River	1E-07	0E+00	1E-04		1E-04
Antimony	Rock Creek	1E-07	0E+00	1E-04		1E-04
Antimony	Missouri River	1E-07	0E+00	1E-04		1E-04
Antimony	Shoal Creek	1E-07	0E+00	1E-04		1E-04
Arsenic	Blue River	3E-06	4E-05	2E-04		2E-04
Arsenic	Rock Creek	3E-06	2E-05	2E-04		2E-04
Arsenic	Missouri River	3E-06	4E-05	2E-04		2E-04
Arsenic	Shoal Creek	3E-06	1E-04	2E-04		3E-04
Barium	Blue River	3E-08	0E+00	1E-08	2E-05	4E-08
Barium	Rock Creek	3E-08	0E+00	1E-08	2E-05	4E-08
Barium	Missouri River	3E-08	0E+00	1E-08	2E-05	4E-08
Barium	Shoal Creek	3E-08	0E+00	1E-08	2E-05	4E-08
Beryllium	Blue River	1E-09	1E-09	9E-10		3E-09
Beryllium	Rock Creek	1E-09	2E-09	9E-10		3E-09
Beryllium	Missouri River	1E-09	1E-09	9E-10		3E-09
Beryllium	Shoal Creek	1E-09	7E-10	9E-10		3E-09
Cadmium	Blue River	2E-08	4E-06	8E-07		5E-06
Cadmium	Rock Creek	2E-08	2E-06	8E-07		3E-06
Cadmium	Missouri River	2E-08	4E-06	8E-07		5E-06
Cadmium	Shoal Creek	2E-08	8E-06	8E-07		9E-06
Chromium VI	Blue River	3E-08	1E-07	3E-06		3E-06
Chromium VI	Rock Creek	3E-08	4E-08	3E-06		3E-06
Chromium VI	Missouri River	3E-08	1E-07	3E-06		3E-06
Chromium VI	Shoal Creek	3E-08	3E-07	3E-06		3E-06
Chromium III	Blue River	2E-08	4E-10	3E-11		2E-08
Chromium III	Rock Creek	2E-08	1E-09	3E-11		2E-08
Chromium III	Missouri River	2E-08	4E-10	3E-11		2E-08
Chromium III	Shoal Creek	2E-08	2E-10	3E-11		2E-08
Cobalt	Blue River	7E-10	0E+00	3E-11		7E-10
Cobalt	Rock Creek	7E-10	0E+00	3E-11		7E-10
Cobalt	Missouri River	7E-10	0E+00	3E-11		7E-10
Cobalt	Shoal Creek	7E-10	0E+00	3E-11		7E-10
Hydrogen Chloride	Blue River				8E-03	
Hydrogen Chloride	Rock Creek				8E-03	
Hydrogen Chloride	Missouri River				8E-03	
Hydrogen Chloride	Shoal Creek				8E-03	
Selenium	Blue River	3E-09	8E-05	1E-06		8E-05
Selenium	Rock Creek	3E-09	3E-05	1E-06		3E-05
Selenium	Missouri River	3E-09	7E-05	1E-06		8E-05
Selenium	Shoal Creek	3E-09	2E-04	1E-06		2E-04
Chlorine	Blue River				8E-02	
Chlorine	Rock Creek				8E-02	
Chlorine	Missouri River				8E-02	
Chlorine	Shoal Creek				8E-02	
Methylmercury - Developmental Effects	Blue River	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Rock Creek	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Missouri River	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Shoal Creek	8E-08	0E+00	0E+00		8E-08

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Blue River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Rock Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Missouri River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Shoal Creek	3E-08	0E+00	0E+00		3E-08

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Blue River	2E-11	7E-09	2E-12	9E-11	8E-09
2,3,7,8-TCDD-TEQ	Rock Creek	2E-11	1E-08	2E-12	9E-11	1E-08
2,3,7,8-TCDD-TEQ	Missouri River	2E-11	7E-09	2E-12	9E-11	7E-09
2,3,7,8-TCDD-TEQ	Shoal Creek	2E-11	3E-09	2E-12	9E-11	3E-09
Nickel	Blue River				2E-10	
Nickel	Rock Creek				2E-10	
Nickel	Missouri River				2E-10	
Nickel	Shoal Creek				2E-10	
Arsenic	Blue River	8E-11	2E-09	7E-09	3E-08	9E-09
Arsenic	Rock Creek	8E-11	6E-10	7E-09	3E-08	8E-09
Arsenic	Missouri River	8E-11	1E-09	7E-09	3E-08	8E-09
Arsenic	Shoal Creek	8E-11	4E-09	7E-09	3E-08	1E-08
Beryllium	Blue River				3E-12	
Beryllium	Rock Creek				3E-12	
Beryllium	Missouri River				3E-12	
Beryllium	Shoal Creek				3E-12	
Cadmium	Blue River				1E-10	
Cadmium	Rock Creek				1E-10	
Cadmium	Missouri River				1E-10	
Cadmium	Shoal Creek				1E-10	
Chromium VI	Blue River				3E-08	
Chromium VI	Rock Creek				3E-08	
Chromium VI	Missouri River				3E-08	
Chromium VI	Shoal Creek				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Blue River	1E-09	0E+00	5E-08	3E-04	5E-08
Manganese	Rock Creek	1E-09	0E+00	5E-08	3E-04	5E-08
Manganese	Missouri River	1E-09	0E+00	5E-08	3E-04	5E-08
Manganese	Shoal Creek	1E-09	0E+00	5E-08	3E-04	5E-08
Mercury (elemental)	Blue River				3E-04	
Mercury (elemental)	Rock Creek				3E-04	
Mercury (elemental)	Missouri River				3E-04	
Mercury (elemental)	Shoal Creek				3E-04	
Mercury (divalent)	Blue River	7E-07		0E+00		7E-07
Mercury (divalent)	Rock Creek	7E-07		0E+00		7E-07
Mercury (divalent)	Missouri River	7E-07		0E+00		7E-07
Mercury (divalent)	Shoal Creek	7E-07		0E+00		7E-07
Nickel	Blue River	2E-09	1E-08	2E-07		2E-07
Nickel	Rock Creek	2E-09	4E-09	2E-07		2E-07
Nickel	Missouri River	2E-09	9E-09	2E-07		2E-07
Nickel	Shoal Creek	2E-09	3E-08	2E-07		2E-07
Silver	Blue River	3E-11	0E+00	1E-07		1E-07
Silver	Rock Creek	3E-11	0E+00	1E-07		1E-07
Silver	Missouri River	3E-11	0E+00	1E-07		1E-07
Silver	Shoal Creek	3E-11	0E+00	1E-07		1E-07
Thallium	Blue River	2E-09	3E-07	7E-08		4E-07
Thallium	Rock Creek	2E-09	1E-07	7E-08		2E-07
Thallium	Missouri River	2E-09	3E-07	7E-08		4E-07
Thallium	Shoal Creek	2E-09	7E-07	7E-08		8E-07

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Blue River	5E-08	0E+00	6E-05		6E-05
Antimony	Rock Creek	5E-08	0E+00	6E-05		6E-05
Antimony	Missouri River	5E-08	0E+00	6E-05		6E-05
Antimony	Shoal Creek	5E-08	0E+00	6E-05		6E-05
Arsenic	Blue River	1E-06	3E-05	1E-04		2E-04
Arsenic	Rock Creek	1E-06	1E-05	1E-04		1E-04
Arsenic	Missouri River	1E-06	3E-05	1E-04		2E-04
Arsenic	Shoal Creek	1E-06	7E-05	1E-04		2E-04
Barium	Blue River	1E-08	0E+00	9E-09	2E-05	2E-08
Barium	Rock Creek	1E-08	0E+00	9E-09	2E-05	2E-08
Barium	Missouri River	1E-08	0E+00	9E-09	2E-05	2E-08
Barium	Shoal Creek	1E-08	0E+00	9E-09	2E-05	2E-08
Beryllium	Blue River	5E-10	9E-10	5E-10		2E-09
Beryllium	Rock Creek	5E-10	1E-09	5E-10		2E-09
Beryllium	Missouri River	5E-10	1E-09	5E-10		2E-09
Beryllium	Shoal Creek	5E-10	5E-10	5E-10		2E-09
Cadmium	Blue River	1E-08	3E-06	5E-07		3E-06
Cadmium	Rock Creek	1E-08	1E-06	5E-07		2E-06
Cadmium	Missouri River	1E-08	3E-06	5E-07		3E-06
Cadmium	Shoal Creek	1E-08	6E-06	5E-07		6E-06
Chromium VI	Blue River	2E-08	8E-08	2E-06		2E-06
Chromium VI	Rock Creek	2E-08	3E-08	2E-06		2E-06
Chromium VI	Missouri River	2E-08	7E-08	2E-06		2E-06
Chromium VI	Shoal Creek	2E-08	2E-07	2E-06		2E-06
Chromium III	Blue River	1E-08	3E-10	2E-11		1E-08
Chromium III	Rock Creek	1E-08	7E-10	2E-11		1E-08
Chromium III	Missouri River	1E-08	3E-10	2E-11		1E-08
Chromium III	Shoal Creek	1E-08	1E-10	2E-11		1E-08
Cobalt	Blue River	4E-10	0E+00	2E-08		2E-08
Cobalt	Rock Creek	4E-10	0E+00	2E-08		2E-08
Cobalt	Missouri River	4E-10	0E+00	2E-08		2E-08
Cobalt	Shoal Creek	4E-10	0E+00	2E-08		2E-08
Hydrogen Chloride	Blue River				8E-03	
Hydrogen Chloride	Rock Creek				8E-03	
Hydrogen Chloride	Missouri River				8E-03	
Hydrogen Chloride	Shoal Creek				8E-03	
Selenium	Blue River	1E-09	6E-05	7E-07		6E-05
Selenium	Rock Creek	1E-09	2E-05	7E-07		2E-05
Selenium	Missouri River	1E-09	5E-05	7E-07		5E-05
Selenium	Shoal Creek	1E-09	2E-04	7E-07		2E-04
Chlorine	Blue River				8E-02	
Chlorine	Rock Creek				8E-02	
Chlorine	Missouri River				8E-02	
Chlorine	Shoal Creek				8E-02	
Methylmercury - Developmental Effects	Blue River	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	Rock Creek	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	Missouri River	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	Shoal Creek	4E-08	0E+00	0E+00		4E-08

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Blue River	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Rock Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Missouri River	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Shoal Creek	1E-08	0E+00	0E+00		1E-08

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Blue River	1E-11	1E-08	3E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Rock Creek	1E-11	2E-08	3E-12	1E-10	2E-08
2,3,7,8-TCDD-TEQ	Missouri River	1E-11	1E-08	3E-12	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Shoal Creek	1E-11	6E-09	3E-12	1E-10	6E-09
Nickel	Blue River				3E-10	
Nickel	Rock Creek				3E-10	
Nickel	Missouri River				3E-10	
Nickel	Shoal Creek				3E-10	
Arsenic	Blue River	6E-11	3E-09	2E-08	5E-08	2E-08
Arsenic	Rock Creek	6E-11	1E-09	2E-08	5E-08	2E-08
Arsenic	Missouri River	6E-11	3E-09	2E-08	5E-08	2E-08
Arsenic	Shoal Creek	6E-11	8E-09	2E-08	5E-08	2E-08
Beryllium	Blue River				4E-12	
Beryllium	Rock Creek				4E-12	
Beryllium	Missouri River				4E-12	
Beryllium	Shoal Creek				4E-12	
Cadmium	Blue River				1E-10	
Cadmium	Rock Creek				1E-10	
Cadmium	Missouri River				1E-10	
Cadmium	Shoal Creek				1E-10	
Chromium VI	Blue River				4E-08	
Chromium VI	Rock Creek				4E-08	
Chromium VI	Missouri River				4E-08	
Chromium VI	Shoal Creek				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Blue River	5E-10	0E+00	6E-08	3E-04	6E-08
Manganese	Rock Creek	5E-10	0E+00	6E-08	3E-04	6E-08
Manganese	Missouri River	5E-10	0E+00	6E-08	3E-04	6E-08
Manganese	Shoal Creek	5E-10	0E+00	6E-08	3E-04	6E-08
Mercury (elemental)	Blue River				3E-04	
Mercury (elemental)	Rock Creek				3E-04	
Mercury (elemental)	Missouri River				3E-04	
Mercury (elemental)	Shoal Creek				3E-04	
Mercury (divalent)	Blue River	3E-07		0E+00		3E-07
Mercury (divalent)	Rock Creek	3E-07		0E+00		3E-07
Mercury (divalent)	Missouri River	3E-07		0E+00		3E-07
Mercury (divalent)	Shoal Creek	3E-07		0E+00		3E-07
Nickel	Blue River	7E-10	1E-08	2E-07		2E-07
Nickel	Rock Creek	7E-10	4E-09	2E-07		2E-07
Nickel	Missouri River	7E-10	9E-09	2E-07		2E-07
Nickel	Shoal Creek	7E-10	3E-08	2E-07		3E-07
Silver	Blue River	1E-11	0E+00	1E-07		1E-07
Silver	Rock Creek	1E-11	0E+00	1E-07		1E-07
Silver	Missouri River	1E-11	0E+00	1E-07		1E-07
Silver	Shoal Creek	1E-11	0E+00	1E-07		1E-07
Thallium	Blue River	9E-10	3E-07	9E-08		4E-07
Thallium	Rock Creek	9E-10	1E-07	9E-08		2E-07
Thallium	Missouri River	9E-10	3E-07	9E-08		4E-07
Thallium	Shoal Creek	9E-10	7E-07	9E-08		8E-07

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Blue River	2E-08	0E+00	7E-05		7E-05
Antimony	Rock Creek	2E-08	0E+00	7E-05		7E-05
Antimony	Missouri River	2E-08	0E+00	7E-05		7E-05
Antimony	Shoal Creek	2E-08	0E+00	7E-05		7E-05
Arsenic	Blue River	6E-07	3E-05	1E-04		2E-04
Arsenic	Rock Creek	6E-07	1E-05	1E-04		2E-04
Arsenic	Missouri River	6E-07	3E-05	1E-04		2E-04
Arsenic	Shoal Creek	6E-07	7E-05	1E-04		2E-04
Barium	Blue River	6E-09	0E+00	1E-08	2E-05	2E-08
Barium	Rock Creek	6E-09	0E+00	1E-08	2E-05	2E-08
Barium	Missouri River	6E-09	0E+00	1E-08	2E-05	2E-08
Barium	Shoal Creek	6E-09	0E+00	1E-08	2E-05	2E-08
Beryllium	Blue River	2E-10	9E-10	6E-10		2E-09
Beryllium	Rock Creek	2E-10	1E-09	6E-10		2E-09
Beryllium	Missouri River	2E-10	1E-09	6E-10		2E-09
Beryllium	Shoal Creek	2E-10	5E-10	6E-10		1E-09
Cadmium	Blue River	5E-09	3E-06	6E-07		3E-06
Cadmium	Rock Creek	5E-09	1E-06	6E-07		2E-06
Cadmium	Missouri River	5E-09	3E-06	6E-07		3E-06
Cadmium	Shoal Creek	5E-09	6E-06	6E-07		6E-06
Chromium VI	Blue River	6E-09	8E-08	2E-06		2E-06
Chromium VI	Rock Creek	6E-09	3E-08	2E-06		2E-06
Chromium VI	Missouri River	6E-09	7E-08	2E-06		2E-06
Chromium VI	Shoal Creek	6E-09	2E-07	2E-06		3E-06
Chromium III	Blue River	5E-09	3E-10	3E-11		5E-09
Chromium III	Rock Creek	5E-09	7E-10	3E-11		6E-09
Chromium III	Missouri River	5E-09	3E-10	3E-11		5E-09
Chromium III	Shoal Creek	5E-09	1E-10	3E-11		5E-09
Cobalt	Blue River	1E-10	0E+00	2E-08		2E-08
Cobalt	Rock Creek	1E-10	0E+00	2E-08		2E-08
Cobalt	Missouri River	1E-10	0E+00	2E-08		2E-08
Cobalt	Shoal Creek	1E-10	0E+00	2E-08		2E-08
Hydrogen Chloride	Blue River				8E-03	
Hydrogen Chloride	Rock Creek				8E-03	
Hydrogen Chloride	Missouri River				8E-03	
Hydrogen Chloride	Shoal Creek				8E-03	
Selenium	Blue River	6E-10	6E-05	8E-07		6E-05
Selenium	Rock Creek	6E-10	2E-05	8E-07		2E-05
Selenium	Missouri River	6E-10	5E-05	8E-07		5E-05
Selenium	Shoal Creek	6E-10	2E-04	8E-07		2E-04
Chlorine	Blue River				8E-02	
Chlorine	Rock Creek				8E-02	
Chlorine	Missouri River				8E-02	
Chlorine	Shoal Creek				8E-02	
Methylmercury - Developmental Effects	Blue River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Rock Creek	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Missouri River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Shoal Creek	2E-08	0E+00	0E+00		2E-08

Table IX-D4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 463) - Sector 13

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Blue River	6E-09	0E+00	0E+00		6E-09
Methylmercury - Neurological Effects	Rock Creek	6E-09	0E+00	0E+00		6E-09
Methylmercury - Neurological Effects	Missouri River	6E-09	0E+00	0E+00		6E-09
Methylmercury - Neurological Effects	Shoal Creek	6E-09	0E+00	0E+00		6E-09

Table IX-D5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	4E-11	7E-11	1E-10	2E-08	2E-07	4E-09	3E-08	2E-08	3E-08	1E-10	1E-10	3E-07
Nickel												7E-11	
Arsenic	7E-12	2E-12	1E-12	4E-12	9E-12	1E-11	9E-13			5E-11	4E-11	5E-11	1E-10
Beryllium												2E-09	
Cadmium												1E-09	
Chromium VI												8E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-08	9E-09	3E-08	5E-09	3E-07	5E-10			0E+00	4E-08	3E-05	4E-07
Mercury (elemental)												8E-08	
Mercury (divalent)	NA	2E-07	9E-08	4E-07	9E-07	1E-05	2E-09				7E-08		1E-05
Nickel	5E-08	2E-08	9E-09	5E-08	4E-07	4E-06	3E-08			1E-07	4E-07		5E-06
Silver	3E-10	3E-09	1E-09	8E-09	4E-08	2E-05	2E-09			0E+00	1E-07		2E-05
Thallium	5E-08	3E-09	2E-10	7E-09	8E-07	2E-06	1E-07			3E-06	1E-07		6E-06
Antimony	3E-06	1E-05	3E-06	2E-05	2E-05	1E-04	1E-06			0E+00	3E-04		4E-04
Arsenic	2E-07	5E-08	3E-08	1E-07	2E-07	4E-07	2E-08			1E-06	1E-06		3E-06
Barium	5E-08	5E-09	1E-09	1E-08	2E-09	3E-07	4E-10			0E+00	9E-09	6E-07	4E-07
Beryllium	3E-05	4E-07	8E-08	9E-07	4E-06	2E-07	1E-06			3E-06	6E-06		5E-05
Cadmium	1E-05	1E-05	6E-06	2E-05	1E-06	4E-06	2E-07			1E-03	4E-05		1E-03
Chromium VI	4E-07	8E-08	4E-08	2E-07	3E-06	5E-05	2E-07			8E-07	4E-06		5E-05
Chromium III	7E-08	7E-10	5E-10	2E-09	5E-08	6E-07	2E-08			1E-11	2E-10		7E-07
Cobalt	4E-09	7E-10	4E-12	2E-09	6E-08	3E-07	6E-09			0E+00	2E-08		4E-07
Hydrogen Chloride												2E-04	
Selenium	1E-09	5E-10	7E-10	1E-09	9E-09	8E-07	4E-08			2E-05	4E-08		2E-05
Chlorine												6E-03	
Methylmercury - Developmental Effects	5E-08	7E-08	1E-08	7E-08	2E-07	2E-06	1E-10			7E-05	5E-10		8E-05
Methylmercury - Neurological Effects	2E-08	2E-08	4E-09	2E-08	6E-08	8E-07	5E-11			2E-05	2E-10		3E-05

Table IX-D5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	3E-11	6E-11	1E-10	3E-08	1E-07	3E-09	3E-08	2E-08	3E-08	9E-11	2E-10	3E-07
Nickel												9E-11	
Arsenic	2E-12	2E-12	9E-13	6E-12	1E-11	1E-11	7E-13			6E-11	3E-11	6E-11	1E-10
Beryllium												2E-09	
Cadmium												2E-09	
Chromium VI												9E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-09	9E-09	6E-09	3E-08	6E-09	1E-07	3E-10			0E+00	2E-08	3E-05	2E-07
Mercury (elemental)												8E-08	
Mercury (divalent)	NA	1E-07	6E-08	4E-07	1E-06	5E-06	1E-09				4E-08		7E-06
Nickel	1E-08	1E-08	6E-09	4E-08	5E-07	2E-06	2E-08			1E-07	2E-07		3E-06
Silver	8E-11	2E-09	7E-10	7E-09	5E-08	9E-06	1E-09			0E+00	6E-08		9E-06
Thallium	1E-08	2E-09	1E-10	7E-09	1E-06	1E-06	7E-08			2E-06	7E-08		4E-06
Antimony	8E-07	5E-06	2E-06	2E-05	3E-05	7E-05	6E-07			0E+00	1E-04		3E-04
Arsenic	4E-08	3E-08	2E-08	1E-07	3E-07	2E-07	1E-08			1E-06	6E-07		2E-06
Barium	1E-08	3E-09	9E-10	9E-09	3E-09	1E-07	2E-10			0E+00	5E-09	6E-07	2E-07
Beryllium	8E-06	2E-07	5E-08	8E-07	5E-06	8E-08	8E-07			3E-06	3E-06		2E-05
Cadmium	4E-06	7E-06	4E-06	2E-05	1E-06	2E-06	1E-07			8E-04	2E-05		9E-04
Chromium VI	1E-07	5E-08	3E-08	2E-07	3E-06	2E-05	1E-07			6E-07	2E-06		3E-05
Chromium III	2E-08	4E-10	4E-10	2E-09	6E-08	3E-07	1E-08			9E-12	9E-11		4E-07
Cobalt	1E-09	4E-10	3E-12	2E-09	7E-08	2E-07	3E-09			0E+00	1E-08		2E-07
Hydrogen Chloride												2E-04	
Selenium	3E-10	3E-10	5E-10	1E-09	1E-08	4E-07	2E-08			1E-05	2E-08		1E-05
Chlorine												6E-03	
Methylmercury - Developmental Effects	1E-08	4E-08	8E-09	7E-08	2E-07	1E-06	8E-11			5E-05	3E-10		6E-05
Methylmercury - Neurological Effects	4E-09	1E-08	3E-09	2E-08	7E-08	4E-07	3E-11			2E-05	1E-10		2E-05

Table IX-D5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	3E-11	4E-11	7E-11	2E-08	7E-08	2E-09	2E-08	1E-08	2E-08	6E-11	1E-10	1E-07
Nickel												6E-11	
Arsenic	1E-12	1E-12	7E-13	3E-12	7E-12	5E-12	5E-13			3E-11	2E-11	4E-11	7E-11
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	7E-09	4E-09	2E-08	3E-09	6E-08	2E-10			0E+00	2E-08	3E-05	1E-07
Mercury (elemental)												8E-08	
Mercury (divalent)	1E-07	9E-08	4E-08	2E-07	5E-07	2E-06	8E-10			0E+00	3E-08		3E-06
Nickel	7E-09	9E-09	5E-09	2E-08	2E-07	9E-07	1E-08			5E-08	1E-07		1E-06
Silver	4E-11	1E-09	5E-10	4E-09	2E-08	4E-06	6E-10			0E+00	4E-08		4E-06
Thallium	7E-09	1E-09	1E-10	4E-09	4E-07	5E-07	4E-08			1E-06	4E-08		2E-06
Antimony	4E-07	4E-06	2E-06	1E-05	1E-05	3E-05	4E-07			0E+00	9E-05		2E-04
Arsenic	2E-08	2E-08	1E-08	6E-08	1E-07	9E-08	9E-09			5E-07	4E-07		1E-06
Barium	7E-09	2E-09	6E-10	5E-09	1E-09	7E-08	1E-10			0E+00	3E-09	6E-07	9E-08
Beryllium	4E-06	2E-07	4E-08	4E-07	2E-06	4E-08	5E-07			1E-06	2E-06		1E-05
Cadmium	2E-06	5E-06	3E-06	1E-05	6E-07	9E-07	8E-08			4E-04	2E-05		5E-04
Chromium VI	5E-08	4E-08	2E-08	1E-07	2E-06	1E-05	8E-08			3E-07	1E-06		1E-05
Chromium III	1E-08	3E-10	3E-10	9E-10	3E-08	1E-07	7E-09			5E-12	6E-11		2E-07
Cobalt	6E-10	3E-10	2E-12	9E-10	3E-08	7E-08	2E-09			0E+00	6E-09		1E-07
Hydrogen Chloride												2E-04	
Selenium	1E-10	2E-10	4E-10	7E-10	5E-09	2E-07	1E-08			7E-06	1E-08		7E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	7E-09	3E-08	6E-09	3E-08	9E-08	5E-07	5E-11			3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	2E-09	1E-08	2E-09	1E-08	3E-08	2E-07	2E-11			1E-05	6E-11		1E-05

Table IX-D5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	6E-11	8E-11	1E-10	3E-08	6E-08	3E-09	3E-08	2E-08	4E-08	1E-10	1E-10	2E-07
Nickel												8E-11	
Arsenic	1E-12	3E-12	1E-12	5E-12	1E-11	4E-12	8E-13			6E-11	5E-11	6E-11	1E-10
Beryllium												2E-09	
Cadmium												2E-09	
Chromium VI												9E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-10	1E-08	5E-09	2E-08	3E-09	3E-08	2E-10			0E+00	2E-08	3E-05	8E-08
Mercury (elemental)												8E-08	
Mercury (divalent)	4E-08	1E-07	5E-08	2E-07	6E-07	1E-06	7E-10			0E+00	3E-08		2E-06
Nickel	3E-09	1E-08	5E-09	2E-08	2E-07	4E-07	9E-09			6E-08	2E-07		9E-07
Silver	2E-11	2E-09	6E-10	4E-09	3E-08	2E-06	5E-10			0E+00	4E-08		2E-06
Thallium	3E-09	2E-09	1E-10	4E-09	5E-07	2E-07	4E-08			1E-06	5E-08		2E-06
Antimony	2E-07	6E-06	2E-06	1E-05	1E-05	1E-05	3E-07			0E+00	1E-04		2E-04
Arsenic	9E-09	3E-08	2E-08	5E-08	1E-07	4E-08	8E-09			6E-07	4E-07		1E-06
Barium	3E-09	3E-09	7E-10	5E-09	1E-09	3E-08	1E-10			0E+00	4E-09	6E-07	5E-08
Beryllium	2E-06	2E-07	4E-08	4E-07	2E-06	2E-08	5E-07			1E-06	3E-06		9E-06
Cadmium	8E-07	7E-06	3E-06	1E-05	6E-07	4E-07	7E-08			5E-04	2E-05		5E-04
Chromium VI	2E-08	5E-08	2E-08	1E-07	2E-06	5E-06	7E-08			4E-07	2E-06		9E-06
Chromium III	4E-09	4E-10	3E-10	8E-10	3E-08	6E-08	6E-09			5E-12	6E-11		1E-07
Cobalt	2E-10	4E-10	3E-12	8E-10	3E-08	3E-08	2E-09			0E+00	7E-09		8E-08
Hydrogen Chloride												2E-04	
Selenium	6E-11	3E-10	4E-10	6E-10	5E-09	8E-08	1E-08			8E-06	1E-08		8E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	3E-09	4E-08	7E-09	3E-08	1E-07	2E-07	5E-11			3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	9E-10	1E-08	2E-09	1E-08	3E-08	8E-08	2E-11			1E-05	7E-11		1E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ottawa River	2E-09	3E-07	1E-10	1E-10	3E-07
2,3,7,8-TCDD-TEQ	Twin Lakes Reservoir	2E-09	6E-08	1E-10	1E-10	6E-08
2,3,7,8-TCDD-TEQ	Metzger/Ferguson Reservoir	2E-09	6E-08	1E-10	1E-10	6E-08
Nickel	Ottawa River				7E-11	
Nickel	Twin Lakes Reservoir				7E-11	
Nickel	Metzger/Ferguson Reservoir				7E-11	
Arsenic	Ottawa River	7E-12	4E-12	4E-10	5E-11	4E-10
Arsenic	Twin Lakes Reservoir	7E-12	4E-11	4E-10	5E-11	5E-10
Arsenic	Metzger/Ferguson Reservoir	7E-12	4E-11	4E-10	5E-11	5E-10
Beryllium	Ottawa River				2E-09	
Beryllium	Twin Lakes Reservoir				2E-09	
Beryllium	Metzger/Ferguson Reservoir				2E-09	
Cadmium	Ottawa River				1E-09	
Cadmium	Twin Lakes Reservoir				1E-09	
Cadmium	Metzger/Ferguson Reservoir				1E-09	
Chromium VI	Ottawa River				8E-09	
Chromium VI	Twin Lakes Reservoir				8E-09	
Chromium VI	Metzger/Ferguson Reservoir				8E-09	
	Noncarcinogenic Chemicals					
Manganese	Ottawa River	2E-08	0E+00	4E-07	3E-05	4E-07
Manganese	Twin Lakes Reservoir	2E-08	0E+00	4E-07	3E-05	4E-07
Manganese	Metzger/Ferguson Reservoir	2E-08	0E+00	4E-07	3E-05	4E-07
Mercury (elemental)	Ottawa River				8E-08	
Mercury (elemental)	Twin Lakes Reservoir				8E-08	
Mercury (elemental)	Metzger/Ferguson Reservoir				8E-08	
Mercury (divalent)	Ottawa River	8E-07		7E-08		8E-07
Mercury (divalent)	Twin Lakes Reservoir	8E-07		7E-08		8E-07
Mercury (divalent)	Metzger/Ferguson Reservoir	8E-07		7E-08		8E-07
Nickel	Ottawa River	5E-08	1E-08	4E-06		4E-06
Nickel	Twin Lakes Reservoir	5E-08	8E-08	4E-06		4E-06
Nickel	Metzger/Ferguson Reservoir	5E-08	1E-07	4E-06		4E-06
Silver	Ottawa River	3E-10	0E+00	1E-06		1E-06
Silver	Twin Lakes Reservoir	3E-10	0E+00	1E-06		1E-06
Silver	Metzger/Ferguson Reservoir	3E-10	0E+00	1E-06		1E-06
Thallium	Ottawa River	5E-08	2E-07	1E-06		1E-06
Thallium	Twin Lakes Reservoir	5E-08	2E-06	1E-06		3E-06
Thallium	Metzger/Ferguson Reservoir	5E-08	2E-06	1E-06		4E-06
Antimony	Ottawa River	3E-06	0E+00	3E-03		3E-03
Antimony	Twin Lakes Reservoir	3E-06	0E+00	3E-03		3E-03
Antimony	Metzger/Ferguson Reservoir	3E-06	0E+00	3E-03		3E-03
Arsenic	Ottawa River	2E-07	1E-07	1E-05		1E-05
Arsenic	Twin Lakes Reservoir	2E-07	9E-07	1E-05		1E-05
Arsenic	Metzger/Ferguson Reservoir	2E-07	1E-06	1E-05		1E-05
Barium	Ottawa River	5E-08	0E+00	3E-08	6E-07	8E-08
Barium	Twin Lakes Reservoir	5E-08	0E+00	3E-08	6E-07	8E-08
Barium	Metzger/Ferguson Reservoir	5E-08	0E+00	3E-08	6E-07	8E-08
Beryllium	Ottawa River	3E-05	4E-06	3E-05		6E-05
Beryllium	Twin Lakes Reservoir	3E-05	4E-06	3E-05		6E-05
Beryllium	Metzger/Ferguson Reservoir	3E-05	1E-05	3E-05		7E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ottawa River	1E-05	1E-04	4E-04		5E-04
Cadmium	Twin Lakes Reservoir	1E-05	8E-04	4E-04		1E-03
Cadmium	Metzger/Ferguson Reservoir	1E-05	1E-03	4E-04		2E-03
Chromium VI	Ottawa River	4E-07	6E-08	4E-05		4E-05
Chromium VI	Twin Lakes Reservoir	4E-07	5E-07	4E-05		4E-05
Chromium VI	Metzger/Ferguson Reservoir	4E-07	7E-07	4E-05		4E-05
Chromium III	Ottawa River	7E-08	2E-10	2E-10		7E-08
Chromium III	Twin Lakes Reservoir	7E-08	8E-12	2E-10		7E-08
Chromium III	Metzger/Ferguson Reservoir	7E-08	4E-11	2E-10		7E-08
Cobalt	Ottawa River	4E-09	0E+00	2E-10		4E-09
Cobalt	Twin Lakes Reservoir	4E-09	0E+00	2E-10		4E-09
Cobalt	Metzger/Ferguson Reservoir	4E-09	0E+00	2E-10		4E-09
Hydrogen Chloride	Ottawa River				2E-04	
Hydrogen Chloride	Twin Lakes Reservoir				2E-04	
Hydrogen Chloride	Metzger/Ferguson Reservoir				2E-04	
Selenium	Ottawa River	1E-09	1E-06	4E-07		2E-06
Selenium	Twin Lakes Reservoir	1E-09	1E-05	4E-07		1E-05
Selenium	Metzger/Ferguson Reservoir	1E-09	1E-05	4E-07		1E-05
Chlorine	Ottawa River				6E-03	
Chlorine	Twin Lakes Reservoir				6E-03	
Chlorine	Metzger/Ferguson Reservoir				6E-03	
Methylmercury - Developmental Effects	Ottawa River	5E-08	8E-05	1E-09		8E-05
Methylmercury - Developmental Effects	Twin Lakes Reservoir	5E-08	1E-04	1E-09		1E-04
Methylmercury - Developmental Effects	Metzger/Ferguson Reservoir	5E-08	6E-05	1E-09		6E-05
Methylmercury - Neurological Effects	Ottawa River	2E-08	3E-05	3E-10		3E-05
Methylmercury - Neurological Effects	Twin Lakes Reservoir	2E-08	5E-05	3E-10		5E-05
Methylmercury - Neurological Effects	Metzger/Ferguson Reservoir	2E-08	2E-05	3E-10		2E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ottawa River	5E-10	4E-07	9E-11	2E-10	4E-07
2,3,7,8-TCDD-TEQ	Twin Lakes Reservoir	5E-10	8E-08	9E-11	2E-10	8E-08
2,3,7,8-TCDD-TEQ	Metzger/Ferguson Reservoir	5E-10	8E-08	9E-11	2E-10	8E-08
Nickel	Ottawa River				9E-11	
Nickel	Twin Lakes Reservoir				9E-11	
Nickel	Metzger/Ferguson Reservoir				9E-11	
Arsenic	Ottawa River	2E-12	6E-12	3E-10	6E-11	3E-10
Arsenic	Twin Lakes Reservoir	2E-12	5E-11	3E-10	6E-11	4E-10
Arsenic	Metzger/Ferguson Reservoir	2E-12	6E-11	3E-10	6E-11	4E-10
Beryllium	Ottawa River				2E-09	
Beryllium	Twin Lakes Reservoir				2E-09	
Beryllium	Metzger/Ferguson Reservoir				2E-09	
Cadmium	Ottawa River				2E-09	
Cadmium	Twin Lakes Reservoir				2E-09	
Cadmium	Metzger/Ferguson Reservoir				2E-09	
Chromium VI	Ottawa River				9E-09	
Chromium VI	Twin Lakes Reservoir				9E-09	
Chromium VI	Metzger/Ferguson Reservoir				9E-09	
	Noncarcinogenic Chemicals					
Manganese	Ottawa River	4E-09	0E+00	2E-07	3E-05	2E-07
Manganese	Twin Lakes Reservoir	4E-09	0E+00	2E-07	3E-05	2E-07
Manganese	Metzger/Ferguson Reservoir	4E-09	0E+00	2E-07	3E-05	2E-07
Mercury (elemental)	Ottawa River				8E-08	
Mercury (elemental)	Twin Lakes Reservoir				8E-08	
Mercury (elemental)	Metzger/Ferguson Reservoir				8E-08	
Mercury (divalent)	Ottawa River	2E-07		4E-08		2E-07
Mercury (divalent)	Twin Lakes Reservoir	2E-07		4E-08		2E-07
Mercury (divalent)	Metzger/Ferguson Reservoir	2E-07		4E-08		2E-07
Nickel	Ottawa River	1E-08	1E-08	2E-06		2E-06
Nickel	Twin Lakes Reservoir	1E-08	8E-08	2E-06		2E-06
Nickel	Metzger/Ferguson Reservoir	1E-08	1E-07	2E-06		2E-06
Silver	Ottawa River	8E-11	0E+00	6E-07		6E-07
Silver	Twin Lakes Reservoir	8E-11	0E+00	6E-07		6E-07
Silver	Metzger/Ferguson Reservoir	8E-11	0E+00	6E-07		6E-07
Thallium	Ottawa River	1E-08	2E-07	7E-07		9E-07
Thallium	Twin Lakes Reservoir	1E-08	2E-06	7E-07		3E-06
Thallium	Metzger/Ferguson Reservoir	1E-08	2E-06	7E-07		3E-06
Antimony	Ottawa River	8E-07	0E+00	1E-03		1E-03
Antimony	Twin Lakes Reservoir	8E-07	0E+00	1E-03		1E-03
Antimony	Metzger/Ferguson Reservoir	8E-07	0E+00	1E-03		1E-03
Arsenic	Ottawa River	4E-08	1E-07	6E-06		6E-06
Arsenic	Twin Lakes Reservoir	4E-08	9E-07	6E-06		7E-06
Arsenic	Metzger/Ferguson Reservoir	4E-08	1E-06	6E-06		7E-06
Barium	Ottawa River	1E-08	0E+00	1E-08	6E-07	3E-08
Barium	Twin Lakes Reservoir	1E-08	0E+00	1E-08	6E-07	3E-08
Barium	Metzger/Ferguson Reservoir	1E-08	0E+00	1E-08	6E-07	3E-08
Beryllium	Ottawa River	8E-06	4E-06	1E-05		3E-05
Beryllium	Twin Lakes Reservoir	8E-06	4E-06	1E-05		3E-05
Beryllium	Metzger/Ferguson Reservoir	8E-06	1E-05	1E-05		4E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ottawa River	4E-06	1E-04	2E-04		3E-04
Cadmium	Twin Lakes Reservoir	4E-06	8E-04	2E-04		1E-03
Cadmium	Metzger/Ferguson Reservoir	4E-06	1E-03	2E-04		1E-03
Chromium VI	Ottawa River	1E-07	6E-08	2E-05		2E-05
Chromium VI	Twin Lakes Reservoir	1E-07	5E-07	2E-05		2E-05
Chromium VI	Metzger/Ferguson Reservoir	1E-07	7E-07	2E-05		2E-05
Chromium III	Ottawa River	2E-08	2E-10	9E-11		2E-08
Chromium III	Twin Lakes Reservoir	2E-08	8E-12	9E-11		2E-08
Chromium III	Metzger/Ferguson Reservoir	2E-08	4E-11	9E-11		2E-08
Cobalt	Ottawa River	1E-09	0E+00	9E-11		1E-09
Cobalt	Twin Lakes Reservoir	1E-09	0E+00	9E-11		1E-09
Cobalt	Metzger/Ferguson Reservoir	1E-09	0E+00	9E-11		1E-09
Hydrogen Chloride	Ottawa River				2E-04	
Hydrogen Chloride	Twin Lakes Reservoir				2E-04	
Hydrogen Chloride	Metzger/Ferguson Reservoir				2E-04	
Selenium	Ottawa River	3E-10	1E-06	2E-07		2E-06
Selenium	Twin Lakes Reservoir	3E-10	1E-05	2E-07		1E-05
Selenium	Metzger/Ferguson Reservoir	3E-10	1E-05	2E-07		1E-05
Chlorine	Ottawa River				6E-03	
Chlorine	Twin Lakes Reservoir				6E-03	
Chlorine	Metzger/Ferguson Reservoir				6E-03	
Methylmercury - Developmental Effects	Ottawa River	1E-08	8E-05	5E-10		8E-05
Methylmercury - Developmental Effects	Twin Lakes Reservoir	1E-08	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Metzger/Ferguson Reservoir	1E-08	6E-05	5E-10		6E-05
Methylmercury - Neurological Effects	Ottawa River	4E-09	3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	Twin Lakes Reservoir	4E-09	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Metzger/Ferguson Reservoir	4E-09	2E-05	2E-10		2E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ottawa River	3E-10	3E-07	6E-11	1E-10	3E-07
2,3,7,8-TCDD-TEQ	Twin Lakes Reservoir	3E-10	6E-08	6E-11	1E-10	6E-08
2,3,7,8-TCDD-TEQ	Metzger/Ferguson Reservoir	3E-10	6E-08	6E-11	1E-10	6E-08
Nickel	Ottawa River				6E-11	
Nickel	Twin Lakes Reservoir				6E-11	
Nickel	Metzger/Ferguson Reservoir				6E-11	
Arsenic	Ottawa River	1E-12	4E-12	2E-10	4E-11	2E-10
Arsenic	Twin Lakes Reservoir	1E-12	4E-11	2E-10	4E-11	3E-10
Arsenic	Metzger/Ferguson Reservoir	1E-12	4E-11	2E-10	4E-11	3E-10
Beryllium	Ottawa River				1E-09	
Beryllium	Twin Lakes Reservoir				1E-09	
Beryllium	Metzger/Ferguson Reservoir				1E-09	
Cadmium	Ottawa River				1E-09	
Cadmium	Twin Lakes Reservoir				1E-09	
Cadmium	Metzger/Ferguson Reservoir				1E-09	
Chromium VI	Ottawa River				6E-09	
Chromium VI	Twin Lakes Reservoir				6E-09	
Chromium VI	Metzger/Ferguson Reservoir				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Ottawa River	2E-09	0E+00	2E-07	3E-05	2E-07
Manganese	Twin Lakes Reservoir	2E-09	0E+00	2E-07	3E-05	2E-07
Manganese	Metzger/Ferguson Reservoir	2E-09	0E+00	2E-07	3E-05	2E-07
Mercury (elemental)	Ottawa River				8E-08	
Mercury (elemental)	Twin Lakes Reservoir				8E-08	
Mercury (elemental)	Metzger/Ferguson Reservoir				8E-08	
Mercury (divalent)	Ottawa River	1E-07		3E-08		1E-07
Mercury (divalent)	Twin Lakes Reservoir	1E-07		3E-08		1E-07
Mercury (divalent)	Metzger/Ferguson Reservoir	1E-07		3E-08		1E-07
Nickel	Ottawa River	7E-09	7E-09	2E-06		2E-06
Nickel	Twin Lakes Reservoir	7E-09	6E-08	2E-06		2E-06
Nickel	Metzger/Ferguson Reservoir	7E-09	7E-08	2E-06		2E-06
Silver	Ottawa River	4E-11	0E+00	4E-07		4E-07
Silver	Twin Lakes Reservoir	4E-11	0E+00	4E-07		4E-07
Silver	Metzger/Ferguson Reservoir	4E-11	0E+00	4E-07		4E-07
Thallium	Ottawa River	7E-09	2E-07	4E-07		6E-07
Thallium	Twin Lakes Reservoir	7E-09	1E-06	4E-07		2E-06
Thallium	Metzger/Ferguson Reservoir	7E-09	2E-06	4E-07		2E-06
Antimony	Ottawa River	4E-07	0E+00	1E-03		1E-03
Antimony	Twin Lakes Reservoir	4E-07	0E+00	1E-03		1E-03
Antimony	Metzger/Ferguson Reservoir	4E-07	0E+00	1E-03		1E-03
Arsenic	Ottawa River	2E-08	8E-08	4E-06		4E-06
Arsenic	Twin Lakes Reservoir	2E-08	6E-07	4E-06		4E-06
Arsenic	Metzger/Ferguson Reservoir	2E-08	8E-07	4E-06		5E-06
Barium	Ottawa River	7E-09	0E+00	1E-08	6E-07	2E-08
Barium	Twin Lakes Reservoir	7E-09	0E+00	1E-08	6E-07	2E-08
Barium	Metzger/Ferguson Reservoir	7E-09	0E+00	1E-08	6E-07	2E-08
Beryllium	Ottawa River	4E-06	3E-06	9E-06		2E-05
Beryllium	Twin Lakes Reservoir	4E-06	3E-06	9E-06		2E-05
Beryllium	Metzger/Ferguson Reservoir	4E-06	1E-05	9E-06		2E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ottawa River	2E-06	8E-05	1E-04		2E-04
Cadmium	Twin Lakes Reservoir	2E-06	6E-04	1E-04		7E-04
Cadmium	Metzger/Ferguson Reservoir	2E-06	8E-04	1E-04		1E-03
Chromium VI	Ottawa River	5E-08	5E-08	1E-05		1E-05
Chromium VI	Twin Lakes Reservoir	5E-08	4E-07	1E-05		1E-05
Chromium VI	Metzger/Ferguson Reservoir	5E-08	5E-07	1E-05		1E-05
Chromium III	Ottawa River	1E-08	1E-10	6E-11		1E-08
Chromium III	Twin Lakes Reservoir	1E-08	6E-12	6E-11		1E-08
Chromium III	Metzger/Ferguson Reservoir	1E-08	3E-11	6E-11		1E-08
Cobalt	Ottawa River	6E-10	0E+00	6E-08		6E-08
Cobalt	Twin Lakes Reservoir	6E-10	0E+00	6E-08		6E-08
Cobalt	Metzger/Ferguson Reservoir	6E-10	0E+00	6E-08		6E-08
Hydrogen Chloride	Ottawa River				2E-04	
Hydrogen Chloride	Twin Lakes Reservoir				2E-04	
Hydrogen Chloride	Metzger/Ferguson Reservoir				2E-04	
Selenium	Ottawa River	1E-10	1E-06	1E-07		1E-06
Selenium	Twin Lakes Reservoir	1E-10	8E-06	1E-07		8E-06
Selenium	Metzger/Ferguson Reservoir	1E-10	1E-05	1E-07		1E-05
Chlorine	Ottawa River				6E-03	
Chlorine	Twin Lakes Reservoir				6E-03	
Chlorine	Metzger/Ferguson Reservoir				6E-03	
Methylmercury - Developmental Effects	Ottawa River	7E-09	6E-05	4E-10		6E-05
Methylmercury - Developmental Effects	Twin Lakes Reservoir	7E-09	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Metzger/Ferguson Reservoir	7E-09	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Ottawa River	2E-09	2E-05	1E-10		2E-05
Methylmercury - Neurological Effects	Twin Lakes Reservoir	2E-09	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Metzger/Ferguson Reservoir	2E-09	2E-05	1E-10		2E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ottawa River	2E-10	5E-07	1E-10	1E-10	5E-07
2,3,7,8-TCDD-TEQ	Twin Lakes Reservoir	2E-10	1E-07	1E-10	1E-10	1E-07
2,3,7,8-TCDD-TEQ	Metzger/Ferguson Reservoir	2E-10	1E-07	1E-10	1E-10	1E-07
Nickel	Ottawa River				8E-11	
Nickel	Twin Lakes Reservoir				8E-11	
Nickel	Metzger/Ferguson Reservoir				8E-11	
Arsenic	Ottawa River	1E-12	8E-12	5E-10	6E-11	5E-10
Arsenic	Twin Lakes Reservoir	1E-12	7E-11	5E-10	6E-11	5E-10
Arsenic	Metzger/Ferguson Reservoir	1E-12	8E-11	5E-10	6E-11	6E-10
Beryllium	Ottawa River				2E-09	
Beryllium	Twin Lakes Reservoir				2E-09	
Beryllium	Metzger/Ferguson Reservoir				2E-09	
Cadmium	Ottawa River				2E-09	
Cadmium	Twin Lakes Reservoir				2E-09	
Cadmium	Metzger/Ferguson Reservoir				2E-09	
Chromium VI	Ottawa River				9E-09	
Chromium VI	Twin Lakes Reservoir				9E-09	
Chromium VI	Metzger/Ferguson Reservoir				9E-09	
	Noncarcinogenic Chemicals					
Manganese	Ottawa River	9E-10	0E+00	2E-07	3E-05	2E-07
Manganese	Twin Lakes Reservoir	9E-10	0E+00	2E-07	3E-05	2E-07
Manganese	Metzger/Ferguson Reservoir	9E-10	0E+00	2E-07	3E-05	2E-07
Mercury (elemental)	Ottawa River				8E-08	
Mercury (elemental)	Twin Lakes Reservoir				8E-08	
Mercury (elemental)	Metzger/Ferguson Reservoir				8E-08	
Mercury (divalent)	Ottawa River	4E-08		3E-08		7E-08
Mercury (divalent)	Twin Lakes Reservoir	4E-08		3E-08		7E-08
Mercury (divalent)	Metzger/Ferguson Reservoir	4E-08		3E-08		7E-08
Nickel	Ottawa River	3E-09	7E-09	2E-06		2E-06
Nickel	Twin Lakes Reservoir	3E-09	6E-08	2E-06		2E-06
Nickel	Metzger/Ferguson Reservoir	3E-09	7E-08	2E-06		2E-06
Silver	Ottawa River	2E-11	0E+00	4E-07		4E-07
Silver	Twin Lakes Reservoir	2E-11	0E+00	4E-07		4E-07
Silver	Metzger/Ferguson Reservoir	2E-11	0E+00	4E-07		4E-07
Thallium	Ottawa River	3E-09	2E-07	5E-07		7E-07
Thallium	Twin Lakes Reservoir	3E-09	1E-06	5E-07		2E-06
Thallium	Metzger/Ferguson Reservoir	3E-09	2E-06	5E-07		2E-06
Antimony	Ottawa River	2E-07	0E+00	1E-03		1E-03
Antimony	Twin Lakes Reservoir	2E-07	0E+00	1E-03		1E-03
Antimony	Metzger/Ferguson Reservoir	2E-07	0E+00	1E-03		1E-03
Arsenic	Ottawa River	9E-09	8E-08	4E-06		5E-06
Arsenic	Twin Lakes Reservoir	9E-09	6E-07	4E-06		5E-06
Arsenic	Metzger/Ferguson Reservoir	9E-09	8E-07	4E-06		5E-06
Barium	Ottawa River	3E-09	0E+00	1E-08	6E-07	1E-08
Barium	Twin Lakes Reservoir	3E-09	0E+00	1E-08	6E-07	1E-08
Barium	Metzger/Ferguson Reservoir	3E-09	0E+00	1E-08	6E-07	1E-08
Beryllium	Ottawa River	2E-06	3E-06	1E-05		2E-05
Beryllium	Twin Lakes Reservoir	2E-06	3E-06	1E-05		2E-05
Beryllium	Metzger/Ferguson Reservoir	2E-06	1E-05	1E-05		2E-05

Table IX-D6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 464) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ottawa River	8E-07	8E-05	2E-04		3E-04
Cadmium	Twin Lakes Reservoir	8E-07	6E-04	2E-04		7E-04
Cadmium	Metzger/Ferguson Reservoir	8E-07	8E-04	2E-04		1E-03
Chromium VI	Ottawa River	2E-08	5E-08	2E-05		2E-05
Chromium VI	Twin Lakes Reservoir	2E-08	4E-07	2E-05		2E-05
Chromium VI	Metzger/Ferguson Reservoir	2E-08	5E-07	2E-05		2E-05
Chromium III	Ottawa River	4E-09	1E-10	6E-11		4E-09
Chromium III	Twin Lakes Reservoir	4E-09	6E-12	6E-11		4E-09
Chromium III	Metzger/Ferguson Reservoir	4E-09	3E-11	6E-11		4E-09
Cobalt	Ottawa River	2E-10	0E+00	7E-08		7E-08
Cobalt	Twin Lakes Reservoir	2E-10	0E+00	7E-08		7E-08
Cobalt	Metzger/Ferguson Reservoir	2E-10	0E+00	7E-08		7E-08
Hydrogen Chloride	Ottawa River				2E-04	
Hydrogen Chloride	Twin Lakes Reservoir				2E-04	
Hydrogen Chloride	Metzger/Ferguson Reservoir				2E-04	
Selenium	Ottawa River	6E-11	1E-06	2E-07		1E-06
Selenium	Twin Lakes Reservoir	6E-11	8E-06	2E-07		8E-06
Selenium	Metzger/Ferguson Reservoir	6E-11	1E-05	2E-07		1E-05
Chlorine	Ottawa River				6E-03	
Chlorine	Twin Lakes Reservoir				6E-03	
Chlorine	Metzger/Ferguson Reservoir				6E-03	
Methylmercury - Developmental Effects	Ottawa River	3E-09	6E-05	4E-10		6E-05
Methylmercury - Developmental Effects	Twin Lakes Reservoir	3E-09	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Metzger/Ferguson Reservoir	3E-09	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Ottawa River	9E-10	2E-05	1E-10		2E-05
Methylmercury - Neurological Effects	Twin Lakes Reservoir	9E-10	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Metzger/Ferguson Reservoir	9E-10	2E-05	1E-10		2E-05

Table IX-D7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-11	9E-12	5E-12	2E-11	5E-09	5E-08	4E-10	1E-09	9E-10	2E-09	4E-13	5E-11	6E-08
Nickel												3E-09	
Arsenic	8E-11	3E-11	1E-11	7E-11	2E-10	4E-10	1E-11			5E-10	2E-11	3E-09	1E-09
Beryllium												1E-10	
Cadmium												9E-10	
Chromium VI												8E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	5E-08	3E-08	1E-07	2E-08	9E-07	1E-09			0E+00	5E-09	4E-04	1E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	7E-04	1E-06	1E-03	6E-04	8E-03	3E-07						1E-02
Nickel	4E-07	2E-07	8E-08	5E-07	5E-06	5E-05	3E-07			8E-07	2E-07		6E-05
Silver	2E-09	3E-08	8E-09	8E-08	5E-07	2E-04	2E-08			0E+00	3E-08		2E-04
Thallium	3E-06	2E-07	1E-08	6E-07	7E-05	2E-04	7E-06			1E-04	3E-07		4E-04
Antimony	2E-08	8E-08	2E-08	2E-07	3E-07	2E-06	1E-08			0E+00	7E-08		3E-06
Arsenic	2E-06	9E-07	4E-07	2E-06	5E-06	9E-06	4E-07			1E-05	5E-07		3E-05
Barium	5E-07	5E-08	1E-08	1E-07	2E-08	3E-06	4E-09			0E+00	4E-09	3E-05	4E-06
Beryllium	4E-07	6E-09	1E-09	2E-08	6E-08	3E-09	2E-08			4E-08	4E-09		6E-07
Cadmium	2E-06	2E-06	9E-07	4E-06	2E-07	6E-07	3E-08			1E-04	2E-07		1E-04
Chromium VI	8E-08	3E-08	1E-08	7E-08	9E-07	2E-05	5E-08			1E-07	3E-08		2E-05
Chromium III	1E-07	1E-09	1E-09	4E-09	1E-07	1E-06	3E-08			2E-11	1E-11		2E-06
Cobalt	1E-08	3E-09	1E-11	6E-09	2E-07	1E-06	2E-08			0E+00	2E-09		2E-06
Hydrogen Chloride												3E-04	
Selenium	1E-07	1E-07	8E-08	3E-07	2E-06	2E-04	8E-06			2E-03	2E-07		2E-03
Chlorine												1E-03	
Methylmercury - Developmental Effects	6E-07	2E-04	1E-07	2E-04	5E-04	7E-03	8E-08			1E-03			9E-03
Methylmercury - Neurological Effects	2E-07	7E-05	5E-08	7E-05	2E-04	2E-03	3E-08			4E-04			3E-03

Table IX-D7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-11	7E-12	4E-12	2E-11	7E-09	3E-08	3E-10	1E-09	1E-09	2E-09	3E-13	5E-11	5E-08
Nickel												4E-09	
Arsenic	3E-11	2E-11	1E-11	1E-10	3E-10	3E-10	1E-11			5E-10	2E-11	3E-09	1E-09
Beryllium												1E-10	
Cadmium												1E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	3E-08	2E-08	1E-07	2E-08	5E-07	9E-10			0E+00	3E-09	4E-04	6E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	4E-04	7E-07	1E-03	7E-04	4E-03	2E-07						6E-03
Nickel	1E-07	1E-07	6E-08	5E-07	6E-06	2E-05	2E-07			6E-07	8E-08		3E-05
Silver	6E-10	2E-08	5E-09	8E-08	6E-07	1E-04	1E-08			0E+00	2E-08		1E-04
Thallium	8E-07	1E-07	9E-09	6E-07	8E-05	1E-04	4E-06			9E-05	2E-07		3E-04
Antimony	5E-09	5E-08	1E-08	2E-07	4E-07	1E-06	8E-09			0E+00	4E-08		2E-06
Arsenic	5E-07	5E-07	2E-07	2E-06	6E-06	5E-06	2E-07			9E-06	3E-07		2E-05
Barium	1E-07	3E-08	9E-09	1E-07	3E-08	2E-06	2E-09			0E+00	2E-09	3E-05	2E-06
Beryllium	1E-07	3E-09	8E-10	1E-08	8E-08	1E-09	1E-08			3E-08	2E-09		3E-07
Cadmium	5E-07	1E-06	6E-07	4E-06	2E-07	3E-07	2E-08			9E-05	1E-07		9E-05
Chromium VI	2E-08	1E-08	7E-09	7E-08	1E-06	8E-06	3E-08			1E-07	2E-08		9E-06
Chromium III	3E-08	8E-10	7E-10	4E-09	1E-07	6E-07	2E-08			1E-11	7E-12		8E-07
Cobalt	3E-09	1E-09	1E-11	6E-09	3E-07	6E-07	1E-08			0E+00	1E-09		9E-07
Hydrogen Chloride												3E-04	
Selenium	3E-08	6E-08	6E-08	3E-07	3E-06	1E-04	5E-06			1E-03	1E-07		1E-03
Chlorine												1E-03	
Methylmercury - Developmental Effects	2E-07	1E-04	1E-07	2E-04	5E-04	3E-03	5E-08			1E-03			5E-03
Methylmercury - Neurological Effects	5E-08	4E-05	3E-08	7E-05	2E-04	1E-03	2E-08			3E-04			2E-03

Table IX-D7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	5E-12	3E-12	1E-11	3E-09	2E-08	2E-10	9E-10	5E-10	1E-09	2E-13	3E-11	2E-08
Nickel												2E-09	
Arsenic	2E-11	2E-11	9E-12	5E-11	2E-10	1E-10	8E-12			3E-10	1E-11	2E-09	7E-10
Beryllium												8E-11	
Cadmium												7E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-09	2E-08	1E-08	5E-08	1E-08	2E-07	6E-10			0E+00	2E-09	4E-04	3E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	1E-06	3E-04	5E-07	7E-04	3E-04	2E-03	1E-07			0E+00			3E-03
Nickel	6E-08	9E-08	4E-08	3E-07	3E-06	1E-05	1E-07			3E-07	5E-08		1E-05
Silver	3E-10	1E-08	4E-09	4E-08	3E-07	5E-05	7E-09			0E+00	1E-08		5E-05
Thallium	4E-07	1E-07	7E-09	3E-07	4E-05	5E-05	3E-06			5E-05	1E-07		1E-04
Antimony	3E-09	4E-08	1E-08	1E-07	2E-07	4E-07	5E-09			0E+00	3E-08		8E-07
Arsenic	3E-07	4E-07	2E-07	1E-06	3E-06	2E-06	1E-07			5E-06	2E-07		1E-05
Barium	7E-08	2E-08	6E-09	5E-08	1E-08	7E-07	1E-09			0E+00	1E-09	3E-05	9E-07
Beryllium	6E-08	3E-09	6E-10	8E-09	3E-08	6E-10	8E-09			2E-08	1E-09		1E-07
Cadmium	3E-07	8E-07	5E-07	2E-06	1E-07	1E-07	1E-08			5E-05	9E-08		5E-05
Chromium VI	1E-08	1E-08	5E-09	4E-08	5E-07	4E-06	2E-08			6E-08	1E-08		4E-06
Chromium III	2E-08	6E-10	5E-10	2E-09	5E-08	3E-07	1E-08			7E-12	4E-12		4E-07
Cobalt	2E-09	1E-09	7E-12	3E-09	1E-07	3E-07	7E-09			0E+00	7E-10		4E-07
Hydrogen Chloride												3E-04	
Selenium	2E-08	5E-08	4E-08	2E-07	1E-06	5E-05	3E-06			6E-04	6E-08		7E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	8E-08	1E-04	7E-08	1E-04	2E-04	2E-03	3E-08			5E-04			3E-03
Methylmercury - Neurological Effects	3E-08	3E-05	2E-08	4E-05	8E-05	5E-04	1E-08			2E-04			8E-04

Table IX-D7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	1E-11	6E-12	2E-11	7E-09	1E-08	3E-10	1E-09	9E-10	3E-09	4E-13	5E-11	3E-08
Nickel												3E-09	
Arsenic	1E-11	5E-11	2E-11	9E-11	4E-10	1E-10	1E-11			6E-10	2E-11	3E-09	1E-09
Beryllium												1E-10	
Cadmium												1E-09	
Chromium VI												9E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	3E-08	2E-08	5E-08	1E-08	9E-08	5E-10			0E+00	2E-09	4E-04	2E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	5E-07	4E-04	6E-07	6E-04	3E-04	8E-04	8E-08			0E+00			2E-03
Nickel	2E-08	1E-07	5E-08	2E-07	3E-06	5E-06	1E-07			4E-07	6E-08		9E-06
Silver	1E-10	2E-08	4E-09	4E-08	3E-07	2E-05	6E-09			0E+00	1E-08		2E-05
Thallium	2E-07	1E-07	8E-09	3E-07	4E-05	2E-05	3E-06			5E-05	1E-07		1E-04
Antimony	1E-09	5E-08	1E-08	1E-07	2E-07	2E-07	4E-09			0E+00	3E-08		6E-07
Arsenic	1E-07	5E-07	2E-07	9E-07	3E-06	9E-07	1E-07			6E-06	2E-07		1E-05
Barium	3E-08	3E-08	7E-09	5E-08	1E-08	3E-07	1E-09			0E+00	2E-09	3E-05	4E-07
Beryllium	2E-08	3E-09	6E-10	7E-09	4E-08	3E-10	7E-09			2E-08	2E-09		1E-07
Cadmium	1E-07	1E-06	5E-07	2E-06	1E-07	6E-08	1E-08			5E-05	1E-07		5E-05
Chromium VI	5E-09	1E-08	6E-09	3E-08	6E-07	2E-06	2E-08			6E-08	1E-08		2E-06
Chromium III	7E-09	9E-10	5E-10	2E-09	6E-08	1E-07	1E-08			8E-12	5E-12		2E-07
Cobalt	7E-10	2E-09	8E-12	3E-09	1E-07	1E-07	6E-09			0E+00	9E-10		3E-07
Hydrogen Chloride												3E-04	
Selenium	6E-09	6E-08	5E-08	1E-07	1E-06	2E-05	3E-06			7E-04	7E-08		7E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	3E-08	1E-04	8E-08	1E-04	3E-04	7E-04	3E-08			6E-04			2E-03
Methylmercury - Neurological Effects	1E-08	4E-05	3E-08	3E-05	9E-05	2E-04	9E-09			2E-04			6E-04

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill River	8E-11	9E-10	4E-13	5E-11	1E-09
2,3,7,8-TCDD-TEQ	Pennsauken Creek	8E-11	2E-09	4E-13	5E-11	2E-09
2,3,7,8-TCDD-TEQ	Darby Creek	8E-11	8E-09	4E-13	5E-11	8E-09
2,3,7,8-TCDD-TEQ	Cooper River Lake	8E-11	6E-09	4E-13	5E-11	6E-09
Nickel	Schuylkill River				3E-09	
Nickel	Pennsauken Creek				3E-09	
Nickel	Darby Creek				3E-09	
Nickel	Cooper River Lake				3E-09	
Arsenic	Schuylkill River	8E-11	2E-12	2E-11	3E-09	1E-10
Arsenic	Pennsauken Creek	8E-11	6E-12	2E-11	3E-09	1E-10
Arsenic	Darby Creek	8E-11	3E-11	2E-11	3E-09	1E-10
Arsenic	Cooper River Lake	8E-11	2E-11	2E-11	3E-09	1E-10
Beryllium	Schuylkill River				1E-10	
Beryllium	Pennsauken Creek				1E-10	
Beryllium	Darby Creek				1E-10	
Beryllium	Cooper River Lake				1E-10	
Cadmium	Schuylkill River				9E-10	
Cadmium	Pennsauken Creek				9E-10	
Cadmium	Darby Creek				9E-10	
Cadmium	Cooper River Lake				9E-10	
Chromium VI	Schuylkill River				8E-09	
Chromium VI	Pennsauken Creek				8E-09	
Chromium VI	Darby Creek				8E-09	
Chromium VI	Cooper River Lake				8E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill River	4E-08	0E+00	5E-09	4E-04	5E-08
Manganese	Pennsauken Creek	4E-08	0E+00	5E-09	4E-04	5E-08
Manganese	Darby Creek	4E-08	0E+00	5E-09	4E-04	5E-08
Manganese	Cooper River Lake	4E-08	0E+00	5E-09	4E-04	5E-08
Mercury (elemental)	Schuylkill River				3E-04	
Mercury (elemental)	Pennsauken Creek				3E-04	
Mercury (elemental)	Darby Creek				3E-04	
Mercury (elemental)	Cooper River Lake				3E-04	
Mercury (divalent)	Schuylkill River	9E-06		0E+00		9E-06
Mercury (divalent)	Pennsauken Creek	9E-06		0E+00		9E-06
Mercury (divalent)	Darby Creek	9E-06		0E+00		9E-06
Mercury (divalent)	Cooper River Lake	9E-06		0E+00		9E-06
Nickel	Schuylkill River	4E-07	4E-09	2E-07		6E-07
Nickel	Pennsauken Creek	4E-07	1E-08	2E-07		6E-07
Nickel	Darby Creek	4E-07	5E-08	2E-07		6E-07
Nickel	Cooper River Lake	4E-07	4E-08	2E-07		6E-07
Silver	Schuylkill River	2E-09	0E+00	3E-08		4E-08
Silver	Pennsauken Creek	2E-09	0E+00	3E-08		4E-08
Silver	Darby Creek	2E-09	0E+00	3E-08		4E-08
Silver	Cooper River Lake	2E-09	0E+00	3E-08		4E-08
Thallium	Schuylkill River	3E-06	6E-07	3E-07		4E-06
Thallium	Pennsauken Creek	3E-06	2E-06	3E-07		5E-06
Thallium	Darby Creek	3E-06	8E-06	3E-07		1E-05
Thallium	Cooper River Lake	3E-06	7E-06	3E-07		1E-05

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill River	2E-08	0E+00	7E-08		9E-08
Antimony	Pennsauken Creek	2E-08	0E+00	7E-08		9E-08
Antimony	Darby Creek	2E-08	0E+00	7E-08		9E-08
Antimony	Cooper River Lake	2E-08	0E+00	7E-08		9E-08
Arsenic	Schuylkill River	2E-06	6E-08	5E-07		3E-06
Arsenic	Pennsauken Creek	2E-06	2E-07	5E-07		3E-06
Arsenic	Darby Creek	2E-06	7E-07	5E-07		3E-06
Arsenic	Cooper River Lake	2E-06	6E-07	5E-07		3E-06
Barium	Schuylkill River	5E-07	0E+00	4E-09	3E-05	5E-07
Barium	Pennsauken Creek	5E-07	0E+00	4E-09	3E-05	5E-07
Barium	Darby Creek	5E-07	0E+00	4E-09	3E-05	5E-07
Barium	Cooper River Lake	5E-07	0E+00	4E-09	3E-05	5E-07
Beryllium	Schuylkill River	4E-07	2E-09	4E-09		4E-07
Beryllium	Pennsauken Creek	4E-07	6E-09	4E-09		4E-07
Beryllium	Darby Creek	4E-07	2E-08	4E-09		5E-07
Beryllium	Cooper River Lake	4E-07	2E-08	4E-09		5E-07
Cadmium	Schuylkill River	2E-06	7E-07	2E-07		3E-06
Cadmium	Pennsauken Creek	2E-06	2E-06	2E-07		4E-06
Cadmium	Darby Creek	2E-06	9E-06	2E-07		1E-05
Cadmium	Cooper River Lake	2E-06	7E-06	2E-07		9E-06
Chromium VI	Schuylkill River	8E-08	6E-10	3E-08		1E-07
Chromium VI	Pennsauken Creek	8E-08	2E-09	3E-08		1E-07
Chromium VI	Darby Creek	8E-08	8E-09	3E-08		1E-07
Chromium VI	Cooper River Lake	8E-08	7E-09	3E-08		1E-07
Chromium III	Schuylkill River	1E-07	2E-11	1E-11		1E-07
Chromium III	Pennsauken Creek	1E-07	5E-11	1E-11		1E-07
Chromium III	Darby Creek	1E-07	8E-11	1E-11		1E-07
Chromium III	Cooper River Lake	1E-07	3E-11	1E-11		1E-07
Cobalt	Schuylkill River	1E-08	0E+00	1E-11		1E-08
Cobalt	Pennsauken Creek	1E-08	0E+00	1E-11		1E-08
Cobalt	Darby Creek	1E-08	0E+00	1E-11		1E-08
Cobalt	Cooper River Lake	1E-08	0E+00	1E-11		1E-08
Hydrogen Chloride	Schuylkill River				3E-04	
Hydrogen Chloride	Pennsauken Creek				3E-04	
Hydrogen Chloride	Darby Creek				3E-04	
Hydrogen Chloride	Cooper River Lake				3E-04	
Selenium	Schuylkill River	1E-07	6E-06	2E-07		7E-06
Selenium	Pennsauken Creek	1E-07	2E-05	2E-07		2E-05
Selenium	Darby Creek	1E-07	8E-05	2E-07		8E-05
Selenium	Cooper River Lake	1E-07	7E-05	2E-07		7E-05
Chlorine	Schuylkill River				1E-03	
Chlorine	Pennsauken Creek				1E-03	
Chlorine	Darby Creek				1E-03	
Chlorine	Cooper River Lake				1E-03	
Methylmercury - Developmental Effects	Schuylkill River	6E-07	0E+00	0E+00		6E-07
Methylmercury - Developmental Effects	Pennsauken Creek	6E-07	0E+00	0E+00		6E-07
Methylmercury - Developmental Effects	Darby Creek	6E-07	0E+00	0E+00		6E-07
Methylmercury - Developmental Effects	Cooper River Lake	6E-07	0E+00	0E+00		6E-07

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill River	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Pennsauken Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Darby Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Cooper River Lake	2E-07	0E+00	0E+00		2E-07

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill River	3E-11	1E-09	3E-13	5E-11	1E-09
2,3,7,8-TCDD-TEQ	Pennsauken Creek	3E-11	3E-09	3E-13	5E-11	3E-09
2,3,7,8-TCDD-TEQ	Darby Creek	3E-11	1E-08	3E-13	5E-11	1E-08
2,3,7,8-TCDD-TEQ	Cooper River Lake	3E-11	8E-09	3E-13	5E-11	8E-09
Nickel	Schuylkill River				4E-09	
Nickel	Pennsauken Creek				4E-09	
Nickel	Darby Creek				4E-09	
Nickel	Cooper River Lake				4E-09	
Arsenic	Schuylkill River	3E-11	3E-12	2E-11	3E-09	5E-11
Arsenic	Pennsauken Creek	3E-11	9E-12	2E-11	3E-09	5E-11
Arsenic	Darby Creek	3E-11	4E-11	2E-11	3E-09	9E-11
Arsenic	Cooper River Lake	3E-11	3E-11	2E-11	3E-09	8E-11
Beryllium	Schuylkill River				1E-10	
Beryllium	Pennsauken Creek				1E-10	
Beryllium	Darby Creek				1E-10	
Beryllium	Cooper River Lake				1E-10	
Cadmium	Schuylkill River				1E-09	
Cadmium	Pennsauken Creek				1E-09	
Cadmium	Darby Creek				1E-09	
Cadmium	Cooper River Lake				1E-09	
Chromium VI	Schuylkill River				1E-08	
Chromium VI	Pennsauken Creek				1E-08	
Chromium VI	Darby Creek				1E-08	
Chromium VI	Cooper River Lake				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill River	1E-08	0E+00	3E-09	4E-04	1E-08
Manganese	Pennsauken Creek	1E-08	0E+00	3E-09	4E-04	1E-08
Manganese	Darby Creek	1E-08	0E+00	3E-09	4E-04	1E-08
Manganese	Cooper River Lake	1E-08	0E+00	3E-09	4E-04	1E-08
Mercury (elemental)	Schuylkill River				3E-04	
Mercury (elemental)	Pennsauken Creek				3E-04	
Mercury (elemental)	Darby Creek				3E-04	
Mercury (elemental)	Cooper River Lake				3E-04	
Mercury (divalent)	Schuylkill River	2E-06		0E+00		2E-06
Mercury (divalent)	Pennsauken Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Darby Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Cooper River Lake	2E-06		0E+00		2E-06
Nickel	Schuylkill River	1E-07	4E-09	8E-08		2E-07
Nickel	Pennsauken Creek	1E-07	1E-08	8E-08		2E-07
Nickel	Darby Creek	1E-07	5E-08	8E-08		2E-07
Nickel	Cooper River Lake	1E-07	4E-08	8E-08		2E-07
Silver	Schuylkill River	6E-10	0E+00	2E-08		2E-08
Silver	Pennsauken Creek	6E-10	0E+00	2E-08		2E-08
Silver	Darby Creek	6E-10	0E+00	2E-08		2E-08
Silver	Cooper River Lake	6E-10	0E+00	2E-08		2E-08
Thallium	Schuylkill River	8E-07	6E-07	2E-07		2E-06
Thallium	Pennsauken Creek	8E-07	2E-06	2E-07		3E-06
Thallium	Darby Creek	8E-07	8E-06	2E-07		9E-06
Thallium	Cooper River Lake	8E-07	7E-06	2E-07		8E-06

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill River	5E-09	0E+00	4E-08		5E-08
Antimony	Pennsauken Creek	5E-09	0E+00	4E-08		5E-08
Antimony	Darby Creek	5E-09	0E+00	4E-08		5E-08
Antimony	Cooper River Lake	5E-09	0E+00	4E-08		5E-08
Arsenic	Schuylkill River	5E-07	6E-08	3E-07		9E-07
Arsenic	Pennsauken Creek	5E-07	2E-07	3E-07		1E-06
Arsenic	Darby Creek	5E-07	7E-07	3E-07		2E-06
Arsenic	Cooper River Lake	5E-07	6E-07	3E-07		1E-06
Barium	Schuylkill River	1E-07	0E+00	2E-09	3E-05	1E-07
Barium	Pennsauken Creek	1E-07	0E+00	2E-09	3E-05	1E-07
Barium	Darby Creek	1E-07	0E+00	2E-09	3E-05	1E-07
Barium	Cooper River Lake	1E-07	0E+00	2E-09	3E-05	1E-07
Beryllium	Schuylkill River	1E-07	2E-09	2E-09		1E-07
Beryllium	Pennsauken Creek	1E-07	6E-09	2E-09		1E-07
Beryllium	Darby Creek	1E-07	2E-08	2E-09		1E-07
Beryllium	Cooper River Lake	1E-07	2E-08	2E-09		1E-07
Cadmium	Schuylkill River	5E-07	7E-07	1E-07		1E-06
Cadmium	Pennsauken Creek	5E-07	2E-06	1E-07		3E-06
Cadmium	Darby Creek	5E-07	9E-06	1E-07		9E-06
Cadmium	Cooper River Lake	5E-07	7E-06	1E-07		8E-06
Chromium VI	Schuylkill River	2E-08	6E-10	2E-08		4E-08
Chromium VI	Pennsauken Creek	2E-08	2E-09	2E-08		4E-08
Chromium VI	Darby Creek	2E-08	8E-09	2E-08		5E-08
Chromium VI	Cooper River Lake	2E-08	7E-09	2E-08		5E-08
Chromium III	Schuylkill River	3E-08	2E-11	7E-12		3E-08
Chromium III	Pennsauken Creek	3E-08	5E-11	7E-12		3E-08
Chromium III	Darby Creek	3E-08	8E-11	7E-12		3E-08
Chromium III	Cooper River Lake	3E-08	3E-11	7E-12		3E-08
Cobalt	Schuylkill River	3E-09	0E+00	7E-12		3E-09
Cobalt	Pennsauken Creek	3E-09	0E+00	7E-12		3E-09
Cobalt	Darby Creek	3E-09	0E+00	7E-12		3E-09
Cobalt	Cooper River Lake	3E-09	0E+00	7E-12		3E-09
Hydrogen Chloride	Schuylkill River				3E-04	
Hydrogen Chloride	Pennsauken Creek				3E-04	
Hydrogen Chloride	Darby Creek				3E-04	
Hydrogen Chloride	Cooper River Lake				3E-04	
Selenium	Schuylkill River	3E-08	6E-06	1E-07		7E-06
Selenium	Pennsauken Creek	3E-08	2E-05	1E-07		2E-05
Selenium	Darby Creek	3E-08	8E-05	1E-07		8E-05
Selenium	Cooper River Lake	3E-08	7E-05	1E-07		7E-05
Chlorine	Schuylkill River				1E-03	
Chlorine	Pennsauken Creek				1E-03	
Chlorine	Darby Creek				1E-03	
Chlorine	Cooper River Lake				1E-03	
Methylmercury - Developmental Effects	Schuylkill River	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Pennsauken Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Darby Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Cooper River Lake	2E-07	0E+00	0E+00		2E-07

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Pennsauken Creek	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Darby Creek	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Cooper River Lake	5E-08	0E+00	0E+00		5E-08

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill River	1E-11	9E-10	2E-13	3E-11	1E-09
2,3,7,8-TCDD-TEQ	Pennsauken Creek	1E-11	2E-09	2E-13	3E-11	2E-09
2,3,7,8-TCDD-TEQ	Darby Creek	1E-11	8E-09	2E-13	3E-11	8E-09
2,3,7,8-TCDD-TEQ	Cooper River Lake	1E-11	6E-09	2E-13	3E-11	6E-09
Nickel	Schuylkill River				2E-09	
Nickel	Pennsauken Creek				2E-09	
Nickel	Darby Creek				2E-09	
Nickel	Cooper River Lake				2E-09	
Arsenic	Schuylkill River	2E-11	2E-12	1E-11	2E-09	3E-11
Arsenic	Pennsauken Creek	2E-11	6E-12	1E-11	2E-09	3E-11
Arsenic	Darby Creek	2E-11	3E-11	1E-11	2E-09	6E-11
Arsenic	Cooper River Lake	2E-11	2E-11	1E-11	2E-09	5E-11
Beryllium	Schuylkill River				8E-11	
Beryllium	Pennsauken Creek				8E-11	
Beryllium	Darby Creek				8E-11	
Beryllium	Cooper River Lake				8E-11	
Cadmium	Schuylkill River				7E-10	
Cadmium	Pennsauken Creek				7E-10	
Cadmium	Darby Creek				7E-10	
Cadmium	Cooper River Lake				7E-10	
Chromium VI	Schuylkill River				6E-09	
Chromium VI	Pennsauken Creek				6E-09	
Chromium VI	Darby Creek				6E-09	
Chromium VI	Cooper River Lake				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill River	6E-09	0E+00	2E-09	4E-04	8E-09
Manganese	Pennsauken Creek	6E-09	0E+00	2E-09	4E-04	8E-09
Manganese	Darby Creek	6E-09	0E+00	2E-09	4E-04	8E-09
Manganese	Cooper River Lake	6E-09	0E+00	2E-09	4E-04	8E-09
Mercury (elemental)	Schuylkill River				3E-04	
Mercury (elemental)	Pennsauken Creek				3E-04	
Mercury (elemental)	Darby Creek				3E-04	
Mercury (elemental)	Cooper River Lake				3E-04	
Mercury (divalent)	Schuylkill River	1E-06		0E+00		1E-06
Mercury (divalent)	Pennsauken Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Darby Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Cooper River Lake	1E-06		0E+00		1E-06
Nickel	Schuylkill River	6E-08	3E-09	5E-08		1E-07
Nickel	Pennsauken Creek	6E-08	7E-09	5E-08		1E-07
Nickel	Darby Creek	6E-08	3E-08	5E-08		1E-07
Nickel	Cooper River Lake	6E-08	3E-08	5E-08		1E-07
Silver	Schuylkill River	3E-10	0E+00	1E-08		1E-08
Silver	Pennsauken Creek	3E-10	0E+00	1E-08		1E-08
Silver	Darby Creek	3E-10	0E+00	1E-08		1E-08
Silver	Cooper River Lake	3E-10	0E+00	1E-08		1E-08
Thallium	Schuylkill River	4E-07	4E-07	1E-07		1E-06
Thallium	Pennsauken Creek	4E-07	1E-06	1E-07		2E-06
Thallium	Darby Creek	4E-07	6E-06	1E-07		6E-06
Thallium	Cooper River Lake	4E-07	5E-06	1E-07		5E-06

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill River	3E-09	0E+00	3E-08		3E-08
Antimony	Pennsauken Creek	3E-09	0E+00	3E-08		3E-08
Antimony	Darby Creek	3E-09	0E+00	3E-08		3E-08
Antimony	Cooper River Lake	3E-09	0E+00	3E-08		3E-08
Arsenic	Schuylkill River	3E-07	4E-08	2E-07		5E-07
Arsenic	Pennsauken Creek	3E-07	1E-07	2E-07		6E-07
Arsenic	Darby Creek	3E-07	5E-07	2E-07		1E-06
Arsenic	Cooper River Lake	3E-07	4E-07	2E-07		9E-07
Barium	Schuylkill River	7E-08	0E+00	1E-09	3E-05	7E-08
Barium	Pennsauken Creek	7E-08	0E+00	1E-09	3E-05	7E-08
Barium	Darby Creek	7E-08	0E+00	1E-09	3E-05	7E-08
Barium	Cooper River Lake	7E-08	0E+00	1E-09	3E-05	7E-08
Beryllium	Schuylkill River	6E-08	2E-09	1E-09		6E-08
Beryllium	Pennsauken Creek	6E-08	5E-09	1E-09		7E-08
Beryllium	Darby Creek	6E-08	2E-08	1E-09		8E-08
Beryllium	Cooper River Lake	6E-08	1E-08	1E-09		7E-08
Cadmium	Schuylkill River	3E-07	5E-07	9E-08		8E-07
Cadmium	Pennsauken Creek	3E-07	1E-06	9E-08		2E-06
Cadmium	Darby Creek	3E-07	6E-06	9E-08		7E-06
Cadmium	Cooper River Lake	3E-07	5E-06	9E-08		6E-06
Chromium VI	Schuylkill River	1E-08	4E-10	1E-08		2E-08
Chromium VI	Pennsauken Creek	1E-08	1E-09	1E-08		2E-08
Chromium VI	Darby Creek	1E-08	6E-09	1E-08		3E-08
Chromium VI	Cooper River Lake	1E-08	5E-09	1E-08		3E-08
Chromium III	Schuylkill River	2E-08	1E-11	4E-12		2E-08
Chromium III	Pennsauken Creek	2E-08	4E-11	4E-12		2E-08
Chromium III	Darby Creek	2E-08	6E-11	4E-12		2E-08
Chromium III	Cooper River Lake	2E-08	2E-11	4E-12		2E-08
Cobalt	Schuylkill River	2E-09	0E+00	7E-10		2E-09
Cobalt	Pennsauken Creek	2E-09	0E+00	7E-10		2E-09
Cobalt	Darby Creek	2E-09	0E+00	7E-10		2E-09
Cobalt	Cooper River Lake	2E-09	0E+00	7E-10		2E-09
Hydrogen Chloride	Schuylkill River				3E-04	
Hydrogen Chloride	Pennsauken Creek				3E-04	
Hydrogen Chloride	Darby Creek				3E-04	
Hydrogen Chloride	Cooper River Lake				3E-04	
Selenium	Schuylkill River	2E-08	5E-06	6E-08		5E-06
Selenium	Pennsauken Creek	2E-08	1E-05	6E-08		1E-05
Selenium	Darby Creek	2E-08	6E-05	6E-08		6E-05
Selenium	Cooper River Lake	2E-08	5E-05	6E-08		5E-05
Chlorine	Schuylkill River				1E-03	
Chlorine	Pennsauken Creek				1E-03	
Chlorine	Darby Creek				1E-03	
Chlorine	Cooper River Lake				1E-03	
Methylmercury - Developmental Effects	Schuylkill River	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Pennsauken Creek	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Darby Creek	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Cooper River Lake	8E-08	0E+00	0E+00		8E-08

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Pennsauken Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Darby Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Cooper River Lake	3E-08	0E+00	0E+00		3E-08

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill River	1E-11	2E-09	4E-13	5E-11	2E-09
2,3,7,8-TCDD-TEQ	Pennsauken Creek	1E-11	4E-09	4E-13	5E-11	4E-09
2,3,7,8-TCDD-TEQ	Darby Creek	1E-11	1E-08	4E-13	5E-11	1E-08
2,3,7,8-TCDD-TEQ	Cooper River Lake	1E-11	1E-08	4E-13	5E-11	1E-08
Nickel	Schuylkill River				3E-09	
Nickel	Pennsauken Creek				3E-09	
Nickel	Darby Creek				3E-09	
Nickel	Cooper River Lake				3E-09	
Arsenic	Schuylkill River	1E-11	4E-12	2E-11	3E-09	4E-11
Arsenic	Pennsauken Creek	1E-11	1E-11	2E-11	3E-09	5E-11
Arsenic	Darby Creek	1E-11	6E-11	2E-11	3E-09	9E-11
Arsenic	Cooper River Lake	1E-11	5E-11	2E-11	3E-09	8E-11
Beryllium	Schuylkill River				1E-10	
Beryllium	Pennsauken Creek				1E-10	
Beryllium	Darby Creek				1E-10	
Beryllium	Cooper River Lake				1E-10	
Cadmium	Schuylkill River				1E-09	
Cadmium	Pennsauken Creek				1E-09	
Cadmium	Darby Creek				1E-09	
Cadmium	Cooper River Lake				1E-09	
Chromium VI	Schuylkill River				9E-09	
Chromium VI	Pennsauken Creek				9E-09	
Chromium VI	Darby Creek				9E-09	
Chromium VI	Cooper River Lake				9E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill River	3E-09	0E+00	2E-09	4E-04	5E-09
Manganese	Pennsauken Creek	3E-09	0E+00	2E-09	4E-04	5E-09
Manganese	Darby Creek	3E-09	0E+00	2E-09	4E-04	5E-09
Manganese	Cooper River Lake	3E-09	0E+00	2E-09	4E-04	5E-09
Mercury (elemental)	Schuylkill River				3E-04	
Mercury (elemental)	Pennsauken Creek				3E-04	
Mercury (elemental)	Darby Creek				3E-04	
Mercury (elemental)	Cooper River Lake				3E-04	
Mercury (divalent)	Schuylkill River	5E-07		0E+00		5E-07
Mercury (divalent)	Pennsauken Creek	5E-07		0E+00		5E-07
Mercury (divalent)	Darby Creek	5E-07		0E+00		5E-07
Mercury (divalent)	Cooper River Lake	5E-07		0E+00		5E-07
Nickel	Schuylkill River	2E-08	3E-09	6E-08		9E-08
Nickel	Pennsauken Creek	2E-08	7E-09	6E-08		9E-08
Nickel	Darby Creek	2E-08	3E-08	6E-08		1E-07
Nickel	Cooper River Lake	2E-08	3E-08	6E-08		1E-07
Silver	Schuylkill River	1E-10	0E+00	1E-08		1E-08
Silver	Pennsauken Creek	1E-10	0E+00	1E-08		1E-08
Silver	Darby Creek	1E-10	0E+00	1E-08		1E-08
Silver	Cooper River Lake	1E-10	0E+00	1E-08		1E-08
Thallium	Schuylkill River	2E-07	4E-07	1E-07		7E-07
Thallium	Pennsauken Creek	2E-07	1E-06	1E-07		2E-06
Thallium	Darby Creek	2E-07	6E-06	1E-07		6E-06
Thallium	Cooper River Lake	2E-07	5E-06	1E-07		5E-06

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill River	1E-09	0E+00	3E-08		3E-08
Antimony	Pennsauken Creek	1E-09	0E+00	3E-08		3E-08
Antimony	Darby Creek	1E-09	0E+00	3E-08		3E-08
Antimony	Cooper River Lake	1E-09	0E+00	3E-08		3E-08
Arsenic	Schuylkill River	1E-07	4E-08	2E-07		4E-07
Arsenic	Pennsauken Creek	1E-07	1E-07	2E-07		5E-07
Arsenic	Darby Creek	1E-07	5E-07	2E-07		9E-07
Arsenic	Cooper River Lake	1E-07	4E-07	2E-07		8E-07
Barium	Schuylkill River	3E-08	0E+00	2E-09	3E-05	3E-08
Barium	Pennsauken Creek	3E-08	0E+00	2E-09	3E-05	3E-08
Barium	Darby Creek	3E-08	0E+00	2E-09	3E-05	3E-08
Barium	Cooper River Lake	3E-08	0E+00	2E-09	3E-05	3E-08
Beryllium	Schuylkill River	2E-08	2E-09	2E-09		3E-08
Beryllium	Pennsauken Creek	2E-08	5E-09	2E-09		3E-08
Beryllium	Darby Creek	2E-08	2E-08	2E-09		4E-08
Beryllium	Cooper River Lake	2E-08	1E-08	2E-09		4E-08
Cadmium	Schuylkill River	1E-07	5E-07	1E-07		7E-07
Cadmium	Pennsauken Creek	1E-07	1E-06	1E-07		2E-06
Cadmium	Darby Creek	1E-07	6E-06	1E-07		7E-06
Cadmium	Cooper River Lake	1E-07	5E-06	1E-07		5E-06
Chromium VI	Schuylkill River	5E-09	4E-10	1E-08		2E-08
Chromium VI	Pennsauken Creek	5E-09	1E-09	1E-08		2E-08
Chromium VI	Darby Creek	5E-09	6E-09	1E-08		2E-08
Chromium VI	Cooper River Lake	5E-09	5E-09	1E-08		2E-08
Chromium III	Schuylkill River	7E-09	1E-11	5E-12		7E-09
Chromium III	Pennsauken Creek	7E-09	4E-11	5E-12		7E-09
Chromium III	Darby Creek	7E-09	6E-11	5E-12		7E-09
Chromium III	Cooper River Lake	7E-09	2E-11	5E-12		7E-09
Cobalt	Schuylkill River	7E-10	0E+00	9E-10		2E-09
Cobalt	Pennsauken Creek	7E-10	0E+00	9E-10		2E-09
Cobalt	Darby Creek	7E-10	0E+00	9E-10		2E-09
Cobalt	Cooper River Lake	7E-10	0E+00	9E-10		2E-09
Hydrogen Chloride	Schuylkill River				3E-04	
Hydrogen Chloride	Pennsauken Creek				3E-04	
Hydrogen Chloride	Darby Creek				3E-04	
Hydrogen Chloride	Cooper River Lake				3E-04	
Selenium	Schuylkill River	6E-09	5E-06	7E-08		5E-06
Selenium	Pennsauken Creek	6E-09	1E-05	7E-08		1E-05
Selenium	Darby Creek	6E-09	6E-05	7E-08		6E-05
Selenium	Cooper River Lake	6E-09	5E-05	7E-08		5E-05
Chlorine	Schuylkill River				1E-03	
Chlorine	Pennsauken Creek				1E-03	
Chlorine	Darby Creek				1E-03	
Chlorine	Cooper River Lake				1E-03	
Methylmercury - Developmental Effects	Schuylkill River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Pennsauken Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Darby Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Cooper River Lake	3E-08	0E+00	0E+00		3E-08

Table IX-D8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 504) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill River	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Pennsauken Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Darby Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Cooper River Lake	1E-08	0E+00	0E+00		1E-08

Table IX-D9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-09	8E-10	3E-10	2E-09	4E-07	5E-06	3E-08	1E-07	8E-08	1E-07	7E-13	3E-09	5E-06
Nickel												6E-09	
Arsenic	4E-10	1E-10	5E-11	3E-10	8E-10	1E-09	6E-11			3E-09	5E-12	8E-09	6E-09
Beryllium												5E-11	
Cadmium												8E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	4E-07	4E-07	2E-07	8E-07	1E-07	7E-06	1E-08			0E+00	3E-09	2E-03	9E-06
Mercury (elemental)												9E-06	
Mercury (divalent)	NA	4E-05	2E-04	8E-05	1E-03	9E-03	5E-06				6E-07		1E-02
Nickel	1E-06	5E-07	2E-07	1E-06	1E-05	1E-04	8E-07			4E-06	2E-08		1E-04
Silver	9E-11	1E-09	3E-10	3E-09	1E-08	6E-06	5E-10			0E+00	7E-11		6E-06
Thallium	7E-07	4E-08	2E-09	1E-07	1E-05	4E-05	2E-06			3E-05	4E-09		8E-05
Antimony	5E-06	2E-05	5E-06	5E-05	7E-05	4E-04	3E-06			0E+00	1E-06		6E-04
Arsenic	1E-05	3E-06	1E-06	7E-06	2E-05	4E-05	2E-06			8E-05	1E-07		2E-04
Barium	2E-07	2E-08	4E-09	3E-08	9E-09	1E-06	1E-09			0E+00	6E-11	8E-06	1E-06
Beryllium	2E-07	3E-09	6E-10	8E-09	3E-08	1E-09	1E-08			1E-08	1E-10		3E-07
Cadmium	3E-04	2E-04	1E-04	4E-04	2E-05	8E-05	4E-06			2E-02	2E-06		2E-02
Chromium VI	3E-07	7E-08	3E-08	2E-07	3E-06	4E-05	2E-07			8E-07	7E-09		5E-05
Chromium III	5E-08	6E-10	4E-10	1E-09	4E-08	5E-07	1E-08			4E-12	1E-13		6E-07
Cobalt	1E-07	2E-08	1E-10	5E-08	2E-06	9E-06	2E-07			0E+00	1E-09		1E-05
Hydrogen Chloride												3E-04	
Selenium	6E-07	4E-07	4E-07	1E-06	9E-06	8E-04	3E-05			1E-02	4E-08		1E-02
Chlorine												3E-02	
Methylmercury - Developmental Effects	1E-04	9E-06	3E-05	1E-05	8E-05	8E-04	3E-07			9E-02	6E-09		1E-01
Methylmercury - Neurological Effects	4E-05	3E-06	1E-05	3E-06	3E-05	3E-04	9E-08			3E-02	2E-09		3E-02

Table IX-D9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	6E-10	3E-10	2E-09	7E-07	3E-06	3E-08	1E-07	9E-08	1E-07	5E-13	4E-09	4E-06
Nickel												6E-09	
Arsenic	1E-10	9E-11	5E-11	4E-10	1E-09	1E-09	5E-11			3E-09	4E-12	9E-09	6E-09
Beryllium												6E-11	
Cadmium												9E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	1E-07	7E-07	2E-07	4E-06	7E-09			0E+00	1E-09	2E-03	5E-06
Mercury (elemental)												9E-06	
Mercury (divalent)	NA	2E-05	2E-04	8E-05	1E-03	4E-03	3E-06				3E-07		6E-03
Nickel	3E-07	3E-07	2E-07	1E-06	1E-05	6E-05	4E-07			3E-06	1E-08		8E-05
Silver	2E-11	6E-10	2E-10	2E-09	2E-08	3E-06	3E-10			0E+00	4E-11		3E-06
Thallium	2E-07	2E-08	2E-09	1E-07	2E-05	2E-05	1E-06			2E-05	2E-09		6E-05
Antimony	1E-06	1E-05	4E-06	5E-05	8E-05	2E-04	2E-06			0E+00	6E-07		4E-04
Arsenic	3E-06	2E-06	9E-07	7E-06	2E-05	2E-05	9E-07			6E-05	7E-08		1E-04
Barium	5E-08	1E-08	3E-09	3E-08	1E-08	5E-07	8E-10			0E+00	4E-11	8E-06	6E-07
Beryllium	6E-08	2E-09	4E-10	8E-09	4E-08	7E-10	6E-09			1E-08	6E-11		1E-07
Cadmium	7E-05	1E-04	7E-05	4E-04	3E-05	4E-05	2E-06			1E-02	1E-06		1E-02
Chromium VI	8E-08	4E-08	2E-08	2E-07	3E-06	2E-05	1E-07			6E-07	4E-09		3E-05
Chromium III	1E-08	3E-10	2E-10	1E-09	4E-08	2E-07	7E-09			3E-12	6E-14		3E-07
Cobalt	3E-08	1E-08	7E-11	4E-08	2E-06	5E-06	9E-08			0E+00	6E-10		7E-06
Hydrogen Chloride												3E-04	
Selenium	1E-07	2E-07	3E-07	1E-06	1E-05	4E-04	2E-05			9E-03	2E-08		9E-03
Chlorine												3E-02	
Methylmercury - Developmental Effects	3E-05	5E-06	2E-05	1E-05	1E-04	4E-04	2E-07			7E-02	3E-09		7E-02
Methylmercury - Neurological Effects	1E-05	2E-06	7E-06	3E-06	3E-05	1E-04	6E-08			2E-02	1E-09		2E-02

Table IX-D9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	5E-10	2E-10	1E-09	3E-07	1E-06	2E-08	9E-08	5E-08	6E-08	3E-13	2E-09	2E-06
Nickel												4E-09	
Arsenic	7E-11	7E-11	3E-11	2E-10	6E-10	5E-10	3E-11			2E-09	3E-12	6E-09	3E-09
Beryllium												4E-11	
Cadmium												6E-08	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-08	2E-07	1E-07	4E-07	8E-08	2E-06	5E-09			0E+00	1E-09	2E-03	2E-06
Mercury (elemental)												9E-06	
Mercury (divalent)	3E-04	2E-05	1E-04	4E-05	6E-04	2E-03	2E-06			0E+00	2E-07		3E-03
Nickel	2E-07	2E-07	1E-07	6E-07	6E-06	3E-05	3E-07			1E-06	9E-09		4E-05
Silver	1E-11	4E-10	1E-10	1E-09	8E-09	1E-06	2E-10			0E+00	2E-11		1E-06
Thallium	9E-08	2E-08	1E-09	6E-08	7E-06	8E-06	6E-07			1E-05	1E-09		3E-05
Antimony	7E-07	9E-06	3E-06	2E-05	4E-05	1E-04	1E-06			0E+00	4E-07		2E-04
Arsenic	1E-06	1E-06	7E-07	4E-06	1E-05	8E-06	6E-07			3E-05	5E-08		6E-05
Barium	2E-08	7E-09	2E-09	2E-08	5E-09	2E-07	5E-10			0E+00	2E-11	8E-06	3E-07
Beryllium	3E-08	1E-09	3E-10	4E-09	2E-08	3E-10	4E-09			6E-09	4E-11		7E-08
Cadmium	4E-05	9E-05	5E-05	2E-04	1E-05	2E-05	2E-06			6E-03	7E-07		6E-03
Chromium VI	4E-08	3E-08	2E-08	1E-07	1E-06	1E-05	7E-08			3E-07	2E-09		1E-05
Chromium III	7E-09	2E-10	2E-10	8E-10	2E-08	1E-07	5E-09			2E-12	4E-14		1E-07
Cobalt	2E-08	8E-09	5E-11	2E-08	9E-07	2E-06	6E-08			0E+00	4E-10		3E-06
Hydrogen Chloride												3E-04	
Selenium	8E-08	2E-07	2E-07	6E-07	5E-06	2E-04	1E-05			5E-03	2E-08		5E-03
Chlorine												3E-02	
Methylmercury - Developmental Effects	2E-05	4E-06	1E-05	5E-06	4E-05	2E-04	1E-07			4E-02	2E-09		4E-02
Methylmercury - Neurological Effects	5E-06	1E-06	5E-06	2E-06	1E-05	6E-05	4E-08			1E-02	7E-10		1E-02

Table IX-D9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-10	1E-09	4E-10	2E-09	7E-07	1E-06	3E-08	1E-07	8E-08	1E-07	8E-13	3E-09	2E-06
Nickel												6E-09	
Arsenic	6E-11	2E-10	6E-11	3E-10	1E-09	4E-10	6E-11			4E-09	6E-12	9E-09	6E-09
Beryllium												5E-11	
Cadmium												8E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-07	1E-07	4E-07	9E-08	7E-07	4E-09			0E+00	1E-09	2E-03	2E-06
Mercury (elemental)												9E-06	
Mercury (divalent)	1E-04	2E-05	1E-04	4E-05	7E-04	9E-04	2E-06			0E+00	3E-07		2E-03
Nickel	7E-08	3E-07	1E-07	6E-07	7E-06	1E-05	3E-07			2E-06	1E-08		2E-05
Silver	5E-12	6E-10	2E-10	1E-09	9E-09	6E-07	2E-10			0E+00	3E-11		6E-07
Thallium	4E-08	2E-08	1E-09	5E-08	8E-06	4E-06	6E-07			1E-05	2E-09		3E-05
Antimony	3E-07	1E-05	3E-06	2E-05	4E-05	4E-05	1E-06			0E+00	4E-07		1E-04
Arsenic	5E-07	2E-06	8E-07	3E-06	1E-05	4E-06	5E-07			3E-05	6E-08		6E-05
Barium	1E-08	1E-08	2E-09	2E-08	5E-09	1E-07	4E-10			0E+00	3E-11	8E-06	2E-07
Beryllium	1E-08	2E-09	3E-10	4E-09	2E-08	1E-10	4E-09			6E-09	4E-11		5E-08
Cadmium	1E-05	1E-04	5E-05	2E-04	1E-05	8E-06	1E-06			7E-03	8E-07		7E-03
Chromium VI	2E-08	4E-08	2E-08	1E-07	2E-06	4E-06	6E-08			3E-07	3E-09		7E-06
Chromium III	3E-09	3E-10	2E-10	7E-10	2E-08	5E-08	4E-09			2E-12	5E-14		8E-08
Cobalt	6E-09	1E-08	6E-11	2E-08	1E-06	9E-07	5E-08			0E+00	4E-10		2E-06
Hydrogen Chloride												3E-04	
Selenium	3E-08	3E-07	2E-07	6E-07	5E-06	8E-05	1E-05			5E-03	2E-08		5E-03
Chlorine												3E-02	
Methylmercury - Developmental Effects	7E-06	5E-06	2E-05	5E-06	5E-05	8E-05	9E-08			4E-02	3E-09		4E-02
Methylmercury - Neurological Effects	2E-06	2E-06	5E-06	2E-06	2E-05	3E-05	3E-08			1E-02	9E-10		1E-02

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Brazos River	7E-09	1E-09	7E-13	3E-09	8E-09
2,3,7,8-TCDD-TEQ	Lake Jackson	7E-09	1E-07	7E-13	3E-09	1E-07
2,3,7,8-TCDD-TEQ	Oyster Creek	7E-09	9E-09	7E-13	3E-09	2E-08
Nickel	Brazos River				6E-09	
Nickel	Lake Jackson				6E-09	
Nickel	Oyster Creek				6E-09	
Arsenic	Brazos River	4E-10	6E-13	5E-12	8E-09	4E-10
Arsenic	Lake Jackson	4E-10	8E-10	5E-12	8E-09	1E-09
Arsenic	Oyster Creek	4E-10	4E-12	5E-12	8E-09	4E-10
Beryllium	Brazos River				5E-11	
Beryllium	Lake Jackson				5E-11	
Beryllium	Oyster Creek				5E-11	
Cadmium	Brazos River				8E-08	
Cadmium	Lake Jackson				8E-08	
Cadmium	Oyster Creek				8E-08	
Chromium VI	Brazos River				2E-08	
Chromium VI	Lake Jackson				2E-08	
Chromium VI	Oyster Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Brazos River	4E-07	0E+00	3E-09	2E-03	4E-07
Manganese	Lake Jackson	4E-07	0E+00	3E-09	2E-03	4E-07
Manganese	Oyster Creek	4E-07	0E+00	3E-09	2E-03	4E-07
Mercury (elemental)	Brazos River				9E-06	
Mercury (elemental)	Lake Jackson				9E-06	
Mercury (elemental)	Oyster Creek				9E-06	
Mercury (divalent)	Brazos River	2E-03		6E-07		2E-03
Mercury (divalent)	Lake Jackson	2E-03		6E-07		2E-03
Mercury (divalent)	Oyster Creek	2E-03		6E-07		2E-03
Nickel	Brazos River	1E-06	6E-10	2E-08		1E-06
Nickel	Lake Jackson	1E-06	9E-07	2E-08		2E-06
Nickel	Oyster Creek	1E-06	4E-09	2E-08		1E-06
Silver	Brazos River	9E-11	0E+00	7E-11		2E-10
Silver	Lake Jackson	9E-11	0E+00	7E-11		2E-10
Silver	Oyster Creek	9E-11	0E+00	7E-11		2E-10
Thallium	Brazos River	7E-07	8E-09	4E-09		7E-07
Thallium	Lake Jackson	7E-07	1E-05	4E-09		1E-05
Thallium	Oyster Creek	7E-07	6E-08	4E-09		7E-07
Antimony	Brazos River	5E-06	0E+00	1E-06		6E-06
Antimony	Lake Jackson	5E-06	0E+00	1E-06		6E-06
Antimony	Oyster Creek	5E-06	0E+00	1E-06		6E-06
Arsenic	Brazos River	1E-05	1E-08	1E-07		1E-05
Arsenic	Lake Jackson	1E-05	2E-05	1E-07		3E-05
Arsenic	Oyster Creek	1E-05	1E-07	1E-07		1E-05
Barium	Brazos River	2E-07	0E+00	6E-11	8E-06	2E-07
Barium	Lake Jackson	2E-07	0E+00	6E-11	8E-06	2E-07
Barium	Oyster Creek	2E-07	0E+00	6E-11	8E-06	2E-07
Beryllium	Brazos River	2E-07	8E-11	1E-10		2E-07
Beryllium	Lake Jackson	2E-07	2E-08	1E-10		2E-07
Beryllium	Oyster Creek	2E-07	5E-10	1E-10		2E-07

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Brazos River	3E-04	5E-06	2E-06		3E-04
Cadmium	Lake Jackson	3E-04	6E-03	2E-06		6E-03
Cadmium	Oyster Creek	3E-04	4E-05	2E-06		3E-04
Chromium VI	Brazos River	3E-07	1E-10	7E-09		3E-07
Chromium VI	Lake Jackson	3E-07	2E-07	7E-09		5E-07
Chromium VI	Oyster Creek	3E-07	9E-10	7E-09		3E-07
Chromium III	Brazos River	5E-08	5E-13	1E-13		5E-08
Chromium III	Lake Jackson	5E-08	2E-11	1E-13		5E-08
Chromium III	Oyster Creek	5E-08	3E-12	1E-13		5E-08
Cobalt	Brazos River	1E-07	0E+00	1E-13		1E-07
Cobalt	Lake Jackson	1E-07	0E+00	1E-13		1E-07
Cobalt	Oyster Creek	1E-07	0E+00	1E-13		1E-07
Hydrogen Chloride	Brazos River				3E-04	
Hydrogen Chloride	Lake Jackson				3E-04	
Hydrogen Chloride	Oyster Creek				3E-04	
Selenium	Brazos River	6E-07	2E-06	4E-08		2E-06
Selenium	Lake Jackson	6E-07	3E-03	4E-08		3E-03
Selenium	Oyster Creek	6E-07	1E-05	4E-08		1E-05
Chlorine	Brazos River				3E-02	
Chlorine	Lake Jackson				3E-02	
Chlorine	Oyster Creek				3E-02	
Methylmercury - Developmental Effects	Brazos River	1E-04	9E-04	6E-09		1E-03
Methylmercury - Developmental Effects	Lake Jackson	1E-04	7E-02	6E-09		7E-02
Methylmercury - Developmental Effects	Oyster Creek	1E-04	4E-03	6E-09		4E-03
Methylmercury - Neurological Effects	Brazos River	4E-05	3E-04	2E-09		3E-04
Methylmercury - Neurological Effects	Lake Jackson	4E-05	2E-02	2E-09		2E-02
Methylmercury - Neurological Effects	Oyster Creek	4E-05	1E-03	2E-09		1E-03

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Brazos River	2E-09	2E-09	5E-13	4E-09	4E-09
2,3,7,8-TCDD-TEQ	Lake Jackson	2E-09	2E-07	5E-13	4E-09	2E-07
2,3,7,8-TCDD-TEQ	Oyster Creek	2E-09	1E-08	5E-13	4E-09	1E-08
Nickel	Brazos River				6E-09	
Nickel	Lake Jackson				6E-09	
Nickel	Oyster Creek				6E-09	
Arsenic	Brazos River	1E-10	8E-13	4E-12	9E-09	1E-10
Arsenic	Lake Jackson	1E-10	1E-09	4E-12	9E-09	1E-09
Arsenic	Oyster Creek	1E-10	6E-12	4E-12	9E-09	1E-10
Beryllium	Brazos River				6E-11	
Beryllium	Lake Jackson				6E-11	
Beryllium	Oyster Creek				6E-11	
Cadmium	Brazos River				9E-08	
Cadmium	Lake Jackson				9E-08	
Cadmium	Oyster Creek				9E-08	
Chromium VI	Brazos River				2E-08	
Chromium VI	Lake Jackson				2E-08	
Chromium VI	Oyster Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Brazos River	1E-07	0E+00	1E-09	2E-03	1E-07
Manganese	Lake Jackson	1E-07	0E+00	1E-09	2E-03	1E-07
Manganese	Oyster Creek	1E-07	0E+00	1E-09	2E-03	1E-07
Mercury (elemental)	Brazos River				9E-06	
Mercury (elemental)	Lake Jackson				9E-06	
Mercury (elemental)	Oyster Creek				9E-06	
Mercury (divalent)	Brazos River	5E-04		3E-07		5E-04
Mercury (divalent)	Lake Jackson	5E-04		3E-07		5E-04
Mercury (divalent)	Oyster Creek	5E-04		3E-07		5E-04
Nickel	Brazos River	3E-07	6E-10	1E-08		4E-07
Nickel	Lake Jackson	3E-07	9E-07	1E-08		1E-06
Nickel	Oyster Creek	3E-07	4E-09	1E-08		4E-07
Silver	Brazos River	2E-11	0E+00	4E-11		6E-11
Silver	Lake Jackson	2E-11	0E+00	4E-11		6E-11
Silver	Oyster Creek	2E-11	0E+00	4E-11		6E-11
Thallium	Brazos River	2E-07	8E-09	2E-09		2E-07
Thallium	Lake Jackson	2E-07	1E-05	2E-09		1E-05
Thallium	Oyster Creek	2E-07	6E-08	2E-09		2E-07
Antimony	Brazos River	1E-06	0E+00	6E-07		2E-06
Antimony	Lake Jackson	1E-06	0E+00	6E-07		2E-06
Antimony	Oyster Creek	1E-06	0E+00	6E-07		2E-06
Arsenic	Brazos River	3E-06	1E-08	7E-08		3E-06
Arsenic	Lake Jackson	3E-06	2E-05	7E-08		2E-05
Arsenic	Oyster Creek	3E-06	1E-07	7E-08		3E-06
Barium	Brazos River	5E-08	0E+00	4E-11	8E-06	5E-08
Barium	Lake Jackson	5E-08	0E+00	4E-11	8E-06	5E-08
Barium	Oyster Creek	5E-08	0E+00	4E-11	8E-06	5E-08
Beryllium	Brazos River	6E-08	8E-11	6E-11		6E-08
Beryllium	Lake Jackson	6E-08	2E-08	6E-11		7E-08
Beryllium	Oyster Creek	6E-08	5E-10	6E-11		6E-08

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Brazos River	7E-05	5E-06	1E-06		8E-05
Cadmium	Lake Jackson	7E-05	6E-03	1E-06		6E-03
Cadmium	Oyster Creek	7E-05	4E-05	1E-06		1E-04
Chromium VI	Brazos River	8E-08	1E-10	4E-09		9E-08
Chromium VI	Lake Jackson	8E-08	2E-07	4E-09		3E-07
Chromium VI	Oyster Creek	8E-08	9E-10	4E-09		9E-08
Chromium III	Brazos River	1E-08	5E-13	6E-14		1E-08
Chromium III	Lake Jackson	1E-08	2E-11	6E-14		1E-08
Chromium III	Oyster Creek	1E-08	3E-12	6E-14		1E-08
Cobalt	Brazos River	3E-08	0E+00	6E-14		3E-08
Cobalt	Lake Jackson	3E-08	0E+00	6E-14		3E-08
Cobalt	Oyster Creek	3E-08	0E+00	6E-14		3E-08
Hydrogen Chloride	Brazos River				3E-04	
Hydrogen Chloride	Lake Jackson				3E-04	
Hydrogen Chloride	Oyster Creek				3E-04	
Selenium	Brazos River	1E-07	2E-06	2E-08		2E-06
Selenium	Lake Jackson	1E-07	3E-03	2E-08		3E-03
Selenium	Oyster Creek	1E-07	1E-05	2E-08		1E-05
Chlorine	Brazos River				3E-02	
Chlorine	Lake Jackson				3E-02	
Chlorine	Oyster Creek				3E-02	
Methylmercury - Developmental Effects	Brazos River	3E-05	9E-04	3E-09		9E-04
Methylmercury - Developmental Effects	Lake Jackson	3E-05	7E-02	3E-09		7E-02
Methylmercury - Developmental Effects	Oyster Creek	3E-05	4E-03	3E-09		4E-03
Methylmercury - Neurological Effects	Brazos River	1E-05	3E-04	1E-09		3E-04
Methylmercury - Neurological Effects	Lake Jackson	1E-05	2E-02	1E-09		2E-02
Methylmercury - Neurological Effects	Oyster Creek	1E-05	1E-03	1E-09		1E-03

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Brazos River	1E-09	1E-09	3E-13	2E-09	3E-09
2,3,7,8-TCDD-TEQ	Lake Jackson	1E-09	1E-07	3E-13	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Oyster Creek	1E-09	9E-09	3E-13	2E-09	1E-08
Nickel	Brazos River				4E-09	
Nickel	Lake Jackson				4E-09	
Nickel	Oyster Creek				4E-09	
Arsenic	Brazos River	7E-11	6E-13	3E-12	6E-09	8E-11
Arsenic	Lake Jackson	7E-11	8E-10	3E-12	6E-09	9E-10
Arsenic	Oyster Creek	7E-11	4E-12	3E-12	6E-09	8E-11
Beryllium	Brazos River				4E-11	
Beryllium	Lake Jackson				4E-11	
Beryllium	Oyster Creek				4E-11	
Cadmium	Brazos River				6E-08	
Cadmium	Lake Jackson				6E-08	
Cadmium	Oyster Creek				6E-08	
Chromium VI	Brazos River				1E-08	
Chromium VI	Lake Jackson				1E-08	
Chromium VI	Oyster Creek				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Brazos River	6E-08	0E+00	1E-09	2E-03	6E-08
Manganese	Lake Jackson	6E-08	0E+00	1E-09	2E-03	6E-08
Manganese	Oyster Creek	6E-08	0E+00	1E-09	2E-03	6E-08
Mercury (elemental)	Brazos River				9E-06	
Mercury (elemental)	Lake Jackson				9E-06	
Mercury (elemental)	Oyster Creek				9E-06	
Mercury (divalent)	Brazos River	3E-04		2E-07		3E-04
Mercury (divalent)	Lake Jackson	3E-04		2E-07		3E-04
Mercury (divalent)	Oyster Creek	3E-04		2E-07		3E-04
Nickel	Brazos River	2E-07	4E-10	9E-09		2E-07
Nickel	Lake Jackson	2E-07	6E-07	9E-09		8E-07
Nickel	Oyster Creek	2E-07	3E-09	9E-09		2E-07
Silver	Brazos River	1E-11	0E+00	2E-11		4E-11
Silver	Lake Jackson	1E-11	0E+00	2E-11		4E-11
Silver	Oyster Creek	1E-11	0E+00	2E-11		4E-11
Thallium	Brazos River	9E-08	6E-09	1E-09		1E-07
Thallium	Lake Jackson	9E-08	7E-06	1E-09		7E-06
Thallium	Oyster Creek	9E-08	4E-08	1E-09		1E-07
Antimony	Brazos River	7E-07	0E+00	4E-07		1E-06
Antimony	Lake Jackson	7E-07	0E+00	4E-07		1E-06
Antimony	Oyster Creek	7E-07	0E+00	4E-07		1E-06
Arsenic	Brazos River	1E-06	1E-08	5E-08		1E-06
Arsenic	Lake Jackson	1E-06	1E-05	5E-08		2E-05
Arsenic	Oyster Creek	1E-06	7E-08	5E-08		1E-06
Barium	Brazos River	2E-08	0E+00	2E-11	8E-06	2E-08
Barium	Lake Jackson	2E-08	0E+00	2E-11	8E-06	2E-08
Barium	Oyster Creek	2E-08	0E+00	2E-11	8E-06	2E-08
Beryllium	Brazos River	3E-08	6E-11	4E-11		3E-08
Beryllium	Lake Jackson	3E-08	1E-08	4E-11		4E-08
Beryllium	Oyster Creek	3E-08	4E-10	4E-11		3E-08

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Brazos River	4E-05	4E-06	7E-07		4E-05
Cadmium	Lake Jackson	4E-05	4E-03	7E-07		4E-03
Cadmium	Oyster Creek	4E-05	3E-05	7E-07		6E-05
Chromium VI	Brazos River	4E-08	9E-11	2E-09		5E-08
Chromium VI	Lake Jackson	4E-08	1E-07	2E-09		2E-07
Chromium VI	Oyster Creek	4E-08	6E-10	2E-09		5E-08
Chromium III	Brazos River	7E-09	3E-13	4E-14		7E-09
Chromium III	Lake Jackson	7E-09	2E-11	4E-14		7E-09
Chromium III	Oyster Creek	7E-09	2E-12	4E-14		7E-09
Cobalt	Brazos River	2E-08	0E+00	4E-10		2E-08
Cobalt	Lake Jackson	2E-08	0E+00	4E-10		2E-08
Cobalt	Oyster Creek	2E-08	0E+00	4E-10		2E-08
Hydrogen Chloride	Brazos River				3E-04	
Hydrogen Chloride	Lake Jackson				3E-04	
Hydrogen Chloride	Oyster Creek				3E-04	
Selenium	Brazos River	8E-08	1E-06	2E-08		1E-06
Selenium	Lake Jackson	8E-08	2E-03	2E-08		2E-03
Selenium	Oyster Creek	8E-08	9E-06	2E-08		9E-06
Chlorine	Brazos River				3E-02	
Chlorine	Lake Jackson				3E-02	
Chlorine	Oyster Creek				3E-02	
Methylmercury - Developmental Effects	Brazos River	2E-05	7E-04	2E-09		7E-04
Methylmercury - Developmental Effects	Lake Jackson	2E-05	5E-02	2E-09		5E-02
Methylmercury - Developmental Effects	Oyster Creek	2E-05	3E-03	2E-09		3E-03
Methylmercury - Neurological Effects	Brazos River	5E-06	2E-04	7E-10		2E-04
Methylmercury - Neurological Effects	Lake Jackson	5E-06	2E-02	7E-10		2E-02
Methylmercury - Neurological Effects	Oyster Creek	5E-06	9E-04	7E-10		9E-04

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Brazos River	9E-10	3E-09	8E-13	3E-09	4E-09
2,3,7,8-TCDD-TEQ	Lake Jackson	9E-10	2E-07	8E-13	3E-09	2E-07
2,3,7,8-TCDD-TEQ	Oyster Creek	9E-10	2E-08	8E-13	3E-09	2E-08
Nickel	Brazos River				6E-09	
Nickel	Lake Jackson				6E-09	
Nickel	Oyster Creek				6E-09	
Arsenic	Brazos River	6E-11	1E-12	6E-12	9E-09	6E-11
Arsenic	Lake Jackson	6E-11	2E-09	6E-12	9E-09	2E-09
Arsenic	Oyster Creek	6E-11	8E-12	6E-12	9E-09	7E-11
Beryllium	Brazos River				5E-11	
Beryllium	Lake Jackson				5E-11	
Beryllium	Oyster Creek				5E-11	
Cadmium	Brazos River				8E-08	
Cadmium	Lake Jackson				8E-08	
Cadmium	Oyster Creek				8E-08	
Chromium VI	Brazos River				2E-08	
Chromium VI	Lake Jackson				2E-08	
Chromium VI	Oyster Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Brazos River	2E-08	0E+00	1E-09	2E-03	2E-08
Manganese	Lake Jackson	2E-08	0E+00	1E-09	2E-03	2E-08
Manganese	Oyster Creek	2E-08	0E+00	1E-09	2E-03	2E-08
Mercury (elemental)	Brazos River				9E-06	
Mercury (elemental)	Lake Jackson				9E-06	
Mercury (elemental)	Oyster Creek				9E-06	
Mercury (divalent)	Brazos River	1E-04		3E-07		1E-04
Mercury (divalent)	Lake Jackson	1E-04		3E-07		1E-04
Mercury (divalent)	Oyster Creek	1E-04		3E-07		1E-04
Nickel	Brazos River	7E-08	4E-10	1E-08		8E-08
Nickel	Lake Jackson	7E-08	6E-07	1E-08		7E-07
Nickel	Oyster Creek	7E-08	3E-09	1E-08		9E-08
Silver	Brazos River	5E-12	0E+00	3E-11		3E-11
Silver	Lake Jackson	5E-12	0E+00	3E-11		3E-11
Silver	Oyster Creek	5E-12	0E+00	3E-11		3E-11
Thallium	Brazos River	4E-08	6E-09	2E-09		5E-08
Thallium	Lake Jackson	4E-08	7E-06	2E-09		7E-06
Thallium	Oyster Creek	4E-08	4E-08	2E-09		8E-08
Antimony	Brazos River	3E-07	0E+00	4E-07		7E-07
Antimony	Lake Jackson	3E-07	0E+00	4E-07		7E-07
Antimony	Oyster Creek	3E-07	0E+00	4E-07		7E-07
Arsenic	Brazos River	5E-07	1E-08	6E-08		6E-07
Arsenic	Lake Jackson	5E-07	1E-05	6E-08		2E-05
Arsenic	Oyster Creek	5E-07	7E-08	6E-08		7E-07
Barium	Brazos River	1E-08	0E+00	3E-11	8E-06	1E-08
Barium	Lake Jackson	1E-08	0E+00	3E-11	8E-06	1E-08
Barium	Oyster Creek	1E-08	0E+00	3E-11	8E-06	1E-08
Beryllium	Brazos River	1E-08	6E-11	4E-11		1E-08
Beryllium	Lake Jackson	1E-08	1E-08	4E-11		2E-08
Beryllium	Oyster Creek	1E-08	4E-10	4E-11		1E-08

Table IX-D10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 600) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Brazos River	1E-05	4E-06	8E-07		2E-05
Cadmium	Lake Jackson	1E-05	4E-03	8E-07		4E-03
Cadmium	Oyster Creek	1E-05	3E-05	8E-07		4E-05
Chromium VI	Brazos River	2E-08	9E-11	3E-09		2E-08
Chromium VI	Lake Jackson	2E-08	1E-07	3E-09		2E-07
Chromium VI	Oyster Creek	2E-08	6E-10	3E-09		2E-08
Chromium III	Brazos River	3E-09	3E-13	5E-14		3E-09
Chromium III	Lake Jackson	3E-09	2E-11	5E-14		3E-09
Chromium III	Oyster Creek	3E-09	2E-12	5E-14		3E-09
Cobalt	Brazos River	6E-09	0E+00	4E-10		7E-09
Cobalt	Lake Jackson	6E-09	0E+00	4E-10		7E-09
Cobalt	Oyster Creek	6E-09	0E+00	4E-10		7E-09
Hydrogen Chloride	Brazos River				3E-04	
Hydrogen Chloride	Lake Jackson				3E-04	
Hydrogen Chloride	Oyster Creek				3E-04	
Selenium	Brazos River	3E-08	1E-06	2E-08		1E-06
Selenium	Lake Jackson	3E-08	2E-03	2E-08		2E-03
Selenium	Oyster Creek	3E-08	9E-06	2E-08		9E-06
Chlorine	Brazos River				3E-02	
Chlorine	Lake Jackson				3E-02	
Chlorine	Oyster Creek				3E-02	
Methylmercury - Developmental Effects	Brazos River	7E-06	7E-04	3E-09		7E-04
Methylmercury - Developmental Effects	Lake Jackson	7E-06	5E-02	3E-09		5E-02
Methylmercury - Developmental Effects	Oyster Creek	7E-06	3E-03	3E-09		3E-03
Methylmercury - Neurological Effects	Brazos River	2E-06	2E-04	9E-10		2E-04
Methylmercury - Neurological Effects	Lake Jackson	2E-06	2E-02	9E-10		2E-02
Methylmercury - Neurological Effects	Oyster Creek	2E-06	9E-04	9E-10		9E-04

Table IX-D11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	5E-10	4E-10	1E-09	2E-07	3E-06	3E-08	2E-07	1E-07	6E-08	3E-14	1E-09	3E-06
Nickel												1E-10	
Arsenic	1E-11	7E-12	3E-12	1E-11	4E-11	6E-11	3E-12			9E-11	3E-14	3E-10	2E-10
Beryllium												6E-12	
Cadmium												5E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-08	8E-08	4E-08	2E-07	2E-08	1E-06	2E-09			0E+00	5E-11	3E-04	1E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	7E-06	9E-08	1E-05	6E-06	9E-05	4E-09				2E-12		1E-04
Nickel	2E-08	1E-08	5E-09	3E-08	3E-07	3E-06	2E-08			4E-08	6E-11		3E-06
Silver	1E-10	2E-09	4E-10	4E-09	3E-08	1E-05	1E-09			0E+00	1E-11		1E-05
Thallium	9E-07	9E-08	5E-09	2E-07	3E-05	7E-05	2E-06			3E-05	8E-10		1E-04
Antimony	1E-08	5E-08	1E-08	1E-07	2E-07	1E-06	8E-09			0E+00	4E-10		2E-06
Arsenic	4E-07	2E-07	8E-08	4E-07	9E-07	2E-06	6E-08			2E-06	8E-10		6E-06
Barium	3E-07	3E-08	7E-09	5E-08	1E-08	2E-06	2E-09			0E+00	6E-12	7E-06	2E-06
Beryllium	5E-08	6E-10	1E-10	2E-09	7E-09	3E-10	2E-09			2E-09	2E-12		6E-08
Cadmium	2E-06	2E-06	1E-06	4E-06	2E-07	6E-07	3E-08			7E-05	2E-09		8E-05
Chromium VI	9E-08	3E-08	1E-08	9E-08	1E-06	2E-05	7E-08			2E-07	3E-10		2E-05
Chromium III	3E-08	3E-10	2E-10	8E-10	2E-08	3E-07	8E-09			1E-12	3E-15		3E-07
Cobalt	1E-08	4E-09	2E-11	9E-09	3E-07	2E-06	2E-08			0E+00	2E-11		2E-06
Hydrogen Chloride												5E-05	
Selenium	7E-09	6E-09	5E-09	2E-08	1E-07	1E-05	5E-07			1E-04	8E-11		1E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	5E-08	2E-06	1E-08	2E-06	5E-06	7E-05	9E-10			2E-05	3E-14		1E-04
Methylmercury - Neurological Effects	2E-08	8E-07	4E-09	7E-07	2E-06	2E-05	3E-10			7E-06	9E-15		3E-05

Table IX-D11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	4E-10	3E-10	1E-09	4E-07	2E-06	2E-08	2E-07	1E-07	6E-08	2E-14	1E-09	3E-06
Nickel												1E-10	
Arsenic	5E-12	5E-12	3E-12	2E-11	6E-11	4E-11	2E-12			9E-11	2E-14	4E-10	2E-10
Beryllium												7E-12	
Cadmium												6E-10	
Chromium VI												7E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	4E-08	3E-08	1E-07	3E-08	6E-07	1E-09			0E+00	3E-11	3E-04	8E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	4E-06	7E-08	1E-05	7E-06	4E-05	3E-09				1E-12		7E-05
Nickel	5E-09	7E-09	3E-09	3E-08	3E-07	1E-06	9E-09			3E-08	3E-11		2E-06
Silver	3E-11	9E-10	3E-10	4E-09	3E-08	6E-06	6E-10			0E+00	7E-12		6E-06
Thallium	2E-07	5E-08	4E-09	2E-07	3E-05	4E-05	1E-06			2E-05	4E-10		9E-05
Antimony	3E-09	3E-08	9E-09	1E-07	2E-07	6E-07	5E-09			0E+00	2E-10		1E-06
Arsenic	1E-07	9E-08	5E-08	4E-07	1E-06	8E-07	4E-08			2E-06	4E-10		4E-06
Barium	7E-08	2E-08	5E-09	5E-08	2E-08	8E-07	1E-09			0E+00	3E-12	7E-06	1E-06
Beryllium	1E-08	4E-10	9E-11	2E-09	8E-09	1E-10	1E-09			1E-09	9E-13		3E-08
Cadmium	4E-07	1E-06	7E-07	4E-06	2E-07	3E-07	2E-08			5E-05	9E-10		6E-05
Chromium VI	2E-08	2E-08	9E-09	9E-08	2E-06	1E-05	4E-08			1E-07	2E-10		1E-05
Chromium III	8E-09	2E-10	2E-10	7E-10	2E-08	1E-07	5E-09			1E-12	1E-15		2E-07
Cobalt	3E-09	2E-09	1E-11	8E-09	3E-07	9E-07	1E-08			0E+00	1E-11		1E-06
Hydrogen Chloride												5E-05	
Selenium	2E-09	4E-09	4E-09	2E-08	2E-07	6E-06	3E-07			7E-05	5E-11		8E-05
Chlorine												1E-03	
Methylmercury - Developmental Effects	1E-08	1E-06	9E-09	2E-06	6E-06	4E-05	5E-10			2E-05	2E-14		6E-05
Methylmercury - Neurological Effects	4E-09	4E-07	3E-09	7E-07	2E-06	1E-05	2E-10			6E-06	5E-15		2E-05

Table IX-D11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	3E-10	2E-10	7E-10	2E-07	9E-07	2E-08	1E-07	6E-08	3E-08	1E-14	1E-09	1E-06
Nickel												7E-11	
Arsenic	3E-12	4E-12	2E-12	1E-11	3E-11	2E-11	1E-12			5E-11	2E-14	3E-10	1E-10
Beryllium												4E-12	
Cadmium												4E-10	
Chromium VI												5E-09	
	Noncarcinogenic Chemicals												
Manganese	7E-09	3E-08	2E-08	8E-08	1E-08	3E-07	7E-10			0E+00	2E-11	3E-04	4E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	1E-07	3E-06	5E-08	7E-06	3E-06	2E-05	2E-09			0E+00	8E-13		3E-05
Nickel	3E-09	5E-09	2E-09	1E-08	2E-07	7E-07	6E-09			2E-08	2E-11		9E-07
Silver	2E-11	7E-10	2E-10	2E-09	2E-08	3E-06	4E-10			0E+00	5E-12		3E-06
Thallium	1E-07	4E-08	3E-09	1E-07	1E-05	2E-05	9E-07			1E-05	3E-10		4E-05
Antimony	2E-09	2E-08	6E-09	6E-08	1E-07	3E-07	3E-09			0E+00	1E-10		5E-07
Arsenic	5E-08	7E-08	4E-08	2E-07	5E-07	4E-07	3E-08			8E-07	3E-10		2E-06
Barium	4E-08	1E-08	4E-09	3E-08	7E-09	4E-07	8E-10			0E+00	2E-12	7E-06	5E-07
Beryllium	7E-09	3E-10	7E-11	8E-10	4E-09	6E-11	9E-10			7E-10	6E-13		1E-08
Cadmium	2E-07	9E-07	5E-07	2E-06	9E-08	1E-07	1E-08			3E-05	6E-10		3E-05
Chromium VI	1E-08	1E-08	6E-09	5E-08	7E-07	5E-06	3E-08			6E-08	1E-10		6E-06
Chromium III	4E-09	1E-10	1E-10	4E-10	1E-08	6E-08	3E-09			5E-13	9E-16		8E-08
Cobalt	2E-09	2E-09	1E-11	4E-09	2E-07	4E-07	9E-09			0E+00	7E-12		6E-07
Hydrogen Chloride												5E-05	
Selenium	1E-09	3E-09	3E-09	9E-09	7E-08	3E-06	2E-07			4E-05	3E-11		4E-05
Chlorine												1E-03	
Methylmercury - Developmental Effects	7E-09	1E-06	6E-09	1E-06	3E-06	2E-05	4E-10			9E-06	1E-14		3E-05
Methylmercury - Neurological Effects	2E-09	3E-07	2E-09	4E-07	8E-07	5E-06	1E-10			3E-06	3E-15		1E-05

Table IX-D11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	7E-10	4E-10	1E-09	4E-07	7E-07	2E-08	2E-07	1E-07	7E-08	3E-14	1E-09	2E-06
Nickel												1E-10	
Arsenic	2E-12	9E-12	4E-12	2E-11	6E-11	2E-11	2E-12			1E-10	4E-14	4E-10	2E-10
Beryllium												6E-12	
Cadmium												5E-10	
Chromium VI												7E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	5E-08	2E-08	7E-08	1E-08	1E-07	6E-10			0E+00	2E-11	3E-04	3E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	5E-08	4E-06	5E-08	6E-06	4E-06	9E-06	1E-09			0E+00	9E-13		2E-05
Nickel	1E-09	7E-09	3E-09	1E-08	2E-07	3E-07	5E-09			2E-08	3E-11		5E-07
Silver	6E-12	9E-10	2E-10	2E-09	2E-08	1E-06	4E-10			0E+00	5E-12		1E-06
Thallium	5E-08	5E-08	3E-09	1E-07	2E-05	7E-06	8E-07			1E-05	3E-10		4E-05
Antimony	7E-10	3E-08	7E-09	6E-08	1E-07	1E-07	3E-09			0E+00	2E-10		3E-07
Arsenic	2E-08	1E-07	4E-08	2E-07	5E-07	2E-07	2E-08			9E-07	3E-10		2E-06
Barium	2E-08	2E-08	4E-09	3E-08	8E-09	2E-07	7E-10			0E+00	3E-12	7E-06	2E-07
Beryllium	3E-09	4E-10	7E-11	7E-10	4E-09	3E-11	8E-10			7E-10	7E-13		1E-08
Cadmium	8E-08	1E-06	6E-07	2E-06	1E-07	6E-08	9E-09			3E-05	7E-10		4E-05
Chromium VI	5E-09	2E-08	7E-09	5E-08	8E-07	2E-06	2E-08			7E-08	1E-10		3E-06
Chromium III	2E-09	2E-10	1E-10	4E-10	1E-08	3E-08	3E-09			6E-13	1E-15		4E-08
Cobalt	7E-10	2E-09	1E-11	4E-09	2E-07	2E-07	7E-09			0E+00	8E-12		4E-07
Hydrogen Chloride												5E-05	
Selenium	4E-10	4E-09	3E-09	8E-09	8E-08	1E-06	2E-07			4E-05	4E-11		4E-05
Chlorine												1E-03	
Methylmercury - Developmental Effects	3E-09	1E-06	7E-09	1E-06	3E-06	7E-06	3E-10			1E-05	1E-14		2E-05
Methylmercury - Neurological Effects	9E-10	4E-07	2E-09	3E-07	1E-06	2E-06	1E-10			3E-06	4E-15		7E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	8E-09	6E-11	3E-14	1E-09	8E-09
2,3,7,8-TCDD-TEQ	Brechtel Lake	8E-09	1E-07	3E-14	1E-09	1E-07
Nickel	Mississippi River				1E-10	
Nickel	Brechtel Lake				1E-10	
Arsenic	Mississippi River	1E-11	3E-15	3E-14	3E-10	1E-11
Arsenic	Brechtel Lake	1E-11	1E-11	3E-14	3E-10	3E-11
Beryllium	Mississippi River				6E-12	
Beryllium	Brechtel Lake				6E-12	
Cadmium	Mississippi River				5E-10	
Cadmium	Brechtel Lake				5E-10	
Chromium VI	Mississippi River				6E-09	
Chromium VI	Brechtel Lake				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	5E-08	0E+00	5E-11	3E-04	5E-08
Manganese	Brechtel Lake	5E-08	0E+00	5E-11	3E-04	5E-08
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Brechtel Lake				3E-06	
Mercury (divalent)	Mississippi River	8E-07		2E-12		8E-07
Mercury (divalent)	Brechtel Lake	8E-07		2E-12		8E-07
Nickel	Mississippi River	2E-08	1E-12	6E-11		2E-08
Nickel	Brechtel Lake	2E-08	6E-09	6E-11		3E-08
Silver	Mississippi River	1E-10	0E+00	1E-11		1E-10
Silver	Brechtel Lake	1E-10	0E+00	1E-11		1E-10
Thallium	Mississippi River	9E-07	2E-09	8E-10		9E-07
Thallium	Brechtel Lake	9E-07	6E-06	8E-10		7E-06
Antimony	Mississippi River	1E-08	0E+00	4E-10		1E-08
Antimony	Brechtel Lake	1E-08	0E+00	4E-10		1E-08
Arsenic	Mississippi River	4E-07	8E-11	8E-10		4E-07
Arsenic	Brechtel Lake	4E-07	3E-07	8E-10		7E-07
Barium	Mississippi River	3E-07	0E+00	6E-12	7E-06	3E-07
Barium	Brechtel Lake	3E-07	0E+00	6E-12	7E-06	3E-07
Beryllium	Mississippi River	5E-08	2E-12	2E-12		5E-08
Beryllium	Brechtel Lake	5E-08	5E-09	2E-12		5E-08
Cadmium	Mississippi River	2E-06	4E-09	2E-09		2E-06
Cadmium	Brechtel Lake	2E-06	2E-05	2E-09		2E-05
Chromium VI	Mississippi River	9E-08	5E-12	3E-10		9E-08
Chromium VI	Brechtel Lake	9E-08	2E-08	3E-10		1E-07
Chromium III	Mississippi River	3E-08	3E-14	3E-15		3E-08
Chromium III	Brechtel Lake	3E-08	6E-11	3E-15		3E-08
Cobalt	Mississippi River	1E-08	0E+00	3E-15		1E-08
Cobalt	Brechtel Lake	1E-08	0E+00	3E-15		1E-08
Hydrogen Chloride	Mississippi River				5E-05	
Hydrogen Chloride	Brechtel Lake				5E-05	
Selenium	Mississippi River	7E-09	3E-09	8E-11		1E-08
Selenium	Brechtel Lake	7E-09	1E-05	8E-11		1E-05
Chlorine	Mississippi River				1E-03	
Chlorine	Brechtel Lake				1E-03	
Methylmercury - Developmental Effects	Mississippi River	5E-08	4E-09	3E-14		5E-08
Methylmercury - Developmental Effects	Brechtel Lake	5E-08	3E-06	3E-14		3E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Mississippi River	2E-08	1E-09	9E-15		2E-08
Methylmercury - Neurological Effects	Brechtel Lake	2E-08	1E-06	9E-15		1E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	3E-09	8E-11	2E-14	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Brechtel Lake	3E-09	2E-07	2E-14	1E-09	2E-07
Nickel	Mississippi River				1E-10	
Nickel	Brechtel Lake				1E-10	
Arsenic	Mississippi River	5E-12	4E-15	2E-14	4E-10	5E-12
Arsenic	Brechtel Lake	5E-12	2E-11	2E-14	4E-10	2E-11
Beryllium	Mississippi River				7E-12	
Beryllium	Brechtel Lake				7E-12	
Cadmium	Mississippi River				6E-10	
Cadmium	Brechtel Lake				6E-10	
Chromium VI	Mississippi River				7E-09	
Chromium VI	Brechtel Lake				7E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	3E-11	3E-04	1E-08
Manganese	Brechtel Lake	1E-08	0E+00	3E-11	3E-04	1E-08
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Brechtel Lake				3E-06	
Mercury (divalent)	Mississippi River	2E-07		1E-12		2E-07
Mercury (divalent)	Brechtel Lake	2E-07		1E-12		2E-07
Nickel	Mississippi River	5E-09	1E-12	3E-11		5E-09
Nickel	Brechtel Lake	5E-09	6E-09	3E-11		1E-08
Silver	Mississippi River	3E-11	0E+00	7E-12		4E-11
Silver	Brechtel Lake	3E-11	0E+00	7E-12		4E-11
Thallium	Mississippi River	2E-07	2E-09	4E-10		2E-07
Thallium	Brechtel Lake	2E-07	6E-06	4E-10		7E-06
Antimony	Mississippi River	3E-09	0E+00	2E-10		4E-09
Antimony	Brechtel Lake	3E-09	0E+00	2E-10		4E-09
Arsenic	Mississippi River	1E-07	8E-11	4E-10		1E-07
Arsenic	Brechtel Lake	1E-07	3E-07	4E-10		4E-07
Barium	Mississippi River	7E-08	0E+00	3E-12	7E-06	7E-08
Barium	Brechtel Lake	7E-08	0E+00	3E-12	7E-06	7E-08
Beryllium	Mississippi River	1E-08	2E-12	9E-13		1E-08
Beryllium	Brechtel Lake	1E-08	5E-09	9E-13		2E-08
Cadmium	Mississippi River	4E-07	4E-09	9E-10		4E-07
Cadmium	Brechtel Lake	4E-07	2E-05	9E-10		2E-05
Chromium VI	Mississippi River	2E-08	5E-12	2E-10		2E-08
Chromium VI	Brechtel Lake	2E-08	2E-08	2E-10		5E-08
Chromium III	Mississippi River	8E-09	3E-14	1E-15		8E-09
Chromium III	Brechtel Lake	8E-09	6E-11	1E-15		8E-09
Cobalt	Mississippi River	3E-09	0E+00	1E-15		3E-09
Cobalt	Brechtel Lake	3E-09	0E+00	1E-15		3E-09
Hydrogen Chloride	Mississippi River				5E-05	
Hydrogen Chloride	Brechtel Lake				5E-05	
Selenium	Mississippi River	2E-09	3E-09	5E-11		5E-09
Selenium	Brechtel Lake	2E-09	1E-05	5E-11		1E-05
Chlorine	Mississippi River				1E-03	
Chlorine	Brechtel Lake				1E-03	
Methylmercury - Developmental Effects	Mississippi River	1E-08	4E-09	2E-14		2E-08
Methylmercury - Developmental Effects	Brechtel Lake	1E-08	3E-06	2E-14		3E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Mississippi River	4E-09	1E-09	5E-15		6E-09
Methylmercury - Neurological Effects	Brechtel Lake	4E-09	1E-06	5E-15		1E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-09	6E-11	1E-14	1E-09	2E-09
2,3,7,8-TCDD-TEQ	Brechtel Lake	2E-09	1E-07	1E-14	1E-09	1E-07
Nickel	Mississippi River				7E-11	
Nickel	Brechtel Lake				7E-11	
Arsenic	Mississippi River	3E-12	3E-15	2E-14	3E-10	3E-12
Arsenic	Brechtel Lake	3E-12	1E-11	2E-14	3E-10	2E-11
Beryllium	Mississippi River				4E-12	
Beryllium	Brechtel Lake				4E-12	
Cadmium	Mississippi River				4E-10	
Cadmium	Brechtel Lake				4E-10	
Chromium VI	Mississippi River				5E-09	
Chromium VI	Brechtel Lake				5E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	7E-09	0E+00	2E-11	3E-04	7E-09
Manganese	Brechtel Lake	7E-09	0E+00	2E-11	3E-04	7E-09
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Brechtel Lake				3E-06	
Mercury (divalent)	Mississippi River	1E-07		8E-13		1E-07
Mercury (divalent)	Brechtel Lake	1E-07		8E-13		1E-07
Nickel	Mississippi River	3E-09	1E-12	2E-11		3E-09
Nickel	Brechtel Lake	3E-09	4E-09	2E-11		7E-09
Silver	Mississippi River	2E-11	0E+00	5E-12		2E-11
Silver	Brechtel Lake	2E-11	0E+00	5E-12		2E-11
Thallium	Mississippi River	1E-07	1E-09	3E-10		1E-07
Thallium	Brechtel Lake	1E-07	5E-06	3E-10		5E-06
Antimony	Mississippi River	2E-09	0E+00	1E-10		2E-09
Antimony	Brechtel Lake	2E-09	0E+00	1E-10		2E-09
Arsenic	Mississippi River	5E-08	6E-11	3E-10		5E-08
Arsenic	Brechtel Lake	5E-08	2E-07	3E-10		3E-07
Barium	Mississippi River	4E-08	0E+00	2E-12	7E-06	4E-08
Barium	Brechtel Lake	4E-08	0E+00	2E-12	7E-06	4E-08
Beryllium	Mississippi River	7E-09	1E-12	6E-13		7E-09
Beryllium	Brechtel Lake	7E-09	3E-09	6E-13		1E-08
Cadmium	Mississippi River	2E-07	3E-09	6E-10		2E-07
Cadmium	Brechtel Lake	2E-07	1E-05	6E-10		1E-05
Chromium VI	Mississippi River	1E-08	4E-12	1E-10		1E-08
Chromium VI	Brechtel Lake	1E-08	2E-08	1E-10		3E-08
Chromium III	Mississippi River	4E-09	2E-14	9E-16		4E-09
Chromium III	Brechtel Lake	4E-09	4E-11	9E-16		4E-09
Cobalt	Mississippi River	2E-09	0E+00	7E-12		2E-09
Cobalt	Brechtel Lake	2E-09	0E+00	7E-12		2E-09
Hydrogen Chloride	Mississippi River				5E-05	
Hydrogen Chloride	Brechtel Lake				5E-05	
Selenium	Mississippi River	1E-09	2E-09	3E-11		3E-09
Selenium	Brechtel Lake	1E-09	1E-05	3E-11		1E-05
Chlorine	Mississippi River				1E-03	
Chlorine	Brechtel Lake				1E-03	
Methylmercury - Developmental Effects	Mississippi River	7E-09	3E-09	1E-14		1E-08
Methylmercury - Developmental Effects	Brechtel Lake	7E-09	2E-06	1E-14		2E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Mississippi River	2E-09	1E-09	3E-15		3E-09
Methylmercury - Neurological Effects	Brechtel Lake	2E-09	7E-07	3E-15		7E-07

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-09	1E-10	3E-14	1E-09	1E-09
2,3,7,8-TCDD-TEQ	Brechtel Lake	1E-09	2E-07	3E-14	1E-09	2E-07
Nickel	Mississippi River				1E-10	
Nickel	Brechtel Lake				1E-10	
Arsenic	Mississippi River	2E-12	6E-15	4E-14	4E-10	2E-12
Arsenic	Brechtel Lake	2E-12	3E-11	4E-14	4E-10	3E-11
Beryllium	Mississippi River				6E-12	
Beryllium	Brechtel Lake				6E-12	
Cadmium	Mississippi River				5E-10	
Cadmium	Brechtel Lake				5E-10	
Chromium VI	Mississippi River				7E-09	
Chromium VI	Brechtel Lake				7E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	3E-09	0E+00	2E-11	3E-04	3E-09
Manganese	Brechtel Lake	3E-09	0E+00	2E-11	3E-04	3E-09
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Brechtel Lake				3E-06	
Mercury (divalent)	Mississippi River	5E-08		9E-13		5E-08
Mercury (divalent)	Brechtel Lake	5E-08		9E-13		5E-08
Nickel	Mississippi River	1E-09	1E-12	3E-11		1E-09
Nickel	Brechtel Lake	1E-09	4E-09	3E-11		5E-09
Silver	Mississippi River	6E-12	0E+00	5E-12		1E-11
Silver	Brechtel Lake	6E-12	0E+00	5E-12		1E-11
Thallium	Mississippi River	5E-08	1E-09	3E-10		5E-08
Thallium	Brechtel Lake	5E-08	5E-06	3E-10		5E-06
Antimony	Mississippi River	7E-10	0E+00	2E-10		9E-10
Antimony	Brechtel Lake	7E-10	0E+00	2E-10		9E-10
Arsenic	Mississippi River	2E-08	6E-11	3E-10		2E-08
Arsenic	Brechtel Lake	2E-08	2E-07	3E-10		3E-07
Barium	Mississippi River	2E-08	0E+00	3E-12	7E-06	2E-08
Barium	Brechtel Lake	2E-08	0E+00	3E-12	7E-06	2E-08
Beryllium	Mississippi River	3E-09	1E-12	7E-13		3E-09
Beryllium	Brechtel Lake	3E-09	3E-09	7E-13		6E-09
Cadmium	Mississippi River	8E-08	3E-09	7E-10		9E-08
Cadmium	Brechtel Lake	8E-08	1E-05	7E-10		1E-05
Chromium VI	Mississippi River	5E-09	4E-12	1E-10		5E-09
Chromium VI	Brechtel Lake	5E-09	2E-08	1E-10		2E-08
Chromium III	Mississippi River	2E-09	2E-14	1E-15		2E-09
Chromium III	Brechtel Lake	2E-09	4E-11	1E-15		2E-09
Cobalt	Mississippi River	7E-10	0E+00	8E-12		7E-10
Cobalt	Brechtel Lake	7E-10	0E+00	8E-12		7E-10
Hydrogen Chloride	Mississippi River				5E-05	
Hydrogen Chloride	Brechtel Lake				5E-05	
Selenium	Mississippi River	4E-10	2E-09	4E-11		3E-09
Selenium	Brechtel Lake	4E-10	1E-05	4E-11		1E-05
Chlorine	Mississippi River				1E-03	
Chlorine	Brechtel Lake				1E-03	
Methylmercury - Developmental Effects	Mississippi River	3E-09	3E-09	1E-14		6E-09
Methylmercury - Developmental Effects	Brechtel Lake	3E-09	2E-06	1E-14		2E-06

Table IX-D12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 711) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Mississippi River	9E-10	1E-09	4E-15		2E-09
Methylmercury - Neurological Effects	Brechtel Lake	9E-10	7E-07	4E-15		7E-07

Table IX-D13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	6E-10	5E-10	1E-09	3E-07	3E-06	3E-08	2E-07	1E-07	3E-07		2E-09	4E-06
Nickel												2E-09	
Arsenic	9E-11	3E-11	1E-11	8E-11	2E-10	4E-10	2E-11			8E-10		6E-10	2E-09
Beryllium												8E-11	
Cadmium												2E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	9E-08	3E-07	6E-08	3E-06	5E-09			0E+00		3E-04	4E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	1E-03	2E-06	2E-03	1E-03	2E-02	5E-07						2E-02
Nickel	2E-06	7E-07	3E-07	2E-06	2E-05	2E-04	1E-06			4E-06			2E-04
Silver	1E-09	1E-08	4E-09	4E-08	2E-07	8E-05	8E-09			0E+00			8E-05
Thallium	5E-07	4E-08	2E-09	1E-07	1E-05	3E-05	1E-06			3E-05			7E-05
Antimony	6E-09	3E-08	6E-09	6E-08	1E-07	6E-07	4E-09			0E+00			8E-07
Arsenic	2E-06	9E-07	4E-07	2E-06	6E-06	1E-05	4E-07			2E-05			4E-05
Barium	2E-05	2E-06	6E-07	5E-06	1E-06	1E-04	2E-07			0E+00		3E-04	2E-04
Beryllium	2E-06	2E-08	4E-09	5E-08	2E-07	1E-08	7E-08			2E-07			2E-06
Cadmium	2E-06	2E-06	8E-07	3E-06	2E-07	6E-07	3E-08			1E-04			1E-04
Chromium VI	2E-07	4E-08	2E-08	1E-07	2E-06	2E-05	9E-08			4E-07			3E-05
Chromium III	1E-07	2E-09	9E-10	4E-09	1E-07	1E-06	3E-08			2E-11			2E-06
Cobalt	4E-08	9E-09	5E-11	2E-08	8E-07	4E-06	7E-08			0E+00			5E-06
Hydrogen Chloride												3E-03	
Selenium	5E-08	5E-08	4E-08	1E-07	1E-06	9E-05	4E-06			1E-03			1E-03
Chlorine												7E-02	
Methylmercury - Developmental Effects	1E-06	4E-04	3E-07	4E-04	8E-04	1E-02	1E-07			1E-03			2E-02
Methylmercury - Neurological Effects	4E-07	1E-04	1E-07	1E-04	3E-04	4E-03	5E-08			5E-04			5E-03

Table IX-D13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	5E-10	5E-10	2E-09	5E-07	2E-06	3E-08	2E-07	1E-07	3E-07		2E-09	3E-06
Nickel												2E-09	
Arsenic	3E-11	3E-11	1E-11	1E-10	4E-10	3E-10	1E-11			8E-10		6E-10	2E-09
Beryllium												9E-11	
Cadmium												2E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	6E-08	3E-07	7E-08	2E-06	3E-09			0E+00		3E-04	2E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	7E-04	2E-06	2E-03	1E-03	8E-03	3E-07						1E-02
Nickel	4E-07	4E-07	2E-07	2E-06	2E-05	8E-05	6E-07			3E-06			1E-04
Silver	3E-10	8E-09	3E-09	3E-08	3E-07	4E-05	5E-09			0E+00			4E-05
Thallium	1E-07	2E-08	1E-09	1E-07	1E-05	2E-05	7E-07			2E-05			5E-05
Antimony	2E-09	1E-08	4E-09	6E-08	1E-07	3E-07	2E-09			0E+00			5E-07
Arsenic	6E-07	5E-07	3E-07	2E-06	7E-06	5E-06	2E-07			1E-05			3E-05
Barium	6E-06	1E-06	4E-07	5E-06	1E-06	8E-05	1E-07			0E+00		3E-04	9E-05
Beryllium	4E-07	1E-08	3E-09	5E-08	3E-07	5E-09	4E-08			1E-07			9E-07
Cadmium	5E-07	9E-07	5E-07	3E-06	2E-07	3E-07	2E-08			1E-04			1E-04
Chromium VI	4E-08	2E-08	1E-08	1E-07	2E-06	1E-05	6E-08			3E-07			1E-05
Chromium III	3E-08	9E-10	7E-10	4E-09	1E-07	6E-07	2E-08			2E-11			8E-07
Cobalt	1E-08	5E-09	3E-11	2E-08	9E-07	2E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												3E-03	
Selenium	1E-08	3E-08	3E-08	1E-07	1E-06	5E-05	2E-06			8E-04			8E-04
Chlorine												7E-02	
Methylmercury - Developmental Effects	3E-07	2E-04	2E-07	4E-04	1E-03	6E-03	9E-08			1E-03			9E-03
Methylmercury - Neurological Effects	1E-07	8E-05	7E-08	1E-04	3E-04	2E-03	3E-08			4E-04			3E-03

Table IX-D13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	4E-10	4E-10	1E-09	2E-07	1E-06	2E-08	1E-07	7E-08	2E-07		1E-09	2E-06
Nickel												1E-09	
Arsenic	2E-11	2E-11	9E-12	5E-11	2E-10	1E-10	9E-12			4E-10		4E-10	8E-10
Beryllium												6E-11	
Cadmium												1E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	8E-08	5E-08	2E-07	3E-08	7E-07	2E-09			0E+00		3E-04	1E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	3E-06	5E-04	1E-06	1E-03	5E-04	3E-03	2E-07			0E+00			6E-03
Nickel	2E-07	3E-07	1E-07	9E-07	9E-06	4E-05	4E-07			2E-06			5E-05
Silver	2E-10	6E-09	2E-09	2E-08	1E-07	2E-05	3E-09			0E+00			2E-05
Thallium	7E-08	2E-08	1E-09	5E-08	6E-06	7E-06	5E-07			1E-05			2E-05
Antimony	8E-10	1E-08	3E-09	3E-08	5E-08	1E-07	1E-09			0E+00			2E-07
Arsenic	3E-07	4E-07	2E-07	1E-06	3E-06	2E-06	2E-07			8E-06			2E-05
Barium	3E-06	1E-06	3E-07	2E-06	6E-07	3E-05	7E-08			0E+00		3E-04	4E-05
Beryllium	2E-07	9E-09	2E-09	3E-08	1E-07	2E-09	3E-08			7E-08			5E-07
Cadmium	2E-07	7E-07	4E-07	2E-06	9E-08	1E-07	1E-08			6E-05			6E-05
Chromium VI	2E-08	2E-08	8E-09	6E-08	8E-07	6E-06	4E-08			1E-07			7E-06
Chromium III	2E-08	7E-10	5E-10	2E-09	5E-08	3E-07	1E-08			8E-12			4E-07
Cobalt	6E-09	4E-09	2E-11	1E-08	4E-07	1E-06	3E-08			0E+00			1E-06
Hydrogen Chloride												3E-03	
Selenium	7E-09	2E-08	2E-08	7E-08	6E-07	2E-05	1E-06			4E-04			4E-04
Chlorine												7E-02	
Methylmercury - Developmental Effects	2E-07	2E-04	1E-07	2E-04	5E-04	3E-03	6E-08			6E-04			4E-03
Methylmercury - Neurological Effects	5E-08	6E-05	5E-08	7E-05	2E-04	1E-03	2E-08			2E-04			1E-03

Table IX-D13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	9E-10	7E-10	2E-09	5E-07	8E-07	3E-08	2E-07	1E-07	3E-07		2E-09	2E-06
Nickel												2E-09	
Arsenic	1E-11	5E-11	2E-11	9E-11	4E-10	1E-10	1E-11			9E-10		6E-10	2E-09
Beryllium												9E-11	
Cadmium												2E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-09	1E-07	5E-08	2E-07	4E-08	3E-07	2E-09			0E+00		3E-04	7E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	1E-06	7E-04	1E-06	1E-03	6E-04	2E-03	2E-07			0E+00			4E-03
Nickel	9E-08	4E-07	2E-07	8E-07	1E-05	2E-05	3E-07			2E-06			3E-05
Silver	6E-11	8E-09	2E-09	2E-08	1E-07	9E-06	3E-09			0E+00			9E-06
Thallium	3E-08	2E-08	1E-09	5E-08	7E-06	3E-06	4E-07			1E-05			2E-05
Antimony	3E-10	1E-08	3E-09	3E-08	6E-08	6E-08	1E-09			0E+00			2E-07
Arsenic	1E-07	5E-07	2E-07	1E-06	4E-06	1E-06	1E-07			8E-06			1E-05
Barium	1E-06	1E-06	4E-07	2E-06	7E-07	2E-05	6E-08			0E+00		3E-04	2E-05
Beryllium	9E-08	1E-08	2E-09	3E-08	1E-07	1E-09	2E-08			8E-08			4E-07
Cadmium	1E-07	9E-07	4E-07	1E-06	1E-07	6E-08	1E-08			6E-05			6E-05
Chromium VI	8E-09	2E-08	1E-08	6E-08	9E-07	3E-06	3E-08			2E-07			4E-06
Chromium III	7E-09	9E-10	5E-10	2E-09	6E-08	1E-07	1E-08			9E-12			2E-07
Cobalt	2E-09	5E-09	3E-11	1E-08	5E-07	4E-07	2E-08			0E+00			9E-07
Hydrogen Chloride												3E-03	
Selenium	3E-09	3E-08	2E-08	7E-08	7E-07	1E-05	1E-06			5E-04			5E-04
Chlorine												7E-02	
Methylmercury - Developmental Effects	7E-08	2E-04	2E-07	2E-04	5E-04	1E-03	5E-08			6E-04			3E-03
Methylmercury - Neurological Effects	2E-08	8E-05	6E-08	6E-05	2E-04	4E-04	2E-08			2E-04			9E-04

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wolf Lake	1E-08	1E-07	0E+00	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Lake George	1E-08	6E-08	0E+00	2E-09	7E-08
2,3,7,8-TCDD-TEQ	Little Calumet River	1E-08	6E-07	0E+00	2E-09	6E-07
2,3,7,8-TCDD-TEQ	Grand Calumet River	1E-08	2E-06	0E+00	2E-09	2E-06
Nickel	Wolf Lake				2E-09	
Nickel	Lake George				2E-09	
Nickel	Little Calumet River				2E-09	
Nickel	Grand Calumet River				2E-09	
Arsenic	Wolf Lake	9E-11	5E-11	0E+00	6E-10	1E-10
Arsenic	Lake George	9E-11	6E-11	0E+00	6E-10	1E-10
Arsenic	Little Calumet River	9E-11	2E-11	0E+00	6E-10	1E-10
Arsenic	Grand Calumet River	9E-11	9E-11	0E+00	6E-10	2E-10
Beryllium	Wolf Lake				8E-11	
Beryllium	Lake George				8E-11	
Beryllium	Little Calumet River				8E-11	
Beryllium	Grand Calumet River				8E-11	
Cadmium	Wolf Lake				2E-10	
Cadmium	Lake George				2E-10	
Cadmium	Little Calumet River				2E-10	
Cadmium	Grand Calumet River				2E-10	
Chromium VI	Wolf Lake				3E-09	
Chromium VI	Lake George				3E-09	
Chromium VI	Little Calumet River				3E-09	
Chromium VI	Grand Calumet River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Wolf Lake	2E-07	0E+00	0E+00	3E-04	2E-07
Manganese	Lake George	2E-07	0E+00	0E+00	3E-04	2E-07
Manganese	Little Calumet River	2E-07	0E+00	0E+00	3E-04	2E-07
Manganese	Grand Calumet River	2E-07	0E+00	0E+00	3E-04	2E-07
Mercury (elemental)	Wolf Lake				5E-04	
Mercury (elemental)	Lake George				5E-04	
Mercury (elemental)	Little Calumet River				5E-04	
Mercury (elemental)	Grand Calumet River				5E-04	
Mercury (divalent)	Wolf Lake	2E-05		0E+00		2E-05
Mercury (divalent)	Lake George	2E-05		0E+00		2E-05
Mercury (divalent)	Little Calumet River	2E-05		0E+00		2E-05
Mercury (divalent)	Grand Calumet River	2E-05		0E+00		2E-05
Nickel	Wolf Lake	2E-06	3E-07	0E+00		2E-06
Nickel	Lake George	2E-06	3E-07	0E+00		2E-06
Nickel	Little Calumet River	2E-06	9E-08	0E+00		2E-06
Nickel	Grand Calumet River	2E-06	5E-07	0E+00		2E-06
Silver	Wolf Lake	1E-09	0E+00	0E+00		1E-09
Silver	Lake George	1E-09	0E+00	0E+00		1E-09
Silver	Little Calumet River	1E-09	0E+00	0E+00		1E-09
Silver	Grand Calumet River	1E-09	0E+00	0E+00		1E-09
Thallium	Wolf Lake	5E-07	2E-06	0E+00		3E-06
Thallium	Lake George	5E-07	2E-06	0E+00		3E-06
Thallium	Little Calumet River	5E-07	8E-07	0E+00		1E-06
Thallium	Grand Calumet River	5E-07	4E-06	0E+00		4E-06

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wolf Lake	6E-09	0E+00	0E+00		6E-09
Antimony	Lake George	6E-09	0E+00	0E+00		6E-09
Antimony	Little Calumet River	6E-09	0E+00	0E+00		6E-09
Antimony	Grand Calumet River	6E-09	0E+00	0E+00		6E-09
Arsenic	Wolf Lake	2E-06	1E-06	0E+00		3E-06
Arsenic	Lake George	2E-06	1E-06	0E+00		4E-06
Arsenic	Little Calumet River	2E-06	4E-07	0E+00		3E-06
Arsenic	Grand Calumet River	2E-06	2E-06	0E+00		5E-06
Barium	Wolf Lake	2E-05	0E+00	0E+00	3E-04	2E-05
Barium	Lake George	2E-05	0E+00	0E+00	3E-04	2E-05
Barium	Little Calumet River	2E-05	0E+00	0E+00	3E-04	2E-05
Barium	Grand Calumet River	2E-05	0E+00	0E+00	3E-04	2E-05
Beryllium	Wolf Lake	2E-06	4E-08	0E+00		2E-06
Beryllium	Lake George	2E-06	1E-08	0E+00		2E-06
Beryllium	Little Calumet River	2E-06	8E-08	0E+00		2E-06
Beryllium	Grand Calumet River	2E-06	3E-07	0E+00		2E-06
Cadmium	Wolf Lake	2E-06	1E-05	0E+00		1E-05
Cadmium	Lake George	2E-06	1E-05	0E+00		1E-05
Cadmium	Little Calumet River	2E-06	5E-06	0E+00		6E-06
Cadmium	Grand Calumet River	2E-06	2E-05	0E+00		3E-05
Chromium VI	Wolf Lake	2E-07	2E-08	0E+00		2E-07
Chromium VI	Lake George	2E-07	3E-08	0E+00		2E-07
Chromium VI	Little Calumet River	2E-07	8E-09	0E+00		2E-07
Chromium VI	Grand Calumet River	2E-07	4E-08	0E+00		2E-07
Chromium III	Wolf Lake	1E-07	3E-12	0E+00		1E-07
Chromium III	Lake George	1E-07	1E-12	0E+00		1E-07
Chromium III	Little Calumet River	1E-07	2E-10	0E+00		1E-07
Chromium III	Grand Calumet River	1E-07	1E-10	0E+00		1E-07
Cobalt	Wolf Lake	4E-08	0E+00	0E+00		4E-08
Cobalt	Lake George	4E-08	0E+00	0E+00		4E-08
Cobalt	Little Calumet River	4E-08	0E+00	0E+00		4E-08
Cobalt	Grand Calumet River	4E-08	0E+00	0E+00		4E-08
Hydrogen Chloride	Wolf Lake				3E-03	
Hydrogen Chloride	Lake George				3E-03	
Hydrogen Chloride	Little Calumet River				3E-03	
Hydrogen Chloride	Grand Calumet River				3E-03	
Selenium	Wolf Lake	5E-08	6E-05	0E+00		6E-05
Selenium	Lake George	5E-08	8E-05	0E+00		8E-05
Selenium	Little Calumet River	5E-08	2E-05	0E+00		2E-05
Selenium	Grand Calumet River	5E-08	1E-04	0E+00		1E-04
Chlorine	Wolf Lake				7E-02	
Chlorine	Lake George				7E-02	
Chlorine	Little Calumet River				7E-02	
Chlorine	Grand Calumet River				7E-02	
Methylmercury - Developmental Effects	Wolf Lake	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Lake George	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Little Calumet River	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Grand Calumet River	1E-06	0E+00	0E+00		1E-06

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wolf Lake	4E-07	0E+00	0E+00		4E-07
Methylmercury - Neurological Effects	Lake George	4E-07	0E+00	0E+00		4E-07
Methylmercury - Neurological Effects	Little Calumet River	4E-07	0E+00	0E+00		4E-07
Methylmercury - Neurological Effects	Grand Calumet River	4E-07	0E+00	0E+00		4E-07

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wolf Lake	4E-09	1E-07	0E+00	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Lake George	4E-09	8E-08	0E+00	2E-09	9E-08
2,3,7,8-TCDD-TEQ	Little Calumet River	4E-09	8E-07	0E+00	2E-09	8E-07
2,3,7,8-TCDD-TEQ	Grand Calumet River	4E-09	2E-06	0E+00	2E-09	2E-06
Nickel	Wolf Lake				2E-09	
Nickel	Lake George				2E-09	
Nickel	Little Calumet River				2E-09	
Nickel	Grand Calumet River				2E-09	
Arsenic	Wolf Lake	3E-11	7E-11	0E+00	6E-10	1E-10
Arsenic	Lake George	3E-11	8E-11	0E+00	6E-10	1E-10
Arsenic	Little Calumet River	3E-11	2E-11	0E+00	6E-10	6E-11
Arsenic	Grand Calumet River	3E-11	1E-10	0E+00	6E-10	2E-10
Beryllium	Wolf Lake				9E-11	
Beryllium	Lake George				9E-11	
Beryllium	Little Calumet River				9E-11	
Beryllium	Grand Calumet River				9E-11	
Cadmium	Wolf Lake				2E-10	
Cadmium	Lake George				2E-10	
Cadmium	Little Calumet River				2E-10	
Cadmium	Grand Calumet River				2E-10	
Chromium VI	Wolf Lake				3E-09	
Chromium VI	Lake George				3E-09	
Chromium VI	Little Calumet River				3E-09	
Chromium VI	Grand Calumet River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Wolf Lake	4E-08	0E+00	0E+00	3E-04	4E-08
Manganese	Lake George	4E-08	0E+00	0E+00	3E-04	4E-08
Manganese	Little Calumet River	4E-08	0E+00	0E+00	3E-04	4E-08
Manganese	Grand Calumet River	4E-08	0E+00	0E+00	3E-04	4E-08
Mercury (elemental)	Wolf Lake				5E-04	
Mercury (elemental)	Lake George				5E-04	
Mercury (elemental)	Little Calumet River				5E-04	
Mercury (elemental)	Grand Calumet River				5E-04	
Mercury (divalent)	Wolf Lake	5E-06		0E+00		5E-06
Mercury (divalent)	Lake George	5E-06		0E+00		5E-06
Mercury (divalent)	Little Calumet River	5E-06		0E+00		5E-06
Mercury (divalent)	Grand Calumet River	5E-06		0E+00		5E-06
Nickel	Wolf Lake	4E-07	3E-07	0E+00		7E-07
Nickel	Lake George	4E-07	3E-07	0E+00		7E-07
Nickel	Little Calumet River	4E-07	9E-08	0E+00		5E-07
Nickel	Grand Calumet River	4E-07	5E-07	0E+00		9E-07
Silver	Wolf Lake	3E-10	0E+00	0E+00		3E-10
Silver	Lake George	3E-10	0E+00	0E+00		3E-10
Silver	Little Calumet River	3E-10	0E+00	0E+00		3E-10
Silver	Grand Calumet River	3E-10	0E+00	0E+00		3E-10
Thallium	Wolf Lake	1E-07	2E-06	0E+00		2E-06
Thallium	Lake George	1E-07	2E-06	0E+00		2E-06
Thallium	Little Calumet River	1E-07	8E-07	0E+00		9E-07
Thallium	Grand Calumet River	1E-07	4E-06	0E+00		4E-06

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wolf Lake	2E-09	0E+00	0E+00		2E-09
Antimony	Lake George	2E-09	0E+00	0E+00		2E-09
Antimony	Little Calumet River	2E-09	0E+00	0E+00		2E-09
Antimony	Grand Calumet River	2E-09	0E+00	0E+00		2E-09
Arsenic	Wolf Lake	6E-07	1E-06	0E+00		2E-06
Arsenic	Lake George	6E-07	1E-06	0E+00		2E-06
Arsenic	Little Calumet River	6E-07	4E-07	0E+00		1E-06
Arsenic	Grand Calumet River	6E-07	2E-06	0E+00		3E-06
Barium	Wolf Lake	6E-06	0E+00	0E+00	3E-04	6E-06
Barium	Lake George	6E-06	0E+00	0E+00	3E-04	6E-06
Barium	Little Calumet River	6E-06	0E+00	0E+00	3E-04	6E-06
Barium	Grand Calumet River	6E-06	0E+00	0E+00	3E-04	6E-06
Beryllium	Wolf Lake	4E-07	4E-08	0E+00		4E-07
Beryllium	Lake George	4E-07	1E-08	0E+00		4E-07
Beryllium	Little Calumet River	4E-07	8E-08	0E+00		5E-07
Beryllium	Grand Calumet River	4E-07	3E-07	0E+00		6E-07
Cadmium	Wolf Lake	5E-07	1E-05	0E+00		1E-05
Cadmium	Lake George	5E-07	1E-05	0E+00		1E-05
Cadmium	Little Calumet River	5E-07	5E-06	0E+00		5E-06
Cadmium	Grand Calumet River	5E-07	2E-05	0E+00		2E-05
Chromium VI	Wolf Lake	4E-08	2E-08	0E+00		6E-08
Chromium VI	Lake George	4E-08	3E-08	0E+00		7E-08
Chromium VI	Little Calumet River	4E-08	8E-09	0E+00		5E-08
Chromium VI	Grand Calumet River	4E-08	4E-08	0E+00		8E-08
Chromium III	Wolf Lake	3E-08	3E-12	0E+00		3E-08
Chromium III	Lake George	3E-08	1E-12	0E+00		3E-08
Chromium III	Little Calumet River	3E-08	2E-10	0E+00		3E-08
Chromium III	Grand Calumet River	3E-08	1E-10	0E+00		3E-08
Cobalt	Wolf Lake	1E-08	0E+00	0E+00		1E-08
Cobalt	Lake George	1E-08	0E+00	0E+00		1E-08
Cobalt	Little Calumet River	1E-08	0E+00	0E+00		1E-08
Cobalt	Grand Calumet River	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Wolf Lake				3E-03	
Hydrogen Chloride	Lake George				3E-03	
Hydrogen Chloride	Little Calumet River				3E-03	
Hydrogen Chloride	Grand Calumet River				3E-03	
Selenium	Wolf Lake	1E-08	6E-05	0E+00		6E-05
Selenium	Lake George	1E-08	8E-05	0E+00		8E-05
Selenium	Little Calumet River	1E-08	2E-05	0E+00		2E-05
Selenium	Grand Calumet River	1E-08	1E-04	0E+00		1E-04
Chlorine	Wolf Lake				7E-02	
Chlorine	Lake George				7E-02	
Chlorine	Little Calumet River				7E-02	
Chlorine	Grand Calumet River				7E-02	
Methylmercury - Developmental Effects	Wolf Lake	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Lake George	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Little Calumet River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Grand Calumet River	3E-07	0E+00	0E+00		3E-07

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wolf Lake	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Lake George	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Little Calumet River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Grand Calumet River	1E-07	0E+00	0E+00		1E-07

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wolf Lake	2E-09	1E-07	0E+00	1E-09	1E-07
2,3,7,8-TCDD-TEQ	Lake George	2E-09	6E-08	0E+00	1E-09	6E-08
2,3,7,8-TCDD-TEQ	Little Calumet River	2E-09	6E-07	0E+00	1E-09	6E-07
2,3,7,8-TCDD-TEQ	Grand Calumet River	2E-09	2E-06	0E+00	1E-09	2E-06
Nickel	Wolf Lake				1E-09	
Nickel	Lake George				1E-09	
Nickel	Little Calumet River				1E-09	
Nickel	Grand Calumet River				1E-09	
Arsenic	Wolf Lake	2E-11	5E-11	0E+00	4E-10	7E-11
Arsenic	Lake George	2E-11	6E-11	0E+00	4E-10	8E-11
Arsenic	Little Calumet River	2E-11	2E-11	0E+00	4E-10	3E-11
Arsenic	Grand Calumet River	2E-11	9E-11	0E+00	4E-10	1E-10
Beryllium	Wolf Lake				6E-11	
Beryllium	Lake George				6E-11	
Beryllium	Little Calumet River				6E-11	
Beryllium	Grand Calumet River				6E-11	
Cadmium	Wolf Lake				1E-10	
Cadmium	Lake George				1E-10	
Cadmium	Little Calumet River				1E-10	
Cadmium	Grand Calumet River				1E-10	
Chromium VI	Wolf Lake				2E-09	
Chromium VI	Lake George				2E-09	
Chromium VI	Little Calumet River				2E-09	
Chromium VI	Grand Calumet River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Wolf Lake	2E-08	0E+00	0E+00	3E-04	2E-08
Manganese	Lake George	2E-08	0E+00	0E+00	3E-04	2E-08
Manganese	Little Calumet River	2E-08	0E+00	0E+00	3E-04	2E-08
Manganese	Grand Calumet River	2E-08	0E+00	0E+00	3E-04	2E-08
Mercury (elemental)	Wolf Lake				5E-04	
Mercury (elemental)	Lake George				5E-04	
Mercury (elemental)	Little Calumet River				5E-04	
Mercury (elemental)	Grand Calumet River				5E-04	
Mercury (divalent)	Wolf Lake	3E-06		0E+00		3E-06
Mercury (divalent)	Lake George	3E-06		0E+00		3E-06
Mercury (divalent)	Little Calumet River	3E-06		0E+00		3E-06
Mercury (divalent)	Grand Calumet River	3E-06		0E+00		3E-06
Nickel	Wolf Lake	2E-07	2E-07	0E+00		4E-07
Nickel	Lake George	2E-07	2E-07	0E+00		4E-07
Nickel	Little Calumet River	2E-07	7E-08	0E+00		3E-07
Nickel	Grand Calumet River	2E-07	3E-07	0E+00		6E-07
Silver	Wolf Lake	2E-10	0E+00	0E+00		2E-10
Silver	Lake George	2E-10	0E+00	0E+00		2E-10
Silver	Little Calumet River	2E-10	0E+00	0E+00		2E-10
Silver	Grand Calumet River	2E-10	0E+00	0E+00		2E-10
Thallium	Wolf Lake	7E-08	1E-06	0E+00		2E-06
Thallium	Lake George	7E-08	2E-06	0E+00		2E-06
Thallium	Little Calumet River	7E-08	5E-07	0E+00		6E-07
Thallium	Grand Calumet River	7E-08	3E-06	0E+00		3E-06

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wolf Lake	8E-10	0E+00	0E+00		8E-10
Antimony	Lake George	8E-10	0E+00	0E+00		8E-10
Antimony	Little Calumet River	8E-10	0E+00	0E+00		8E-10
Antimony	Grand Calumet River	8E-10	0E+00	0E+00		8E-10
Arsenic	Wolf Lake	3E-07	8E-07	0E+00		1E-06
Arsenic	Lake George	3E-07	1E-06	0E+00		1E-06
Arsenic	Little Calumet River	3E-07	3E-07	0E+00		6E-07
Arsenic	Grand Calumet River	3E-07	2E-06	0E+00		2E-06
Barium	Wolf Lake	3E-06	0E+00	0E+00	3E-04	3E-06
Barium	Lake George	3E-06	0E+00	0E+00	3E-04	3E-06
Barium	Little Calumet River	3E-06	0E+00	0E+00	3E-04	3E-06
Barium	Grand Calumet River	3E-06	0E+00	0E+00	3E-04	3E-06
Beryllium	Wolf Lake	2E-07	3E-08	0E+00		2E-07
Beryllium	Lake George	2E-07	1E-08	0E+00		2E-07
Beryllium	Little Calumet River	2E-07	5E-08	0E+00		3E-07
Beryllium	Grand Calumet River	2E-07	2E-07	0E+00		4E-07
Cadmium	Wolf Lake	2E-07	8E-06	0E+00		8E-06
Cadmium	Lake George	2E-07	8E-06	0E+00		8E-06
Cadmium	Little Calumet River	2E-07	3E-06	0E+00		3E-06
Cadmium	Grand Calumet River	2E-07	2E-05	0E+00		2E-05
Chromium VI	Wolf Lake	2E-08	2E-08	0E+00		4E-08
Chromium VI	Lake George	2E-08	2E-08	0E+00		4E-08
Chromium VI	Little Calumet River	2E-08	5E-09	0E+00		3E-08
Chromium VI	Grand Calumet River	2E-08	3E-08	0E+00		5E-08
Chromium III	Wolf Lake	2E-08	2E-12	0E+00		2E-08
Chromium III	Lake George	2E-08	7E-13	0E+00		2E-08
Chromium III	Little Calumet River	2E-08	1E-10	0E+00		2E-08
Chromium III	Grand Calumet River	2E-08	8E-11	0E+00		2E-08
Cobalt	Wolf Lake	6E-09	0E+00	0E+00		6E-09
Cobalt	Lake George	6E-09	0E+00	0E+00		6E-09
Cobalt	Little Calumet River	6E-09	0E+00	0E+00		6E-09
Cobalt	Grand Calumet River	6E-09	0E+00	0E+00		6E-09
Hydrogen Chloride	Wolf Lake				3E-03	
Hydrogen Chloride	Lake George				3E-03	
Hydrogen Chloride	Little Calumet River				3E-03	
Hydrogen Chloride	Grand Calumet River				3E-03	
Selenium	Wolf Lake	7E-09	4E-05	0E+00		4E-05
Selenium	Lake George	7E-09	6E-05	0E+00		6E-05
Selenium	Little Calumet River	7E-09	2E-05	0E+00		2E-05
Selenium	Grand Calumet River	7E-09	8E-05	0E+00		8E-05
Chlorine	Wolf Lake				7E-02	
Chlorine	Lake George				7E-02	
Chlorine	Little Calumet River				7E-02	
Chlorine	Grand Calumet River				7E-02	
Methylmercury - Developmental Effects	Wolf Lake	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Lake George	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Little Calumet River	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Grand Calumet River	2E-07	0E+00	0E+00		2E-07

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wolf Lake	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Lake George	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Little Calumet River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Grand Calumet River	5E-08	0E+00	0E+00		5E-08

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wolf Lake	1E-09	2E-07	0E+00	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Lake George	1E-09	1E-07	0E+00	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Little Calumet River	1E-09	1E-06	0E+00	2E-09	1E-06
2,3,7,8-TCDD-TEQ	Grand Calumet River	1E-09	3E-06	0E+00	2E-09	3E-06
Nickel	Wolf Lake				2E-09	
Nickel	Lake George				2E-09	
Nickel	Little Calumet River				2E-09	
Nickel	Grand Calumet River				2E-09	
Arsenic	Wolf Lake	1E-11	9E-11	0E+00	6E-10	1E-10
Arsenic	Lake George	1E-11	1E-10	0E+00	6E-10	1E-10
Arsenic	Little Calumet River	1E-11	3E-11	0E+00	6E-10	5E-11
Arsenic	Grand Calumet River	1E-11	2E-10	0E+00	6E-10	2E-10
Beryllium	Wolf Lake				9E-11	
Beryllium	Lake George				9E-11	
Beryllium	Little Calumet River				9E-11	
Beryllium	Grand Calumet River				9E-11	
Cadmium	Wolf Lake				2E-10	
Cadmium	Lake George				2E-10	
Cadmium	Little Calumet River				2E-10	
Cadmium	Grand Calumet River				2E-10	
Chromium VI	Wolf Lake				3E-09	
Chromium VI	Lake George				3E-09	
Chromium VI	Little Calumet River				3E-09	
Chromium VI	Grand Calumet River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Wolf Lake	9E-09	0E+00	0E+00	3E-04	9E-09
Manganese	Lake George	9E-09	0E+00	0E+00	3E-04	9E-09
Manganese	Little Calumet River	9E-09	0E+00	0E+00	3E-04	9E-09
Manganese	Grand Calumet River	9E-09	0E+00	0E+00	3E-04	9E-09
Mercury (elemental)	Wolf Lake				5E-04	
Mercury (elemental)	Lake George				5E-04	
Mercury (elemental)	Little Calumet River				5E-04	
Mercury (elemental)	Grand Calumet River				5E-04	
Mercury (divalent)	Wolf Lake	1E-06		0E+00		1E-06
Mercury (divalent)	Lake George	1E-06		0E+00		1E-06
Mercury (divalent)	Little Calumet River	1E-06		0E+00		1E-06
Mercury (divalent)	Grand Calumet River	1E-06		0E+00		1E-06
Nickel	Wolf Lake	9E-08	2E-07	0E+00		3E-07
Nickel	Lake George	9E-08	2E-07	0E+00		3E-07
Nickel	Little Calumet River	9E-08	7E-08	0E+00		2E-07
Nickel	Grand Calumet River	9E-08	3E-07	0E+00		4E-07
Silver	Wolf Lake	6E-11	0E+00	0E+00		6E-11
Silver	Lake George	6E-11	0E+00	0E+00		6E-11
Silver	Little Calumet River	6E-11	0E+00	0E+00		6E-11
Silver	Grand Calumet River	6E-11	0E+00	0E+00		6E-11
Thallium	Wolf Lake	3E-08	1E-06	0E+00		1E-06
Thallium	Lake George	3E-08	2E-06	0E+00		2E-06
Thallium	Little Calumet River	3E-08	5E-07	0E+00		6E-07
Thallium	Grand Calumet River	3E-08	3E-06	0E+00		3E-06

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wolf Lake	3E-10	0E+00	0E+00		3E-10
Antimony	Lake George	3E-10	0E+00	0E+00		3E-10
Antimony	Little Calumet River	3E-10	0E+00	0E+00		3E-10
Antimony	Grand Calumet River	3E-10	0E+00	0E+00		3E-10
Arsenic	Wolf Lake	1E-07	8E-07	0E+00		1E-06
Arsenic	Lake George	1E-07	1E-06	0E+00		1E-06
Arsenic	Little Calumet River	1E-07	3E-07	0E+00		4E-07
Arsenic	Grand Calumet River	1E-07	2E-06	0E+00		2E-06
Barium	Wolf Lake	1E-06	0E+00	0E+00	3E-04	1E-06
Barium	Lake George	1E-06	0E+00	0E+00	3E-04	1E-06
Barium	Little Calumet River	1E-06	0E+00	0E+00	3E-04	1E-06
Barium	Grand Calumet River	1E-06	0E+00	0E+00	3E-04	1E-06
Beryllium	Wolf Lake	9E-08	3E-08	0E+00		1E-07
Beryllium	Lake George	9E-08	1E-08	0E+00		1E-07
Beryllium	Little Calumet River	9E-08	5E-08	0E+00		1E-07
Beryllium	Grand Calumet River	9E-08	2E-07	0E+00		3E-07
Cadmium	Wolf Lake	1E-07	8E-06	0E+00		8E-06
Cadmium	Lake George	1E-07	8E-06	0E+00		8E-06
Cadmium	Little Calumet River	1E-07	3E-06	0E+00		3E-06
Cadmium	Grand Calumet River	1E-07	2E-05	0E+00		2E-05
Chromium VI	Wolf Lake	8E-09	2E-08	0E+00		2E-08
Chromium VI	Lake George	8E-09	2E-08	0E+00		3E-08
Chromium VI	Little Calumet River	8E-09	5E-09	0E+00		1E-08
Chromium VI	Grand Calumet River	8E-09	3E-08	0E+00		4E-08
Chromium III	Wolf Lake	7E-09	2E-12	0E+00		7E-09
Chromium III	Lake George	7E-09	7E-13	0E+00		7E-09
Chromium III	Little Calumet River	7E-09	1E-10	0E+00		7E-09
Chromium III	Grand Calumet River	7E-09	8E-11	0E+00		7E-09
Cobalt	Wolf Lake	2E-09	0E+00	0E+00		2E-09
Cobalt	Lake George	2E-09	0E+00	0E+00		2E-09
Cobalt	Little Calumet River	2E-09	0E+00	0E+00		2E-09
Cobalt	Grand Calumet River	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Wolf Lake				3E-03	
Hydrogen Chloride	Lake George				3E-03	
Hydrogen Chloride	Little Calumet River				3E-03	
Hydrogen Chloride	Grand Calumet River				3E-03	
Selenium	Wolf Lake	3E-09	4E-05	0E+00		4E-05
Selenium	Lake George	3E-09	6E-05	0E+00		6E-05
Selenium	Little Calumet River	3E-09	2E-05	0E+00		2E-05
Selenium	Grand Calumet River	3E-09	8E-05	0E+00		8E-05
Chlorine	Wolf Lake				7E-02	
Chlorine	Lake George				7E-02	
Chlorine	Little Calumet River				7E-02	
Chlorine	Grand Calumet River				7E-02	
Methylmercury - Developmental Effects	Wolf Lake	7E-08	0E+00	0E+00		7E-08
Methylmercury - Developmental Effects	Lake George	7E-08	0E+00	0E+00		7E-08
Methylmercury - Developmental Effects	Little Calumet River	7E-08	0E+00	0E+00		7E-08
Methylmercury - Developmental Effects	Grand Calumet River	7E-08	0E+00	0E+00		7E-08

Table IX-D14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 806) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wolf Lake	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Lake George	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Little Calumet River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Grand Calumet River	2E-08	0E+00	0E+00		2E-08

Table IX-D15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-08	7E-10	9E-10	2E-09	3E-07	3E-06	5E-08	4E-07	3E-07	7E-07		2E-09	5E-06
Nickel												1E-09	
Arsenic	1E-09	4E-10	2E-10	1E-09	2E-09	4E-09	2E-10			9E-09		7E-09	2E-08
Beryllium												4E-11	
Cadmium												4E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	6E-08	2E-07	4E-08	2E-06	3E-09			0E+00		1E-04	2E-06
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	6E-05	6E-07	1E-04	5E-05	8E-04	3E-08						1E-03
Nickel	1E-06	6E-07	2E-07	1E-06	1E-05	1E-04	8E-07			3E-06			1E-04
Silver	6E-07	6E-06	2E-06	2E-05	9E-05	4E-02	3E-06			0E+00			4E-02
Thallium	2E-04	9E-06	6E-07	3E-05	3E-03	8E-03	4E-04			7E-03			2E-02
Antimony	1E-05	4E-05	1E-05	8E-05	1E-04	6E-04	4E-06			0E+00			8E-04
Arsenic	4E-05	1E-05	5E-06	3E-05	6E-05	1E-04	5E-06			2E-04			5E-04
Barium	2E-07	2E-08	4E-09	3E-08	8E-09	1E-06	1E-09			0E+00		2E-06	1E-06
Beryllium	9E-07	1E-08	2E-09	3E-08	1E-07	5E-09	4E-08			2E-07			1E-06
Cadmium	6E-05	5E-05	2E-05	1E-04	5E-06	2E-05	1E-06			4E-03			5E-03
Chromium VI	2E-06	4E-07	2E-07	1E-06	1E-05	2E-04	9E-07			3E-06			2E-04
Chromium III	7E-07	8E-09	5E-09	2E-08	5E-07	6E-06	2E-07			2E-10			8E-06
Cobalt	3E-08	5E-09	3E-11	1E-08	4E-07	2E-06	4E-08			0E+00			3E-06
Hydrogen Chloride												2E-03	
Selenium	1E-06	7E-07	8E-07	2E-06	1E-05	1E-03	5E-05			1E-02			2E-02
Chlorine												2E-03	
Methylmercury - Developmental Effects	3E-07	2E-05	8E-08	2E-05	4E-05	6E-04	8E-09			7E-04			1E-03
Methylmercury - Neurological Effects	1E-07	7E-06	3E-08	6E-06	1E-05	2E-04	3E-09			2E-04			5E-04

Table IX-D15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	6E-10	9E-10	2E-09	6E-07	2E-06	5E-08	4E-07	3E-07	7E-07		2E-09	4E-06
Nickel												2E-09	
Arsenic	5E-10	3E-10	2E-10	1E-09	4E-09	3E-09	2E-10			9E-09		8E-09	2E-08
Beryllium												4E-11	
Cadmium												5E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	6E-08	4E-08	2E-07	4E-08	9E-07	2E-09			0E+00		1E-04	1E-06
Mercury (elemental)												2E-05	
Mercury (divalent)	NA	3E-05	4E-07	1E-04	6E-05	4E-04	2E-08						6E-04
Nickel	4E-07	3E-07	2E-07	1E-06	1E-05	6E-05	5E-07			2E-06			8E-05
Silver	2E-07	4E-06	1E-06	2E-05	1E-04	2E-02	2E-06			0E+00			2E-02
Thallium	4E-05	5E-06	4E-07	2E-05	3E-03	4E-03	2E-04			5E-03			1E-02
Antimony	3E-06	2E-05	7E-06	8E-05	1E-04	3E-04	3E-06			0E+00			5E-04
Arsenic	9E-06	6E-06	4E-06	2E-05	7E-05	5E-05	3E-06			2E-04			3E-04
Barium	4E-08	9E-09	3E-09	3E-08	9E-09	5E-07	7E-10			0E+00		2E-06	6E-07
Beryllium	2E-07	6E-09	2E-09	3E-08	1E-07	2E-09	2E-08			1E-07			6E-07
Cadmium	2E-05	3E-05	2E-05	1E-04	6E-06	9E-06	6E-07			3E-03			3E-03
Chromium VI	5E-07	2E-07	1E-07	1E-06	2E-05	1E-04	6E-07			2E-06			1E-04
Chromium III	2E-07	4E-09	4E-09	2E-08	6E-07	3E-06	1E-07			2E-10			4E-06
Cobalt	8E-09	3E-09	2E-11	1E-08	5E-07	1E-06	2E-08			0E+00			2E-06
Hydrogen Chloride												2E-03	
Selenium	3E-07	4E-07	5E-07	2E-06	1E-05	6E-04	3E-05			1E-02			1E-02
Chlorine												2E-03	
Methylmercury - Developmental Effects	9E-08	1E-05	6E-08	2E-05	5E-05	3E-04	5E-09			5E-04			9E-04
Methylmercury - Neurological Effects	3E-08	4E-06	2E-08	6E-06	2E-05	1E-04	2E-09			2E-04			3E-04

Table IX-D15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	4E-10	6E-10	1E-09	3E-07	1E-06	3E-08	3E-07	1E-07	4E-07		1E-09	2E-06
Nickel												1E-09	
Arsenic	3E-10	3E-10	1E-10	7E-10	2E-09	1E-09	1E-10			5E-09		5E-09	1E-08
Beryllium												3E-11	
Cadmium												3E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	1E-07	2E-08	4E-07	1E-09			0E+00		1E-04	6E-07
Mercury (elemental)												2E-05	
Mercury (divalent)	8E-07	3E-05	3E-07	6E-05	3E-05	2E-04	1E-08			0E+00			3E-04
Nickel	2E-07	2E-07	1E-07	7E-07	6E-06	3E-05	3E-07			1E-06			4E-05
Silver	8E-08	3E-06	1E-06	8E-06	5E-05	8E-03	1E-06			0E+00			8E-03
Thallium	2E-05	4E-06	3E-07	1E-05	2E-03	2E-03	1E-04			3E-03			6E-03
Antimony	1E-06	2E-05	5E-06	4E-05	5E-05	1E-04	2E-06			0E+00			3E-04
Arsenic	5E-06	5E-06	3E-06	1E-05	3E-05	2E-05	2E-06			9E-05			2E-04
Barium	2E-08	7E-09	2E-09	2E-08	4E-09	2E-07	5E-10			0E+00		2E-06	3E-07
Beryllium	1E-07	5E-09	1E-09	1E-08	6E-08	1E-09	2E-08			7E-08			3E-07
Cadmium	9E-06	2E-05	1E-05	5E-05	3E-06	4E-06	4E-07			2E-03			2E-03
Chromium VI	2E-07	2E-07	1E-07	6E-07	8E-06	5E-05	4E-07			1E-06			6E-05
Chromium III	1E-07	3E-09	3E-09	1E-08	3E-07	1E-06	7E-08			9E-11			2E-06
Cobalt	4E-09	2E-09	1E-11	6E-09	2E-07	5E-07	2E-08			0E+00			8E-07
Hydrogen Chloride												2E-03	
Selenium	1E-07	3E-07	4E-07	9E-07	7E-06	3E-04	2E-05			6E-03			6E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	5E-08	9E-06	4E-08	1E-05	2E-05	1E-04	3E-09			3E-04			5E-04
Methylmercury - Neurological Effects	2E-08	3E-06	1E-08	3E-06	7E-06	5E-05	1E-09			9E-05			2E-04

Table IX-D15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	1E-09	1E-09	2E-09	6E-07	9E-07	5E-08	4E-07	3E-07	8E-07		2E-09	3E-06
Nickel												1E-09	
Arsenic	2E-10	6E-10	3E-10	1E-09	4E-09	1E-09	2E-10			1E-08		7E-09	2E-08
Beryllium												4E-11	
Cadmium												4E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-09	6E-08	3E-08	1E-07	2E-08	2E-07	1E-09			0E+00		1E-04	4E-07
Mercury (elemental)												2E-05	
Mercury (divalent)	3E-07	3E-05	4E-07	6E-05	3E-05	8E-05	1E-08			0E+00			2E-04
Nickel	8E-08	3E-07	1E-07	6E-07	7E-06	1E-05	3E-07			1E-06			2E-05
Silver	3E-08	4E-06	1E-06	8E-06	5E-05	4E-03	1E-06			0E+00			4E-03
Thallium	9E-06	5E-06	3E-07	1E-05	2E-03	8E-04	1E-04			3E-03			6E-03
Antimony	6E-07	2E-05	6E-06	4E-05	6E-05	6E-05	1E-06			0E+00			2E-04
Arsenic	2E-06	7E-06	3E-06	1E-05	4E-05	1E-05	2E-06			1E-04			2E-04
Barium	9E-09	9E-09	2E-09	2E-08	5E-09	1E-07	4E-10			0E+00		2E-06	1E-07
Beryllium	5E-08	6E-09	1E-09	1E-08	7E-08	5E-10	1E-08			8E-08			2E-07
Cadmium	4E-06	3E-05	1E-05	5E-05	3E-06	2E-06	3E-07			2E-03			2E-03
Chromium VI	1E-07	2E-07	1E-07	5E-07	9E-06	2E-05	3E-07			1E-06			3E-05
Chromium III	4E-08	4E-09	3E-09	9E-09	3E-07	6E-07	6E-08			1E-10			1E-06
Cobalt	2E-09	3E-09	2E-11	6E-09	2E-07	2E-07	1E-08			0E+00			5E-07
Hydrogen Chloride												2E-03	
Selenium	6E-08	4E-07	4E-07	9E-07	8E-06	1E-04	2E-05			6E-03			6E-03
Chlorine												2E-03	
Methylmercury - Developmental Effects	2E-08	1E-05	5E-08	9E-06	3E-05	6E-05	3E-09			3E-04			4E-04
Methylmercury - Neurological Effects	6E-09	4E-06	2E-08	3E-06	8E-06	2E-05	9E-10			1E-04			1E-04

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Genesee River	2E-08	3E-07	1E-10	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Irondequoit Bay	2E-08	3E-06	1E-10	2E-09	3E-06
2,3,7,8-TCDD-TEQ	Highland Reservoir	2E-08	3E-07	1E-10	2E-09	3E-07
Nickel	Genesee River				1E-09	
Nickel	Irondequoit Bay				1E-09	
Nickel	Highland Reservoir				1E-09	
Arsenic	Genesee River	1E-09	3E-11	2E-08	7E-09	2E-08
Arsenic	Irondequoit Bay	1E-09	2E-09	2E-08	7E-09	2E-08
Arsenic	Highland Reservoir	1E-09	2E-09	2E-08	7E-09	2E-08
Beryllium	Genesee River				4E-11	
Beryllium	Irondequoit Bay				4E-11	
Beryllium	Highland Reservoir				4E-11	
Cadmium	Genesee River				4E-09	
Cadmium	Irondequoit Bay				4E-09	
Cadmium	Highland Reservoir				4E-09	
Chromium VI	Genesee River				2E-08	
Chromium VI	Irondequoit Bay				2E-08	
Chromium VI	Highland Reservoir				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Genesee River	1E-07	0E+00	6E-07	1E-04	7E-07
Manganese	Irondequoit Bay	1E-07	0E+00	6E-07	1E-04	7E-07
Manganese	Highland Reservoir	1E-07	0E+00	6E-07	1E-04	7E-07
Mercury (elemental)	Genesee River				2E-05	
Mercury (elemental)	Irondequoit Bay				2E-05	
Mercury (elemental)	Highland Reservoir				2E-05	
Mercury (divalent)	Genesee River	6E-06		0E+00		6E-06
Mercury (divalent)	Irondequoit Bay	6E-06		0E+00		6E-06
Mercury (divalent)	Highland Reservoir	6E-06		0E+00		6E-06
Nickel	Genesee River	1E-06	1E-08	2E-05		3E-05
Nickel	Irondequoit Bay	1E-06	5E-07	2E-05		3E-05
Nickel	Highland Reservoir	1E-06	6E-07	2E-05		3E-05
Silver	Genesee River	6E-07	0E+00	4E-04		4E-04
Silver	Irondequoit Bay	6E-07	0E+00	4E-04		4E-04
Silver	Highland Reservoir	6E-07	0E+00	4E-04		4E-04
Thallium	Genesee River	2E-04	3E-05	8E-04		1E-03
Thallium	Irondequoit Bay	2E-04	1E-03	8E-04		2E-03
Thallium	Highland Reservoir	2E-04	2E-03	8E-04		3E-03
Antimony	Genesee River	1E-05	0E+00	2E-03		2E-03
Antimony	Irondequoit Bay	1E-05	0E+00	2E-03		2E-03
Antimony	Highland Reservoir	1E-05	0E+00	2E-03		2E-03
Arsenic	Genesee River	4E-05	9E-07	4E-04		5E-04
Arsenic	Irondequoit Bay	4E-05	4E-05	4E-04		5E-04
Arsenic	Highland Reservoir	4E-05	5E-05	4E-04		5E-04
Barium	Genesee River	2E-07	0E+00	2E-08	2E-06	2E-07
Barium	Irondequoit Bay	2E-07	0E+00	2E-08	2E-06	2E-07
Barium	Highland Reservoir	2E-07	0E+00	2E-08	2E-06	2E-07
Beryllium	Genesee River	9E-07	5E-09	2E-07		1E-06
Beryllium	Irondequoit Bay	9E-07	2E-07	2E-07		1E-06
Beryllium	Highland Reservoir	9E-07	1E-07	2E-07		1E-06

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Genesee River	6E-05	2E-05	4E-04		5E-04
Cadmium	Irondequoit Bay	6E-05	9E-04	4E-04		1E-03
Cadmium	Highland Reservoir	6E-05	1E-03	4E-04		1E-03
Chromium VI	Genesee River	2E-06	1E-08	3E-05		4E-05
Chromium VI	Irondequoit Bay	2E-06	5E-07	3E-05		4E-05
Chromium VI	Highland Reservoir	2E-06	6E-07	3E-05		4E-05
Chromium III	Genesee River	7E-07	1E-10	3E-10		7E-07
Chromium III	Irondequoit Bay	7E-07	4E-10	3E-10		7E-07
Chromium III	Highland Reservoir	7E-07	1E-10	3E-10		7E-07
Cobalt	Genesee River	3E-08	0E+00	3E-10		3E-08
Cobalt	Irondequoit Bay	3E-08	0E+00	3E-10		3E-08
Cobalt	Highland Reservoir	3E-08	0E+00	3E-10		3E-08
Hydrogen Chloride	Genesee River				2E-03	
Hydrogen Chloride	Irondequoit Bay				2E-03	
Hydrogen Chloride	Highland Reservoir				2E-03	
Selenium	Genesee River	1E-06	5E-05	7E-05		1E-04
Selenium	Irondequoit Bay	1E-06	2E-03	7E-05		3E-03
Selenium	Highland Reservoir	1E-06	3E-03	7E-05		3E-03
Chlorine	Genesee River				2E-03	
Chlorine	Irondequoit Bay				2E-03	
Chlorine	Highland Reservoir				2E-03	
Methylmercury - Developmental Effects	Genesee River	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Irondequoit Bay	3E-07	0E+00	0E+00		3E-07
Methylmercury - Developmental Effects	Highland Reservoir	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Genesee River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Irondequoit Bay	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Highland Reservoir	1E-07	0E+00	0E+00		1E-07

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Genesee River	8E-09	3E-07	9E-11	2E-09	4E-07
2,3,7,8-TCDD-TEQ	Irondequoit Bay	8E-09	4E-06	9E-11	2E-09	4E-06
2,3,7,8-TCDD-TEQ	Highland Reservoir	8E-09	4E-07	9E-11	2E-09	4E-07
Nickel	Genesee River				2E-09	
Nickel	Irondequoit Bay				2E-09	
Nickel	Highland Reservoir				2E-09	
Arsenic	Genesee River	5E-10	5E-11	1E-08	8E-09	1E-08
Arsenic	Irondequoit Bay	5E-10	2E-09	1E-08	8E-09	2E-08
Arsenic	Highland Reservoir	5E-10	3E-09	1E-08	8E-09	2E-08
Beryllium	Genesee River				4E-11	
Beryllium	Irondequoit Bay				4E-11	
Beryllium	Highland Reservoir				4E-11	
Cadmium	Genesee River				5E-09	
Cadmium	Irondequoit Bay				5E-09	
Cadmium	Highland Reservoir				5E-09	
Chromium VI	Genesee River				3E-08	
Chromium VI	Irondequoit Bay				3E-08	
Chromium VI	Highland Reservoir				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Genesee River	3E-08	0E+00	3E-07	1E-04	4E-07
Manganese	Irondequoit Bay	3E-08	0E+00	3E-07	1E-04	4E-07
Manganese	Highland Reservoir	3E-08	0E+00	3E-07	1E-04	4E-07
Mercury (elemental)	Genesee River				2E-05	
Mercury (elemental)	Irondequoit Bay				2E-05	
Mercury (elemental)	Highland Reservoir				2E-05	
Mercury (divalent)	Genesee River	1E-06		0E+00		1E-06
Mercury (divalent)	Irondequoit Bay	1E-06		0E+00		1E-06
Mercury (divalent)	Highland Reservoir	1E-06		0E+00		1E-06
Nickel	Genesee River	4E-07	1E-08	1E-05		1E-05
Nickel	Irondequoit Bay	4E-07	5E-07	1E-05		1E-05
Nickel	Highland Reservoir	4E-07	6E-07	1E-05		1E-05
Silver	Genesee River	2E-07	0E+00	2E-04		2E-04
Silver	Irondequoit Bay	2E-07	0E+00	2E-04		2E-04
Silver	Highland Reservoir	2E-07	0E+00	2E-04		2E-04
Thallium	Genesee River	4E-05	3E-05	4E-04		5E-04
Thallium	Irondequoit Bay	4E-05	1E-03	4E-04		2E-03
Thallium	Highland Reservoir	4E-05	2E-03	4E-04		2E-03
Antimony	Genesee River	3E-06	0E+00	1E-03		1E-03
Antimony	Irondequoit Bay	3E-06	0E+00	1E-03		1E-03
Antimony	Highland Reservoir	3E-06	0E+00	1E-03		1E-03
Arsenic	Genesee River	9E-06	9E-07	2E-04		3E-04
Arsenic	Irondequoit Bay	9E-06	4E-05	2E-04		3E-04
Arsenic	Highland Reservoir	9E-06	5E-05	2E-04		3E-04
Barium	Genesee River	4E-08	0E+00	1E-08	2E-06	6E-08
Barium	Irondequoit Bay	4E-08	0E+00	1E-08	2E-06	6E-08
Barium	Highland Reservoir	4E-08	0E+00	1E-08	2E-06	6E-08
Beryllium	Genesee River	2E-07	5E-09	1E-07		3E-07
Beryllium	Irondequoit Bay	2E-07	2E-07	1E-07		5E-07
Beryllium	Highland Reservoir	2E-07	1E-07	1E-07		4E-07

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Genesee River	2E-05	2E-05	2E-04		2E-04
Cadmium	Irondequoit Bay	2E-05	9E-04	2E-04		1E-03
Cadmium	Highland Reservoir	2E-05	1E-03	2E-04		1E-03
Chromium VI	Genesee River	5E-07	1E-08	2E-05		2E-05
Chromium VI	Irondequoit Bay	5E-07	5E-07	2E-05		2E-05
Chromium VI	Highland Reservoir	5E-07	6E-07	2E-05		2E-05
Chromium III	Genesee River	2E-07	1E-10	2E-10		2E-07
Chromium III	Irondequoit Bay	2E-07	4E-10	2E-10		2E-07
Chromium III	Highland Reservoir	2E-07	1E-10	2E-10		2E-07
Cobalt	Genesee River	8E-09	0E+00	2E-10		8E-09
Cobalt	Irondequoit Bay	8E-09	0E+00	2E-10		8E-09
Cobalt	Highland Reservoir	8E-09	0E+00	2E-10		8E-09
Hydrogen Chloride	Genesee River				2E-03	
Hydrogen Chloride	Irondequoit Bay				2E-03	
Hydrogen Chloride	Highland Reservoir				2E-03	
Selenium	Genesee River	3E-07	5E-05	4E-05		9E-05
Selenium	Irondequoit Bay	3E-07	2E-03	4E-05		3E-03
Selenium	Highland Reservoir	3E-07	3E-03	4E-05		3E-03
Chlorine	Genesee River				2E-03	
Chlorine	Irondequoit Bay				2E-03	
Chlorine	Highland Reservoir				2E-03	
Methylmercury - Developmental Effects	Genesee River	9E-08	0E+00	0E+00		9E-08
Methylmercury - Developmental Effects	Irondequoit Bay	9E-08	0E+00	0E+00		9E-08
Methylmercury - Developmental Effects	Highland Reservoir	9E-08	0E+00	0E+00		9E-08
Methylmercury - Neurological Effects	Genesee River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Irondequoit Bay	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Highland Reservoir	3E-08	0E+00	0E+00		3E-08

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Genesee River	4E-09	3E-07	6E-11	1E-09	3E-07
2,3,7,8-TCDD-TEQ	Irondequoit Bay	4E-09	3E-06	6E-11	1E-09	3E-06
2,3,7,8-TCDD-TEQ	Highland Reservoir	4E-09	3E-07	6E-11	1E-09	3E-07
Nickel	Genesee River				1E-09	
Nickel	Irondequoit Bay				1E-09	
Nickel	Highland Reservoir				1E-09	
Arsenic	Genesee River	3E-10	3E-11	9E-09	5E-09	9E-09
Arsenic	Irondequoit Bay	3E-10	2E-09	9E-09	5E-09	1E-08
Arsenic	Highland Reservoir	3E-10	2E-09	9E-09	5E-09	1E-08
Beryllium	Genesee River				3E-11	
Beryllium	Irondequoit Bay				3E-11	
Beryllium	Highland Reservoir				3E-11	
Cadmium	Genesee River				3E-09	
Cadmium	Irondequoit Bay				3E-09	
Cadmium	Highland Reservoir				3E-09	
Chromium VI	Genesee River				2E-08	
Chromium VI	Irondequoit Bay				2E-08	
Chromium VI	Highland Reservoir				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Genesee River	2E-08	0E+00	2E-07	1E-04	2E-07
Manganese	Irondequoit Bay	2E-08	0E+00	2E-07	1E-04	2E-07
Manganese	Highland Reservoir	2E-08	0E+00	2E-07	1E-04	2E-07
Mercury (elemental)	Genesee River				2E-05	
Mercury (elemental)	Irondequoit Bay				2E-05	
Mercury (elemental)	Highland Reservoir				2E-05	
Mercury (divalent)	Genesee River	8E-07		0E+00		8E-07
Mercury (divalent)	Irondequoit Bay	8E-07		0E+00		8E-07
Mercury (divalent)	Highland Reservoir	8E-07		0E+00		8E-07
Nickel	Genesee River	2E-07	8E-09	9E-06		9E-06
Nickel	Irondequoit Bay	2E-07	4E-07	9E-06		9E-06
Nickel	Highland Reservoir	2E-07	4E-07	9E-06		9E-06
Silver	Genesee River	8E-08	0E+00	1E-04		1E-04
Silver	Irondequoit Bay	8E-08	0E+00	1E-04		1E-04
Silver	Highland Reservoir	8E-08	0E+00	1E-04		1E-04
Thallium	Genesee River	2E-05	2E-05	3E-04		3E-04
Thallium	Irondequoit Bay	2E-05	1E-03	3E-04		1E-03
Thallium	Highland Reservoir	2E-05	1E-03	3E-04		1E-03
Antimony	Genesee River	1E-06	0E+00	6E-04		6E-04
Antimony	Irondequoit Bay	1E-06	0E+00	6E-04		6E-04
Antimony	Highland Reservoir	1E-06	0E+00	6E-04		6E-04
Arsenic	Genesee River	5E-06	6E-07	2E-04		2E-04
Arsenic	Irondequoit Bay	5E-06	3E-05	2E-04		2E-04
Arsenic	Highland Reservoir	5E-06	3E-05	2E-04		2E-04
Barium	Genesee River	2E-08	0E+00	9E-09	2E-06	3E-08
Barium	Irondequoit Bay	2E-08	0E+00	9E-09	2E-06	3E-08
Barium	Highland Reservoir	2E-08	0E+00	9E-09	2E-06	3E-08
Beryllium	Genesee River	1E-07	4E-09	7E-08		2E-07
Beryllium	Irondequoit Bay	1E-07	1E-07	7E-08		3E-07
Beryllium	Highland Reservoir	1E-07	8E-08	7E-08		3E-07

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Genesee River	9E-06	1E-05	1E-04		2E-04
Cadmium	Irondequoit Bay	9E-06	7E-04	1E-04		8E-04
Cadmium	Highland Reservoir	9E-06	7E-04	1E-04		9E-04
Chromium VI	Genesee River	2E-07	8E-09	1E-05		1E-05
Chromium VI	Irondequoit Bay	2E-07	4E-07	1E-05		1E-05
Chromium VI	Highland Reservoir	2E-07	4E-07	1E-05		1E-05
Chromium III	Genesee River	1E-07	9E-11	1E-10		1E-07
Chromium III	Irondequoit Bay	1E-07	3E-10	1E-10		1E-07
Chromium III	Highland Reservoir	1E-07	8E-11	1E-10		1E-07
Cobalt	Genesee River	4E-09	0E+00	9E-08		9E-08
Cobalt	Irondequoit Bay	4E-09	0E+00	9E-08		9E-08
Cobalt	Highland Reservoir	4E-09	0E+00	9E-08		9E-08
Hydrogen Chloride	Genesee River				2E-03	
Hydrogen Chloride	Irondequoit Bay				2E-03	
Hydrogen Chloride	Highland Reservoir				2E-03	
Selenium	Genesee River	1E-07	4E-05	3E-05		6E-05
Selenium	Irondequoit Bay	1E-07	2E-03	3E-05		2E-03
Selenium	Highland Reservoir	1E-07	2E-03	3E-05		2E-03
Chlorine	Genesee River				2E-03	
Chlorine	Irondequoit Bay				2E-03	
Chlorine	Highland Reservoir				2E-03	
Methylmercury - Developmental Effects	Genesee River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Developmental Effects	Irondequoit Bay	5E-08	0E+00	0E+00		5E-08
Methylmercury - Developmental Effects	Highland Reservoir	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Genesee River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Irondequoit Bay	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Highland Reservoir	2E-08	0E+00	0E+00		2E-08

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Genesee River	3E-09	5E-07	1E-10	2E-09	5E-07
2,3,7,8-TCDD-TEQ	Irondequoit Bay	3E-09	5E-06	1E-10	2E-09	5E-06
2,3,7,8-TCDD-TEQ	Highland Reservoir	3E-09	5E-07	1E-10	2E-09	5E-07
Nickel	Genesee River				1E-09	
Nickel	Irondequoit Bay				1E-09	
Nickel	Highland Reservoir				1E-09	
Arsenic	Genesee River	2E-10	7E-11	2E-08	7E-09	2E-08
Arsenic	Irondequoit Bay	2E-10	3E-09	2E-08	7E-09	2E-08
Arsenic	Highland Reservoir	2E-10	4E-09	2E-08	7E-09	2E-08
Beryllium	Genesee River				4E-11	
Beryllium	Irondequoit Bay				4E-11	
Beryllium	Highland Reservoir				4E-11	
Cadmium	Genesee River				4E-09	
Cadmium	Irondequoit Bay				4E-09	
Cadmium	Highland Reservoir				4E-09	
Chromium VI	Genesee River				3E-08	
Chromium VI	Irondequoit Bay				3E-08	
Chromium VI	Highland Reservoir				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Genesee River	6E-09	0E+00	3E-07	1E-04	3E-07
Manganese	Irondequoit Bay	6E-09	0E+00	3E-07	1E-04	3E-07
Manganese	Highland Reservoir	6E-09	0E+00	3E-07	1E-04	3E-07
Mercury (elemental)	Genesee River				2E-05	
Mercury (elemental)	Irondequoit Bay				2E-05	
Mercury (elemental)	Highland Reservoir				2E-05	
Mercury (divalent)	Genesee River	3E-07		0E+00		3E-07
Mercury (divalent)	Irondequoit Bay	3E-07		0E+00		3E-07
Mercury (divalent)	Highland Reservoir	3E-07		0E+00		3E-07
Nickel	Genesee River	8E-08	8E-09	1E-05		1E-05
Nickel	Irondequoit Bay	8E-08	4E-07	1E-05		1E-05
Nickel	Highland Reservoir	8E-08	4E-07	1E-05		1E-05
Silver	Genesee River	3E-08	0E+00	2E-04		2E-04
Silver	Irondequoit Bay	3E-08	0E+00	2E-04		2E-04
Silver	Highland Reservoir	3E-08	0E+00	2E-04		2E-04
Thallium	Genesee River	9E-06	2E-05	3E-04		4E-04
Thallium	Irondequoit Bay	9E-06	1E-03	3E-04		1E-03
Thallium	Highland Reservoir	9E-06	1E-03	3E-04		1E-03
Antimony	Genesee River	6E-07	0E+00	7E-04		7E-04
Antimony	Irondequoit Bay	6E-07	0E+00	7E-04		7E-04
Antimony	Highland Reservoir	6E-07	0E+00	7E-04		7E-04
Arsenic	Genesee River	2E-06	6E-07	2E-04		2E-04
Arsenic	Irondequoit Bay	2E-06	3E-05	2E-04		2E-04
Arsenic	Highland Reservoir	2E-06	3E-05	2E-04		2E-04
Barium	Genesee River	9E-09	0E+00	1E-08	2E-06	2E-08
Barium	Irondequoit Bay	9E-09	0E+00	1E-08	2E-06	2E-08
Barium	Highland Reservoir	9E-09	0E+00	1E-08	2E-06	2E-08
Beryllium	Genesee River	5E-08	4E-09	8E-08		1E-07
Beryllium	Irondequoit Bay	5E-08	1E-07	8E-08		3E-07
Beryllium	Highland Reservoir	5E-08	8E-08	8E-08		2E-07

Table IX-D16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number 915) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Genesee River	4E-06	1E-05	2E-04		2E-04
Cadmium	Irondequoit Bay	4E-06	7E-04	2E-04		8E-04
Cadmium	Highland Reservoir	4E-06	7E-04	2E-04		9E-04
Chromium VI	Genesee River	1E-07	8E-09	1E-05		1E-05
Chromium VI	Irondequoit Bay	1E-07	4E-07	1E-05		1E-05
Chromium VI	Highland Reservoir	1E-07	4E-07	1E-05		1E-05
Chromium III	Genesee River	4E-08	9E-11	1E-10		4E-08
Chromium III	Irondequoit Bay	4E-08	3E-10	1E-10		4E-08
Chromium III	Highland Reservoir	4E-08	8E-11	1E-10		4E-08
Cobalt	Genesee River	2E-09	0E+00	1E-07		1E-07
Cobalt	Irondequoit Bay	2E-09	0E+00	1E-07		1E-07
Cobalt	Highland Reservoir	2E-09	0E+00	1E-07		1E-07
Hydrogen Chloride	Genesee River				2E-03	
Hydrogen Chloride	Irondequoit Bay				2E-03	
Hydrogen Chloride	Highland Reservoir				2E-03	
Selenium	Genesee River	6E-08	4E-05	3E-05		7E-05
Selenium	Irondequoit Bay	6E-08	2E-03	3E-05		2E-03
Selenium	Highland Reservoir	6E-08	2E-03	3E-05		2E-03
Chlorine	Genesee River				2E-03	
Chlorine	Irondequoit Bay				2E-03	
Chlorine	Highland Reservoir				2E-03	
Methylmercury - Developmental Effects	Genesee River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Irondequoit Bay	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Highland Reservoir	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Genesee River	6E-09	0E+00	0E+00		6E-09
Methylmercury - Neurological Effects	Irondequoit Bay	6E-09	0E+00	0E+00		6E-09
Methylmercury - Neurological Effects	Highland Reservoir	6E-09	0E+00	0E+00		6E-09

Table IX-D17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	7E-11	5E-11	2E-10	4E-08	4E-07	4E-09	3E-08	1E-08	1E-08		3E-10	5E-07
Nickel												6E-10	
Arsenic	2E-12	6E-13	3E-13	1E-12	2E-12	4E-12	2E-13			1E-11		5E-11	2E-11
Beryllium												3E-09	
Cadmium												6E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-08	8E-09	3E-08	4E-09	2E-07	4E-10			0E+00		8E-05	3E-07
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	2E-04	2E-06	5E-04	2E-04	3E-03	1E-07						4E-03
Nickel	1E-07	5E-08	2E-08	1E-07	1E-06	1E-05	6E-08			3E-07			1E-05
Silver	6E-12	7E-11	2E-11	2E-10	1E-09	4E-07	4E-11			0E+00			4E-07
Thallium	2E-08	1E-09	1E-10	3E-09	4E-07	1E-06	4E-08			8E-07			2E-06
Antimony	6E-09	2E-08	6E-09	4E-08	4E-08	2E-07	2E-09			0E+00			3E-07
Arsenic	5E-08	2E-08	9E-09	3E-08	6E-08	1E-07	6E-09			4E-07			6E-07
Barium	3E-08	2E-09	6E-10	5E-09	1E-09	1E-07	2E-10			0E+00		9E-07	2E-07
Beryllium	2E-05	2E-07	4E-08	4E-07	2E-06	8E-08	7E-07			7E-07			2E-05
Cadmium	2E-06	2E-06	8E-07	3E-06	1E-07	5E-07	3E-08			9E-05			9E-05
Chromium VI	7E-08	2E-08	9E-09	5E-08	7E-07	1E-05	4E-08			2E-07			1E-05
Chromium III	4E-08	4E-10	3E-10	1E-09	3E-08	3E-07	1E-08			3E-12			4E-07
Cobalt	3E-09	6E-10	4E-12	1E-09	5E-08	3E-07	4E-09			0E+00			3E-07
Hydrogen Chloride												2E-04	
Selenium	6E-08	3E-08	4E-08	7E-08	5E-07	4E-05	2E-06			1E-03			1E-03
Chlorine												2E-02	
Methylmercury - Developmental Effects	1E-06	8E-05	3E-07	8E-05	2E-04	3E-03	3E-08			4E-04			3E-03
Methylmercury - Neurological Effects	3E-07	3E-05	9E-08	3E-05	6E-05	9E-04	1E-08			1E-04			1E-03

Table IX-D17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	6E-11	5E-11	2E-10	6E-08	3E-07	3E-09	3E-08	2E-08	1E-08		4E-10	4E-07
Nickel												7E-10	
Arsenic	7E-13	5E-13	3E-13	2E-12	4E-12	3E-12	2E-13			1E-11		6E-11	2E-11
Beryllium												3E-09	
Cadmium												6E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	8E-09	6E-09	3E-08	5E-09	1E-07	2E-10			0E+00		8E-05	2E-07
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	1E-04	1E-06	5E-04	3E-04	2E-03	8E-08						2E-03
Nickel	3E-08	3E-08	2E-08	1E-07	1E-06	5E-06	4E-08			2E-07			7E-06
Silver	2E-12	4E-11	1E-11	2E-10	1E-09	2E-07	2E-11			0E+00			2E-07
Thallium	5E-09	7E-10	7E-11	3E-09	4E-07	5E-07	3E-08			6E-07			2E-06
Antimony	2E-09	1E-08	4E-09	4E-08	4E-08	1E-07	1E-09			0E+00			2E-07
Arsenic	1E-08	9E-09	6E-09	3E-08	7E-08	5E-08	4E-09			3E-07			4E-07
Barium	7E-09	1E-09	4E-10	5E-09	1E-09	7E-08	1E-10			0E+00		9E-07	9E-08
Beryllium	4E-06	1E-07	3E-08	4E-07	2E-06	4E-08	4E-07			5E-07			8E-06
Cadmium	4E-07	1E-06	6E-07	3E-06	2E-07	2E-07	2E-08			6E-05			7E-05
Chromium VI	2E-08	1E-08	7E-09	5E-08	8E-07	5E-06	3E-08			1E-07			6E-06
Chromium III	1E-08	2E-10	2E-10	1E-09	3E-08	2E-07	7E-09			2E-12			2E-07
Cobalt	8E-10	4E-10	3E-12	1E-09	5E-08	1E-07	3E-09			0E+00			2E-07
Hydrogen Chloride												2E-04	
Selenium	2E-08	2E-08	3E-08	7E-08	5E-07	2E-05	1E-06			8E-04			8E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	3E-07	5E-05	2E-07	8E-05	2E-04	1E-03	2E-08			3E-04			2E-03
Methylmercury - Neurological Effects	9E-08	2E-05	6E-08	3E-05	7E-05	4E-04	6E-09			1E-04			7E-04

Table IX-D17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	4E-11	4E-11	1E-10	3E-08	1E-07	2E-09	2E-08	8E-09	6E-09		2E-10	2E-07
Nickel												4E-10	
Arsenic	4E-13	4E-13	2E-13	9E-13	2E-12	1E-12	1E-13			8E-12		4E-11	1E-11
Beryllium												2E-09	
Cadmium												4E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	6E-09	4E-09	1E-08	2E-09	5E-08	1E-10			0E+00		8E-05	8E-08
Mercury (elemental)												1E-04	
Mercury (divalent)	2E-06	1E-04	1E-06	3E-04	1E-04	7E-04	5E-08			0E+00			1E-03
Nickel	1E-08	2E-08	1E-08	6E-08	6E-07	2E-06	2E-08			1E-07			3E-06
Silver	8E-13	3E-11	1E-11	9E-11	6E-10	9E-08	2E-11			0E+00			9E-08
Thallium	3E-09	5E-10	5E-11	2E-09	2E-07	2E-07	2E-08			3E-07			8E-07
Antimony	8E-10	8E-09	3E-09	2E-08	2E-08	5E-08	7E-10			0E+00			1E-07
Arsenic	7E-09	7E-09	4E-09	2E-08	3E-08	2E-08	2E-09			1E-07			2E-07
Barium	3E-09	1E-09	3E-10	2E-09	6E-10	3E-08	7E-11			0E+00		9E-07	4E-08
Beryllium	2E-06	8E-08	2E-08	2E-07	1E-06	2E-08	3E-07			3E-07			4E-06
Cadmium	2E-07	8E-07	4E-07	2E-06	7E-08	1E-07	1E-08			3E-05			4E-05
Chromium VI	1E-08	8E-09	5E-09	3E-08	4E-07	2E-06	2E-08			6E-08			3E-06
Chromium III	6E-09	2E-10	2E-10	5E-10	2E-08	8E-08	4E-09			1E-12			1E-07
Cobalt	4E-10	3E-10	2E-12	8E-10	3E-08	6E-08	2E-09			0E+00			9E-08
Hydrogen Chloride												2E-04	
Selenium	8E-09	1E-08	2E-08	4E-08	2E-07	9E-06	8E-07			4E-04			4E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	1E-07	4E-05	1E-07	4E-05	9E-05	6E-04	1E-08			2E-04			9E-04
Methylmercury - Neurological Effects	5E-08	1E-05	4E-08	1E-05	3E-05	2E-04	4E-09			6E-05			3E-04

Table IX-D17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	1E-10	6E-11	2E-10	6E-08	1E-07	4E-09	3E-08	1E-08	1E-08		4E-10	2E-07
Nickel												6E-10	
Arsenic	3E-13	9E-13	4E-13	2E-12	4E-12	1E-12	2E-13			2E-11		5E-11	2E-11
Beryllium												3E-09	
Cadmium												6E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-10	9E-09	4E-09	1E-08	2E-09	2E-08	1E-10			0E+00		8E-05	5E-08
Mercury (elemental)												1E-04	
Mercury (divalent)	1E-06	1E-04	1E-06	2E-04	1E-04	3E-04	4E-08			0E+00			8E-04
Nickel	6E-09	3E-08	1E-08	6E-08	6E-07	1E-06	2E-08			1E-07			2E-06
Silver	3E-13	4E-11	1E-11	8E-11	6E-10	4E-08	1E-11			0E+00			4E-08
Thallium	1E-09	7E-10	5E-11	2E-09	2E-07	1E-07	2E-08			4E-07			7E-07
Antimony	3E-10	1E-08	3E-09	2E-08	2E-08	2E-08	6E-10			0E+00			8E-08
Arsenic	3E-09	1E-08	5E-09	2E-08	3E-08	1E-08	2E-09			2E-07			2E-07
Barium	1E-09	1E-09	4E-10	2E-09	7E-10	1E-08	6E-11			0E+00		9E-07	2E-08
Beryllium	9E-07	1E-07	2E-08	2E-07	1E-06	8E-09	3E-07			3E-07			3E-06
Cadmium	9E-08	1E-06	5E-07	2E-06	8E-08	5E-08	9E-09			4E-05			4E-05
Chromium VI	4E-09	1E-08	5E-09	2E-08	4E-07	1E-06	1E-08			7E-08			2E-06
Chromium III	2E-09	2E-10	2E-10	5E-10	2E-08	3E-08	4E-09			1E-12			6E-08
Cobalt	2E-10	4E-10	2E-12	7E-10	3E-08	3E-08	1E-09			0E+00			6E-08
Hydrogen Chloride												2E-04	
Selenium	3E-09	2E-08	2E-08	3E-08	3E-07	4E-06	7E-07			5E-04			5E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	6E-08	5E-05	1E-07	4E-05	1E-04	3E-04	1E-08			2E-04			6E-04
Methylmercury - Neurological Effects	2E-08	2E-05	5E-08	1E-05	4E-05	9E-05	4E-09			6E-05			2E-04

Table IX-D18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armand Bayou	1E-09	8E-09	0E+00	3E-10	1E-08
Nickel	Armand Bayou				6E-10	
Arsenic	Armand Bayou	2E-12	3E-13	0E+00	5E-11	2E-12
Beryllium	Armand Bayou				3E-09	
Cadmium	Armand Bayou				6E-10	
Chromium VI	Armand Bayou				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Armand Bayou	1E-08	0E+00	0E+00	8E-05	1E-08
Mercury (elemental)	Armand Bayou				1E-04	
Mercury (divalent)	Armand Bayou	2E-05		0E+00		2E-05
Nickel	Armand Bayou	1E-07	5E-09	0E+00		1E-07
Silver	Armand Bayou	6E-12	0E+00	0E+00		6E-12
Thallium	Armand Bayou	2E-08	2E-08	0E+00		4E-08
Antimony	Armand Bayou	6E-09	0E+00	0E+00		6E-09
Arsenic	Armand Bayou	5E-08	7E-09	0E+00		6E-08
Barium	Armand Bayou	3E-08	0E+00	0E+00	9E-07	3E-08
Beryllium	Armand Bayou	2E-05	3E-07	0E+00		2E-05
Cadmium	Armand Bayou	2E-06	3E-06	0E+00		5E-06
Chromium VI	Armand Bayou	7E-08	3E-09	0E+00		8E-08
Chromium III	Armand Bayou	4E-08	2E-11	0E+00		4E-08
Cobalt	Armand Bayou	3E-09	0E+00	0E+00		3E-09
Hydrogen Chloride	Armand Bayou				2E-04	
Selenium	Armand Bayou	6E-08	2E-05	0E+00		2E-05
Chlorine	Armand Bayou				2E-02	
Methylmercury - Developmental Effects	Armand Bayou	1E-06	0E+00	0E+00		1E-06
Methylmercury - Neurological Effects	Armand Bayou	3E-07	0E+00	0E+00		3E-07

Table IX-D18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armand Bayou	5E-10	1E-08	0E+00	4E-10	1E-08
Nickel	Armand Bayou				7E-10	
Arsenic	Armand Bayou	7E-13	4E-13	0E+00	6E-11	1E-12
Beryllium	Armand Bayou				3E-09	
Cadmium	Armand Bayou				6E-10	
Chromium VI	Armand Bayou				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Armand Bayou	3E-09	0E+00	0E+00	8E-05	3E-09
Mercury (elemental)	Armand Bayou				1E-04	
Mercury (divalent)	Armand Bayou	4E-06		0E+00		4E-06
Nickel	Armand Bayou	3E-08	5E-09	0E+00		3E-08
Silver	Armand Bayou	2E-12	0E+00	0E+00		2E-12
Thallium	Armand Bayou	5E-09	2E-08	0E+00		3E-08
Antimony	Armand Bayou	2E-09	0E+00	0E+00		2E-09
Arsenic	Armand Bayou	1E-08	7E-09	0E+00		2E-08
Barium	Armand Bayou	7E-09	0E+00	0E+00	9E-07	7E-09
Beryllium	Armand Bayou	4E-06	3E-07	0E+00		4E-06
Cadmium	Armand Bayou	4E-07	3E-06	0E+00		3E-06
Chromium VI	Armand Bayou	2E-08	3E-09	0E+00		2E-08
Chromium III	Armand Bayou	1E-08	2E-11	0E+00		1E-08
Cobalt	Armand Bayou	8E-10	0E+00	0E+00		8E-10
Hydrogen Chloride	Armand Bayou				2E-04	
Selenium	Armand Bayou	2E-08	2E-05	0E+00		2E-05
Chlorine	Armand Bayou				2E-02	
Methylmercury - Developmental Effects	Armand Bayou	3E-07	0E+00	0E+00		3E-07
Methylmercury - Neurological Effects	Armand Bayou	9E-08	0E+00	0E+00		9E-08

Table IX-D18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armand Bayou	2E-10	8E-09	0E+00	2E-10	8E-09
Nickel	Armand Bayou				4E-10	
Arsenic	Armand Bayou	4E-13	3E-13	0E+00	4E-11	7E-13
Beryllium	Armand Bayou				2E-09	
Cadmium	Armand Bayou				4E-10	
Chromium VI	Armand Bayou				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Armand Bayou	2E-09	0E+00	0E+00	8E-05	2E-09
Mercury (elemental)	Armand Bayou				1E-04	
Mercury (divalent)	Armand Bayou	2E-06		0E+00		2E-06
Nickel	Armand Bayou	1E-08	4E-09	0E+00		2E-08
Silver	Armand Bayou	8E-13	0E+00	0E+00		8E-13
Thallium	Armand Bayou	3E-09	2E-08	0E+00		2E-08
Antimony	Armand Bayou	8E-10	0E+00	0E+00		8E-10
Arsenic	Armand Bayou	7E-09	5E-09	0E+00		1E-08
Barium	Armand Bayou	3E-09	0E+00	0E+00	9E-07	3E-09
Beryllium	Armand Bayou	2E-06	2E-07	0E+00		2E-06
Cadmium	Armand Bayou	2E-07	2E-06	0E+00		2E-06
Chromium VI	Armand Bayou	1E-08	2E-09	0E+00		1E-08
Chromium III	Armand Bayou	6E-09	1E-11	0E+00		6E-09
Cobalt	Armand Bayou	4E-10	0E+00	0E+00		4E-10
Hydrogen Chloride	Armand Bayou				2E-04	
Selenium	Armand Bayou	8E-09	1E-05	0E+00		1E-05
Chlorine	Armand Bayou				2E-02	
Methylmercury - Developmental Effects	Armand Bayou	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Armand Bayou	5E-08	0E+00	0E+00		5E-08

Table IX-D18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A32) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Armand Bayou	2E-10	2E-08	0E+00	4E-10	2E-08
Nickel	Armand Bayou				6E-10	
Arsenic	Armand Bayou	3E-13	5E-13	0E+00	5E-11	8E-13
Beryllium	Armand Bayou				3E-09	
Cadmium	Armand Bayou				6E-10	
Chromium VI	Armand Bayou				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Armand Bayou	6E-10	0E+00	0E+00	8E-05	6E-10
Mercury (elemental)	Armand Bayou				1E-04	
Mercury (divalent)	Armand Bayou	1E-06		0E+00		1E-06
Nickel	Armand Bayou	6E-09	4E-09	0E+00		1E-08
Silver	Armand Bayou	3E-13	0E+00	0E+00		3E-13
Thallium	Armand Bayou	1E-09	2E-08	0E+00		2E-08
Antimony	Armand Bayou	3E-10	0E+00	0E+00		3E-10
Arsenic	Armand Bayou	3E-09	5E-09	0E+00		8E-09
Barium	Armand Bayou	1E-09	0E+00	0E+00	9E-07	1E-09
Beryllium	Armand Bayou	9E-07	2E-07	0E+00		1E-06
Cadmium	Armand Bayou	9E-08	2E-06	0E+00		2E-06
Chromium VI	Armand Bayou	4E-09	2E-09	0E+00		6E-09
Chromium III	Armand Bayou	2E-09	1E-11	0E+00		2E-09
Cobalt	Armand Bayou	2E-10	0E+00	0E+00		2E-10
Hydrogen Chloride	Armand Bayou				2E-04	
Selenium	Armand Bayou	3E-09	1E-05	0E+00		1E-05
Chlorine	Armand Bayou				2E-02	
Methylmercury - Developmental Effects	Armand Bayou	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Armand Bayou	2E-08	0E+00	0E+00		2E-08

Table IX-D19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	2E-10	2E-10	4E-10	8E-08	9E-07	1E-08	8E-08	4E-08	1E-07		5E-10	1E-06
Nickel												1E-09	
Arsenic	2E-10	7E-11	3E-11	2E-10	5E-10	8E-10	3E-11			1E-09		1E-09	3E-09
Beryllium												2E-12	
Cadmium												2E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-07	3E-07	1E-07	6E-07	1E-07	5E-06	8E-09			0E+00		5E-04	6E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	4E-04	3E-06	8E-04	3E-04	5E-03	2E-07						6E-03
Nickel	8E-07	4E-07	2E-07	9E-07	9E-06	9E-05	5E-07			2E-06			1E-04
Silver	2E-09	3E-08	8E-09	8E-08	5E-07	2E-04	2E-08			0E+00			2E-04
Thallium	1E-06	9E-08	5E-09	3E-07	3E-05	8E-05	3E-06			6E-05			2E-04
Antimony	5E-05	2E-04	5E-05	5E-04	8E-04	5E-03	3E-05			0E+00			6E-03
Arsenic	5E-06	2E-06	8E-07	4E-06	1E-05	2E-05	8E-07			3E-05			7E-05
Barium	8E-07	8E-08	2E-08	2E-07	4E-08	5E-06	6E-09			0E+00		9E-06	6E-06
Beryllium	3E-08	5E-10	9E-11	1E-09	5E-09	2E-10	2E-09			7E-09			5E-08
Cadmium	2E-05	2E-05	1E-05	4E-05	2E-06	7E-06	3E-07			2E-03			2E-03
Chromium VI	2E-06	5E-07	2E-07	1E-06	2E-05	3E-04	1E-06			3E-06			3E-04
Chromium III	1E-07	2E-09	1E-09	4E-09	1E-07	1E-06	4E-08			4E-11			2E-06
Cobalt	7E-08	1E-08	7E-11	3E-08	1E-06	7E-06	1E-07			0E+00			8E-06
Hydrogen Chloride												2E-03	
Selenium	3E-08	2E-08	2E-08	7E-08	5E-07	4E-05	2E-06			4E-04			4E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-06	1E-04	4E-07	1E-04	3E-04	4E-03	5E-08			1E-03			6E-03
Methylmercury - Neurological Effects	5E-07	4E-05	1E-07	4E-05	9E-05	1E-03	2E-08			4E-04			2E-03

Table IX-D19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	1E-10	2E-10	6E-10	1E-07	6E-07	8E-09	8E-08	5E-08	1E-07		6E-10	1E-06
Nickel												1E-09	
Arsenic	7E-11	5E-11	3E-11	2E-10	8E-10	6E-10	3E-11			1E-09		2E-09	3E-09
Beryllium												2E-12	
Cadmium												2E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-08	2E-07	1E-07	5E-07	1E-07	2E-06	5E-09			0E+00		5E-04	3E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	2E-04	2E-06	8E-04	4E-04	3E-03	1E-07						4E-03
Nickel	2E-07	2E-07	1E-07	8E-07	1E-05	4E-05	3E-07			1E-06			6E-05
Silver	6E-10	2E-08	5E-09	7E-08	6E-07	9E-05	1E-08			0E+00			9E-05
Thallium	3E-07	5E-08	4E-09	2E-07	3E-05	4E-05	2E-06			4E-05			1E-04
Antimony	1E-05	1E-04	3E-05	5E-04	9E-04	2E-03	2E-05			0E+00			4E-03
Arsenic	1E-06	1E-06	5E-07	4E-06	1E-05	1E-05	5E-07			2E-05			5E-05
Barium	2E-07	4E-08	1E-08	2E-07	5E-08	2E-06	4E-09			0E+00		9E-06	3E-06
Beryllium	9E-09	3E-10	6E-11	1E-09	6E-09	1E-10	1E-09			5E-09			2E-08
Cadmium	5E-06	1E-05	7E-06	4E-05	2E-06	3E-06	2E-07			1E-03			1E-03
Chromium VI	4E-07	3E-07	1E-07	1E-06	2E-05	1E-04	6E-07			2E-06			2E-04
Chromium III	4E-08	9E-10	7E-10	4E-09	1E-07	7E-07	2E-08			3E-11			9E-07
Cobalt	2E-08	8E-09	5E-11	3E-08	1E-06	3E-06	6E-08			0E+00			5E-06
Hydrogen Chloride												2E-03	
Selenium	7E-09	1E-08	1E-08	7E-08	6E-07	2E-05	1E-06			3E-04			3E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	4E-07	7E-05	2E-07	1E-04	3E-04	2E-03	3E-08			8E-04			3E-03
Methylmercury - Neurological Effects	1E-07	2E-05	8E-08	4E-05	1E-04	7E-04	1E-08			3E-04			1E-03

Table IX-D19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	1E-10	1E-10	3E-10	6E-08	3E-07	5E-09	5E-08	2E-08	5E-08		4E-10	5E-07
Nickel												8E-10	
Arsenic	4E-11	4E-11	2E-11	1E-10	3E-10	3E-10	2E-11			6E-10		1E-09	1E-09
Beryllium												1E-12	
Cadmium												2E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	7E-08	3E-07	5E-08	1E-06	3E-09			0E+00		5E-04	2E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	3E-06	2E-04	1E-06	4E-04	2E-04	1E-03	7E-08			0E+00			2E-03
Nickel	1E-07	2E-07	8E-08	4E-07	5E-06	2E-05	2E-07			6E-07			3E-05
Silver	3E-10	1E-08	4E-09	4E-08	3E-07	4E-05	7E-09			0E+00			4E-05
Thallium	2E-07	4E-08	3E-09	1E-07	1E-05	2E-05	1E-06			2E-05			6E-05
Antimony	7E-06	9E-05	2E-05	2E-04	4E-04	1E-03	1E-05			0E+00			2E-03
Arsenic	6E-07	8E-07	4E-07	2E-06	6E-06	5E-06	3E-07			1E-05			3E-05
Barium	1E-07	3E-08	1E-08	8E-08	2E-08	1E-06	2E-09			0E+00		9E-06	1E-06
Beryllium	5E-09	2E-10	4E-11	6E-10	3E-09	5E-11	6E-10			3E-09			1E-08
Cadmium	3E-06	9E-06	5E-06	2E-05	1E-06	2E-06	1E-07			6E-04			6E-04
Chromium VI	2E-07	2E-07	9E-08	6E-07	9E-06	6E-05	4E-07			1E-06			7E-05
Chromium III	2E-08	7E-10	5E-10	2E-09	6E-08	3E-07	1E-08			2E-11			4E-07
Cobalt	9E-09	6E-09	4E-11	2E-08	6E-07	2E-06	4E-08			0E+00			2E-06
Hydrogen Chloride												2E-03	
Selenium	4E-09	1E-08	9E-09	3E-08	3E-07	1E-05	7E-07			1E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	2E-07	6E-05	2E-07	7E-05	1E-04	9E-04	2E-08			4E-04			2E-03
Methylmercury - Neurological Effects	6E-08	2E-05	6E-08	2E-05	5E-05	3E-04	6E-09			1E-04			5E-04

Table IX-D19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	3E-10	2E-10	5E-10	1E-07	2E-07	9E-09	8E-08	4E-08	1E-07		5E-10	6E-07
Nickel												1E-09	
Arsenic	3E-11	1E-10	4E-11	2E-10	8E-10	2E-10	3E-11			1E-09		1E-09	3E-09
Beryllium												2E-12	
Cadmium												2E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-07	8E-08	3E-07	6E-08	5E-07	3E-09			0E+00		5E-04	1E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	1E-06	2E-04	1E-06	4E-04	2E-04	5E-04	6E-08			0E+00			1E-03
Nickel	4E-08	2E-07	9E-08	4E-07	5E-06	9E-06	2E-07			7E-07			2E-05
Silver	1E-10	2E-08	4E-09	4E-08	3E-07	2E-05	6E-09			0E+00			2E-05
Thallium	7E-08	5E-08	3E-09	1E-07	2E-05	8E-06	1E-06			2E-05			5E-05
Antimony	3E-06	1E-04	3E-05	2E-04	5E-04	5E-04	1E-05			0E+00			1E-03
Arsenic	3E-07	1E-06	4E-07	2E-06	7E-06	2E-06	3E-07			1E-05			3E-05
Barium	5E-08	5E-08	1E-08	8E-08	2E-08	5E-07	2E-09			0E+00		9E-06	7E-07
Beryllium	2E-09	3E-10	5E-11	6E-10	3E-09	2E-11	6E-10			3E-09			9E-09
Cadmium	1E-06	1E-05	5E-06	2E-05	1E-06	7E-07	1E-07			7E-04			7E-04
Chromium VI	9E-08	3E-07	1E-07	6E-07	1E-05	3E-05	3E-07			1E-06			4E-05
Chromium III	8E-09	1E-09	6E-10	2E-09	7E-08	1E-07	1E-08			2E-11			2E-07
Cobalt	4E-09	8E-09	4E-11	2E-08	7E-07	7E-07	3E-08			0E+00			1E-06
Hydrogen Chloride												2E-03	
Selenium	1E-09	1E-08	1E-08	3E-08	3E-07	4E-06	6E-07			2E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	8E-08	8E-05	2E-07	6E-05	2E-04	4E-04	2E-08			5E-04			1E-03
Methylmercury - Neurological Effects	3E-08	3E-05	7E-08	2E-05	6E-05	1E-04	6E-09			2E-04			4E-04

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Twelvemile Creek	4E-09	2E-07	6E-11	5E-10	2E-07
2,3,7,8-TCDD-TEQ	Niagara River	4E-09	1E-07	6E-11	5E-10	1E-07
2,3,7,8-TCDD-TEQ	Bergholtz Creek	4E-09	9E-07	6E-11	5E-10	9E-07
2,3,7,8-TCDD-TEQ	Cayuga Creek	4E-09	2E-07	6E-11	5E-10	2E-07
Nickel	Twelvemile Creek				1E-09	
Nickel	Niagara River				1E-09	
Nickel	Bergholtz Creek				1E-09	
Nickel	Cayuga Creek				1E-09	
Arsenic	Twelvemile Creek	2E-10	2E-11	1E-10	1E-09	4E-10
Arsenic	Niagara River	2E-10	1E-11	1E-10	1E-09	3E-10
Arsenic	Bergholtz Creek	2E-10	1E-10	1E-10	1E-09	5E-10
Arsenic	Cayuga Creek	2E-10	2E-11	1E-10	1E-09	4E-10
Beryllium	Twelvemile Creek				2E-12	
Beryllium	Niagara River				2E-12	
Beryllium	Bergholtz Creek				2E-12	
Beryllium	Cayuga Creek				2E-12	
Cadmium	Twelvemile Creek				2E-09	
Cadmium	Niagara River				2E-09	
Cadmium	Bergholtz Creek				2E-09	
Cadmium	Cayuga Creek				2E-09	
Chromium VI	Twelvemile Creek				3E-08	
Chromium VI	Niagara River				3E-08	
Chromium VI	Bergholtz Creek				3E-08	
Chromium VI	Cayuga Creek				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Twelvemile Creek	3E-07	0E+00	9E-08	5E-04	3E-07
Manganese	Niagara River	3E-07	0E+00	9E-08	5E-04	3E-07
Manganese	Bergholtz Creek	3E-07	0E+00	9E-08	5E-04	3E-07
Manganese	Cayuga Creek	3E-07	0E+00	9E-08	5E-04	3E-07
Mercury (elemental)	Twelvemile Creek				2E-04	
Mercury (elemental)	Niagara River				2E-04	
Mercury (elemental)	Bergholtz Creek				2E-04	
Mercury (elemental)	Cayuga Creek				2E-04	
Mercury (divalent)	Twelvemile Creek	2E-05		0E+00		2E-05
Mercury (divalent)	Niagara River	2E-05		0E+00		2E-05
Mercury (divalent)	Bergholtz Creek	2E-05		0E+00		2E-05
Mercury (divalent)	Cayuga Creek	2E-05		0E+00		2E-05
Nickel	Twelvemile Creek	8E-07	3E-08	8E-07		2E-06
Nickel	Niagara River	8E-07	2E-08	8E-07		2E-06
Nickel	Bergholtz Creek	8E-07	2E-07	8E-07		2E-06
Nickel	Cayuga Creek	8E-07	3E-08	8E-07		2E-06
Silver	Twelvemile Creek	2E-09	0E+00	1E-07		1E-07
Silver	Niagara River	2E-09	0E+00	1E-07		1E-07
Silver	Bergholtz Creek	2E-09	0E+00	1E-07		1E-07
Silver	Cayuga Creek	2E-09	0E+00	1E-07		1E-07
Thallium	Twelvemile Creek	1E-06	1E-06	4E-07		3E-06
Thallium	Niagara River	1E-06	8E-07	4E-07		2E-06
Thallium	Bergholtz Creek	1E-06	7E-06	4E-07		9E-06
Thallium	Cayuga Creek	1E-06	1E-06	4E-07		3E-06

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Twelvemile Creek	5E-05	0E+00	5E-04		6E-04
Antimony	Niagara River	5E-05	0E+00	5E-04		6E-04
Antimony	Bergholtz Creek	5E-05	0E+00	5E-04		6E-04
Antimony	Cayuga Creek	5E-05	0E+00	5E-04		6E-04
Arsenic	Twelvemile Creek	5E-06	6E-07	4E-06		9E-06
Arsenic	Niagara River	5E-06	4E-07	4E-06		9E-06
Arsenic	Bergholtz Creek	5E-06	4E-06	4E-06		1E-05
Arsenic	Cayuga Creek	5E-06	6E-07	4E-06		9E-06
Barium	Twelvemile Creek	8E-07	0E+00	2E-08	9E-06	8E-07
Barium	Niagara River	8E-07	0E+00	2E-08	9E-06	8E-07
Barium	Bergholtz Creek	8E-07	0E+00	2E-08	9E-06	8E-07
Barium	Cayuga Creek	8E-07	0E+00	2E-08	9E-06	8E-07
Beryllium	Twelvemile Creek	3E-08	9E-10	9E-10		4E-08
Beryllium	Niagara River	3E-08	5E-10	9E-10		4E-08
Beryllium	Bergholtz Creek	3E-08	5E-09	9E-10		4E-08
Beryllium	Cayuga Creek	3E-08	9E-10	9E-10		4E-08
Cadmium	Twelvemile Creek	2E-05	4E-05	8E-06		7E-05
Cadmium	Niagara River	2E-05	2E-05	8E-06		5E-05
Cadmium	Bergholtz Creek	2E-05	2E-04	8E-06		2E-04
Cadmium	Cayuga Creek	2E-05	4E-05	8E-06		7E-05
Chromium VI	Twelvemile Creek	2E-06	6E-08	2E-06		4E-06
Chromium VI	Niagara River	2E-06	3E-08	2E-06		4E-06
Chromium VI	Bergholtz Creek	2E-06	3E-07	2E-06		4E-06
Chromium VI	Cayuga Creek	2E-06	6E-08	2E-06		4E-06
Chromium III	Twelvemile Creek	1E-07	1E-10	5E-11		1E-07
Chromium III	Niagara River	1E-07	6E-11	5E-11		1E-07
Chromium III	Bergholtz Creek	1E-07	4E-10	5E-11		1E-07
Chromium III	Cayuga Creek	1E-07	1E-10	5E-11		1E-07
Cobalt	Twelvemile Creek	7E-08	0E+00	5E-11		7E-08
Cobalt	Niagara River	7E-08	0E+00	5E-11		7E-08
Cobalt	Bergholtz Creek	7E-08	0E+00	5E-11		7E-08
Cobalt	Cayuga Creek	7E-08	0E+00	5E-11		7E-08
Hydrogen Chloride	Twelvemile Creek				2E-03	
Hydrogen Chloride	Niagara River				2E-03	
Hydrogen Chloride	Bergholtz Creek				2E-03	
Hydrogen Chloride	Cayuga Creek				2E-03	
Selenium	Twelvemile Creek	3E-08	7E-06	1E-07		7E-06
Selenium	Niagara River	3E-08	4E-06	1E-07		4E-06
Selenium	Bergholtz Creek	3E-08	4E-05	1E-07		4E-05
Selenium	Cayuga Creek	3E-08	7E-06	1E-07		7E-06
Chlorine	Twelvemile Creek				2E-03	
Chlorine	Niagara River				2E-03	
Chlorine	Bergholtz Creek				2E-03	
Chlorine	Cayuga Creek				2E-03	
Methylmercury - Developmental Effects	Twelvemile Creek	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Niagara River	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Bergholtz Creek	1E-06	0E+00	0E+00		1E-06
Methylmercury - Developmental Effects	Cayuga Creek	1E-06	0E+00	0E+00		1E-06

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Twelvemile Creek	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Niagara River	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Bergholtz Creek	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Cayuga Creek	5E-07	0E+00	0E+00		5E-07

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Twelvemile Creek	1E-09	3E-07	4E-11	6E-10	3E-07
2,3,7,8-TCDD-TEQ	Niagara River	1E-09	2E-07	4E-11	6E-10	2E-07
2,3,7,8-TCDD-TEQ	Bergholtz Creek	1E-09	1E-06	4E-11	6E-10	1E-06
2,3,7,8-TCDD-TEQ	Cayuga Creek	1E-09	3E-07	4E-11	6E-10	3E-07
Nickel	Twelvemile Creek				1E-09	
Nickel	Niagara River				1E-09	
Nickel	Bergholtz Creek				1E-09	
Nickel	Cayuga Creek				1E-09	
Arsenic	Twelvemile Creek	7E-11	3E-11	1E-10	2E-09	2E-10
Arsenic	Niagara River	7E-11	2E-11	1E-10	2E-09	2E-10
Arsenic	Bergholtz Creek	7E-11	2E-10	1E-10	2E-09	4E-10
Arsenic	Cayuga Creek	7E-11	3E-11	1E-10	2E-09	2E-10
Beryllium	Twelvemile Creek				2E-12	
Beryllium	Niagara River				2E-12	
Beryllium	Bergholtz Creek				2E-12	
Beryllium	Cayuga Creek				2E-12	
Cadmium	Twelvemile Creek				2E-09	
Cadmium	Niagara River				2E-09	
Cadmium	Bergholtz Creek				2E-09	
Cadmium	Cayuga Creek				2E-09	
Chromium VI	Twelvemile Creek				4E-08	
Chromium VI	Niagara River				4E-08	
Chromium VI	Bergholtz Creek				4E-08	
Chromium VI	Cayuga Creek				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Twelvemile Creek	7E-08	0E+00	5E-08	5E-04	1E-07
Manganese	Niagara River	7E-08	0E+00	5E-08	5E-04	1E-07
Manganese	Bergholtz Creek	7E-08	0E+00	5E-08	5E-04	1E-07
Manganese	Cayuga Creek	7E-08	0E+00	5E-08	5E-04	1E-07
Mercury (elemental)	Twelvemile Creek				2E-04	
Mercury (elemental)	Niagara River				2E-04	
Mercury (elemental)	Bergholtz Creek				2E-04	
Mercury (elemental)	Cayuga Creek				2E-04	
Mercury (divalent)	Twelvemile Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Niagara River	6E-06		0E+00		6E-06
Mercury (divalent)	Bergholtz Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Cayuga Creek	6E-06		0E+00		6E-06
Nickel	Twelvemile Creek	2E-07	3E-08	5E-07		7E-07
Nickel	Niagara River	2E-07	2E-08	5E-07		7E-07
Nickel	Bergholtz Creek	2E-07	2E-07	5E-07		8E-07
Nickel	Cayuga Creek	2E-07	3E-08	5E-07		7E-07
Silver	Twelvemile Creek	6E-10	0E+00	6E-08		6E-08
Silver	Niagara River	6E-10	0E+00	6E-08		6E-08
Silver	Bergholtz Creek	6E-10	0E+00	6E-08		6E-08
Silver	Cayuga Creek	6E-10	0E+00	6E-08		6E-08
Thallium	Twelvemile Creek	3E-07	1E-06	2E-07		2E-06
Thallium	Niagara River	3E-07	8E-07	2E-07		1E-06
Thallium	Bergholtz Creek	3E-07	7E-06	2E-07		8E-06
Thallium	Cayuga Creek	3E-07	1E-06	2E-07		2E-06

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Twelvemile Creek	1E-05	0E+00	3E-04		3E-04
Antimony	Niagara River	1E-05	0E+00	3E-04		3E-04
Antimony	Bergholtz Creek	1E-05	0E+00	3E-04		3E-04
Antimony	Cayuga Creek	1E-05	0E+00	3E-04		3E-04
Arsenic	Twelvemile Creek	1E-06	6E-07	2E-06		4E-06
Arsenic	Niagara River	1E-06	4E-07	2E-06		4E-06
Arsenic	Bergholtz Creek	1E-06	4E-06	2E-06		7E-06
Arsenic	Cayuga Creek	1E-06	6E-07	2E-06		4E-06
Barium	Twelvemile Creek	2E-07	0E+00	1E-08	9E-06	2E-07
Barium	Niagara River	2E-07	0E+00	1E-08	9E-06	2E-07
Barium	Bergholtz Creek	2E-07	0E+00	1E-08	9E-06	2E-07
Barium	Cayuga Creek	2E-07	0E+00	1E-08	9E-06	2E-07
Beryllium	Twelvemile Creek	9E-09	9E-10	5E-10		1E-08
Beryllium	Niagara River	9E-09	5E-10	5E-10		1E-08
Beryllium	Bergholtz Creek	9E-09	5E-09	5E-10		1E-08
Beryllium	Cayuga Creek	9E-09	9E-10	5E-10		1E-08
Cadmium	Twelvemile Creek	5E-06	4E-05	4E-06		5E-05
Cadmium	Niagara River	5E-06	2E-05	4E-06		3E-05
Cadmium	Bergholtz Creek	5E-06	2E-04	4E-06		2E-04
Cadmium	Cayuga Creek	5E-06	4E-05	4E-06		5E-05
Chromium VI	Twelvemile Creek	4E-07	6E-08	1E-06		2E-06
Chromium VI	Niagara River	4E-07	3E-08	1E-06		2E-06
Chromium VI	Bergholtz Creek	4E-07	3E-07	1E-06		2E-06
Chromium VI	Cayuga Creek	4E-07	6E-08	1E-06		2E-06
Chromium III	Twelvemile Creek	4E-08	1E-10	3E-11		4E-08
Chromium III	Niagara River	4E-08	6E-11	3E-11		4E-08
Chromium III	Bergholtz Creek	4E-08	4E-10	3E-11		4E-08
Chromium III	Cayuga Creek	4E-08	1E-10	3E-11		4E-08
Cobalt	Twelvemile Creek	2E-08	0E+00	3E-11		2E-08
Cobalt	Niagara River	2E-08	0E+00	3E-11		2E-08
Cobalt	Bergholtz Creek	2E-08	0E+00	3E-11		2E-08
Cobalt	Cayuga Creek	2E-08	0E+00	3E-11		2E-08
Hydrogen Chloride	Twelvemile Creek				2E-03	
Hydrogen Chloride	Niagara River				2E-03	
Hydrogen Chloride	Bergholtz Creek				2E-03	
Hydrogen Chloride	Cayuga Creek				2E-03	
Selenium	Twelvemile Creek	7E-09	7E-06	6E-08		7E-06
Selenium	Niagara River	7E-09	4E-06	6E-08		4E-06
Selenium	Bergholtz Creek	7E-09	4E-05	6E-08		4E-05
Selenium	Cayuga Creek	7E-09	7E-06	6E-08		7E-06
Chlorine	Twelvemile Creek				2E-03	
Chlorine	Niagara River				2E-03	
Chlorine	Bergholtz Creek				2E-03	
Chlorine	Cayuga Creek				2E-03	
Methylmercury - Developmental Effects	Twelvemile Creek	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Niagara River	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Bergholtz Creek	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Cayuga Creek	4E-07	0E+00	0E+00		4E-07

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Twelvemile Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Niagara River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Bergholtz Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Cayuga Creek	1E-07	0E+00	0E+00		1E-07

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Twelvemile Creek	7E-10	2E-07	3E-11	4E-10	2E-07
2,3,7,8-TCDD-TEQ	Niagara River	7E-10	1E-07	3E-11	4E-10	1E-07
2,3,7,8-TCDD-TEQ	Bergholtz Creek	7E-10	9E-07	3E-11	4E-10	9E-07
2,3,7,8-TCDD-TEQ	Cayuga Creek	7E-10	2E-07	3E-11	4E-10	2E-07
Nickel	Twelvemile Creek				8E-10	
Nickel	Niagara River				8E-10	
Nickel	Bergholtz Creek				8E-10	
Nickel	Cayuga Creek				8E-10	
Arsenic	Twelvemile Creek	4E-11	2E-11	7E-11	1E-09	1E-10
Arsenic	Niagara River	4E-11	1E-11	7E-11	1E-09	1E-10
Arsenic	Bergholtz Creek	4E-11	1E-10	7E-11	1E-09	2E-10
Arsenic	Cayuga Creek	4E-11	2E-11	7E-11	1E-09	1E-10
Beryllium	Twelvemile Creek				1E-12	
Beryllium	Niagara River				1E-12	
Beryllium	Bergholtz Creek				1E-12	
Beryllium	Cayuga Creek				1E-12	
Cadmium	Twelvemile Creek				2E-09	
Cadmium	Niagara River				2E-09	
Cadmium	Bergholtz Creek				2E-09	
Cadmium	Cayuga Creek				2E-09	
Chromium VI	Twelvemile Creek				2E-08	
Chromium VI	Niagara River				2E-08	
Chromium VI	Bergholtz Creek				2E-08	
Chromium VI	Cayuga Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Twelvemile Creek	3E-08	0E+00	3E-08	5E-04	7E-08
Manganese	Niagara River	3E-08	0E+00	3E-08	5E-04	7E-08
Manganese	Bergholtz Creek	3E-08	0E+00	3E-08	5E-04	7E-08
Manganese	Cayuga Creek	3E-08	0E+00	3E-08	5E-04	7E-08
Mercury (elemental)	Twelvemile Creek				2E-04	
Mercury (elemental)	Niagara River				2E-04	
Mercury (elemental)	Bergholtz Creek				2E-04	
Mercury (elemental)	Cayuga Creek				2E-04	
Mercury (divalent)	Twelvemile Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Niagara River	3E-06		0E+00		3E-06
Mercury (divalent)	Bergholtz Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Cayuga Creek	3E-06		0E+00		3E-06
Nickel	Twelvemile Creek	1E-07	2E-08	3E-07		4E-07
Nickel	Niagara River	1E-07	1E-08	3E-07		4E-07
Nickel	Bergholtz Creek	1E-07	1E-07	3E-07		5E-07
Nickel	Cayuga Creek	1E-07	2E-08	3E-07		4E-07
Silver	Twelvemile Creek	3E-10	0E+00	4E-08		4E-08
Silver	Niagara River	3E-10	0E+00	4E-08		4E-08
Silver	Bergholtz Creek	3E-10	0E+00	4E-08		4E-08
Silver	Cayuga Creek	3E-10	0E+00	4E-08		4E-08
Thallium	Twelvemile Creek	2E-07	9E-07	1E-07		1E-06
Thallium	Niagara River	2E-07	5E-07	1E-07		9E-07
Thallium	Bergholtz Creek	2E-07	5E-06	1E-07		6E-06
Thallium	Cayuga Creek	2E-07	9E-07	1E-07		1E-06

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Twelvemile Creek	7E-06	0E+00	2E-04		2E-04
Antimony	Niagara River	7E-06	0E+00	2E-04		2E-04
Antimony	Bergholtz Creek	7E-06	0E+00	2E-04		2E-04
Antimony	Cayuga Creek	7E-06	0E+00	2E-04		2E-04
Arsenic	Twelvemile Creek	6E-07	4E-07	1E-06		2E-06
Arsenic	Niagara River	6E-07	3E-07	1E-06		2E-06
Arsenic	Bergholtz Creek	6E-07	3E-06	1E-06		4E-06
Arsenic	Cayuga Creek	6E-07	4E-07	1E-06		2E-06
Barium	Twelvemile Creek	1E-07	0E+00	7E-09	9E-06	1E-07
Barium	Niagara River	1E-07	0E+00	7E-09	9E-06	1E-07
Barium	Bergholtz Creek	1E-07	0E+00	7E-09	9E-06	1E-07
Barium	Cayuga Creek	1E-07	0E+00	7E-09	9E-06	1E-07
Beryllium	Twelvemile Creek	5E-09	7E-10	3E-10		6E-09
Beryllium	Niagara River	5E-09	4E-10	3E-10		5E-09
Beryllium	Bergholtz Creek	5E-09	4E-09	3E-10		9E-09
Beryllium	Cayuga Creek	5E-09	7E-10	3E-10		6E-09
Cadmium	Twelvemile Creek	3E-06	3E-05	3E-06		3E-05
Cadmium	Niagara River	3E-06	2E-05	3E-06		2E-05
Cadmium	Bergholtz Creek	3E-06	2E-04	3E-06		2E-04
Cadmium	Cayuga Creek	3E-06	3E-05	3E-06		3E-05
Chromium VI	Twelvemile Creek	2E-07	4E-08	7E-07		9E-07
Chromium VI	Niagara River	2E-07	2E-08	7E-07		9E-07
Chromium VI	Bergholtz Creek	2E-07	2E-07	7E-07		1E-06
Chromium VI	Cayuga Creek	2E-07	4E-08	7E-07		9E-07
Chromium III	Twelvemile Creek	2E-08	8E-11	2E-11		2E-08
Chromium III	Niagara River	2E-08	5E-11	2E-11		2E-08
Chromium III	Bergholtz Creek	2E-08	3E-10	2E-11		2E-08
Chromium III	Cayuga Creek	2E-08	8E-11	2E-11		2E-08
Cobalt	Twelvemile Creek	9E-09	0E+00	1E-08		2E-08
Cobalt	Niagara River	9E-09	0E+00	1E-08		2E-08
Cobalt	Bergholtz Creek	9E-09	0E+00	1E-08		2E-08
Cobalt	Cayuga Creek	9E-09	0E+00	1E-08		2E-08
Hydrogen Chloride	Twelvemile Creek				2E-03	
Hydrogen Chloride	Niagara River				2E-03	
Hydrogen Chloride	Bergholtz Creek				2E-03	
Hydrogen Chloride	Cayuga Creek				2E-03	
Selenium	Twelvemile Creek	4E-09	5E-06	4E-08		5E-06
Selenium	Niagara River	4E-09	3E-06	4E-08		3E-06
Selenium	Bergholtz Creek	4E-09	3E-05	4E-08		3E-05
Selenium	Cayuga Creek	4E-09	5E-06	4E-08		5E-06
Chlorine	Twelvemile Creek				2E-03	
Chlorine	Niagara River				2E-03	
Chlorine	Bergholtz Creek				2E-03	
Chlorine	Cayuga Creek				2E-03	
Methylmercury - Developmental Effects	Twelvemile Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Niagara River	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Bergholtz Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Cayuga Creek	2E-07	0E+00	0E+00		2E-07

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Twelvemile Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Niagara River	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Bergholtz Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Cayuga Creek	6E-08	0E+00	0E+00		6E-08

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Twelvemile Creek	5E-10	4E-07	6E-11	5E-10	4E-07
2,3,7,8-TCDD-TEQ	Niagara River	5E-10	3E-07	6E-11	5E-10	3E-07
2,3,7,8-TCDD-TEQ	Bergholtz Creek	5E-10	2E-06	6E-11	5E-10	2E-06
2,3,7,8-TCDD-TEQ	Cayuga Creek	5E-10	4E-07	6E-11	5E-10	4E-07
Nickel	Twelvemile Creek				1E-09	
Nickel	Niagara River				1E-09	
Nickel	Bergholtz Creek				1E-09	
Nickel	Cayuga Creek				1E-09	
Arsenic	Twelvemile Creek	3E-11	5E-11	2E-10	1E-09	2E-10
Arsenic	Niagara River	3E-11	3E-11	2E-10	1E-09	2E-10
Arsenic	Bergholtz Creek	3E-11	3E-10	2E-10	1E-09	5E-10
Arsenic	Cayuga Creek	3E-11	5E-11	2E-10	1E-09	2E-10
Beryllium	Twelvemile Creek				2E-12	
Beryllium	Niagara River				2E-12	
Beryllium	Bergholtz Creek				2E-12	
Beryllium	Cayuga Creek				2E-12	
Cadmium	Twelvemile Creek				2E-09	
Cadmium	Niagara River				2E-09	
Cadmium	Bergholtz Creek				2E-09	
Cadmium	Cayuga Creek				2E-09	
Chromium VI	Twelvemile Creek				4E-08	
Chromium VI	Niagara River				4E-08	
Chromium VI	Bergholtz Creek				4E-08	
Chromium VI	Cayuga Creek				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Twelvemile Creek	1E-08	0E+00	4E-08	5E-04	5E-08
Manganese	Niagara River	1E-08	0E+00	4E-08	5E-04	5E-08
Manganese	Bergholtz Creek	1E-08	0E+00	4E-08	5E-04	5E-08
Manganese	Cayuga Creek	1E-08	0E+00	4E-08	5E-04	5E-08
Mercury (elemental)	Twelvemile Creek				2E-04	
Mercury (elemental)	Niagara River				2E-04	
Mercury (elemental)	Bergholtz Creek				2E-04	
Mercury (elemental)	Cayuga Creek				2E-04	
Mercury (divalent)	Twelvemile Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Niagara River	1E-06		0E+00		1E-06
Mercury (divalent)	Bergholtz Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Cayuga Creek	1E-06		0E+00		1E-06
Nickel	Twelvemile Creek	4E-08	2E-08	3E-07		4E-07
Nickel	Niagara River	4E-08	1E-08	3E-07		4E-07
Nickel	Bergholtz Creek	4E-08	1E-07	3E-07		5E-07
Nickel	Cayuga Creek	4E-08	2E-08	3E-07		4E-07
Silver	Twelvemile Creek	1E-10	0E+00	4E-08		4E-08
Silver	Niagara River	1E-10	0E+00	4E-08		4E-08
Silver	Bergholtz Creek	1E-10	0E+00	4E-08		4E-08
Silver	Cayuga Creek	1E-10	0E+00	4E-08		4E-08
Thallium	Twelvemile Creek	7E-08	9E-07	2E-07		1E-06
Thallium	Niagara River	7E-08	5E-07	2E-07		8E-07
Thallium	Bergholtz Creek	7E-08	5E-06	2E-07		5E-06
Thallium	Cayuga Creek	7E-08	9E-07	2E-07		1E-06

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Twelvemile Creek	3E-06	0E+00	2E-04		2E-04
Antimony	Niagara River	3E-06	0E+00	2E-04		2E-04
Antimony	Bergholtz Creek	3E-06	0E+00	2E-04		2E-04
Antimony	Cayuga Creek	3E-06	0E+00	2E-04		2E-04
Arsenic	Twelvemile Creek	3E-07	4E-07	1E-06		2E-06
Arsenic	Niagara River	3E-07	3E-07	1E-06		2E-06
Arsenic	Bergholtz Creek	3E-07	3E-06	1E-06		4E-06
Arsenic	Cayuga Creek	3E-07	4E-07	1E-06		2E-06
Barium	Twelvemile Creek	5E-08	0E+00	8E-09	9E-06	5E-08
Barium	Niagara River	5E-08	0E+00	8E-09	9E-06	5E-08
Barium	Bergholtz Creek	5E-08	0E+00	8E-09	9E-06	5E-08
Barium	Cayuga Creek	5E-08	0E+00	8E-09	9E-06	5E-08
Beryllium	Twelvemile Creek	2E-09	7E-10	4E-10		3E-09
Beryllium	Niagara River	2E-09	4E-10	4E-10		3E-09
Beryllium	Bergholtz Creek	2E-09	4E-09	4E-10		6E-09
Beryllium	Cayuga Creek	2E-09	7E-10	4E-10		3E-09
Cadmium	Twelvemile Creek	1E-06	3E-05	3E-06		3E-05
Cadmium	Niagara River	1E-06	2E-05	3E-06		2E-05
Cadmium	Bergholtz Creek	1E-06	2E-04	3E-06		2E-04
Cadmium	Cayuga Creek	1E-06	3E-05	3E-06		3E-05
Chromium VI	Twelvemile Creek	9E-08	4E-08	8E-07		9E-07
Chromium VI	Niagara River	9E-08	2E-08	8E-07		9E-07
Chromium VI	Bergholtz Creek	9E-08	2E-07	8E-07		1E-06
Chromium VI	Cayuga Creek	9E-08	4E-08	8E-07		9E-07
Chromium III	Twelvemile Creek	8E-09	8E-11	2E-11		8E-09
Chromium III	Niagara River	8E-09	5E-11	2E-11		8E-09
Chromium III	Bergholtz Creek	8E-09	3E-10	2E-11		8E-09
Chromium III	Cayuga Creek	8E-09	8E-11	2E-11		8E-09
Cobalt	Twelvemile Creek	4E-09	0E+00	1E-08		2E-08
Cobalt	Niagara River	4E-09	0E+00	1E-08		2E-08
Cobalt	Bergholtz Creek	4E-09	0E+00	1E-08		2E-08
Cobalt	Cayuga Creek	4E-09	0E+00	1E-08		2E-08
Hydrogen Chloride	Twelvemile Creek				2E-03	
Hydrogen Chloride	Niagara River				2E-03	
Hydrogen Chloride	Bergholtz Creek				2E-03	
Hydrogen Chloride	Cayuga Creek				2E-03	
Selenium	Twelvemile Creek	1E-09	5E-06	5E-08		5E-06
Selenium	Niagara River	1E-09	3E-06	5E-08		3E-06
Selenium	Bergholtz Creek	1E-09	3E-05	5E-08		3E-05
Selenium	Cayuga Creek	1E-09	5E-06	5E-08		5E-06
Chlorine	Twelvemile Creek				2E-03	
Chlorine	Niagara River				2E-03	
Chlorine	Bergholtz Creek				2E-03	
Chlorine	Cayuga Creek				2E-03	
Methylmercury - Developmental Effects	Twelvemile Creek	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Niagara River	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Bergholtz Creek	8E-08	0E+00	0E+00		8E-08
Methylmercury - Developmental Effects	Cayuga Creek	8E-08	0E+00	0E+00		8E-08

Table IX-D20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A43) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Twelvemile Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Niagara River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Bergholtz Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Cayuga Creek	3E-08	0E+00	0E+00		3E-08

Table IX-D21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	2E-11	1E-11	4E-11	9E-09	1E-07	9E-10	5E-09	3E-09	2E-09	2E-15	7E-11	1E-07
Nickel												6E-10	
Arsenic	3E-09	1E-09	5E-10	3E-09	1E-08	2E-08	7E-10			2E-08	1E-11	7E-08	6E-08
Beryllium												3E-12	
Cadmium												5E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	1E-07	4E-07	8E-08	4E-06	6E-09			0E+00	3E-10	1E-03	5E-06
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	7E-06	3E-05	2E-05	2E-04	1E-03	7E-07				6E-08		2E-03
Nickel	1E-07	7E-08	3E-08	2E-07	2E-06	2E-05	1E-07			3E-07	6E-10		2E-05
Silver	2E-09	2E-08	5E-09	6E-08	4E-07	2E-04	2E-08			0E+00	3E-10		2E-04
Thallium	6E-06	6E-07	3E-08	2E-06	2E-04	5E-04	2E-05			2E-04	8E-09		9E-04
Antimony	1E-05	7E-05	1E-05	2E-04	3E-04	2E-03	1E-05			0E+00	7E-07		2E-03
Arsenic	8E-05	4E-05	1E-05	9E-05	3E-04	5E-04	2E-05			5E-04	3E-07		1E-03
Barium	9E-06	9E-07	2E-07	2E-06	4E-07	5E-05	6E-08			0E+00	3E-10	2E-04	6E-05
Beryllium	2E-08	3E-10	6E-11	8E-10	3E-09	1E-10	1E-09			9E-10	1E-12		3E-08
Cadmium	2E-05	2E-05	9E-06	4E-05	2E-06	6E-06	3E-07			8E-04	3E-08		9E-04
Chromium VI	3E-08	1E-08	4E-09	3E-08	4E-07	7E-06	2E-08			6E-08	2E-10		7E-06
Chromium III	4E-08	4E-10	3E-10	1E-09	3E-08	3E-07	9E-09			2E-12	8E-15		4E-07
Cobalt	5E-08	1E-08	6E-11	3E-08	1E-06	6E-06	8E-08			0E+00	1E-10		7E-06
Hydrogen Chloride												2E-03	
Selenium	2E-08	2E-08	1E-08	6E-08	5E-07	4E-05	2E-06			3E-04	4E-10		4E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	2E-05	2E-06	5E-06	2E-06	1E-05	1E-04	4E-08			2E-03	1E-09		2E-03
Methylmercury - Neurological Effects	6E-06	6E-07	2E-06	7E-07	5E-06	4E-05	1E-08			6E-04	4E-10		7E-04

Table IX-D21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	1E-11	9E-12	5E-11	1E-08	7E-08	7E-10	5E-09	3E-09	2E-09	2E-15	8E-11	9E-08
Nickel												6E-10	
Arsenic	1E-09	1E-09	5E-10	4E-09	2E-08	1E-08	5E-10			2E-08	8E-12	8E-08	6E-08
Beryllium												4E-12	
Cadmium												6E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	8E-08	4E-07	9E-08	2E-06	4E-09			0E+00	1E-10	1E-03	3E-06
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	4E-06	2E-05	1E-05	2E-04	7E-04	4E-07				4E-08		1E-03
Nickel	3E-08	4E-08	2E-08	2E-07	2E-06	9E-06	6E-08			2E-07	3E-10		1E-05
Silver	4E-10	1E-08	4E-09	6E-08	5E-07	8E-05	9E-09			0E+00	2E-10		8E-05
Thallium	2E-06	3E-07	2E-08	2E-06	2E-04	2E-04	1E-05			2E-04	5E-09		6E-04
Antimony	4E-06	4E-05	1E-05	2E-04	4E-04	9E-04	7E-06			0E+00	4E-07		2E-03
Arsenic	2E-05	2E-05	1E-05	8E-05	3E-04	2E-04	1E-05			4E-04	1E-07		1E-03
Barium	2E-06	5E-07	2E-07	2E-06	5E-07	3E-05	4E-08			0E+00	2E-10	2E-04	3E-05
Beryllium	6E-09	2E-10	4E-11	8E-10	4E-09	7E-11	6E-10			7E-10	7E-13		1E-08
Cadmium	4E-06	1E-05	6E-06	4E-05	2E-06	3E-06	2E-07			6E-04	2E-08		7E-04
Chromium VI	8E-09	6E-09	3E-09	3E-08	5E-07	3E-06	1E-08			4E-08	9E-11		4E-06
Chromium III	9E-09	2E-10	2E-10	1E-09	3E-08	2E-07	5E-09			1E-12	4E-15		2E-07
Cobalt	1E-08	6E-09	4E-11	3E-08	1E-06	3E-06	5E-08			0E+00	6E-11		4E-06
Hydrogen Chloride												2E-03	
Selenium	5E-09	1E-08	9E-09	6E-08	6E-07	2E-05	1E-06			2E-04	2E-10		3E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	5E-06	1E-06	3E-06	2E-06	2E-05	7E-05	3E-08			1E-03	7E-10		1E-03
Methylmercury - Neurological Effects	2E-06	3E-07	1E-06	6E-07	5E-06	2E-05	9E-09			5E-04	2E-10		5E-04

Table IX-D21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-11	1E-11	7E-12	3E-11	7E-09	3E-08	5E-10	3E-09	2E-09	1E-09	1E-15	5E-11	5E-08
Nickel												4E-10	
Arsenic	6E-10	9E-10	4E-10	2E-09	8E-09	6E-09	4E-10			1E-08	5E-12	5E-08	3E-08
Beryllium												2E-12	
Cadmium												4E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	1E-07	6E-08	2E-07	4E-08	9E-07	2E-09			0E+00	9E-11	1E-03	1E-06
Mercury (elemental)												2E-06	
Mercury (divalent)	4E-05	3E-06	2E-05	8E-06	9E-05	3E-04	3E-07			0E+00	2E-08		5E-04
Nickel	2E-08	3E-08	1E-08	9E-08	1E-06	4E-06	4E-08			1E-07	2E-10		5E-06
Silver	2E-10	1E-08	3E-09	3E-08	2E-07	4E-05	6E-09			0E+00	1E-10		4E-05
Thallium	8E-07	2E-07	2E-08	8E-07	9E-05	1E-04	6E-06			9E-05	3E-09		3E-04
Antimony	2E-06	3E-05	7E-06	9E-05	2E-04	4E-04	5E-06			0E+00	2E-07		7E-04
Arsenic	1E-05	2E-05	7E-06	4E-05	1E-04	1E-04	6E-06			2E-04	9E-08		5E-04
Barium	1E-06	4E-07	1E-07	9E-07	2E-07	1E-05	2E-08			0E+00	1E-10	2E-04	1E-05
Beryllium	3E-09	1E-10	3E-11	4E-10	2E-09	3E-11	4E-10			4E-10	4E-13		6E-09
Cadmium	2E-06	8E-06	4E-06	2E-05	1E-06	1E-06	1E-07			3E-04	1E-08		4E-04
Chromium VI	4E-09	5E-09	2E-09	2E-08	2E-07	2E-06	9E-09			2E-08	6E-11		2E-06
Chromium III	5E-09	2E-10	1E-10	6E-10	1E-08	8E-08	4E-09			8E-13	3E-15		1E-07
Cobalt	6E-09	5E-09	3E-11	1E-08	5E-07	1E-06	3E-08			0E+00	4E-11		2E-06
Hydrogen Chloride												2E-03	
Selenium	3E-09	1E-08	7E-09	3E-08	3E-07	1E-05	7E-07			1E-04	1E-10		1E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	3E-06	7E-07	2E-06	1E-06	7E-06	3E-05	2E-08			7E-04	5E-10		8E-04
Methylmercury - Neurological Effects	8E-07	2E-07	8E-07	3E-07	2E-06	1E-05	6E-09			2E-04	2E-10		3E-04

Table IX-D21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-11	3E-11	1E-11	5E-11	1E-08	3E-08	8E-10	5E-09	3E-09	2E-09	2E-15	8E-11	5E-08
Nickel												6E-10	
Arsenic	5E-10	2E-09	7E-10	4E-09	2E-08	5E-09	6E-10			2E-08	1E-11	7E-08	5E-08
Beryllium												4E-12	
Cadmium												5E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-07	7E-08	2E-07	5E-08	4E-07	2E-09			0E+00	1E-10	1E-03	9E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	2E-05	4E-06	2E-05	7E-06	1E-04	1E-04	2E-07			0E+00	3E-08		3E-04
Nickel	7E-09	4E-08	2E-08	8E-08	1E-06	2E-06	3E-08			1E-07	2E-10		3E-06
Silver	9E-11	1E-08	3E-09	3E-08	2E-07	2E-05	5E-09			0E+00	1E-10		2E-05
Thallium	3E-07	3E-07	2E-08	8E-07	1E-04	5E-05	6E-06			1E-04	3E-09		3E-04
Antimony	8E-07	4E-05	8E-06	8E-05	2E-04	2E-04	4E-06			0E+00	3E-07		5E-04
Arsenic	4E-06	2E-05	8E-06	4E-05	2E-04	5E-05	6E-06			2E-04	1E-07		5E-04
Barium	5E-07	5E-07	1E-07	8E-07	3E-07	5E-06	2E-08			0E+00	1E-10	2E-04	8E-06
Beryllium	1E-09	2E-10	3E-11	4E-10	2E-09	1E-11	4E-10			4E-10	5E-13		5E-09
Cadmium	9E-07	1E-05	5E-06	2E-05	1E-06	6E-07	1E-07			4E-04	1E-08		4E-04
Chromium VI	2E-09	6E-09	2E-09	1E-08	3E-07	7E-07	8E-09			3E-08	7E-11		1E-06
Chromium III	2E-09	2E-10	1E-10	5E-10	2E-08	4E-08	3E-09			8E-13	3E-15		6E-08
Cobalt	3E-09	7E-09	3E-11	1E-08	6E-07	6E-07	3E-08			0E+00	4E-11		1E-06
Hydrogen Chloride												2E-03	
Selenium	1E-09	1E-08	8E-09	3E-08	3E-07	4E-06	6E-07			1E-04	1E-10		1E-04
Chlorine												4E-02	
Methylmercury - Developmental Effects	1E-06	1E-06	3E-06	9E-07	8E-06	1E-05	1E-08			8E-04	5E-10		8E-04
Methylmercury - Neurological Effects	3E-07	3E-07	9E-07	3E-07	3E-06	4E-06	5E-09			3E-04	2E-10		3E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	San Jacinto River	3E-10	5E-12	2E-15	7E-11	3E-10
2,3,7,8-TCDD-TEQ	Carpenters Bayou	3E-10	2E-10	2E-15	7E-11	5E-10
2,3,7,8-TCDD-TEQ	Highlands Reservoir	3E-10	5E-10	2E-15	7E-11	8E-10
2,3,7,8-TCDD-TEQ	Buffalo Bayou	3E-10	2E-11	2E-15	7E-11	3E-10
Nickel	San Jacinto River				6E-10	
Nickel	Carpenters Bayou				6E-10	
Nickel	Highlands Reservoir				6E-10	
Nickel	Buffalo Bayou				6E-10	
Arsenic	San Jacinto River	3E-09	1E-12	1E-11	7E-08	3E-09
Arsenic	Carpenters Bayou	3E-09	4E-11	1E-11	7E-08	3E-09
Arsenic	Highlands Reservoir	3E-09	2E-10	1E-11	7E-08	3E-09
Arsenic	Buffalo Bayou	3E-09	3E-12	1E-11	7E-08	3E-09
Beryllium	San Jacinto River				3E-12	
Beryllium	Carpenters Bayou				3E-12	
Beryllium	Highlands Reservoir				3E-12	
Beryllium	Buffalo Bayou				3E-12	
Cadmium	San Jacinto River				5E-09	
Cadmium	Carpenters Bayou				5E-09	
Cadmium	Highlands Reservoir				5E-09	
Cadmium	Buffalo Bayou				5E-09	
Chromium VI	San Jacinto River				2E-09	
Chromium VI	Carpenters Bayou				2E-09	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	Buffalo Bayou				2E-09	
	Noncarcinogenic Chemicals					
Manganese	San Jacinto River	2E-07	0E+00	3E-10	1E-03	2E-07
Manganese	Carpenters Bayou	2E-07	0E+00	3E-10	1E-03	2E-07
Manganese	Highlands Reservoir	2E-07	0E+00	3E-10	1E-03	2E-07
Manganese	Buffalo Bayou	2E-07	0E+00	3E-10	1E-03	2E-07
Mercury (elemental)	San Jacinto River				2E-06	
Mercury (elemental)	Carpenters Bayou				2E-06	
Mercury (elemental)	Highlands Reservoir				2E-06	
Mercury (elemental)	Buffalo Bayou				2E-06	
Mercury (divalent)	San Jacinto River	3E-04		6E-08		3E-04
Mercury (divalent)	Carpenters Bayou	3E-04		6E-08		3E-04
Mercury (divalent)	Highlands Reservoir	3E-04		6E-08		3E-04
Mercury (divalent)	Buffalo Bayou	3E-04		6E-08		3E-04
Nickel	San Jacinto River	1E-07	1E-11	6E-10		1E-07
Nickel	Carpenters Bayou	1E-07	6E-10	6E-10		1E-07
Nickel	Highlands Reservoir	1E-07	3E-09	6E-10		1E-07
Nickel	Buffalo Bayou	1E-07	4E-11	6E-10		1E-07
Silver	San Jacinto River	2E-09	0E+00	3E-10		2E-09
Silver	Carpenters Bayou	2E-09	0E+00	3E-10		2E-09
Silver	Highlands Reservoir	2E-09	0E+00	3E-10		2E-09
Silver	Buffalo Bayou	2E-09	0E+00	3E-10		2E-09
Thallium	San Jacinto River	6E-06	2E-08	8E-09		6E-06
Thallium	Carpenters Bayou	6E-06	7E-07	8E-09		7E-06
Thallium	Highlands Reservoir	6E-06	3E-06	8E-09		9E-06
Thallium	Buffalo Bayou	6E-06	5E-08	8E-09		6E-06

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	San Jacinto River	1E-05	0E+00	7E-07		2E-05
Antimony	Carpenters Bayou	1E-05	0E+00	7E-07		2E-05
Antimony	Highlands Reservoir	1E-05	0E+00	7E-07		2E-05
Antimony	Buffalo Bayou	1E-05	0E+00	7E-07		2E-05
Arsenic	San Jacinto River	8E-05	3E-08	3E-07		8E-05
Arsenic	Carpenters Bayou	8E-05	1E-06	3E-07		8E-05
Arsenic	Highlands Reservoir	8E-05	5E-06	3E-07		8E-05
Arsenic	Buffalo Bayou	8E-05	8E-08	3E-07		8E-05
Barium	San Jacinto River	9E-06	0E+00	3E-10	2E-04	9E-06
Barium	Carpenters Bayou	9E-06	0E+00	3E-10	2E-04	9E-06
Barium	Highlands Reservoir	9E-06	0E+00	3E-10	2E-04	9E-06
Barium	Buffalo Bayou	9E-06	0E+00	3E-10	2E-04	9E-06
Beryllium	San Jacinto River	2E-08	9E-13	1E-12		2E-08
Beryllium	Carpenters Bayou	2E-08	4E-11	1E-12		2E-08
Beryllium	Highlands Reservoir	2E-08	2E-10	1E-12		2E-08
Beryllium	Buffalo Bayou	2E-08	3E-12	1E-12		2E-08
Cadmium	San Jacinto River	2E-05	8E-08	3E-08		2E-05
Cadmium	Carpenters Bayou	2E-05	3E-06	3E-08		2E-05
Cadmium	Highlands Reservoir	2E-05	1E-05	3E-08		3E-05
Cadmium	Buffalo Bayou	2E-05	2E-07	3E-08		2E-05
Chromium VI	San Jacinto River	3E-08	3E-12	2E-10		3E-08
Chromium VI	Carpenters Bayou	3E-08	1E-10	2E-10		3E-08
Chromium VI	Highlands Reservoir	3E-08	5E-10	2E-10		3E-08
Chromium VI	Buffalo Bayou	3E-08	9E-12	2E-10		3E-08
Chromium III	San Jacinto River	4E-08	3E-14	8E-15		4E-08
Chromium III	Carpenters Bayou	4E-08	1E-12	8E-15		4E-08
Chromium III	Highlands Reservoir	4E-08	6E-12	8E-15		4E-08
Chromium III	Buffalo Bayou	4E-08	1E-13	8E-15		4E-08
Cobalt	San Jacinto River	5E-08	0E+00	8E-15		5E-08
Cobalt	Carpenters Bayou	5E-08	0E+00	8E-15		5E-08
Cobalt	Highlands Reservoir	5E-08	0E+00	8E-15		5E-08
Cobalt	Buffalo Bayou	5E-08	0E+00	8E-15		5E-08
Hydrogen Chloride	San Jacinto River				2E-03	
Hydrogen Chloride	Carpenters Bayou				2E-03	
Hydrogen Chloride	Highlands Reservoir				2E-03	
Hydrogen Chloride	Buffalo Bayou				2E-03	
Selenium	San Jacinto River	2E-08	1E-08	4E-10		3E-08
Selenium	Carpenters Bayou	2E-08	6E-07	4E-10		6E-07
Selenium	Highlands Reservoir	2E-08	3E-06	4E-10		3E-06
Selenium	Buffalo Bayou	2E-08	4E-08	4E-10		6E-08
Chlorine	San Jacinto River				4E-02	
Chlorine	Carpenters Bayou				4E-02	
Chlorine	Highlands Reservoir				4E-02	
Chlorine	Buffalo Bayou				4E-02	
Methylmercury - Developmental Effects	San Jacinto River	2E-05	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Carpenters Bayou	2E-05	2E-03	1E-09		2E-03
Methylmercury - Developmental Effects	Highlands Reservoir	2E-05	1E-03	1E-09		1E-03
Methylmercury - Developmental Effects	Buffalo Bayou	2E-05	3E-04	1E-09		3E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	San Jacinto River	6E-06	6E-05	4E-10		7E-05
Methylmercury - Neurological Effects	Carpenters Bayou	6E-06	8E-04	4E-10		8E-04
Methylmercury - Neurological Effects	Highlands Reservoir	6E-06	4E-04	4E-10		4E-04
Methylmercury - Neurological Effects	Buffalo Bayou	6E-06	9E-05	4E-10		1E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	San Jacinto River	1E-10	7E-12	2E-15	8E-11	1E-10
2,3,7,8-TCDD-TEQ	Carpenters Bayou	1E-10	3E-10	2E-15	8E-11	4E-10
2,3,7,8-TCDD-TEQ	Highlands Reservoir	1E-10	7E-10	2E-15	8E-11	7E-10
2,3,7,8-TCDD-TEQ	Buffalo Bayou	1E-10	2E-11	2E-15	8E-11	1E-10
Nickel	San Jacinto River				6E-10	
Nickel	Carpenters Bayou				6E-10	
Nickel	Highlands Reservoir				6E-10	
Nickel	Buffalo Bayou				6E-10	
Arsenic	San Jacinto River	1E-09	1E-12	8E-12	8E-08	1E-09
Arsenic	Carpenters Bayou	1E-09	6E-11	8E-12	8E-08	1E-09
Arsenic	Highlands Reservoir	1E-09	3E-10	8E-12	8E-08	1E-09
Arsenic	Buffalo Bayou	1E-09	4E-12	8E-12	8E-08	1E-09
Beryllium	San Jacinto River				4E-12	
Beryllium	Carpenters Bayou				4E-12	
Beryllium	Highlands Reservoir				4E-12	
Beryllium	Buffalo Bayou				4E-12	
Cadmium	San Jacinto River				6E-09	
Cadmium	Carpenters Bayou				6E-09	
Cadmium	Highlands Reservoir				6E-09	
Cadmium	Buffalo Bayou				6E-09	
Chromium VI	San Jacinto River				2E-09	
Chromium VI	Carpenters Bayou				2E-09	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	Buffalo Bayou				2E-09	
	Noncarcinogenic Chemicals					
Manganese	San Jacinto River	4E-08	0E+00	1E-10	1E-03	4E-08
Manganese	Carpenters Bayou	4E-08	0E+00	1E-10	1E-03	4E-08
Manganese	Highlands Reservoir	4E-08	0E+00	1E-10	1E-03	4E-08
Manganese	Buffalo Bayou	4E-08	0E+00	1E-10	1E-03	4E-08
Mercury (elemental)	San Jacinto River				2E-06	
Mercury (elemental)	Carpenters Bayou				2E-06	
Mercury (elemental)	Highlands Reservoir				2E-06	
Mercury (elemental)	Buffalo Bayou				2E-06	
Mercury (divalent)	San Jacinto River	8E-05		4E-08		8E-05
Mercury (divalent)	Carpenters Bayou	8E-05		4E-08		8E-05
Mercury (divalent)	Highlands Reservoir	8E-05		4E-08		8E-05
Mercury (divalent)	Buffalo Bayou	8E-05		4E-08		8E-05
Nickel	San Jacinto River	3E-08	1E-11	3E-10		3E-08
Nickel	Carpenters Bayou	3E-08	6E-10	3E-10		3E-08
Nickel	Highlands Reservoir	3E-08	3E-09	3E-10		4E-08
Nickel	Buffalo Bayou	3E-08	4E-11	3E-10		3E-08
Silver	San Jacinto River	4E-10	0E+00	2E-10		6E-10
Silver	Carpenters Bayou	4E-10	0E+00	2E-10		6E-10
Silver	Highlands Reservoir	4E-10	0E+00	2E-10		6E-10
Silver	Buffalo Bayou	4E-10	0E+00	2E-10		6E-10
Thallium	San Jacinto River	2E-06	2E-08	5E-09		2E-06
Thallium	Carpenters Bayou	2E-06	7E-07	5E-09		2E-06
Thallium	Highlands Reservoir	2E-06	3E-06	5E-09		5E-06
Thallium	Buffalo Bayou	2E-06	5E-08	5E-09		2E-06

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	San Jacinto River	4E-06	0E+00	4E-07		4E-06
Antimony	Carpenters Bayou	4E-06	0E+00	4E-07		4E-06
Antimony	Highlands Reservoir	4E-06	0E+00	4E-07		4E-06
Antimony	Buffalo Bayou	4E-06	0E+00	4E-07		4E-06
Arsenic	San Jacinto River	2E-05	3E-08	1E-07		2E-05
Arsenic	Carpenters Bayou	2E-05	1E-06	1E-07		2E-05
Arsenic	Highlands Reservoir	2E-05	5E-06	1E-07		3E-05
Arsenic	Buffalo Bayou	2E-05	8E-08	1E-07		2E-05
Barium	San Jacinto River	2E-06	0E+00	2E-10	2E-04	2E-06
Barium	Carpenters Bayou	2E-06	0E+00	2E-10	2E-04	2E-06
Barium	Highlands Reservoir	2E-06	0E+00	2E-10	2E-04	2E-06
Barium	Buffalo Bayou	2E-06	0E+00	2E-10	2E-04	2E-06
Beryllium	San Jacinto River	6E-09	9E-13	7E-13		6E-09
Beryllium	Carpenters Bayou	6E-09	4E-11	7E-13		6E-09
Beryllium	Highlands Reservoir	6E-09	2E-10	7E-13		6E-09
Beryllium	Buffalo Bayou	6E-09	3E-12	7E-13		6E-09
Cadmium	San Jacinto River	4E-06	8E-08	2E-08		4E-06
Cadmium	Carpenters Bayou	4E-06	3E-06	2E-08		8E-06
Cadmium	Highlands Reservoir	4E-06	1E-05	2E-08		2E-05
Cadmium	Buffalo Bayou	4E-06	2E-07	2E-08		5E-06
Chromium VI	San Jacinto River	8E-09	3E-12	9E-11		8E-09
Chromium VI	Carpenters Bayou	8E-09	1E-10	9E-11		8E-09
Chromium VI	Highlands Reservoir	8E-09	5E-10	9E-11		9E-09
Chromium VI	Buffalo Bayou	8E-09	9E-12	9E-11		8E-09
Chromium III	San Jacinto River	9E-09	3E-14	4E-15		9E-09
Chromium III	Carpenters Bayou	9E-09	1E-12	4E-15		9E-09
Chromium III	Highlands Reservoir	9E-09	6E-12	4E-15		9E-09
Chromium III	Buffalo Bayou	9E-09	1E-13	4E-15		9E-09
Cobalt	San Jacinto River	1E-08	0E+00	4E-15		1E-08
Cobalt	Carpenters Bayou	1E-08	0E+00	4E-15		1E-08
Cobalt	Highlands Reservoir	1E-08	0E+00	4E-15		1E-08
Cobalt	Buffalo Bayou	1E-08	0E+00	4E-15		1E-08
Hydrogen Chloride	San Jacinto River				2E-03	
Hydrogen Chloride	Carpenters Bayou				2E-03	
Hydrogen Chloride	Highlands Reservoir				2E-03	
Hydrogen Chloride	Buffalo Bayou				2E-03	
Selenium	San Jacinto River	5E-09	1E-08	2E-10		2E-08
Selenium	Carpenters Bayou	5E-09	6E-07	2E-10		6E-07
Selenium	Highlands Reservoir	5E-09	3E-06	2E-10		3E-06
Selenium	Buffalo Bayou	5E-09	4E-08	2E-10		5E-08
Chlorine	San Jacinto River				4E-02	
Chlorine	Carpenters Bayou				4E-02	
Chlorine	Highlands Reservoir				4E-02	
Chlorine	Buffalo Bayou				4E-02	
Methylmercury - Developmental Effects	San Jacinto River	5E-06	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Carpenters Bayou	5E-06	2E-03	7E-10		2E-03
Methylmercury - Developmental Effects	Highlands Reservoir	5E-06	1E-03	7E-10		1E-03
Methylmercury - Developmental Effects	Buffalo Bayou	5E-06	3E-04	7E-10		3E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	San Jacinto River	2E-06	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Carpenters Bayou	2E-06	8E-04	2E-10		8E-04
Methylmercury - Neurological Effects	Highlands Reservoir	2E-06	4E-04	2E-10		4E-04
Methylmercury - Neurological Effects	Buffalo Bayou	2E-06	9E-05	2E-10		9E-05

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	San Jacinto River	5E-11	5E-12	1E-15	5E-11	6E-11
2,3,7,8-TCDD-TEQ	Carpenters Bayou	5E-11	2E-10	1E-15	5E-11	3E-10
2,3,7,8-TCDD-TEQ	Highlands Reservoir	5E-11	5E-10	1E-15	5E-11	5E-10
2,3,7,8-TCDD-TEQ	Buffalo Bayou	5E-11	2E-11	1E-15	5E-11	7E-11
Nickel	San Jacinto River				4E-10	
Nickel	Carpenters Bayou				4E-10	
Nickel	Highlands Reservoir				4E-10	
Nickel	Buffalo Bayou				4E-10	
Arsenic	San Jacinto River	6E-10	1E-12	5E-12	5E-08	6E-10
Arsenic	Carpenters Bayou	6E-10	4E-11	5E-12	5E-08	7E-10
Arsenic	Highlands Reservoir	6E-10	2E-10	5E-12	5E-08	8E-10
Arsenic	Buffalo Bayou	6E-10	3E-12	5E-12	5E-08	6E-10
Beryllium	San Jacinto River				2E-12	
Beryllium	Carpenters Bayou				2E-12	
Beryllium	Highlands Reservoir				2E-12	
Beryllium	Buffalo Bayou				2E-12	
Cadmium	San Jacinto River				4E-09	
Cadmium	Carpenters Bayou				4E-09	
Cadmium	Highlands Reservoir				4E-09	
Cadmium	Buffalo Bayou				4E-09	
Chromium VI	San Jacinto River				1E-09	
Chromium VI	Carpenters Bayou				1E-09	
Chromium VI	Highlands Reservoir				1E-09	
Chromium VI	Buffalo Bayou				1E-09	
	Noncarcinogenic Chemicals					
Manganese	San Jacinto River	2E-08	0E+00	9E-11	1E-03	2E-08
Manganese	Carpenters Bayou	2E-08	0E+00	9E-11	1E-03	2E-08
Manganese	Highlands Reservoir	2E-08	0E+00	9E-11	1E-03	2E-08
Manganese	Buffalo Bayou	2E-08	0E+00	9E-11	1E-03	2E-08
Mercury (elemental)	San Jacinto River				2E-06	
Mercury (elemental)	Carpenters Bayou				2E-06	
Mercury (elemental)	Highlands Reservoir				2E-06	
Mercury (elemental)	Buffalo Bayou				2E-06	
Mercury (divalent)	San Jacinto River	4E-05		2E-08		4E-05
Mercury (divalent)	Carpenters Bayou	4E-05		2E-08		4E-05
Mercury (divalent)	Highlands Reservoir	4E-05		2E-08		4E-05
Mercury (divalent)	Buffalo Bayou	4E-05		2E-08		4E-05
Nickel	San Jacinto River	2E-08	1E-11	2E-10		2E-08
Nickel	Carpenters Bayou	2E-08	4E-10	2E-10		2E-08
Nickel	Highlands Reservoir	2E-08	2E-09	2E-10		2E-08
Nickel	Buffalo Bayou	2E-08	3E-11	2E-10		2E-08
Silver	San Jacinto River	2E-10	0E+00	1E-10		3E-10
Silver	Carpenters Bayou	2E-10	0E+00	1E-10		3E-10
Silver	Highlands Reservoir	2E-10	0E+00	1E-10		3E-10
Silver	Buffalo Bayou	2E-10	0E+00	1E-10		3E-10
Thallium	San Jacinto River	8E-07	1E-08	3E-09		8E-07
Thallium	Carpenters Bayou	8E-07	5E-07	3E-09		1E-06
Thallium	Highlands Reservoir	8E-07	2E-06	3E-09		3E-06
Thallium	Buffalo Bayou	8E-07	4E-08	3E-09		9E-07

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	San Jacinto River	2E-06	0E+00	2E-07		2E-06
Antimony	Carpenters Bayou	2E-06	0E+00	2E-07		2E-06
Antimony	Highlands Reservoir	2E-06	0E+00	2E-07		2E-06
Antimony	Buffalo Bayou	2E-06	0E+00	2E-07		2E-06
Arsenic	San Jacinto River	1E-05	2E-08	9E-08		1E-05
Arsenic	Carpenters Bayou	1E-05	8E-07	9E-08		1E-05
Arsenic	Highlands Reservoir	1E-05	4E-06	9E-08		1E-05
Arsenic	Buffalo Bayou	1E-05	6E-08	9E-08		1E-05
Barium	San Jacinto River	1E-06	0E+00	1E-10	2E-04	1E-06
Barium	Carpenters Bayou	1E-06	0E+00	1E-10	2E-04	1E-06
Barium	Highlands Reservoir	1E-06	0E+00	1E-10	2E-04	1E-06
Barium	Buffalo Bayou	1E-06	0E+00	1E-10	2E-04	1E-06
Beryllium	San Jacinto River	3E-09	7E-13	4E-13		3E-09
Beryllium	Carpenters Bayou	3E-09	3E-11	4E-13		3E-09
Beryllium	Highlands Reservoir	3E-09	2E-10	4E-13		3E-09
Beryllium	Buffalo Bayou	3E-09	2E-12	4E-13		3E-09
Cadmium	San Jacinto River	2E-06	5E-08	1E-08		2E-06
Cadmium	Carpenters Bayou	2E-06	2E-06	1E-08		5E-06
Cadmium	Highlands Reservoir	2E-06	1E-05	1E-08		1E-05
Cadmium	Buffalo Bayou	2E-06	2E-07	1E-08		2E-06
Chromium VI	San Jacinto River	4E-09	2E-12	6E-11		4E-09
Chromium VI	Carpenters Bayou	4E-09	8E-11	6E-11		4E-09
Chromium VI	Highlands Reservoir	4E-09	4E-10	6E-11		5E-09
Chromium VI	Buffalo Bayou	4E-09	6E-12	6E-11		4E-09
Chromium III	San Jacinto River	5E-09	2E-14	3E-15		5E-09
Chromium III	Carpenters Bayou	5E-09	1E-12	3E-15		5E-09
Chromium III	Highlands Reservoir	5E-09	4E-12	3E-15		5E-09
Chromium III	Buffalo Bayou	5E-09	7E-14	3E-15		5E-09
Cobalt	San Jacinto River	6E-09	0E+00	4E-11		6E-09
Cobalt	Carpenters Bayou	6E-09	0E+00	4E-11		6E-09
Cobalt	Highlands Reservoir	6E-09	0E+00	4E-11		6E-09
Cobalt	Buffalo Bayou	6E-09	0E+00	4E-11		6E-09
Hydrogen Chloride	San Jacinto River				2E-03	
Hydrogen Chloride	Carpenters Bayou				2E-03	
Hydrogen Chloride	Highlands Reservoir				2E-03	
Hydrogen Chloride	Buffalo Bayou				2E-03	
Selenium	San Jacinto River	3E-09	9E-09	1E-10		1E-08
Selenium	Carpenters Bayou	3E-09	4E-07	1E-10		4E-07
Selenium	Highlands Reservoir	3E-09	2E-06	1E-10		2E-06
Selenium	Buffalo Bayou	3E-09	3E-08	1E-10		3E-08
Chlorine	San Jacinto River				4E-02	
Chlorine	Carpenters Bayou				4E-02	
Chlorine	Highlands Reservoir				4E-02	
Chlorine	Buffalo Bayou				4E-02	
Methylmercury - Developmental Effects	San Jacinto River	3E-06	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Carpenters Bayou	3E-06	2E-03	5E-10		2E-03
Methylmercury - Developmental Effects	Highlands Reservoir	3E-06	9E-04	5E-10		9E-04
Methylmercury - Developmental Effects	Buffalo Bayou	3E-06	2E-04	5E-10		2E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	San Jacinto River	8E-07	4E-05	2E-10		4E-05
Methylmercury - Neurological Effects	Carpenters Bayou	8E-07	6E-04	2E-10		6E-04
Methylmercury - Neurological Effects	Highlands Reservoir	8E-07	3E-04	2E-10		3E-04
Methylmercury - Neurological Effects	Buffalo Bayou	8E-07	7E-05	2E-10		7E-05

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	San Jacinto River	4E-11	9E-12	2E-15	8E-11	5E-11
2,3,7,8-TCDD-TEQ	Carpenters Bayou	4E-11	4E-10	2E-15	8E-11	4E-10
2,3,7,8-TCDD-TEQ	Highlands Reservoir	4E-11	9E-10	2E-15	8E-11	9E-10
2,3,7,8-TCDD-TEQ	Buffalo Bayou	4E-11	3E-11	2E-15	8E-11	6E-11
Nickel	San Jacinto River				6E-10	
Nickel	Carpenters Bayou				6E-10	
Nickel	Highlands Reservoir				6E-10	
Nickel	Buffalo Bayou				6E-10	
Arsenic	San Jacinto River	5E-10	2E-12	1E-11	7E-08	5E-10
Arsenic	Carpenters Bayou	5E-10	9E-11	1E-11	7E-08	6E-10
Arsenic	Highlands Reservoir	5E-10	4E-10	1E-11	7E-08	9E-10
Arsenic	Buffalo Bayou	5E-10	6E-12	1E-11	7E-08	5E-10
Beryllium	San Jacinto River				4E-12	
Beryllium	Carpenters Bayou				4E-12	
Beryllium	Highlands Reservoir				4E-12	
Beryllium	Buffalo Bayou				4E-12	
Cadmium	San Jacinto River				5E-09	
Cadmium	Carpenters Bayou				5E-09	
Cadmium	Highlands Reservoir				5E-09	
Cadmium	Buffalo Bayou				5E-09	
Chromium VI	San Jacinto River				2E-09	
Chromium VI	Carpenters Bayou				2E-09	
Chromium VI	Highlands Reservoir				2E-09	
Chromium VI	Buffalo Bayou				2E-09	
	Noncarcinogenic Chemicals					
Manganese	San Jacinto River	1E-08	0E+00	1E-10	1E-03	1E-08
Manganese	Carpenters Bayou	1E-08	0E+00	1E-10	1E-03	1E-08
Manganese	Highlands Reservoir	1E-08	0E+00	1E-10	1E-03	1E-08
Manganese	Buffalo Bayou	1E-08	0E+00	1E-10	1E-03	1E-08
Mercury (elemental)	San Jacinto River				2E-06	
Mercury (elemental)	Carpenters Bayou				2E-06	
Mercury (elemental)	Highlands Reservoir				2E-06	
Mercury (elemental)	Buffalo Bayou				2E-06	
Mercury (divalent)	San Jacinto River	2E-05		3E-08		2E-05
Mercury (divalent)	Carpenters Bayou	2E-05		3E-08		2E-05
Mercury (divalent)	Highlands Reservoir	2E-05		3E-08		2E-05
Mercury (divalent)	Buffalo Bayou	2E-05		3E-08		2E-05
Nickel	San Jacinto River	7E-09	1E-11	2E-10		7E-09
Nickel	Carpenters Bayou	7E-09	4E-10	2E-10		8E-09
Nickel	Highlands Reservoir	7E-09	2E-09	2E-10		9E-09
Nickel	Buffalo Bayou	7E-09	3E-11	2E-10		7E-09
Silver	San Jacinto River	9E-11	0E+00	1E-10		2E-10
Silver	Carpenters Bayou	9E-11	0E+00	1E-10		2E-10
Silver	Highlands Reservoir	9E-11	0E+00	1E-10		2E-10
Silver	Buffalo Bayou	9E-11	0E+00	1E-10		2E-10
Thallium	San Jacinto River	3E-07	1E-08	3E-09		4E-07
Thallium	Carpenters Bayou	3E-07	5E-07	3E-09		8E-07
Thallium	Highlands Reservoir	3E-07	2E-06	3E-09		3E-06
Thallium	Buffalo Bayou	3E-07	4E-08	3E-09		4E-07

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	San Jacinto River	8E-07	0E+00	3E-07		1E-06
Antimony	Carpenters Bayou	8E-07	0E+00	3E-07		1E-06
Antimony	Highlands Reservoir	8E-07	0E+00	3E-07		1E-06
Antimony	Buffalo Bayou	8E-07	0E+00	3E-07		1E-06
Arsenic	San Jacinto River	4E-06	2E-08	1E-07		5E-06
Arsenic	Carpenters Bayou	4E-06	8E-07	1E-07		5E-06
Arsenic	Highlands Reservoir	4E-06	4E-06	1E-07		8E-06
Arsenic	Buffalo Bayou	4E-06	6E-08	1E-07		5E-06
Barium	San Jacinto River	5E-07	0E+00	1E-10	2E-04	5E-07
Barium	Carpenters Bayou	5E-07	0E+00	1E-10	2E-04	5E-07
Barium	Highlands Reservoir	5E-07	0E+00	1E-10	2E-04	5E-07
Barium	Buffalo Bayou	5E-07	0E+00	1E-10	2E-04	5E-07
Beryllium	San Jacinto River	1E-09	7E-13	5E-13		1E-09
Beryllium	Carpenters Bayou	1E-09	3E-11	5E-13		1E-09
Beryllium	Highlands Reservoir	1E-09	2E-10	5E-13		1E-09
Beryllium	Buffalo Bayou	1E-09	2E-12	5E-13		1E-09
Cadmium	San Jacinto River	9E-07	5E-08	1E-08		1E-06
Cadmium	Carpenters Bayou	9E-07	2E-06	1E-08		3E-06
Cadmium	Highlands Reservoir	9E-07	1E-05	1E-08		1E-05
Cadmium	Buffalo Bayou	9E-07	2E-07	1E-08		1E-06
Chromium VI	San Jacinto River	2E-09	2E-12	7E-11		2E-09
Chromium VI	Carpenters Bayou	2E-09	8E-11	7E-11		2E-09
Chromium VI	Highlands Reservoir	2E-09	4E-10	7E-11		2E-09
Chromium VI	Buffalo Bayou	2E-09	6E-12	7E-11		2E-09
Chromium III	San Jacinto River	2E-09	2E-14	3E-15		2E-09
Chromium III	Carpenters Bayou	2E-09	1E-12	3E-15		2E-09
Chromium III	Highlands Reservoir	2E-09	4E-12	3E-15		2E-09
Chromium III	Buffalo Bayou	2E-09	7E-14	3E-15		2E-09
Cobalt	San Jacinto River	3E-09	0E+00	4E-11		3E-09
Cobalt	Carpenters Bayou	3E-09	0E+00	4E-11		3E-09
Cobalt	Highlands Reservoir	3E-09	0E+00	4E-11		3E-09
Cobalt	Buffalo Bayou	3E-09	0E+00	4E-11		3E-09
Hydrogen Chloride	San Jacinto River				2E-03	
Hydrogen Chloride	Carpenters Bayou				2E-03	
Hydrogen Chloride	Highlands Reservoir				2E-03	
Hydrogen Chloride	Buffalo Bayou				2E-03	
Selenium	San Jacinto River	1E-09	9E-09	1E-10		1E-08
Selenium	Carpenters Bayou	1E-09	4E-07	1E-10		4E-07
Selenium	Highlands Reservoir	1E-09	2E-06	1E-10		2E-06
Selenium	Buffalo Bayou	1E-09	3E-08	1E-10		3E-08
Chlorine	San Jacinto River				4E-02	
Chlorine	Carpenters Bayou				4E-02	
Chlorine	Highlands Reservoir				4E-02	
Chlorine	Buffalo Bayou				4E-02	
Methylmercury - Developmental Effects	San Jacinto River	1E-06	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Carpenters Bayou	1E-06	2E-03	5E-10		2E-03
Methylmercury - Developmental Effects	Highlands Reservoir	1E-06	9E-04	5E-10		9E-04
Methylmercury - Developmental Effects	Buffalo Bayou	1E-06	2E-04	5E-10		2E-04

Table IX-D22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A50) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	San Jacinto River	3E-07	4E-05	2E-10		4E-05
Methylmercury - Neurological Effects	Carpenters Bayou	3E-07	6E-04	2E-10		6E-04
Methylmercury - Neurological Effects	Highlands Reservoir	3E-07	3E-04	2E-10		3E-04
Methylmercury - Neurological Effects	Buffalo Bayou	3E-07	7E-05	2E-10		7E-05

Table IX-D23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-11	5E-12	3E-12	1E-11	3E-09	3E-08	3E-10	2E-09	1E-09	6E-10		2E-11	3E-08
Nickel												5E-12	
Arsenic	6E-11	2E-11	1E-11	5E-11	1E-10	2E-10	1E-11			4E-10		1E-09	1E-09
Beryllium												1E-09	
Cadmium												9E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-09	7E-09	4E-09	1E-08	2E-09	1E-07	2E-10			0E+00		3E-05	1E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	1E-04	1E-06	3E-04	1E-04	2E-03	7E-08						2E-03
Nickel	1E-09	5E-10	2E-10	1E-09	1E-08	1E-07	7E-10			3E-09			1E-07
Silver	1E-10	2E-09	5E-10	5E-09	3E-08	1E-05	1E-09			0E+00			1E-05
Thallium	9E-08	8E-09	5E-10	2E-08	2E-06	6E-06	2E-07			4E-06			1E-05
Antimony	1E-08	4E-08	1E-08	1E-07	1E-07	9E-07	6E-09			0E+00			1E-06
Arsenic	1E-06	6E-07	3E-07	1E-06	4E-06	6E-06	3E-07			1E-05			2E-05
Barium	7E-08	7E-09	2E-09	1E-08	3E-09	4E-07	5E-10			0E+00		2E-06	5E-07
Beryllium	9E-06	1E-07	2E-08	3E-07	1E-06	5E-08	4E-07			4E-07			1E-05
Cadmium	3E-06	4E-06	2E-06	7E-06	3E-07	1E-06	5E-08			2E-04			2E-04
Chromium VI	2E-08	6E-09	2E-09	2E-08	2E-07	4E-06	1E-08			4E-08			4E-06
Chromium III	3E-08	3E-10	2E-10	8E-10	2E-08	3E-07	7E-09			2E-12			3E-07
Cobalt	1E-09	3E-10	2E-12	8E-10	3E-08	2E-07	2E-09			0E+00			2E-07
Hydrogen Chloride												7E-04	
Selenium	3E-09	3E-09	2E-09	8E-09	6E-08	5E-06	2E-07			6E-05			6E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	7E-07	5E-05	2E-07	4E-05	1E-04	1E-03	2E-08			7E-04			2E-03
Methylmercury - Neurological Effects	2E-07	2E-05	6E-08	1E-05	3E-05	5E-04	6E-09			2E-04			8E-04

Table IX-D23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-11	4E-12	3E-12	1E-11	4E-09	2E-08	2E-10	2E-09	1E-09	7E-10		2E-11	3E-08
Nickel												5E-12	
Arsenic	2E-11	2E-11	1E-11	7E-11	2E-10	2E-10	8E-12			5E-10		1E-09	1E-09
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	4E-09	3E-09	1E-08	3E-09	5E-08	1E-10			0E+00		3E-05	8E-08
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	8E-05	9E-07	3E-04	1E-04	9E-04	4E-08						1E-03
Nickel	3E-10	3E-10	2E-10	1E-09	2E-08	6E-08	4E-10			2E-09			8E-08
Silver	4E-11	1E-09	3E-10	5E-09	4E-08	6E-06	7E-10			0E+00			6E-06
Thallium	2E-08	4E-09	3E-10	2E-08	3E-06	3E-06	1E-07			3E-06			9E-06
Antimony	3E-09	2E-08	7E-09	9E-08	2E-07	4E-07	4E-09			0E+00			7E-07
Arsenic	4E-07	4E-07	2E-07	1E-06	4E-06	3E-06	2E-07			8E-06			2E-05
Barium	2E-08	4E-09	1E-09	1E-08	4E-09	2E-07	3E-10			0E+00		2E-06	2E-07
Beryllium	2E-06	6E-08	2E-08	3E-07	1E-06	3E-08	2E-07			3E-07			5E-06
Cadmium	8E-07	2E-06	1E-06	7E-06	4E-07	5E-07	3E-08			1E-04			1E-04
Chromium VI	5E-09	3E-09	2E-09	2E-08	3E-07	2E-06	7E-09			3E-08			2E-06
Chromium III	7E-09	2E-10	1E-10	8E-10	2E-08	1E-07	4E-09			1E-12			2E-07
Cobalt	4E-10	2E-10	1E-12	8E-10	3E-08	8E-08	1E-09			0E+00			1E-07
Hydrogen Chloride												7E-04	
Selenium	8E-10	2E-09	2E-09	7E-09	7E-08	2E-06	1E-07			4E-05			5E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	2E-07	3E-05	1E-07	4E-05	1E-04	7E-04	1E-08			5E-04			1E-03
Methylmercury - Neurological Effects	6E-08	9E-06	4E-08	1E-05	4E-05	2E-04	4E-09			2E-04			5E-04

Table IX-D23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	3E-12	2E-12	8E-12	2E-09	9E-09	1E-10	1E-09	6E-10	4E-10		1E-11	1E-08
Nickel												3E-12	
Arsenic	1E-11	1E-11	7E-12	4E-11	1E-10	8E-11	6E-12			2E-10		9E-10	5E-10
Beryllium												9E-10	
Cadmium												7E-10	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	7E-10	3E-09	2E-09	7E-09	1E-09	2E-08	7E-11			0E+00		3E-05	4E-08
Mercury (elemental)												5E-05	
Mercury (divalent)	2E-06	6E-05	6E-07	1E-04	6E-05	4E-04	3E-08			0E+00			7E-04
Nickel	1E-10	2E-10	1E-10	7E-10	7E-09	3E-08	3E-10			1E-09			4E-08
Silver	2E-11	8E-10	2E-10	3E-09	2E-08	3E-06	5E-10			0E+00			3E-06
Thallium	1E-08	3E-09	2E-10	1E-08	1E-06	2E-06	9E-08			2E-06			4E-06
Antimony	1E-09	2E-08	5E-09	5E-08	8E-08	2E-07	2E-09			0E+00			4E-07
Arsenic	2E-07	3E-07	1E-07	7E-07	2E-06	1E-06	1E-07			4E-06			9E-06
Barium	9E-09	3E-09	9E-10	7E-09	2E-09	9E-08	2E-10			0E+00		2E-06	1E-07
Beryllium	1E-06	5E-08	1E-08	1E-07	7E-07	1E-08	2E-07			1E-07			2E-06
Cadmium	4E-07	2E-06	8E-07	3E-06	2E-07	2E-07	2E-08			7E-05			7E-05
Chromium VI	3E-09	3E-09	1E-09	8E-09	1E-07	8E-07	5E-09			2E-08			1E-06
Chromium III	4E-09	1E-10	1E-10	4E-10	1E-08	6E-08	3E-09			6E-13			8E-08
Cobalt	2E-10	1E-10	9E-13	4E-10	1E-08	4E-08	9E-10			0E+00			5E-08
Hydrogen Chloride												7E-04	
Selenium	4E-10	1E-09	1E-09	4E-09	3E-08	1E-06	8E-08			2E-05			2E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	1E-07	2E-05	9E-08	2E-05	5E-05	3E-04	7E-09			3E-04			7E-04
Methylmercury - Neurological Effects	3E-08	7E-06	3E-08	8E-06	2E-05	1E-04	2E-09			1E-04			2E-04

Table IX-D23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	8E-12	4E-12	1E-11	4E-09	7E-09	2E-10	2E-09	1E-09	7E-10		2E-11	2E-08
Nickel												5E-12	
Arsenic	9E-12	3E-11	1E-11	6E-11	2E-10	7E-11	9E-12			5E-10		1E-09	9E-10
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-10	4E-09	2E-09	6E-09	1E-09	1E-08	6E-11			0E+00		3E-05	3E-08
Mercury (elemental)												5E-05	
Mercury (divalent)	6E-07	8E-05	7E-07	1E-04	7E-05	2E-04	2E-08			0E+00			5E-04
Nickel	6E-11	3E-10	1E-10	6E-10	8E-09	1E-08	2E-10			1E-09			2E-08
Silver	8E-12	1E-09	3E-10	2E-09	2E-08	1E-06	4E-10			0E+00			1E-06
Thallium	5E-09	4E-09	3E-10	1E-08	1E-06	7E-07	8E-08			2E-06			4E-06
Antimony	6E-10	2E-08	6E-09	5E-08	9E-08	9E-08	2E-09			0E+00			3E-07
Arsenic	8E-08	4E-07	2E-07	7E-07	2E-06	6E-07	9E-08			5E-06			9E-06
Barium	4E-09	4E-09	1E-09	6E-09	2E-09	4E-08	2E-10			0E+00		2E-06	6E-08
Beryllium	5E-07	7E-08	1E-08	1E-07	8E-07	5E-09	1E-07			2E-07			2E-06
Cadmium	2E-07	2E-06	9E-07	3E-06	2E-07	1E-07	2E-08			7E-05			8E-05
Chromium VI	1E-09	3E-09	1E-09	8E-09	1E-07	4E-07	4E-09			2E-08			5E-07
Chromium III	2E-09	2E-10	1E-10	4E-10	1E-08	3E-08	2E-09			7E-13			4E-08
Cobalt	8E-11	2E-10	1E-12	4E-10	2E-08	2E-08	7E-10			0E+00			3E-08
Hydrogen Chloride												7E-04	
Selenium	2E-10	2E-09	1E-09	4E-09	3E-08	5E-07	7E-08			3E-05			3E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	4E-08	3E-05	1E-07	2E-05	6E-05	1E-04	6E-09			3E-04			6E-04
Methylmercury - Neurological Effects	1E-08	9E-06	3E-08	7E-06	2E-05	5E-05	2E-09			1E-04			2E-04

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney Creek	8E-11	2E-09	0E+00	2E-11	2E-09
2,3,7,8-TCDD-TEQ	E & W Fork Crystal Cr.	8E-11	8E-09	0E+00	2E-11	9E-09
2,3,7,8-TCDD-TEQ	Stewarts Creek	8E-11	5E-09	0E+00	2E-11	5E-09
2,3,7,8-TCDD-TEQ	Lewis Creek Reservoir	8E-11	2E-09	0E+00	2E-11	2E-09
Nickel	Caney Creek				5E-12	
Nickel	E & W Fork Crystal Cr.				5E-12	
Nickel	Stewarts Creek				5E-12	
Nickel	Lewis Creek Reservoir				5E-12	
Arsenic	Caney Creek	6E-11	3E-11	0E+00	1E-09	9E-11
Arsenic	E & W Fork Crystal Cr.	6E-11	7E-11	0E+00	1E-09	1E-10
Arsenic	Stewarts Creek	6E-11	7E-11	0E+00	1E-09	1E-10
Arsenic	Lewis Creek Reservoir	6E-11	7E-11	0E+00	1E-09	1E-10
Beryllium	Caney Creek				1E-09	
Beryllium	E & W Fork Crystal Cr.				1E-09	
Beryllium	Stewarts Creek				1E-09	
Beryllium	Lewis Creek Reservoir				1E-09	
Cadmium	Caney Creek				9E-10	
Cadmium	E & W Fork Crystal Cr.				9E-10	
Cadmium	Stewarts Creek				9E-10	
Cadmium	Lewis Creek Reservoir				9E-10	
Chromium VI	Caney Creek				1E-09	
Chromium VI	E & W Fork Crystal Cr.				1E-09	
Chromium VI	Stewarts Creek				1E-09	
Chromium VI	Lewis Creek Reservoir				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Caney Creek	5E-09	0E+00	0E+00	3E-05	5E-09
Manganese	E & W Fork Crystal Cr.	5E-09	0E+00	0E+00	3E-05	5E-09
Manganese	Stewarts Creek	5E-09	0E+00	0E+00	3E-05	5E-09
Manganese	Lewis Creek Reservoir	5E-09	0E+00	0E+00	3E-05	5E-09
Mercury (elemental)	Caney Creek				5E-05	
Mercury (elemental)	E & W Fork Crystal Cr.				5E-05	
Mercury (elemental)	Stewarts Creek				5E-05	
Mercury (elemental)	Lewis Creek Reservoir				5E-05	
Mercury (divalent)	Caney Creek	1E-05		0E+00		1E-05
Mercury (divalent)	E & W Fork Crystal Cr.	1E-05		0E+00		1E-05
Mercury (divalent)	Stewarts Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Lewis Creek Reservoir	1E-05		0E+00		1E-05
Nickel	Caney Creek	1E-09	2E-10	0E+00		1E-09
Nickel	E & W Fork Crystal Cr.	1E-09	4E-10	0E+00		1E-09
Nickel	Stewarts Creek	1E-09	4E-10	0E+00		1E-09
Nickel	Lewis Creek Reservoir	1E-09	4E-10	0E+00		1E-09
Silver	Caney Creek	1E-10	0E+00	0E+00		1E-10
Silver	E & W Fork Crystal Cr.	1E-10	0E+00	0E+00		1E-10
Silver	Stewarts Creek	1E-10	0E+00	0E+00		1E-10
Silver	Lewis Creek Reservoir	1E-10	0E+00	0E+00		1E-10
Thallium	Caney Creek	9E-08	4E-07	0E+00		5E-07
Thallium	E & W Fork Crystal Cr.	9E-08	9E-07	0E+00		1E-06
Thallium	Stewarts Creek	9E-08	8E-07	0E+00		9E-07
Thallium	Lewis Creek Reservoir	9E-08	9E-07	0E+00		1E-06

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney Creek	1E-08	0E+00	0E+00		1E-08
Antimony	E & W Fork Crystal Cr.	1E-08	0E+00	0E+00		1E-08
Antimony	Stewarts Creek	1E-08	0E+00	0E+00		1E-08
Antimony	Lewis Creek Reservoir	1E-08	0E+00	0E+00		1E-08
Arsenic	Caney Creek	1E-06	9E-07	0E+00		2E-06
Arsenic	E & W Fork Crystal Cr.	1E-06	2E-06	0E+00		3E-06
Arsenic	Stewarts Creek	1E-06	2E-06	0E+00		3E-06
Arsenic	Lewis Creek Reservoir	1E-06	2E-06	0E+00		3E-06
Barium	Caney Creek	7E-08	0E+00	0E+00	2E-06	7E-08
Barium	E & W Fork Crystal Cr.	7E-08	0E+00	0E+00	2E-06	7E-08
Barium	Stewarts Creek	7E-08	0E+00	0E+00	2E-06	7E-08
Barium	Lewis Creek Reservoir	7E-08	0E+00	0E+00	2E-06	7E-08
Beryllium	Caney Creek	9E-06	6E-07	0E+00		9E-06
Beryllium	E & W Fork Crystal Cr.	9E-06	2E-06	0E+00		1E-05
Beryllium	Stewarts Creek	9E-06	1E-06	0E+00		1E-05
Beryllium	Lewis Creek Reservoir	9E-06	2E-06	0E+00		1E-05
Cadmium	Caney Creek	3E-06	2E-05	0E+00		3E-05
Cadmium	E & W Fork Crystal Cr.	3E-06	5E-05	0E+00		5E-05
Cadmium	Stewarts Creek	3E-06	5E-05	0E+00		5E-05
Cadmium	Lewis Creek Reservoir	3E-06	5E-05	0E+00		5E-05
Chromium VI	Caney Creek	2E-08	3E-09	0E+00		2E-08
Chromium VI	E & W Fork Crystal Cr.	2E-08	6E-09	0E+00		3E-08
Chromium VI	Stewarts Creek	2E-08	6E-09	0E+00		2E-08
Chromium VI	Lewis Creek Reservoir	2E-08	6E-09	0E+00		3E-08
Chromium III	Caney Creek	3E-08	5E-11	0E+00		3E-08
Chromium III	E & W Fork Crystal Cr.	3E-08	2E-10	0E+00		3E-08
Chromium III	Stewarts Creek	3E-08	1E-10	0E+00		3E-08
Chromium III	Lewis Creek Reservoir	3E-08	9E-11	0E+00		3E-08
Cobalt	Caney Creek	1E-09	0E+00	0E+00		1E-09
Cobalt	E & W Fork Crystal Cr.	1E-09	0E+00	0E+00		1E-09
Cobalt	Stewarts Creek	1E-09	0E+00	0E+00		1E-09
Cobalt	Lewis Creek Reservoir	1E-09	0E+00	0E+00		1E-09
Hydrogen Chloride	Caney Creek				7E-04	
Hydrogen Chloride	E & W Fork Crystal Cr.				7E-04	
Hydrogen Chloride	Stewarts Creek				7E-04	
Hydrogen Chloride	Lewis Creek Reservoir				7E-04	
Selenium	Caney Creek	3E-09	4E-06	0E+00		4E-06
Selenium	E & W Fork Crystal Cr.	3E-09	8E-06	0E+00		8E-06
Selenium	Stewarts Creek	3E-09	7E-06	0E+00		7E-06
Selenium	Lewis Creek Reservoir	3E-09	8E-06	0E+00		8E-06
Chlorine	Caney Creek				2E-04	
Chlorine	E & W Fork Crystal Cr.				2E-04	
Chlorine	Stewarts Creek				2E-04	
Chlorine	Lewis Creek Reservoir				2E-04	
Methylmercury - Developmental Effects	Caney Creek	7E-07	0E+00	0E+00		7E-07
Methylmercury - Developmental Effects	E & W Fork Crystal Cr.	7E-07	0E+00	0E+00		7E-07
Methylmercury - Developmental Effects	Stewarts Creek	7E-07	0E+00	0E+00		7E-07
Methylmercury - Developmental Effects	Lewis Creek Reservoir	7E-07	0E+00	0E+00		7E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	E & W Fork Crystal Cr.	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Stewarts Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Lewis Creek Reservoir	2E-07	0E+00	0E+00		2E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney Creek	3E-11	3E-09	0E+00	2E-11	3E-09
2,3,7,8-TCDD-TEQ	E & W Fork Crystal Cr.	3E-11	1E-08	0E+00	2E-11	1E-08
2,3,7,8-TCDD-TEQ	Stewarts Creek	3E-11	6E-09	0E+00	2E-11	6E-09
2,3,7,8-TCDD-TEQ	Lewis Creek Reservoir	3E-11	2E-09	0E+00	2E-11	2E-09
Nickel	Caney Creek				5E-12	
Nickel	E & W Fork Crystal Cr.				5E-12	
Nickel	Stewarts Creek				5E-12	
Nickel	Lewis Creek Reservoir				5E-12	
Arsenic	Caney Creek	2E-11	5E-11	0E+00	1E-09	7E-11
Arsenic	E & W Fork Crystal Cr.	2E-11	1E-10	0E+00	1E-09	1E-10
Arsenic	Stewarts Creek	2E-11	9E-11	0E+00	1E-09	1E-10
Arsenic	Lewis Creek Reservoir	2E-11	1E-10	0E+00	1E-09	1E-10
Beryllium	Caney Creek				1E-09	
Beryllium	E & W Fork Crystal Cr.				1E-09	
Beryllium	Stewarts Creek				1E-09	
Beryllium	Lewis Creek Reservoir				1E-09	
Cadmium	Caney Creek				1E-09	
Cadmium	E & W Fork Crystal Cr.				1E-09	
Cadmium	Stewarts Creek				1E-09	
Cadmium	Lewis Creek Reservoir				1E-09	
Chromium VI	Caney Creek				1E-09	
Chromium VI	E & W Fork Crystal Cr.				1E-09	
Chromium VI	Stewarts Creek				1E-09	
Chromium VI	Lewis Creek Reservoir				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Caney Creek	1E-09	0E+00	0E+00	3E-05	1E-09
Manganese	E & W Fork Crystal Cr.	1E-09	0E+00	0E+00	3E-05	1E-09
Manganese	Stewarts Creek	1E-09	0E+00	0E+00	3E-05	1E-09
Manganese	Lewis Creek Reservoir	1E-09	0E+00	0E+00	3E-05	1E-09
Mercury (elemental)	Caney Creek				5E-05	
Mercury (elemental)	E & W Fork Crystal Cr.				5E-05	
Mercury (elemental)	Stewarts Creek				5E-05	
Mercury (elemental)	Lewis Creek Reservoir				5E-05	
Mercury (divalent)	Caney Creek	3E-06		0E+00		3E-06
Mercury (divalent)	E & W Fork Crystal Cr.	3E-06		0E+00		3E-06
Mercury (divalent)	Stewarts Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Lewis Creek Reservoir	3E-06		0E+00		3E-06
Nickel	Caney Creek	3E-10	2E-10	0E+00		5E-10
Nickel	E & W Fork Crystal Cr.	3E-10	4E-10	0E+00		7E-10
Nickel	Stewarts Creek	3E-10	4E-10	0E+00		7E-10
Nickel	Lewis Creek Reservoir	3E-10	4E-10	0E+00		7E-10
Silver	Caney Creek	4E-11	0E+00	0E+00		4E-11
Silver	E & W Fork Crystal Cr.	4E-11	0E+00	0E+00		4E-11
Silver	Stewarts Creek	4E-11	0E+00	0E+00		4E-11
Silver	Lewis Creek Reservoir	4E-11	0E+00	0E+00		4E-11
Thallium	Caney Creek	2E-08	4E-07	0E+00		5E-07
Thallium	E & W Fork Crystal Cr.	2E-08	9E-07	0E+00		9E-07
Thallium	Stewarts Creek	2E-08	8E-07	0E+00		9E-07
Thallium	Lewis Creek Reservoir	2E-08	9E-07	0E+00		9E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney Creek	3E-09	0E+00	0E+00		3E-09
Antimony	E & W Fork Crystal Cr.	3E-09	0E+00	0E+00		3E-09
Antimony	Stewarts Creek	3E-09	0E+00	0E+00		3E-09
Antimony	Lewis Creek Reservoir	3E-09	0E+00	0E+00		3E-09
Arsenic	Caney Creek	4E-07	9E-07	0E+00		1E-06
Arsenic	E & W Fork Crystal Cr.	4E-07	2E-06	0E+00		2E-06
Arsenic	Stewarts Creek	4E-07	2E-06	0E+00		2E-06
Arsenic	Lewis Creek Reservoir	4E-07	2E-06	0E+00		2E-06
Barium	Caney Creek	2E-08	0E+00	0E+00	2E-06	2E-08
Barium	E & W Fork Crystal Cr.	2E-08	0E+00	0E+00	2E-06	2E-08
Barium	Stewarts Creek	2E-08	0E+00	0E+00	2E-06	2E-08
Barium	Lewis Creek Reservoir	2E-08	0E+00	0E+00	2E-06	2E-08
Beryllium	Caney Creek	2E-06	6E-07	0E+00		3E-06
Beryllium	E & W Fork Crystal Cr.	2E-06	2E-06	0E+00		4E-06
Beryllium	Stewarts Creek	2E-06	1E-06	0E+00		4E-06
Beryllium	Lewis Creek Reservoir	2E-06	2E-06	0E+00		4E-06
Cadmium	Caney Creek	8E-07	2E-05	0E+00		2E-05
Cadmium	E & W Fork Crystal Cr.	8E-07	5E-05	0E+00		5E-05
Cadmium	Stewarts Creek	8E-07	5E-05	0E+00		5E-05
Cadmium	Lewis Creek Reservoir	8E-07	5E-05	0E+00		5E-05
Chromium VI	Caney Creek	5E-09	3E-09	0E+00		8E-09
Chromium VI	E & W Fork Crystal Cr.	5E-09	6E-09	0E+00		1E-08
Chromium VI	Stewarts Creek	5E-09	6E-09	0E+00		1E-08
Chromium VI	Lewis Creek Reservoir	5E-09	6E-09	0E+00		1E-08
Chromium III	Caney Creek	7E-09	5E-11	0E+00		7E-09
Chromium III	E & W Fork Crystal Cr.	7E-09	2E-10	0E+00		8E-09
Chromium III	Stewarts Creek	7E-09	1E-10	0E+00		7E-09
Chromium III	Lewis Creek Reservoir	7E-09	9E-11	0E+00		7E-09
Cobalt	Caney Creek	4E-10	0E+00	0E+00		4E-10
Cobalt	E & W Fork Crystal Cr.	4E-10	0E+00	0E+00		4E-10
Cobalt	Stewarts Creek	4E-10	0E+00	0E+00		4E-10
Cobalt	Lewis Creek Reservoir	4E-10	0E+00	0E+00		4E-10
Hydrogen Chloride	Caney Creek				7E-04	
Hydrogen Chloride	E & W Fork Crystal Cr.				7E-04	
Hydrogen Chloride	Stewarts Creek				7E-04	
Hydrogen Chloride	Lewis Creek Reservoir				7E-04	
Selenium	Caney Creek	8E-10	4E-06	0E+00		4E-06
Selenium	E & W Fork Crystal Cr.	8E-10	8E-06	0E+00		8E-06
Selenium	Stewarts Creek	8E-10	7E-06	0E+00		7E-06
Selenium	Lewis Creek Reservoir	8E-10	8E-06	0E+00		8E-06
Chlorine	Caney Creek				2E-04	
Chlorine	E & W Fork Crystal Cr.				2E-04	
Chlorine	Stewarts Creek				2E-04	
Chlorine	Lewis Creek Reservoir				2E-04	
Methylmercury - Developmental Effects	Caney Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	E & W Fork Crystal Cr.	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Stewarts Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Developmental Effects	Lewis Creek Reservoir	2E-07	0E+00	0E+00		2E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	E & W Fork Crystal Cr.	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Stewarts Creek	6E-08	0E+00	0E+00		6E-08
Methylmercury - Neurological Effects	Lewis Creek Reservoir	6E-08	0E+00	0E+00		6E-08

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney Creek	2E-11	2E-09	0E+00	1E-11	2E-09
2,3,7,8-TCDD-TEQ	E & W Fork Crystal Cr.	2E-11	8E-09	0E+00	1E-11	8E-09
2,3,7,8-TCDD-TEQ	Stewarts Creek	2E-11	5E-09	0E+00	1E-11	5E-09
2,3,7,8-TCDD-TEQ	Lewis Creek Reservoir	2E-11	2E-09	0E+00	1E-11	2E-09
Nickel	Caney Creek				3E-12	
Nickel	E & W Fork Crystal Cr.				3E-12	
Nickel	Stewarts Creek				3E-12	
Nickel	Lewis Creek Reservoir				3E-12	
Arsenic	Caney Creek	1E-11	3E-11	0E+00	9E-10	5E-11
Arsenic	E & W Fork Crystal Cr.	1E-11	7E-11	0E+00	9E-10	8E-11
Arsenic	Stewarts Creek	1E-11	7E-11	0E+00	9E-10	8E-11
Arsenic	Lewis Creek Reservoir	1E-11	7E-11	0E+00	9E-10	8E-11
Beryllium	Caney Creek				9E-10	
Beryllium	E & W Fork Crystal Cr.				9E-10	
Beryllium	Stewarts Creek				9E-10	
Beryllium	Lewis Creek Reservoir				9E-10	
Cadmium	Caney Creek				7E-10	
Cadmium	E & W Fork Crystal Cr.				7E-10	
Cadmium	Stewarts Creek				7E-10	
Cadmium	Lewis Creek Reservoir				7E-10	
Chromium VI	Caney Creek				8E-10	
Chromium VI	E & W Fork Crystal Cr.				8E-10	
Chromium VI	Stewarts Creek				8E-10	
Chromium VI	Lewis Creek Reservoir				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Caney Creek	7E-10	0E+00	0E+00	3E-05	7E-10
Manganese	E & W Fork Crystal Cr.	7E-10	0E+00	0E+00	3E-05	7E-10
Manganese	Stewarts Creek	7E-10	0E+00	0E+00	3E-05	7E-10
Manganese	Lewis Creek Reservoir	7E-10	0E+00	0E+00	3E-05	7E-10
Mercury (elemental)	Caney Creek				5E-05	
Mercury (elemental)	E & W Fork Crystal Cr.				5E-05	
Mercury (elemental)	Stewarts Creek				5E-05	
Mercury (elemental)	Lewis Creek Reservoir				5E-05	
Mercury (divalent)	Caney Creek	2E-06		0E+00		2E-06
Mercury (divalent)	E & W Fork Crystal Cr.	2E-06		0E+00		2E-06
Mercury (divalent)	Stewarts Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Lewis Creek Reservoir	2E-06		0E+00		2E-06
Nickel	Caney Creek	1E-10	1E-10	0E+00		3E-10
Nickel	E & W Fork Crystal Cr.	1E-10	3E-10	0E+00		4E-10
Nickel	Stewarts Creek	1E-10	3E-10	0E+00		4E-10
Nickel	Lewis Creek Reservoir	1E-10	3E-10	0E+00		4E-10
Silver	Caney Creek	2E-11	0E+00	0E+00		2E-11
Silver	E & W Fork Crystal Cr.	2E-11	0E+00	0E+00		2E-11
Silver	Stewarts Creek	2E-11	0E+00	0E+00		2E-11
Silver	Lewis Creek Reservoir	2E-11	0E+00	0E+00		2E-11
Thallium	Caney Creek	1E-08	3E-07	0E+00		3E-07
Thallium	E & W Fork Crystal Cr.	1E-08	6E-07	0E+00		7E-07
Thallium	Stewarts Creek	1E-08	6E-07	0E+00		6E-07
Thallium	Lewis Creek Reservoir	1E-08	6E-07	0E+00		7E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney Creek	1E-09	0E+00	0E+00		1E-09
Antimony	E & W Fork Crystal Cr.	1E-09	0E+00	0E+00		1E-09
Antimony	Stewarts Creek	1E-09	0E+00	0E+00		1E-09
Antimony	Lewis Creek Reservoir	1E-09	0E+00	0E+00		1E-09
Arsenic	Caney Creek	2E-07	6E-07	0E+00		8E-07
Arsenic	E & W Fork Crystal Cr.	2E-07	1E-06	0E+00		1E-06
Arsenic	Stewarts Creek	2E-07	1E-06	0E+00		1E-06
Arsenic	Lewis Creek Reservoir	2E-07	1E-06	0E+00		1E-06
Barium	Caney Creek	9E-09	0E+00	0E+00	2E-06	9E-09
Barium	E & W Fork Crystal Cr.	9E-09	0E+00	0E+00	2E-06	9E-09
Barium	Stewarts Creek	9E-09	0E+00	0E+00	2E-06	9E-09
Barium	Lewis Creek Reservoir	9E-09	0E+00	0E+00	2E-06	9E-09
Beryllium	Caney Creek	1E-06	4E-07	0E+00		2E-06
Beryllium	E & W Fork Crystal Cr.	1E-06	1E-06	0E+00		3E-06
Beryllium	Stewarts Creek	1E-06	1E-06	0E+00		2E-06
Beryllium	Lewis Creek Reservoir	1E-06	1E-06	0E+00		2E-06
Cadmium	Caney Creek	4E-07	2E-05	0E+00		2E-05
Cadmium	E & W Fork Crystal Cr.	4E-07	4E-05	0E+00		4E-05
Cadmium	Stewarts Creek	4E-07	3E-05	0E+00		3E-05
Cadmium	Lewis Creek Reservoir	4E-07	4E-05	0E+00		4E-05
Chromium VI	Caney Creek	3E-09	2E-09	0E+00		5E-09
Chromium VI	E & W Fork Crystal Cr.	3E-09	4E-09	0E+00		7E-09
Chromium VI	Stewarts Creek	3E-09	4E-09	0E+00		7E-09
Chromium VI	Lewis Creek Reservoir	3E-09	4E-09	0E+00		7E-09
Chromium III	Caney Creek	4E-09	3E-11	0E+00		4E-09
Chromium III	E & W Fork Crystal Cr.	4E-09	1E-10	0E+00		4E-09
Chromium III	Stewarts Creek	4E-09	9E-11	0E+00		4E-09
Chromium III	Lewis Creek Reservoir	4E-09	7E-11	0E+00		4E-09
Cobalt	Caney Creek	2E-10	0E+00	0E+00		2E-10
Cobalt	E & W Fork Crystal Cr.	2E-10	0E+00	0E+00		2E-10
Cobalt	Stewarts Creek	2E-10	0E+00	0E+00		2E-10
Cobalt	Lewis Creek Reservoir	2E-10	0E+00	0E+00		2E-10
Hydrogen Chloride	Caney Creek				7E-04	
Hydrogen Chloride	E & W Fork Crystal Cr.				7E-04	
Hydrogen Chloride	Stewarts Creek				7E-04	
Hydrogen Chloride	Lewis Creek Reservoir				7E-04	
Selenium	Caney Creek	4E-10	3E-06	0E+00		3E-06
Selenium	E & W Fork Crystal Cr.	4E-10	5E-06	0E+00		5E-06
Selenium	Stewarts Creek	4E-10	5E-06	0E+00		5E-06
Selenium	Lewis Creek Reservoir	4E-10	5E-06	0E+00		5E-06
Chlorine	Caney Creek				2E-04	
Chlorine	E & W Fork Crystal Cr.				2E-04	
Chlorine	Stewarts Creek				2E-04	
Chlorine	Lewis Creek Reservoir				2E-04	
Methylmercury - Developmental Effects	Caney Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	E & W Fork Crystal Cr.	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Stewarts Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Lewis Creek Reservoir	1E-07	0E+00	0E+00		1E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	E & W Fork Crystal Cr.	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Stewarts Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Lewis Creek Reservoir	3E-08	0E+00	0E+00		3E-08

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney Creek	1E-11	4E-09	0E+00	2E-11	4E-09
2,3,7,8-TCDD-TEQ	E & W Fork Crystal Cr.	1E-11	2E-08	0E+00	2E-11	2E-08
2,3,7,8-TCDD-TEQ	Stewarts Creek	1E-11	8E-09	0E+00	2E-11	8E-09
2,3,7,8-TCDD-TEQ	Lewis Creek Reservoir	1E-11	3E-09	0E+00	2E-11	3E-09
Nickel	Caney Creek				5E-12	
Nickel	E & W Fork Crystal Cr.				5E-12	
Nickel	Stewarts Creek				5E-12	
Nickel	Lewis Creek Reservoir				5E-12	
Arsenic	Caney Creek	9E-12	7E-11	0E+00	1E-09	7E-11
Arsenic	E & W Fork Crystal Cr.	9E-12	1E-10	0E+00	1E-09	1E-10
Arsenic	Stewarts Creek	9E-12	1E-10	0E+00	1E-09	1E-10
Arsenic	Lewis Creek Reservoir	9E-12	1E-10	0E+00	1E-09	1E-10
Beryllium	Caney Creek				1E-09	
Beryllium	E & W Fork Crystal Cr.				1E-09	
Beryllium	Stewarts Creek				1E-09	
Beryllium	Lewis Creek Reservoir				1E-09	
Cadmium	Caney Creek				1E-09	
Cadmium	E & W Fork Crystal Cr.				1E-09	
Cadmium	Stewarts Creek				1E-09	
Cadmium	Lewis Creek Reservoir				1E-09	
Chromium VI	Caney Creek				1E-09	
Chromium VI	E & W Fork Crystal Cr.				1E-09	
Chromium VI	Stewarts Creek				1E-09	
Chromium VI	Lewis Creek Reservoir				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Caney Creek	3E-10	0E+00	0E+00	3E-05	3E-10
Manganese	E & W Fork Crystal Cr.	3E-10	0E+00	0E+00	3E-05	3E-10
Manganese	Stewarts Creek	3E-10	0E+00	0E+00	3E-05	3E-10
Manganese	Lewis Creek Reservoir	3E-10	0E+00	0E+00	3E-05	3E-10
Mercury (elemental)	Caney Creek				5E-05	
Mercury (elemental)	E & W Fork Crystal Cr.				5E-05	
Mercury (elemental)	Stewarts Creek				5E-05	
Mercury (elemental)	Lewis Creek Reservoir				5E-05	
Mercury (divalent)	Caney Creek	6E-07		0E+00		6E-07
Mercury (divalent)	E & W Fork Crystal Cr.	6E-07		0E+00		6E-07
Mercury (divalent)	Stewarts Creek	6E-07		0E+00		6E-07
Mercury (divalent)	Lewis Creek Reservoir	6E-07		0E+00		6E-07
Nickel	Caney Creek	6E-11	1E-10	0E+00		2E-10
Nickel	E & W Fork Crystal Cr.	6E-11	3E-10	0E+00		3E-10
Nickel	Stewarts Creek	6E-11	3E-10	0E+00		3E-10
Nickel	Lewis Creek Reservoir	6E-11	3E-10	0E+00		3E-10
Silver	Caney Creek	8E-12	0E+00	0E+00		8E-12
Silver	E & W Fork Crystal Cr.	8E-12	0E+00	0E+00		8E-12
Silver	Stewarts Creek	8E-12	0E+00	0E+00		8E-12
Silver	Lewis Creek Reservoir	8E-12	0E+00	0E+00		8E-12
Thallium	Caney Creek	5E-09	3E-07	0E+00		3E-07
Thallium	E & W Fork Crystal Cr.	5E-09	6E-07	0E+00		6E-07
Thallium	Stewarts Creek	5E-09	6E-07	0E+00		6E-07
Thallium	Lewis Creek Reservoir	5E-09	6E-07	0E+00		6E-07

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney Creek	6E-10	0E+00	0E+00		6E-10
Antimony	E & W Fork Crystal Cr.	6E-10	0E+00	0E+00		6E-10
Antimony	Stewarts Creek	6E-10	0E+00	0E+00		6E-10
Antimony	Lewis Creek Reservoir	6E-10	0E+00	0E+00		6E-10
Arsenic	Caney Creek	8E-08	6E-07	0E+00		7E-07
Arsenic	E & W Fork Crystal Cr.	8E-08	1E-06	0E+00		1E-06
Arsenic	Stewarts Creek	8E-08	1E-06	0E+00		1E-06
Arsenic	Lewis Creek Reservoir	8E-08	1E-06	0E+00		1E-06
Barium	Caney Creek	4E-09	0E+00	0E+00	2E-06	4E-09
Barium	E & W Fork Crystal Cr.	4E-09	0E+00	0E+00	2E-06	4E-09
Barium	Stewarts Creek	4E-09	0E+00	0E+00	2E-06	4E-09
Barium	Lewis Creek Reservoir	4E-09	0E+00	0E+00	2E-06	4E-09
Beryllium	Caney Creek	5E-07	4E-07	0E+00		9E-07
Beryllium	E & W Fork Crystal Cr.	5E-07	1E-06	0E+00		2E-06
Beryllium	Stewarts Creek	5E-07	1E-06	0E+00		2E-06
Beryllium	Lewis Creek Reservoir	5E-07	1E-06	0E+00		2E-06
Cadmium	Caney Creek	2E-07	2E-05	0E+00		2E-05
Cadmium	E & W Fork Crystal Cr.	2E-07	4E-05	0E+00		4E-05
Cadmium	Stewarts Creek	2E-07	3E-05	0E+00		3E-05
Cadmium	Lewis Creek Reservoir	2E-07	4E-05	0E+00		4E-05
Chromium VI	Caney Creek	1E-09	2E-09	0E+00		3E-09
Chromium VI	E & W Fork Crystal Cr.	1E-09	4E-09	0E+00		5E-09
Chromium VI	Stewarts Creek	1E-09	4E-09	0E+00		5E-09
Chromium VI	Lewis Creek Reservoir	1E-09	4E-09	0E+00		5E-09
Chromium III	Caney Creek	2E-09	3E-11	0E+00		2E-09
Chromium III	E & W Fork Crystal Cr.	2E-09	1E-10	0E+00		2E-09
Chromium III	Stewarts Creek	2E-09	9E-11	0E+00		2E-09
Chromium III	Lewis Creek Reservoir	2E-09	7E-11	0E+00		2E-09
Cobalt	Caney Creek	8E-11	0E+00	0E+00		8E-11
Cobalt	E & W Fork Crystal Cr.	8E-11	0E+00	0E+00		8E-11
Cobalt	Stewarts Creek	8E-11	0E+00	0E+00		8E-11
Cobalt	Lewis Creek Reservoir	8E-11	0E+00	0E+00		8E-11
Hydrogen Chloride	Caney Creek				7E-04	
Hydrogen Chloride	E & W Fork Crystal Cr.				7E-04	
Hydrogen Chloride	Stewarts Creek				7E-04	
Hydrogen Chloride	Lewis Creek Reservoir				7E-04	
Selenium	Caney Creek	2E-10	3E-06	0E+00		3E-06
Selenium	E & W Fork Crystal Cr.	2E-10	5E-06	0E+00		5E-06
Selenium	Stewarts Creek	2E-10	5E-06	0E+00		5E-06
Selenium	Lewis Creek Reservoir	2E-10	5E-06	0E+00		5E-06
Chlorine	Caney Creek				2E-04	
Chlorine	E & W Fork Crystal Cr.				2E-04	
Chlorine	Stewarts Creek				2E-04	
Chlorine	Lewis Creek Reservoir				2E-04	
Methylmercury - Developmental Effects	Caney Creek	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	E & W Fork Crystal Cr.	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	Stewarts Creek	4E-08	0E+00	0E+00		4E-08
Methylmercury - Developmental Effects	Lewis Creek Reservoir	4E-08	0E+00	0E+00		4E-08

Table IX-D24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number A62) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	E & W Fork Crystal Cr.	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Stewarts Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Lewis Creek Reservoir	1E-08	0E+00	0E+00		1E-08

Table IX-D25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	3E-11	2E-11	8E-11	2E-08	2E-07	2E-09	1E-08	6E-09	1E-08		1E-10	2E-07
Nickel												3E-10	
Arsenic	4E-10	1E-10	5E-11	3E-10	9E-10	2E-09	6E-11			3E-09		5E-09	6E-09
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	7E-08	3E-07	4E-08	2E-06	4E-09			0E+00		5E-04	3E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	3E-04	7E-07	6E-04	2E-04	4E-03	1E-07						5E-03
Nickel	9E-08	4E-08	2E-08	1E-07	1E-06	9E-06	6E-08			2E-07			1E-05
Silver	3E-11	3E-10	8E-11	8E-10	5E-09	2E-06	2E-10			0E+00			2E-06
Thallium	2E-06	2E-07	9E-09	4E-07	5E-05	1E-04	5E-06			1E-04			3E-04
Antimony	1E-05	4E-05	1E-05	1E-04	2E-04	9E-04	6E-06			0E+00			1E-03
Arsenic	9E-06	4E-06	1E-06	8E-06	2E-05	4E-05	2E-06			8E-05			2E-04
Barium	4E-07	4E-08	1E-08	8E-08	2E-08	2E-06	3E-09			0E+00		1E-05	3E-06
Beryllium	1E-05	2E-07	3E-08	4E-07	2E-06	7E-08	6E-07			2E-06			2E-05
Cadmium	6E-06	6E-06	3E-06	1E-05	5E-07	2E-06	1E-07			5E-04			5E-04
Chromium VI	4E-06	1E-06	4E-07	3E-06	4E-05	6E-04	2E-06			8E-06			7E-04
Chromium III	7E-07	8E-09	5E-09	2E-08	5E-07	7E-06	2E-07			1E-10			8E-06
Cobalt	3E-08	6E-09	3E-11	2E-08	5E-07	3E-06	5E-08			0E+00			4E-06
Hydrogen Chloride												9E-04	
Selenium	2E-08	2E-08	1E-08	5E-08	4E-07	3E-05	1E-06			4E-04			4E-04
Chlorine												9E-04	
Methylmercury - Developmental Effects	4E-07	1E-04	9E-08	9E-05	2E-04	3E-03	3E-08			3E-04			4E-03
Methylmercury - Neurological Effects	1E-07	3E-05	3E-08	3E-05	7E-05	1E-03	1E-08			1E-04			1E-03

Table IX-D25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	3E-11	2E-11	1E-10	3E-08	1E-07	1E-09	1E-08	7E-09	1E-08		2E-10	2E-07
Nickel												3E-10	
Arsenic	1E-10	1E-10	5E-11	4E-10	1E-09	1E-09	5E-11			3E-09		6E-09	6E-09
Beryllium												2E-09	
Cadmium												1E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	5E-08	2E-07	5E-08	1E-06	2E-09			0E+00		5E-04	2E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	2E-04	5E-07	5E-04	3E-04	2E-03	7E-08						3E-03
Nickel	2E-08	2E-08	1E-08	9E-08	1E-06	5E-06	3E-08			2E-07			6E-06
Silver	7E-12	2E-10	6E-11	8E-10	6E-09	1E-06	1E-10			0E+00			1E-06
Thallium	5E-07	8E-08	6E-09	4E-07	6E-05	7E-05	3E-06			9E-05			2E-04
Antimony	3E-06	2E-05	7E-06	1E-04	2E-04	5E-04	4E-06			0E+00			8E-04
Arsenic	2E-06	2E-06	1E-06	8E-06	3E-05	2E-05	1E-06			6E-05			1E-04
Barium	1E-07	2E-08	7E-09	8E-08	2E-08	1E-06	2E-09			0E+00		1E-05	1E-06
Beryllium	3E-06	9E-08	2E-08	4E-07	2E-06	4E-08	3E-07			1E-06			7E-06
Cadmium	2E-06	3E-06	2E-06	1E-05	6E-07	1E-06	6E-08			4E-04			4E-04
Chromium VI	9E-07	6E-07	3E-07	3E-06	4E-05	3E-04	1E-06			6E-06			4E-04
Chromium III	2E-07	5E-09	4E-09	2E-08	6E-07	3E-06	1E-07			1E-10			4E-06
Cobalt	8E-09	4E-09	2E-11	1E-08	6E-07	2E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												9E-04	
Selenium	5E-09	1E-08	1E-08	5E-08	5E-07	2E-05	8E-07			3E-04			3E-04
Chlorine												9E-04	
Methylmercury - Developmental Effects	9E-08	5E-05	6E-08	9E-05	2E-04	1E-03	2E-08			2E-04			2E-03
Methylmercury - Neurological Effects	3E-08	2E-05	2E-08	3E-05	8E-05	5E-04	7E-09			8E-05			7E-04

Table IX-D25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	2E-11	1E-11	5E-11	1E-08	6E-08	9E-10	6E-09	3E-09	6E-09		1E-10	9E-08
Nickel												2E-10	
Arsenic	7E-11	8E-11	4E-11	2E-10	7E-10	5E-10	3E-11			2E-09		4E-09	3E-09
Beryllium												1E-09	
Cadmium												9E-10	
Chromium VI												1E-07	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00		5E-04	8E-07
Mercury (elemental)												1E-04	
Mercury (divalent)	8E-07	1E-04	3E-07	3E-04	1E-04	8E-04	4E-08			0E+00			1E-03
Nickel	1E-08	2E-08	8E-09	5E-08	5E-07	2E-06	2E-08			9E-08			3E-06
Silver	3E-12	1E-10	4E-11	4E-10	3E-09	5E-07	7E-11			0E+00			5E-07
Thallium	3E-07	6E-08	4E-09	2E-07	3E-05	3E-05	2E-06			5E-05			1E-04
Antimony	1E-06	2E-05	5E-06	5E-05	8E-05	2E-04	2E-06			0E+00			4E-04
Arsenic	1E-06	2E-06	7E-07	4E-06	1E-05	9E-06	6E-07			3E-05			6E-05
Barium	6E-08	2E-08	5E-09	4E-08	1E-08	6E-07	1E-09			0E+00		1E-05	7E-07
Beryllium	2E-06	7E-08	2E-08	2E-07	1E-06	2E-08	2E-07			7E-07			4E-06
Cadmium	8E-07	2E-06	1E-06	5E-06	3E-07	4E-07	4E-08			2E-04			2E-04
Chromium VI	5E-07	4E-07	2E-07	1E-06	2E-05	1E-04	9E-07			3E-06			2E-04
Chromium III	1E-07	3E-09	3E-09	1E-08	3E-07	2E-06	7E-08			6E-11			2E-06
Cobalt	4E-09	3E-09	2E-11	8E-09	3E-07	7E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												9E-04	
Selenium	3E-09	8E-09	7E-09	3E-08	2E-07	8E-06	5E-07			1E-04			2E-04
Chlorine												9E-04	
Methylmercury - Developmental Effects	5E-08	4E-05	4E-08	5E-05	1E-04	7E-04	1E-08			1E-04			1E-03
Methylmercury - Neurological Effects	2E-08	1E-05	1E-08	2E-05	4E-05	2E-04	4E-09			4E-05			3E-04

Table IX-D25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-11	5E-11	3E-11	1E-10	3E-08	5E-08	1E-09	1E-08	6E-09	1E-08		1E-10	1E-07
Nickel												3E-10	
Arsenic	5E-11	2E-10	7E-11	4E-10	1E-09	4E-10	6E-11			4E-09		6E-09	6E-09
Beryllium												2E-09	
Cadmium												1E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	7E-09	7E-08	4E-08	1E-07	3E-08	2E-07	1E-09			0E+00		5E-04	5E-07
Mercury (elemental)												1E-04	
Mercury (divalent)	3E-07	2E-04	4E-07	3E-04	1E-04	4E-04	4E-08			0E+00			9E-04
Nickel	5E-09	2E-08	9E-09	5E-08	6E-07	9E-07	2E-08			1E-07			2E-06
Silver	1E-12	2E-10	5E-11	4E-10	3E-09	2E-07	6E-11			0E+00			2E-07
Thallium	1E-07	9E-08	5E-09	2E-07	3E-05	1E-05	2E-06			5E-05			1E-04
Antimony	6E-07	2E-05	6E-06	5E-05	1E-04	9E-05	2E-06			0E+00			3E-04
Arsenic	5E-07	2E-06	8E-07	4E-06	1E-05	4E-06	5E-07			3E-05			6E-05
Barium	2E-08	2E-08	6E-09	4E-08	1E-08	2E-07	1E-09			0E+00		1E-05	4E-07
Beryllium	7E-07	1E-07	2E-08	2E-07	1E-06	7E-09	2E-07			7E-07			3E-06
Cadmium	3E-07	3E-06	1E-06	5E-06	3E-07	2E-07	3E-08			2E-04			2E-04
Chromium VI	2E-07	6E-07	2E-07	1E-06	2E-05	6E-05	7E-07			4E-06			9E-05
Chromium III	4E-08	5E-09	3E-09	1E-08	3E-07	7E-07	6E-08			6E-11			1E-06
Cobalt	2E-09	4E-09	2E-11	7E-09	3E-07	3E-07	2E-08			0E+00			7E-07
Hydrogen Chloride												9E-04	
Selenium	1E-09	1E-08	8E-09	2E-08	2E-07	3E-06	5E-07			2E-04			2E-04
Chlorine												9E-04	
Methylmercury - Developmental Effects	2E-08	6E-05	5E-08	4E-05	1E-04	3E-04	1E-08			1E-04			7E-04
Methylmercury - Neurological Effects	7E-09	2E-05	2E-08	1E-05	4E-05	1E-04	4E-09			5E-05			2E-04

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cuyahoga River	5E-10	7E-09	0E+00	1E-10	8E-09
2,3,7,8-TCDD-TEQ	Upper and Lower Shaker Lake	5E-10	5E-08	0E+00	1E-10	5E-08
2,3,7,8-TCDD-TEQ	Euclid Creek	5E-10	1E-08	0E+00	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Fairmont Rerservoir	5E-10	6E-08	0E+00	1E-10	6E-08
Nickel	Cuyahoga River				3E-10	
Nickel	Upper and Lower Shaker Lake				3E-10	
Nickel	Euclid Creek				3E-10	
Nickel	Fairmont Rerservoir				3E-10	
Arsenic	Cuyahoga River	4E-10	1E-11	0E+00	5E-09	4E-10
Arsenic	Upper and Lower Shaker Lake	4E-10	3E-10	0E+00	5E-09	6E-10
Arsenic	Euclid Creek	4E-10	3E-11	0E+00	5E-09	4E-10
Arsenic	Fairmont Rerservoir	4E-10	2E-09	0E+00	5E-09	2E-09
Beryllium	Cuyahoga River				1E-09	
Beryllium	Upper and Lower Shaker Lake				1E-09	
Beryllium	Euclid Creek				1E-09	
Beryllium	Fairmont Rerservoir				1E-09	
Cadmium	Cuyahoga River				1E-09	
Cadmium	Upper and Lower Shaker Lake				1E-09	
Cadmium	Euclid Creek				1E-09	
Cadmium	Fairmont Rerservoir				1E-09	
Chromium VI	Cuyahoga River				2E-07	
Chromium VI	Upper and Lower Shaker Lake				2E-07	
Chromium VI	Euclid Creek				2E-07	
Chromium VI	Fairmont Rerservoir				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Cuyahoga River	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Upper and Lower Shaker Lake	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Euclid Creek	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Fairmont Rerservoir	1E-07	0E+00	0E+00	5E-04	1E-07
Mercury (elemental)	Cuyahoga River				1E-04	
Mercury (elemental)	Upper and Lower Shaker Lake				1E-04	
Mercury (elemental)	Euclid Creek				1E-04	
Mercury (elemental)	Fairmont Rerservoir				1E-04	
Mercury (divalent)	Cuyahoga River	6E-06		0E+00		6E-06
Mercury (divalent)	Upper and Lower Shaker Lake	6E-06		0E+00		6E-06
Mercury (divalent)	Euclid Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Fairmont Rerservoir	6E-06		0E+00		6E-06
Nickel	Cuyahoga River	9E-08	1E-09	0E+00		9E-08
Nickel	Upper and Lower Shaker Lake	9E-08	2E-08	0E+00		1E-07
Nickel	Euclid Creek	9E-08	2E-09	0E+00		9E-08
Nickel	Fairmont Rerservoir	9E-08	1E-07	0E+00		2E-07
Silver	Cuyahoga River	3E-11	0E+00	0E+00		3E-11
Silver	Upper and Lower Shaker Lake	3E-11	0E+00	0E+00		3E-11
Silver	Euclid Creek	3E-11	0E+00	0E+00		3E-11
Silver	Fairmont Rerservoir	3E-11	0E+00	0E+00		3E-11
Thallium	Cuyahoga River	2E-06	6E-07	0E+00		3E-06
Thallium	Upper and Lower Shaker Lake	2E-06	1E-05	0E+00		1E-05
Thallium	Euclid Creek	2E-06	1E-06	0E+00		3E-06
Thallium	Fairmont Rerservoir	2E-06	7E-05	0E+00		7E-05

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Cuyahoga River	1E-05	0E+00	0E+00		1E-05
Antimony	Upper and Lower Shaker Lake	1E-05	0E+00	0E+00		1E-05
Antimony	Euclid Creek	1E-05	0E+00	0E+00		1E-05
Antimony	Fairmont Rerservoir	1E-05	0E+00	0E+00		1E-05
Arsenic	Cuyahoga River	9E-06	3E-07	0E+00		9E-06
Arsenic	Upper and Lower Shaker Lake	9E-06	6E-06	0E+00		2E-05
Arsenic	Euclid Creek	9E-06	8E-07	0E+00		1E-05
Arsenic	Fairmont Rerservoir	9E-06	4E-05	0E+00		5E-05
Barium	Cuyahoga River	4E-07	0E+00	0E+00	1E-05	4E-07
Barium	Upper and Lower Shaker Lake	4E-07	0E+00	0E+00	1E-05	4E-07
Barium	Euclid Creek	4E-07	0E+00	0E+00	1E-05	4E-07
Barium	Fairmont Rerservoir	4E-07	0E+00	0E+00	1E-05	4E-07
Beryllium	Cuyahoga River	1E-05	9E-08	0E+00		1E-05
Beryllium	Upper and Lower Shaker Lake	1E-05	1E-06	0E+00		1E-05
Beryllium	Euclid Creek	1E-05	2E-07	0E+00		1E-05
Beryllium	Fairmont Rerservoir	1E-05	6E-06	0E+00		2E-05
Cadmium	Cuyahoga River	6E-06	3E-06	0E+00		9E-06
Cadmium	Upper and Lower Shaker Lake	6E-06	6E-05	0E+00		6E-05
Cadmium	Euclid Creek	6E-06	7E-06	0E+00		1E-05
Cadmium	Fairmont Rerservoir	6E-06	3E-04	0E+00		3E-04
Chromium VI	Cuyahoga River	4E-06	3E-08	0E+00		4E-06
Chromium VI	Upper and Lower Shaker Lake	4E-06	7E-07	0E+00		4E-06
Chromium VI	Euclid Creek	4E-06	8E-08	0E+00		4E-06
Chromium VI	Fairmont Rerservoir	4E-06	4E-06	0E+00		8E-06
Chromium III	Cuyahoga River	7E-07	2E-10	0E+00		7E-07
Chromium III	Upper and Lower Shaker Lake	7E-07	2E-10	0E+00		7E-07
Chromium III	Euclid Creek	7E-07	2E-10	0E+00		7E-07
Chromium III	Fairmont Rerservoir	7E-07	5E-10	0E+00		7E-07
Cobalt	Cuyahoga River	3E-08	0E+00	0E+00		3E-08
Cobalt	Upper and Lower Shaker Lake	3E-08	0E+00	0E+00		3E-08
Cobalt	Euclid Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Fairmont Rerservoir	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Cuyahoga River				9E-04	
Hydrogen Chloride	Upper and Lower Shaker Lake				9E-04	
Hydrogen Chloride	Euclid Creek				9E-04	
Hydrogen Chloride	Fairmont Rerservoir				9E-04	
Selenium	Cuyahoga River	2E-08	1E-06	0E+00		1E-06
Selenium	Upper and Lower Shaker Lake	2E-08	3E-05	0E+00		3E-05
Selenium	Euclid Creek	2E-08	3E-06	0E+00		3E-06
Selenium	Fairmont Rerservoir	2E-08	2E-04	0E+00		2E-04
Chlorine	Cuyahoga River				9E-04	
Chlorine	Upper and Lower Shaker Lake				9E-04	
Chlorine	Euclid Creek				9E-04	
Chlorine	Fairmont Rerservoir				9E-04	
Methylmercury - Developmental Effects	Cuyahoga River	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Upper and Lower Shaker Lake	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Euclid Creek	4E-07	0E+00	0E+00		4E-07
Methylmercury - Developmental Effects	Fairmont Rerservoir	4E-07	0E+00	0E+00		4E-07

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Cuyahoga River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Upper and Lower Shaker Lake	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Euclid Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Fairmont Rerservoir	1E-07	0E+00	0E+00		1E-07

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cuyahoga River	2E-10	1E-08	0E+00	2E-10	1E-08
2,3,7,8-TCDD-TEQ	Upper and Lower Shaker Lake	2E-10	6E-08	0E+00	2E-10	6E-08
2,3,7,8-TCDD-TEQ	Euclid Creek	2E-10	2E-08	0E+00	2E-10	2E-08
2,3,7,8-TCDD-TEQ	Fairmont Rerservoir	2E-10	9E-08	0E+00	2E-10	9E-08
Nickel	Cuyahoga River				3E-10	
Nickel	Upper and Lower Shaker Lake				3E-10	
Nickel	Euclid Creek				3E-10	
Nickel	Fairmont Rerservoir				3E-10	
Arsenic	Cuyahoga River	1E-10	2E-11	0E+00	6E-09	1E-10
Arsenic	Upper and Lower Shaker Lake	1E-10	4E-10	0E+00	6E-09	5E-10
Arsenic	Euclid Creek	1E-10	4E-11	0E+00	6E-09	2E-10
Arsenic	Fairmont Rerservoir	1E-10	2E-09	0E+00	6E-09	2E-09
Beryllium	Cuyahoga River				2E-09	
Beryllium	Upper and Lower Shaker Lake				2E-09	
Beryllium	Euclid Creek				2E-09	
Beryllium	Fairmont Rerservoir				2E-09	
Cadmium	Cuyahoga River				1E-09	
Cadmium	Upper and Lower Shaker Lake				1E-09	
Cadmium	Euclid Creek				1E-09	
Cadmium	Fairmont Rerservoir				1E-09	
Chromium VI	Cuyahoga River				2E-07	
Chromium VI	Upper and Lower Shaker Lake				2E-07	
Chromium VI	Euclid Creek				2E-07	
Chromium VI	Fairmont Rerservoir				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Cuyahoga River	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Upper and Lower Shaker Lake	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Euclid Creek	3E-08	0E+00	0E+00	5E-04	3E-08
Manganese	Fairmont Rerservoir	3E-08	0E+00	0E+00	5E-04	3E-08
Mercury (elemental)	Cuyahoga River				1E-04	
Mercury (elemental)	Upper and Lower Shaker Lake				1E-04	
Mercury (elemental)	Euclid Creek				1E-04	
Mercury (elemental)	Fairmont Rerservoir				1E-04	
Mercury (divalent)	Cuyahoga River	2E-06		0E+00		2E-06
Mercury (divalent)	Upper and Lower Shaker Lake	2E-06		0E+00		2E-06
Mercury (divalent)	Euclid Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Fairmont Rerservoir	2E-06		0E+00		2E-06
Nickel	Cuyahoga River	2E-08	1E-09	0E+00		2E-08
Nickel	Upper and Lower Shaker Lake	2E-08	2E-08	0E+00		4E-08
Nickel	Euclid Creek	2E-08	2E-09	0E+00		2E-08
Nickel	Fairmont Rerservoir	2E-08	1E-07	0E+00		1E-07
Silver	Cuyahoga River	7E-12	0E+00	0E+00		7E-12
Silver	Upper and Lower Shaker Lake	7E-12	0E+00	0E+00		7E-12
Silver	Euclid Creek	7E-12	0E+00	0E+00		7E-12
Silver	Fairmont Rerservoir	7E-12	0E+00	0E+00		7E-12
Thallium	Cuyahoga River	5E-07	6E-07	0E+00		1E-06
Thallium	Upper and Lower Shaker Lake	5E-07	1E-05	0E+00		1E-05
Thallium	Euclid Creek	5E-07	1E-06	0E+00		2E-06
Thallium	Fairmont Rerservoir	5E-07	7E-05	0E+00		7E-05

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Cuyahoga River	3E-06	0E+00	0E+00		3E-06
Antimony	Upper and Lower Shaker Lake	3E-06	0E+00	0E+00		3E-06
Antimony	Euclid Creek	3E-06	0E+00	0E+00		3E-06
Antimony	Fairmont Rerservoir	3E-06	0E+00	0E+00		3E-06
Arsenic	Cuyahoga River	2E-06	3E-07	0E+00		3E-06
Arsenic	Upper and Lower Shaker Lake	2E-06	6E-06	0E+00		9E-06
Arsenic	Euclid Creek	2E-06	8E-07	0E+00		3E-06
Arsenic	Fairmont Rerservoir	2E-06	4E-05	0E+00		4E-05
Barium	Cuyahoga River	1E-07	0E+00	0E+00	1E-05	1E-07
Barium	Upper and Lower Shaker Lake	1E-07	0E+00	0E+00	1E-05	1E-07
Barium	Euclid Creek	1E-07	0E+00	0E+00	1E-05	1E-07
Barium	Fairmont Rerservoir	1E-07	0E+00	0E+00	1E-05	1E-07
Beryllium	Cuyahoga River	3E-06	9E-08	0E+00		3E-06
Beryllium	Upper and Lower Shaker Lake	3E-06	1E-06	0E+00		4E-06
Beryllium	Euclid Creek	3E-06	2E-07	0E+00		3E-06
Beryllium	Fairmont Rerservoir	3E-06	6E-06	0E+00		9E-06
Cadmium	Cuyahoga River	2E-06	3E-06	0E+00		4E-06
Cadmium	Upper and Lower Shaker Lake	2E-06	6E-05	0E+00		6E-05
Cadmium	Euclid Creek	2E-06	7E-06	0E+00		8E-06
Cadmium	Fairmont Rerservoir	2E-06	3E-04	0E+00		3E-04
Chromium VI	Cuyahoga River	9E-07	3E-08	0E+00		1E-06
Chromium VI	Upper and Lower Shaker Lake	9E-07	7E-07	0E+00		2E-06
Chromium VI	Euclid Creek	9E-07	8E-08	0E+00		1E-06
Chromium VI	Fairmont Rerservoir	9E-07	4E-06	0E+00		5E-06
Chromium III	Cuyahoga River	2E-07	2E-10	0E+00		2E-07
Chromium III	Upper and Lower Shaker Lake	2E-07	2E-10	0E+00		2E-07
Chromium III	Euclid Creek	2E-07	2E-10	0E+00		2E-07
Chromium III	Fairmont Rerservoir	2E-07	5E-10	0E+00		2E-07
Cobalt	Cuyahoga River	8E-09	0E+00	0E+00		8E-09
Cobalt	Upper and Lower Shaker Lake	8E-09	0E+00	0E+00		8E-09
Cobalt	Euclid Creek	8E-09	0E+00	0E+00		8E-09
Cobalt	Fairmont Rerservoir	8E-09	0E+00	0E+00		8E-09
Hydrogen Chloride	Cuyahoga River				9E-04	
Hydrogen Chloride	Upper and Lower Shaker Lake				9E-04	
Hydrogen Chloride	Euclid Creek				9E-04	
Hydrogen Chloride	Fairmont Rerservoir				9E-04	
Selenium	Cuyahoga River	5E-09	1E-06	0E+00		1E-06
Selenium	Upper and Lower Shaker Lake	5E-09	3E-05	0E+00		3E-05
Selenium	Euclid Creek	5E-09	3E-06	0E+00		3E-06
Selenium	Fairmont Rerservoir	5E-09	2E-04	0E+00		2E-04
Chlorine	Cuyahoga River				9E-04	
Chlorine	Upper and Lower Shaker Lake				9E-04	
Chlorine	Euclid Creek				9E-04	
Chlorine	Fairmont Rerservoir				9E-04	
Methylmercury - Developmental Effects	Cuyahoga River	9E-08	0E+00	0E+00		9E-08
Methylmercury - Developmental Effects	Upper and Lower Shaker Lake	9E-08	0E+00	0E+00		9E-08
Methylmercury - Developmental Effects	Euclid Creek	9E-08	0E+00	0E+00		9E-08
Methylmercury - Developmental Effects	Fairmont Rerservoir	9E-08	0E+00	0E+00		9E-08

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Cuyahoga River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Upper and Lower Shaker Lake	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Euclid Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Fairmont Rerservoir	3E-08	0E+00	0E+00		3E-08

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cuyahoga River	1E-10	7E-09	0E+00	1E-10	7E-09
2,3,7,8-TCDD-TEQ	Upper and Lower Shaker Lake	1E-10	5E-08	0E+00	1E-10	5E-08
2,3,7,8-TCDD-TEQ	Euclid Creek	1E-10	1E-08	0E+00	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Fairmont Rerservoir	1E-10	6E-08	0E+00	1E-10	6E-08
Nickel	Cuyahoga River				2E-10	
Nickel	Upper and Lower Shaker Lake				2E-10	
Nickel	Euclid Creek				2E-10	
Nickel	Fairmont Rerservoir				2E-10	
Arsenic	Cuyahoga River	7E-11	1E-11	0E+00	4E-09	8E-11
Arsenic	Upper and Lower Shaker Lake	7E-11	3E-10	0E+00	4E-09	3E-10
Arsenic	Euclid Creek	7E-11	3E-11	0E+00	4E-09	1E-10
Arsenic	Fairmont Rerservoir	7E-11	2E-09	0E+00	4E-09	2E-09
Beryllium	Cuyahoga River				1E-09	
Beryllium	Upper and Lower Shaker Lake				1E-09	
Beryllium	Euclid Creek				1E-09	
Beryllium	Fairmont Rerservoir				1E-09	
Cadmium	Cuyahoga River				9E-10	
Cadmium	Upper and Lower Shaker Lake				9E-10	
Cadmium	Euclid Creek				9E-10	
Cadmium	Fairmont Rerservoir				9E-10	
Chromium VI	Cuyahoga River				1E-07	
Chromium VI	Upper and Lower Shaker Lake				1E-07	
Chromium VI	Euclid Creek				1E-07	
Chromium VI	Fairmont Rerservoir				1E-07	
	Noncarcinogenic Chemicals					
Manganese	Cuyahoga River	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Upper and Lower Shaker Lake	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Euclid Creek	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Fairmont Rerservoir	2E-08	0E+00	0E+00	5E-04	2E-08
Mercury (elemental)	Cuyahoga River				1E-04	
Mercury (elemental)	Upper and Lower Shaker Lake				1E-04	
Mercury (elemental)	Euclid Creek				1E-04	
Mercury (elemental)	Fairmont Rerservoir				1E-04	
Mercury (divalent)	Cuyahoga River	8E-07		0E+00		8E-07
Mercury (divalent)	Upper and Lower Shaker Lake	8E-07		0E+00		8E-07
Mercury (divalent)	Euclid Creek	8E-07		0E+00		8E-07
Mercury (divalent)	Fairmont Rerservoir	8E-07		0E+00		8E-07
Nickel	Cuyahoga River	1E-08	7E-10	0E+00		1E-08
Nickel	Upper and Lower Shaker Lake	1E-08	1E-08	0E+00		3E-08
Nickel	Euclid Creek	1E-08	2E-09	0E+00		1E-08
Nickel	Fairmont Rerservoir	1E-08	8E-08	0E+00		1E-07
Silver	Cuyahoga River	3E-12	0E+00	0E+00		3E-12
Silver	Upper and Lower Shaker Lake	3E-12	0E+00	0E+00		3E-12
Silver	Euclid Creek	3E-12	0E+00	0E+00		3E-12
Silver	Fairmont Rerservoir	3E-12	0E+00	0E+00		3E-12
Thallium	Cuyahoga River	3E-07	4E-07	0E+00		7E-07
Thallium	Upper and Lower Shaker Lake	3E-07	8E-06	0E+00		9E-06
Thallium	Euclid Creek	3E-07	1E-06	0E+00		1E-06
Thallium	Fairmont Rerservoir	3E-07	5E-05	0E+00		5E-05

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Cuyahoga River	1E-06	0E+00	0E+00		1E-06
Antimony	Upper and Lower Shaker Lake	1E-06	0E+00	0E+00		1E-06
Antimony	Euclid Creek	1E-06	0E+00	0E+00		1E-06
Antimony	Fairmont Rerservoir	1E-06	0E+00	0E+00		1E-06
Arsenic	Cuyahoga River	1E-06	2E-07	0E+00		1E-06
Arsenic	Upper and Lower Shaker Lake	1E-06	5E-06	0E+00		6E-06
Arsenic	Euclid Creek	1E-06	6E-07	0E+00		2E-06
Arsenic	Fairmont Rerservoir	1E-06	3E-05	0E+00		3E-05
Barium	Cuyahoga River	6E-08	0E+00	0E+00	1E-05	6E-08
Barium	Upper and Lower Shaker Lake	6E-08	0E+00	0E+00	1E-05	6E-08
Barium	Euclid Creek	6E-08	0E+00	0E+00	1E-05	6E-08
Barium	Fairmont Rerservoir	6E-08	0E+00	0E+00	1E-05	6E-08
Beryllium	Cuyahoga River	2E-06	7E-08	0E+00		2E-06
Beryllium	Upper and Lower Shaker Lake	2E-06	9E-07	0E+00		3E-06
Beryllium	Euclid Creek	2E-06	2E-07	0E+00		2E-06
Beryllium	Fairmont Rerservoir	2E-06	4E-06	0E+00		6E-06
Cadmium	Cuyahoga River	8E-07	2E-06	0E+00		3E-06
Cadmium	Upper and Lower Shaker Lake	8E-07	4E-05	0E+00		4E-05
Cadmium	Euclid Creek	8E-07	5E-06	0E+00		6E-06
Cadmium	Fairmont Rerservoir	8E-07	2E-04	0E+00		2E-04
Chromium VI	Cuyahoga River	5E-07	2E-08	0E+00		5E-07
Chromium VI	Upper and Lower Shaker Lake	5E-07	5E-07	0E+00		1E-06
Chromium VI	Euclid Creek	5E-07	6E-08	0E+00		6E-07
Chromium VI	Fairmont Rerservoir	5E-07	3E-06	0E+00		3E-06
Chromium III	Cuyahoga River	1E-07	1E-10	0E+00		1E-07
Chromium III	Upper and Lower Shaker Lake	1E-07	1E-10	0E+00		1E-07
Chromium III	Euclid Creek	1E-07	2E-10	0E+00		1E-07
Chromium III	Fairmont Rerservoir	1E-07	4E-10	0E+00		1E-07
Cobalt	Cuyahoga River	4E-09	0E+00	0E+00		4E-09
Cobalt	Upper and Lower Shaker Lake	4E-09	0E+00	0E+00		4E-09
Cobalt	Euclid Creek	4E-09	0E+00	0E+00		4E-09
Cobalt	Fairmont Rerservoir	4E-09	0E+00	0E+00		4E-09
Hydrogen Chloride	Cuyahoga River				9E-04	
Hydrogen Chloride	Upper and Lower Shaker Lake				9E-04	
Hydrogen Chloride	Euclid Creek				9E-04	
Hydrogen Chloride	Fairmont Rerservoir				9E-04	
Selenium	Cuyahoga River	3E-09	1E-06	0E+00		1E-06
Selenium	Upper and Lower Shaker Lake	3E-09	2E-05	0E+00		2E-05
Selenium	Euclid Creek	3E-09	2E-06	0E+00		2E-06
Selenium	Fairmont Rerservoir	3E-09	1E-04	0E+00		1E-04
Chlorine	Cuyahoga River				9E-04	
Chlorine	Upper and Lower Shaker Lake				9E-04	
Chlorine	Euclid Creek				9E-04	
Chlorine	Fairmont Rerservoir				9E-04	
Methylmercury - Developmental Effects	Cuyahoga River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Developmental Effects	Upper and Lower Shaker Lake	5E-08	0E+00	0E+00		5E-08
Methylmercury - Developmental Effects	Euclid Creek	5E-08	0E+00	0E+00		5E-08
Methylmercury - Developmental Effects	Fairmont Rerservoir	5E-08	0E+00	0E+00		5E-08

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Cuyahoga River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Upper and Lower Shaker Lake	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Euclid Creek	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Fairmont Rerservoir	2E-08	0E+00	0E+00		2E-08

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cuyahoga River	7E-11	1E-08	0E+00	1E-10	1E-08
2,3,7,8-TCDD-TEQ	Upper and Lower Shaker Lake	7E-11	9E-08	0E+00	1E-10	9E-08
2,3,7,8-TCDD-TEQ	Euclid Creek	7E-11	3E-08	0E+00	1E-10	3E-08
2,3,7,8-TCDD-TEQ	Fairmont Rerservoir	7E-11	1E-07	0E+00	1E-10	1E-07
Nickel	Cuyahoga River				3E-10	
Nickel	Upper and Lower Shaker Lake				3E-10	
Nickel	Euclid Creek				3E-10	
Nickel	Fairmont Rerservoir				3E-10	
Arsenic	Cuyahoga River	5E-11	3E-11	0E+00	6E-09	8E-11
Arsenic	Upper and Lower Shaker Lake	5E-11	5E-10	0E+00	6E-09	5E-10
Arsenic	Euclid Creek	5E-11	6E-11	0E+00	6E-09	1E-10
Arsenic	Fairmont Rerservoir	5E-11	3E-09	0E+00	6E-09	3E-09
Beryllium	Cuyahoga River				2E-09	
Beryllium	Upper and Lower Shaker Lake				2E-09	
Beryllium	Euclid Creek				2E-09	
Beryllium	Fairmont Rerservoir				2E-09	
Cadmium	Cuyahoga River				1E-09	
Cadmium	Upper and Lower Shaker Lake				1E-09	
Cadmium	Euclid Creek				1E-09	
Cadmium	Fairmont Rerservoir				1E-09	
Chromium VI	Cuyahoga River				2E-07	
Chromium VI	Upper and Lower Shaker Lake				2E-07	
Chromium VI	Euclid Creek				2E-07	
Chromium VI	Fairmont Rerservoir				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Cuyahoga River	7E-09	0E+00	0E+00	5E-04	7E-09
Manganese	Upper and Lower Shaker Lake	7E-09	0E+00	0E+00	5E-04	7E-09
Manganese	Euclid Creek	7E-09	0E+00	0E+00	5E-04	7E-09
Manganese	Fairmont Rerservoir	7E-09	0E+00	0E+00	5E-04	7E-09
Mercury (elemental)	Cuyahoga River				1E-04	
Mercury (elemental)	Upper and Lower Shaker Lake				1E-04	
Mercury (elemental)	Euclid Creek				1E-04	
Mercury (elemental)	Fairmont Rerservoir				1E-04	
Mercury (divalent)	Cuyahoga River	3E-07		0E+00		3E-07
Mercury (divalent)	Upper and Lower Shaker Lake	3E-07		0E+00		3E-07
Mercury (divalent)	Euclid Creek	3E-07		0E+00		3E-07
Mercury (divalent)	Fairmont Rerservoir	3E-07		0E+00		3E-07
Nickel	Cuyahoga River	5E-09	7E-10	0E+00		5E-09
Nickel	Upper and Lower Shaker Lake	5E-09	1E-08	0E+00		2E-08
Nickel	Euclid Creek	5E-09	2E-09	0E+00		6E-09
Nickel	Fairmont Rerservoir	5E-09	8E-08	0E+00		9E-08
Silver	Cuyahoga River	1E-12	0E+00	0E+00		1E-12
Silver	Upper and Lower Shaker Lake	1E-12	0E+00	0E+00		1E-12
Silver	Euclid Creek	1E-12	0E+00	0E+00		1E-12
Silver	Fairmont Rerservoir	1E-12	0E+00	0E+00		1E-12
Thallium	Cuyahoga River	1E-07	4E-07	0E+00		5E-07
Thallium	Upper and Lower Shaker Lake	1E-07	8E-06	0E+00		9E-06
Thallium	Euclid Creek	1E-07	1E-06	0E+00		1E-06
Thallium	Fairmont Rerservoir	1E-07	5E-05	0E+00		5E-05

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Cuyahoga River	6E-07	0E+00	0E+00		6E-07
Antimony	Upper and Lower Shaker Lake	6E-07	0E+00	0E+00		6E-07
Antimony	Euclid Creek	6E-07	0E+00	0E+00		6E-07
Antimony	Fairmont Rerservoir	6E-07	0E+00	0E+00		6E-07
Arsenic	Cuyahoga River	5E-07	2E-07	0E+00		7E-07
Arsenic	Upper and Lower Shaker Lake	5E-07	5E-06	0E+00		5E-06
Arsenic	Euclid Creek	5E-07	6E-07	0E+00		1E-06
Arsenic	Fairmont Rerservoir	5E-07	3E-05	0E+00		3E-05
Barium	Cuyahoga River	2E-08	0E+00	0E+00	1E-05	2E-08
Barium	Upper and Lower Shaker Lake	2E-08	0E+00	0E+00	1E-05	2E-08
Barium	Euclid Creek	2E-08	0E+00	0E+00	1E-05	2E-08
Barium	Fairmont Rerservoir	2E-08	0E+00	0E+00	1E-05	2E-08
Beryllium	Cuyahoga River	7E-07	7E-08	0E+00		7E-07
Beryllium	Upper and Lower Shaker Lake	7E-07	9E-07	0E+00		2E-06
Beryllium	Euclid Creek	7E-07	2E-07	0E+00		8E-07
Beryllium	Fairmont Rerservoir	7E-07	4E-06	0E+00		5E-06
Cadmium	Cuyahoga River	3E-07	2E-06	0E+00		2E-06
Cadmium	Upper and Lower Shaker Lake	3E-07	4E-05	0E+00		4E-05
Cadmium	Euclid Creek	3E-07	5E-06	0E+00		5E-06
Cadmium	Fairmont Rerservoir	3E-07	2E-04	0E+00		2E-04
Chromium VI	Cuyahoga River	2E-07	2E-08	0E+00		2E-07
Chromium VI	Upper and Lower Shaker Lake	2E-07	5E-07	0E+00		7E-07
Chromium VI	Euclid Creek	2E-07	6E-08	0E+00		3E-07
Chromium VI	Fairmont Rerservoir	2E-07	3E-06	0E+00		3E-06
Chromium III	Cuyahoga River	4E-08	1E-10	0E+00		4E-08
Chromium III	Upper and Lower Shaker Lake	4E-08	1E-10	0E+00		4E-08
Chromium III	Euclid Creek	4E-08	2E-10	0E+00		4E-08
Chromium III	Fairmont Rerservoir	4E-08	4E-10	0E+00		4E-08
Cobalt	Cuyahoga River	2E-09	0E+00	0E+00		2E-09
Cobalt	Upper and Lower Shaker Lake	2E-09	0E+00	0E+00		2E-09
Cobalt	Euclid Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Fairmont Rerservoir	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Cuyahoga River				9E-04	
Hydrogen Chloride	Upper and Lower Shaker Lake				9E-04	
Hydrogen Chloride	Euclid Creek				9E-04	
Hydrogen Chloride	Fairmont Rerservoir				9E-04	
Selenium	Cuyahoga River	1E-09	1E-06	0E+00		1E-06
Selenium	Upper and Lower Shaker Lake	1E-09	2E-05	0E+00		2E-05
Selenium	Euclid Creek	1E-09	2E-06	0E+00		2E-06
Selenium	Fairmont Rerservoir	1E-09	1E-04	0E+00		1E-04
Chlorine	Cuyahoga River				9E-04	
Chlorine	Upper and Lower Shaker Lake				9E-04	
Chlorine	Euclid Creek				9E-04	
Chlorine	Fairmont Rerservoir				9E-04	
Methylmercury - Developmental Effects	Cuyahoga River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Upper and Lower Shaker Lake	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Euclid Creek	2E-08	0E+00	0E+00		2E-08
Methylmercury - Developmental Effects	Fairmont Rerservoir	2E-08	0E+00	0E+00		2E-08

Table IX-D26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Number B20) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Cuyahoga River	7E-09	0E+00	0E+00		7E-09
Methylmercury - Neurological Effects	Upper and Lower Shaker Lake	7E-09	0E+00	0E+00		7E-09
Methylmercury - Neurological Effects	Euclid Creek	7E-09	0E+00	0E+00		7E-09
Methylmercury - Neurological Effects	Fairmont Rerservoir	7E-09	0E+00	0E+00		7E-09

Table IX-D27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	3E-11	2E-11	7E-11	2E-08	2E-07	2E-09	1E-08	6E-09	8E-09	2E-14	1E-10	2E-07
Nickel												2E-09	
Arsenic	3E-09	1E-09	4E-10	2E-09	6E-09	1E-08	5E-10			2E-08	4E-11	3E-08	4E-08
Beryllium												2E-10	
Cadmium												3E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-07	2E-07	9E-08	3E-07	6E-08	3E-06	5E-09			0E+00	9E-10	5E-04	4E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	7E-04	9E-06	1E-03	6E-04	9E-03	4E-07				1E-08		1E-02
Nickel	7E-07	3E-07	1E-07	7E-07	7E-06	7E-05	4E-07			2E-06	1E-08		8E-05
Silver	2E-09	2E-08	6E-09	6E-08	3E-07	1E-04	1E-08			0E+00	1E-09		1E-04
Thallium	8E-06	5E-07	3E-08	2E-06	2E-04	5E-04	2E-05			4E-04	4E-08		1E-03
Antimony	9E-06	3E-05	9E-06	8E-05	1E-04	7E-04	5E-06			0E+00	1E-06		1E-03
Arsenic	7E-05	3E-05	1E-05	6E-05	2E-04	3E-04	1E-05			5E-04	9E-07		1E-03
Barium	1E-05	1E-06	3E-07	2E-06	5E-07	7E-05	8E-08			0E+00	2E-09	2E-04	8E-05
Beryllium	2E-06	2E-08	5E-09	6E-08	3E-07	1E-08	8E-08			2E-07	4E-10		2E-06
Cadmium	2E-04	2E-04	7E-05	3E-04	2E-05	5E-05	3E-06			1E-02	1E-06		1E-02
Chromium VI	6E-07	2E-07	7E-08	5E-07	6E-06	1E-04	4E-07			1E-06	1E-08		1E-04
Chromium III	4E-07	4E-09	3E-09	1E-08	3E-07	4E-06	1E-07			5E-11	5E-13		5E-06
Cobalt	4E-08	8E-09	5E-11	2E-08	7E-07	4E-06	6E-08			0E+00	4E-10		5E-06
Hydrogen Chloride												8E-04	
Selenium	1E-08	1E-08	1E-08	3E-08	3E-07	2E-05	9E-07			2E-04	1E-09		3E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	5E-06	2E-04	1E-06	2E-04	5E-04	7E-03	9E-08			5E-03	5E-10		1E-02
Methylmercury - Neurological Effects	2E-06	7E-05	4E-07	7E-05	2E-04	2E-03	3E-08			2E-03	2E-10		4E-03

Table IX-D27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	2E-11	2E-11	9E-11	2E-08	1E-07	1E-09	1E-08	7E-09	8E-09	1E-14	1E-10	2E-07
Nickel												2E-09	
Arsenic	1E-09	7E-10	4E-10	3E-09	1E-08	7E-09	4E-10			2E-08	3E-11	4E-08	4E-08
Beryllium												2E-10	
Cadmium												4E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	7E-08	3E-07	7E-08	2E-06	3E-09			0E+00	5E-10	5E-04	2E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	NA	4E-04	6E-06	1E-03	7E-04	5E-03	2E-07				7E-09		7E-03
Nickel	2E-07	2E-07	9E-08	7E-07	8E-06	3E-05	3E-07			1E-06	6E-09		5E-05
Silver	5E-10	1E-08	4E-09	5E-08	4E-07	7E-05	8E-09			0E+00	7E-10		7E-05
Thallium	2E-06	3E-07	2E-08	1E-06	2E-04	2E-04	1E-05			3E-04	2E-08		7E-04
Antimony	2E-06	2E-05	6E-06	8E-05	1E-04	4E-04	3E-06			0E+00	7E-07		6E-04
Arsenic	2E-05	1E-05	8E-06	6E-05	2E-04	1E-04	7E-06			4E-04	5E-07		8E-04
Barium	3E-06	6E-07	2E-07	2E-06	6E-07	3E-05	5E-08			0E+00	1E-09	2E-04	4E-05
Beryllium	5E-07	1E-08	3E-09	6E-08	3E-07	5E-09	5E-08			1E-07	2E-10		1E-06
Cadmium	4E-05	9E-05	5E-05	3E-04	2E-05	3E-05	2E-06			9E-03	5E-07		9E-03
Chromium VI	2E-07	1E-07	5E-08	5E-07	7E-06	5E-05	2E-07			1E-06	8E-09		6E-05
Chromium III	1E-07	2E-09	2E-09	1E-08	4E-07	2E-06	6E-08			4E-11	3E-13		2E-06
Cobalt	1E-08	5E-09	3E-11	2E-08	8E-07	2E-06	4E-08			0E+00	2E-10		3E-06
Hydrogen Chloride												8E-04	
Selenium	4E-09	7E-09	7E-09	3E-08	3E-07	1E-05	5E-07			2E-04	6E-10		2E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	1E-06	1E-04	8E-07	2E-04	5E-04	3E-03	5E-08			4E-03	3E-10		8E-03
Methylmercury - Neurological Effects	4E-07	4E-05	3E-07	7E-05	2E-04	1E-03	2E-08			1E-03	1E-10		3E-03

Table IX-D27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	2E-11	2E-11	5E-11	1E-08	5E-08	9E-10	7E-09	4E-09	4E-09	9E-15	9E-11	8E-08
Nickel												1E-09	
Arsenic	5E-10	6E-10	3E-10	2E-09	5E-09	3E-09	3E-10			1E-08	2E-11	2E-08	2E-08
Beryllium												1E-10	
Cadmium												2E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	8E-08	5E-08	2E-07	3E-08	7E-07	2E-09			0E+00	3E-10	5E-04	1E-06
Mercury (elemental)												3E-04	
Mercury (divalent)	1E-05	3E-04	4E-06	7E-04	3E-04	2E-03	2E-07			0E+00	4E-09		3E-03
Nickel	9E-08	1E-07	6E-08	4E-07	4E-06	2E-05	2E-07			6E-07	4E-09		2E-05
Silver	3E-10	9E-09	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00	5E-10		3E-05
Thallium	1E-06	2E-07	2E-08	8E-07	9E-05	1E-04	7E-06			2E-04	2E-08		4E-04
Antimony	1E-06	1E-05	4E-06	4E-05	7E-05	2E-04	2E-06			0E+00	5E-07		3E-04
Arsenic	9E-06	1E-05	6E-06	3E-05	8E-05	6E-05	4E-06			2E-04	3E-07		4E-04
Barium	2E-06	5E-07	1E-07	1E-06	3E-07	2E-05	3E-08			0E+00	7E-10	2E-04	2E-05
Beryllium	2E-07	1E-08	2E-09	3E-08	1E-07	2E-09	3E-08			6E-08	2E-10		5E-07
Cadmium	2E-05	7E-05	4E-05	2E-04	8E-06	1E-05	1E-06			5E-03	4E-07		5E-03
Chromium VI	9E-08	7E-08	4E-08	2E-07	3E-06	2E-05	1E-07			5E-07	5E-09		3E-05
Chromium III	6E-08	2E-09	1E-09	6E-09	2E-07	9E-07	4E-08			2E-11	2E-13		1E-06
Cobalt	6E-09	4E-09	2E-11	1E-08	4E-07	9E-07	2E-08			0E+00	1E-10		1E-06
Hydrogen Chloride												8E-04	
Selenium	2E-09	5E-09	5E-09	2E-08	1E-07	5E-06	4E-07			1E-04	4E-10		1E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	6E-07	1E-04	6E-07	1E-04	2E-04	2E-03	3E-08			2E-03	2E-10		4E-03
Methylmercury - Neurological Effects	2E-07	3E-05	2E-07	4E-05	8E-05	5E-04	1E-08			6E-04	6E-11		1E-03

Table IX-D27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-11	5E-11	3E-11	9E-11	2E-08	4E-08	1E-09	1E-08	6E-09	9E-09	2E-14	1E-10	1E-07
Nickel												2E-09	
Arsenic	4E-10	1E-09	5E-10	3E-09	1E-08	3E-09	4E-10			2E-08	4E-11	4E-08	4E-08
Beryllium												2E-10	
Cadmium												3E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	9E-09	1E-07	5E-08	2E-07	4E-08	3E-07	2E-09			0E+00	4E-10	5E-04	7E-07
Mercury (elemental)												3E-04	
Mercury (divalent)	4E-06	4E-04	5E-06	6E-04	4E-04	9E-04	1E-07			0E+00	5E-09		2E-03
Nickel	4E-08	2E-07	7E-08	3E-07	4E-06	7E-06	1E-07			7E-07	5E-09		1E-05
Silver	1E-10	1E-08	3E-09	3E-08	2E-07	1E-05	4E-09			0E+00	6E-10		1E-05
Thallium	4E-07	3E-07	2E-08	7E-07	1E-04	5E-05	6E-06			2E-04	2E-08		3E-04
Antimony	5E-07	2E-05	5E-06	4E-05	8E-05	7E-05	2E-06			0E+00	6E-07		2E-04
Arsenic	4E-06	1E-05	6E-06	3E-05	9E-05	3E-05	4E-06			2E-04	4E-07		4E-04
Barium	6E-07	6E-07	2E-07	1E-06	3E-07	7E-06	3E-08			0E+00	8E-10	2E-04	9E-06
Beryllium	1E-07	1E-08	3E-09	3E-08	2E-07	1E-09	3E-08			7E-08	2E-10		4E-07
Cadmium	9E-06	9E-05	4E-05	1E-04	9E-06	5E-06	9E-07			5E-03	4E-07		5E-03
Chromium VI	4E-08	1E-07	4E-08	2E-07	4E-06	1E-05	1E-07			6E-07	6E-09		2E-05
Chromium III	2E-08	3E-09	2E-09	6E-09	2E-07	4E-07	4E-08			2E-11	2E-13		6E-07
Cobalt	2E-09	5E-09	3E-11	1E-08	4E-07	4E-07	2E-08			0E+00	2E-10		9E-07
Hydrogen Chloride												8E-04	
Selenium	8E-10	7E-09	6E-09	2E-08	2E-07	2E-06	3E-07			1E-04	4E-10		1E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	3E-07	1E-04	7E-07	1E-04	3E-04	7E-04	3E-08			2E-03	2E-10		3E-03
Methylmercury - Neurological Effects	9E-08	4E-05	2E-07	3E-05	9E-05	2E-04	1E-08			7E-04	8E-11		1E-03

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	6E-10	4E-11	2E-14	1E-10	6E-10
2,3,7,8-TCDD-TEQ	Fabius River	6E-10	1E-09	2E-14	1E-10	2E-09
2,3,7,8-TCDD-TEQ	Spring Lake	6E-10	4E-09	2E-14	1E-10	5E-09
Nickel	Mississippi River				2E-09	
Nickel	Fabius River				2E-09	
Nickel	Spring Lake				2E-09	
Arsenic	Mississippi River	3E-09	4E-12	4E-11	3E-08	3E-09
Arsenic	Fabius River	3E-09	9E-11	4E-11	3E-08	3E-09
Arsenic	Spring Lake	3E-09	2E-09	4E-11	3E-08	5E-09
Beryllium	Mississippi River				2E-10	
Beryllium	Fabius River				2E-10	
Beryllium	Spring Lake				2E-10	
Cadmium	Mississippi River				3E-08	
Cadmium	Fabius River				3E-08	
Cadmium	Spring Lake				3E-08	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Fabius River				2E-08	
Chromium VI	Spring Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-07	0E+00	9E-10	5E-04	2E-07
Manganese	Fabius River	2E-07	0E+00	9E-10	5E-04	2E-07
Manganese	Spring Lake	2E-07	0E+00	9E-10	5E-04	2E-07
Mercury (elemental)	Mississippi River				3E-04	
Mercury (elemental)	Fabius River				3E-04	
Mercury (elemental)	Spring Lake				3E-04	
Mercury (divalent)	Mississippi River	8E-05		1E-08		8E-05
Mercury (divalent)	Fabius River	8E-05		1E-08		8E-05
Mercury (divalent)	Spring Lake	8E-05		1E-08		8E-05
Nickel	Mississippi River	7E-07	3E-10	1E-08		7E-07
Nickel	Fabius River	7E-07	6E-09	1E-08		7E-07
Nickel	Spring Lake	7E-07	1E-07	1E-08		8E-07
Silver	Mississippi River	2E-09	0E+00	1E-09		3E-09
Silver	Fabius River	2E-09	0E+00	1E-09		3E-09
Silver	Spring Lake	2E-09	0E+00	1E-09		3E-09
Thallium	Mississippi River	8E-06	8E-08	4E-08		8E-06
Thallium	Fabius River	8E-06	2E-06	4E-08		1E-05
Thallium	Spring Lake	8E-06	4E-05	4E-08		5E-05
Antimony	Mississippi River	9E-06	0E+00	1E-06		1E-05
Antimony	Fabius River	9E-06	0E+00	1E-06		1E-05
Antimony	Spring Lake	9E-06	0E+00	1E-06		1E-05
Arsenic	Mississippi River	7E-05	9E-08	9E-07		7E-05
Arsenic	Fabius River	7E-05	2E-06	9E-07		7E-05
Arsenic	Spring Lake	7E-05	4E-05	9E-07		1E-04
Barium	Mississippi River	1E-05	0E+00	2E-09	2E-04	1E-05
Barium	Fabius River	1E-05	0E+00	2E-09	2E-04	1E-05
Barium	Spring Lake	1E-05	0E+00	2E-09	2E-04	1E-05
Beryllium	Mississippi River	2E-06	3E-10	4E-10		2E-06
Beryllium	Fabius River	2E-06	1E-08	4E-10		2E-06
Beryllium	Spring Lake	2E-06	7E-08	4E-10		2E-06

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	2E-04	3E-06	1E-06		2E-04
Cadmium	Fabius River	2E-04	6E-05	1E-06		2E-04
Cadmium	Spring Lake	2E-04	1E-03	1E-06		1E-03
Chromium VI	Mississippi River	6E-07	2E-10	1E-08		7E-07
Chromium VI	Fabius River	6E-07	6E-09	1E-08		7E-07
Chromium VI	Spring Lake	6E-07	1E-07	1E-08		8E-07
Chromium III	Mississippi River	4E-07	2E-12	5E-13		4E-07
Chromium III	Fabius River	4E-07	9E-11	5E-13		4E-07
Chromium III	Spring Lake	4E-07	1E-10	5E-13		4E-07
Cobalt	Mississippi River	4E-08	0E+00	5E-13		4E-08
Cobalt	Fabius River	4E-08	0E+00	5E-13		4E-08
Cobalt	Spring Lake	4E-08	0E+00	5E-13		4E-08
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Fabius River				8E-04	
Hydrogen Chloride	Spring Lake				8E-04	
Selenium	Mississippi River	1E-08	4E-08	1E-09		5E-08
Selenium	Fabius River	1E-08	9E-07	1E-09		9E-07
Selenium	Spring Lake	1E-08	2E-05	1E-09		2E-05
Chlorine	Mississippi River				4E-03	
Chlorine	Fabius River				4E-03	
Chlorine	Spring Lake				4E-03	
Methylmercury - Developmental Effects	Mississippi River	5E-06	8E-05	5E-10		8E-05
Methylmercury - Developmental Effects	Fabius River	5E-06	1E-03	5E-10		1E-03
Methylmercury - Developmental Effects	Spring Lake	5E-06	2E-03	5E-10		2E-03
Methylmercury - Neurological Effects	Mississippi River	2E-06	3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	Fabius River	2E-06	3E-04	2E-10		3E-04
Methylmercury - Neurological Effects	Spring Lake	2E-06	6E-04	2E-10		6E-04

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-10	6E-11	1E-14	1E-10	3E-10
2,3,7,8-TCDD-TEQ	Fabius River	2E-10	2E-09	1E-14	1E-10	2E-09
2,3,7,8-TCDD-TEQ	Spring Lake	2E-10	6E-09	1E-14	1E-10	6E-09
Nickel	Mississippi River				2E-09	
Nickel	Fabius River				2E-09	
Nickel	Spring Lake				2E-09	
Arsenic	Mississippi River	1E-09	5E-12	3E-11	4E-08	1E-09
Arsenic	Fabius River	1E-09	1E-10	3E-11	4E-08	1E-09
Arsenic	Spring Lake	1E-09	2E-09	3E-11	4E-08	3E-09
Beryllium	Mississippi River				2E-10	
Beryllium	Fabius River				2E-10	
Beryllium	Spring Lake				2E-10	
Cadmium	Mississippi River				4E-08	
Cadmium	Fabius River				4E-08	
Cadmium	Spring Lake				4E-08	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Fabius River				2E-08	
Chromium VI	Spring Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	4E-08	0E+00	5E-10	5E-04	4E-08
Manganese	Fabius River	4E-08	0E+00	5E-10	5E-04	4E-08
Manganese	Spring Lake	4E-08	0E+00	5E-10	5E-04	4E-08
Mercury (elemental)	Mississippi River				3E-04	
Mercury (elemental)	Fabius River				3E-04	
Mercury (elemental)	Spring Lake				3E-04	
Mercury (divalent)	Mississippi River	2E-05		7E-09		2E-05
Mercury (divalent)	Fabius River	2E-05		7E-09		2E-05
Mercury (divalent)	Spring Lake	2E-05		7E-09		2E-05
Nickel	Mississippi River	2E-07	3E-10	6E-09		2E-07
Nickel	Fabius River	2E-07	6E-09	6E-09		2E-07
Nickel	Spring Lake	2E-07	1E-07	6E-09		3E-07
Silver	Mississippi River	5E-10	0E+00	7E-10		1E-09
Silver	Fabius River	5E-10	0E+00	7E-10		1E-09
Silver	Spring Lake	5E-10	0E+00	7E-10		1E-09
Thallium	Mississippi River	2E-06	8E-08	2E-08		2E-06
Thallium	Fabius River	2E-06	2E-06	2E-08		4E-06
Thallium	Spring Lake	2E-06	4E-05	2E-08		4E-05
Antimony	Mississippi River	2E-06	0E+00	7E-07		3E-06
Antimony	Fabius River	2E-06	0E+00	7E-07		3E-06
Antimony	Spring Lake	2E-06	0E+00	7E-07		3E-06
Arsenic	Mississippi River	2E-05	9E-08	5E-07		2E-05
Arsenic	Fabius River	2E-05	2E-06	5E-07		2E-05
Arsenic	Spring Lake	2E-05	4E-05	5E-07		6E-05
Barium	Mississippi River	3E-06	0E+00	1E-09	2E-04	3E-06
Barium	Fabius River	3E-06	0E+00	1E-09	2E-04	3E-06
Barium	Spring Lake	3E-06	0E+00	1E-09	2E-04	3E-06
Beryllium	Mississippi River	5E-07	3E-10	2E-10		5E-07
Beryllium	Fabius River	5E-07	1E-08	2E-10		5E-07
Beryllium	Spring Lake	5E-07	7E-08	2E-10		5E-07

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	4E-05	3E-06	5E-07		5E-05
Cadmium	Fabius River	4E-05	6E-05	5E-07		1E-04
Cadmium	Spring Lake	4E-05	1E-03	5E-07		1E-03
Chromium VI	Mississippi River	2E-07	2E-10	8E-09		2E-07
Chromium VI	Fabius River	2E-07	6E-09	8E-09		2E-07
Chromium VI	Spring Lake	2E-07	1E-07	8E-09		3E-07
Chromium III	Mississippi River	1E-07	2E-12	3E-13		1E-07
Chromium III	Fabius River	1E-07	9E-11	3E-13		1E-07
Chromium III	Spring Lake	1E-07	1E-10	3E-13		1E-07
Cobalt	Mississippi River	1E-08	0E+00	3E-13		1E-08
Cobalt	Fabius River	1E-08	0E+00	3E-13		1E-08
Cobalt	Spring Lake	1E-08	0E+00	3E-13		1E-08
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Fabius River				8E-04	
Hydrogen Chloride	Spring Lake				8E-04	
Selenium	Mississippi River	4E-09	4E-08	6E-10		4E-08
Selenium	Fabius River	4E-09	9E-07	6E-10		9E-07
Selenium	Spring Lake	4E-09	2E-05	6E-10		2E-05
Chlorine	Mississippi River				4E-03	
Chlorine	Fabius River				4E-03	
Chlorine	Spring Lake				4E-03	
Methylmercury - Developmental Effects	Mississippi River	1E-06	8E-05	3E-10		8E-05
Methylmercury - Developmental Effects	Fabius River	1E-06	1E-03	3E-10		1E-03
Methylmercury - Developmental Effects	Spring Lake	1E-06	2E-03	3E-10		2E-03
Methylmercury - Neurological Effects	Mississippi River	4E-07	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Fabius River	4E-07	3E-04	1E-10		3E-04
Methylmercury - Neurological Effects	Spring Lake	4E-07	6E-04	1E-10		6E-04

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-10	4E-11	9E-15	9E-11	2E-10
2,3,7,8-TCDD-TEQ	Fabius River	1E-10	1E-09	9E-15	9E-11	1E-09
2,3,7,8-TCDD-TEQ	Spring Lake	1E-10	4E-09	9E-15	9E-11	4E-09
Nickel	Mississippi River				1E-09	
Nickel	Fabius River				1E-09	
Nickel	Spring Lake				1E-09	
Arsenic	Mississippi River	5E-10	4E-12	2E-11	2E-08	6E-10
Arsenic	Fabius River	5E-10	9E-11	2E-11	2E-08	6E-10
Arsenic	Spring Lake	5E-10	2E-09	2E-11	2E-08	2E-09
Beryllium	Mississippi River				1E-10	
Beryllium	Fabius River				1E-10	
Beryllium	Spring Lake				1E-10	
Cadmium	Mississippi River				2E-08	
Cadmium	Fabius River				2E-08	
Cadmium	Spring Lake				2E-08	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Fabius River				2E-08	
Chromium VI	Spring Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-08	0E+00	3E-10	5E-04	2E-08
Manganese	Fabius River	2E-08	0E+00	3E-10	5E-04	2E-08
Manganese	Spring Lake	2E-08	0E+00	3E-10	5E-04	2E-08
Mercury (elemental)	Mississippi River				3E-04	
Mercury (elemental)	Fabius River				3E-04	
Mercury (elemental)	Spring Lake				3E-04	
Mercury (divalent)	Mississippi River	1E-05		4E-09		1E-05
Mercury (divalent)	Fabius River	1E-05		4E-09		1E-05
Mercury (divalent)	Spring Lake	1E-05		4E-09		1E-05
Nickel	Mississippi River	9E-08	2E-10	4E-09		1E-07
Nickel	Fabius River	9E-08	4E-09	4E-09		1E-07
Nickel	Spring Lake	9E-08	8E-08	4E-09		2E-07
Silver	Mississippi River	3E-10	0E+00	5E-10		7E-10
Silver	Fabius River	3E-10	0E+00	5E-10		7E-10
Silver	Spring Lake	3E-10	0E+00	5E-10		7E-10
Thallium	Mississippi River	1E-06	6E-08	2E-08		1E-06
Thallium	Fabius River	1E-06	1E-06	2E-08		3E-06
Thallium	Spring Lake	1E-06	3E-05	2E-08		3E-05
Antimony	Mississippi River	1E-06	0E+00	5E-07		2E-06
Antimony	Fabius River	1E-06	0E+00	5E-07		2E-06
Antimony	Spring Lake	1E-06	0E+00	5E-07		2E-06
Arsenic	Mississippi River	9E-06	7E-08	3E-07		1E-05
Arsenic	Fabius River	9E-06	2E-06	3E-07		1E-05
Arsenic	Spring Lake	9E-06	3E-05	3E-07		4E-05
Barium	Mississippi River	2E-06	0E+00	7E-10	2E-04	2E-06
Barium	Fabius River	2E-06	0E+00	7E-10	2E-04	2E-06
Barium	Spring Lake	2E-06	0E+00	7E-10	2E-04	2E-06
Beryllium	Mississippi River	2E-07	2E-10	2E-10		2E-07
Beryllium	Fabius River	2E-07	8E-09	2E-10		2E-07
Beryllium	Spring Lake	2E-07	5E-08	2E-10		3E-07

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	2E-05	2E-06	4E-07		3E-05
Cadmium	Fabius River	2E-05	5E-05	4E-07		7E-05
Cadmium	Spring Lake	2E-05	8E-04	4E-07		8E-04
Chromium VI	Mississippi River	9E-08	2E-10	5E-09		9E-08
Chromium VI	Fabius River	9E-08	4E-09	5E-09		1E-07
Chromium VI	Spring Lake	9E-08	8E-08	5E-09		2E-07
Chromium III	Mississippi River	6E-08	2E-12	2E-13		6E-08
Chromium III	Fabius River	6E-08	6E-11	2E-13		6E-08
Chromium III	Spring Lake	6E-08	9E-11	2E-13		6E-08
Cobalt	Mississippi River	6E-09	0E+00	1E-10		6E-09
Cobalt	Fabius River	6E-09	0E+00	1E-10		6E-09
Cobalt	Spring Lake	6E-09	0E+00	1E-10		6E-09
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Fabius River				8E-04	
Hydrogen Chloride	Spring Lake				8E-04	
Selenium	Mississippi River	2E-09	3E-08	4E-10		3E-08
Selenium	Fabius River	2E-09	6E-07	4E-10		7E-07
Selenium	Spring Lake	2E-09	1E-05	4E-10		1E-05
Chlorine	Mississippi River				4E-03	
Chlorine	Fabius River				4E-03	
Chlorine	Spring Lake				4E-03	
Methylmercury - Developmental Effects	Mississippi River	6E-07	6E-05	2E-10		6E-05
Methylmercury - Developmental Effects	Fabius River	6E-07	7E-04	2E-10		7E-04
Methylmercury - Developmental Effects	Spring Lake	6E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Mississippi River	2E-07	2E-05	6E-11		2E-05
Methylmercury - Neurological Effects	Fabius River	2E-07	2E-04	6E-11		2E-04
Methylmercury - Neurological Effects	Spring Lake	2E-07	5E-04	6E-11		5E-04

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	8E-11	8E-11	2E-14	1E-10	2E-10
2,3,7,8-TCDD-TEQ	Fabius River	8E-11	2E-09	2E-14	1E-10	2E-09
2,3,7,8-TCDD-TEQ	Spring Lake	8E-11	8E-09	2E-14	1E-10	8E-09
Nickel	Mississippi River				2E-09	
Nickel	Fabius River				2E-09	
Nickel	Spring Lake				2E-09	
Arsenic	Mississippi River	4E-10	7E-12	4E-11	4E-08	5E-10
Arsenic	Fabius River	4E-10	2E-10	4E-11	4E-08	6E-10
Arsenic	Spring Lake	4E-10	3E-09	4E-11	4E-08	4E-09
Beryllium	Mississippi River				2E-10	
Beryllium	Fabius River				2E-10	
Beryllium	Spring Lake				2E-10	
Cadmium	Mississippi River				3E-08	
Cadmium	Fabius River				3E-08	
Cadmium	Spring Lake				3E-08	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Fabius River				2E-08	
Chromium VI	Spring Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	9E-09	0E+00	4E-10	5E-04	9E-09
Manganese	Fabius River	9E-09	0E+00	4E-10	5E-04	9E-09
Manganese	Spring Lake	9E-09	0E+00	4E-10	5E-04	9E-09
Mercury (elemental)	Mississippi River				3E-04	
Mercury (elemental)	Fabius River				3E-04	
Mercury (elemental)	Spring Lake				3E-04	
Mercury (divalent)	Mississippi River	4E-06		5E-09		4E-06
Mercury (divalent)	Fabius River	4E-06		5E-09		4E-06
Mercury (divalent)	Spring Lake	4E-06		5E-09		4E-06
Nickel	Mississippi River	4E-08	2E-10	5E-09		4E-08
Nickel	Fabius River	4E-08	4E-09	5E-09		5E-08
Nickel	Spring Lake	4E-08	8E-08	5E-09		1E-07
Silver	Mississippi River	1E-10	0E+00	6E-10		7E-10
Silver	Fabius River	1E-10	0E+00	6E-10		7E-10
Silver	Spring Lake	1E-10	0E+00	6E-10		7E-10
Thallium	Mississippi River	4E-07	6E-08	2E-08		5E-07
Thallium	Fabius River	4E-07	1E-06	2E-08		2E-06
Thallium	Spring Lake	4E-07	3E-05	2E-08		3E-05
Antimony	Mississippi River	5E-07	0E+00	6E-07		1E-06
Antimony	Fabius River	5E-07	0E+00	6E-07		1E-06
Antimony	Spring Lake	5E-07	0E+00	6E-07		1E-06
Arsenic	Mississippi River	4E-06	7E-08	4E-07		4E-06
Arsenic	Fabius River	4E-06	2E-06	4E-07		6E-06
Arsenic	Spring Lake	4E-06	3E-05	4E-07		4E-05
Barium	Mississippi River	6E-07	0E+00	8E-10	2E-04	6E-07
Barium	Fabius River	6E-07	0E+00	8E-10	2E-04	6E-07
Barium	Spring Lake	6E-07	0E+00	8E-10	2E-04	6E-07
Beryllium	Mississippi River	1E-07	2E-10	2E-10		1E-07
Beryllium	Fabius River	1E-07	8E-09	2E-10		1E-07
Beryllium	Spring Lake	1E-07	5E-08	2E-10		1E-07

Table IX-D28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 477, 478, 805) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Mississippi River	9E-06	2E-06	4E-07		1E-05
Cadmium	Fabius River	9E-06	5E-05	4E-07		5E-05
Cadmium	Spring Lake	9E-06	8E-04	4E-07		8E-04
Chromium VI	Mississippi River	4E-08	2E-10	6E-09		4E-08
Chromium VI	Fabius River	4E-08	4E-09	6E-09		5E-08
Chromium VI	Spring Lake	4E-08	8E-08	6E-09		1E-07
Chromium III	Mississippi River	2E-08	2E-12	2E-13		2E-08
Chromium III	Fabius River	2E-08	6E-11	2E-13		2E-08
Chromium III	Spring Lake	2E-08	9E-11	2E-13		2E-08
Cobalt	Mississippi River	2E-09	0E+00	2E-10		3E-09
Cobalt	Fabius River	2E-09	0E+00	2E-10		3E-09
Cobalt	Spring Lake	2E-09	0E+00	2E-10		3E-09
Hydrogen Chloride	Mississippi River				8E-04	
Hydrogen Chloride	Fabius River				8E-04	
Hydrogen Chloride	Spring Lake				8E-04	
Selenium	Mississippi River	8E-10	3E-08	4E-10		3E-08
Selenium	Fabius River	8E-10	6E-07	4E-10		6E-07
Selenium	Spring Lake	8E-10	1E-05	4E-10		1E-05
Chlorine	Mississippi River				4E-03	
Chlorine	Fabius River				4E-03	
Chlorine	Spring Lake				4E-03	
Methylmercury - Developmental Effects	Mississippi River	3E-07	6E-05	2E-10		6E-05
Methylmercury - Developmental Effects	Fabius River	3E-07	7E-04	2E-10		7E-04
Methylmercury - Developmental Effects	Spring Lake	3E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Mississippi River	9E-08	2E-05	8E-11		2E-05
Methylmercury - Neurological Effects	Fabius River	9E-08	2E-04	8E-11		2E-04
Methylmercury - Neurological Effects	Spring Lake	9E-08	5E-04	8E-11		5E-04

Table IX-D29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-08	1E-09	9E-10	3E-09	6E-07	6E-06	7E-08	5E-07	3E-07	4E-07	5E-11	4E-09	8E-06
Nickel												2E-10	
Arsenic	3E-09	1E-09	6E-10	3E-09	9E-09	2E-08	6E-10			2E-08	6E-10	4E-08	5E-08
Beryllium												4E-11	
Cadmium												1E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	7E-08	3E-07	4E-08	2E-06	4E-09			0E+00	9E-09	4E-04	3E-06
Mercury (elemental)												6E-05	
Mercury (divalent)	NA	1E-04	6E-07	3E-04	1E-04	2E-03	7E-08				3E-08		2E-03
Nickel	1E-07	6E-08	2E-08	1E-07	1E-06	1E-05	8E-08			2E-07	6E-08		1E-05
Silver	8E-10	1E-08	3E-09	3E-08	2E-07	7E-05	7E-09			0E+00	9E-09		7E-05
Thallium	5E-06	4E-07	2E-08	1E-06	1E-04	3E-04	1E-05			2E-04	4E-07		6E-04
Antimony	6E-05	3E-04	6E-05	6E-04	9E-04	6E-03	4E-05			0E+00	3E-04		8E-03
Arsenic	9E-05	4E-05	1E-05	8E-05	2E-04	4E-04	2E-05			5E-04	1E-05		1E-03
Barium	1E-06	1E-07	2E-08	2E-07	5E-08	6E-06	7E-09			0E+00	3E-09	2E-05	7E-06
Beryllium	5E-07	7E-09	1E-09	2E-08	7E-08	3E-09	2E-08			6E-08	4E-09		7E-07
Cadmium	6E-05	6E-05	3E-05	1E-04	6E-06	2E-05	1E-06			4E-03	5E-06		4E-03
Chromium VI	5E-07	1E-07	6E-08	4E-07	6E-06	9E-05	3E-07			8E-07	7E-08		1E-04
Chromium III	7E-07	9E-09	6E-09	2E-08	6E-07	7E-06	2E-07			1E-10	8E-11		9E-06
Cobalt	3E-08	6E-09	3E-11	2E-08	5E-07	3E-06	5E-08			0E+00	3E-09		4E-06
Hydrogen Chloride												8E-03	
Selenium	4E-07	3E-07	3E-07	9E-07	6E-06	6E-04	2E-05			5E-03	7E-07		5E-03
Chlorine												4E-02	
Methylmercury - Developmental Effects	3E-07	5E-05	9E-08	5E-05	1E-04	2E-03	2E-08			3E-04	5E-10		2E-03
Methylmercury - Neurological Effects	1E-07	2E-05	3E-08	2E-05	3E-05	5E-04	6E-09			1E-04	2E-10		7E-04

Table IX-D29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-09	9E-10	9E-10	3E-09	9E-07	4E-06	6E-08	5E-07	3E-07	4E-07	4E-11	5E-09	6E-06
Nickel												3E-10	
Arsenic	1E-09	1E-09	5E-10	4E-09	1E-08	1E-08	5E-10			2E-08	5E-10	5E-08	5E-08
Beryllium												5E-11	
Cadmium												1E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	5E-08	2E-07	5E-08	1E-06	2E-09			0E+00	5E-09	4E-04	2E-06
Mercury (elemental)												6E-05	
Mercury (divalent)	NA	8E-05	4E-07	3E-04	2E-04	1E-03	4E-08				2E-08		1E-03
Nickel	3E-08	3E-08	2E-08	1E-07	2E-06	6E-06	5E-08			2E-07	3E-08		8E-06
Silver	2E-10	6E-09	2E-09	3E-08	2E-07	3E-05	4E-09			0E+00	5E-09		3E-05
Thallium	1E-06	2E-07	2E-08	1E-06	1E-04	2E-04	7E-06			1E-04	2E-07		4E-04
Antimony	2E-05	1E-04	4E-05	6E-04	1E-03	3E-03	2E-05			0E+00	2E-04		5E-03
Arsenic	2E-05	2E-05	1E-05	8E-05	3E-04	2E-04	9E-06			4E-04	8E-06		1E-03
Barium	3E-07	5E-08	2E-08	2E-07	6E-08	3E-06	4E-09			0E+00	2E-09	2E-05	4E-06
Beryllium	1E-07	4E-09	9E-10	2E-08	9E-08	2E-09	1E-08			4E-08	2E-09		3E-07
Cadmium	2E-05	3E-05	2E-05	1E-04	7E-06	1E-05	6E-07			3E-03	3E-06		3E-03
Chromium VI	1E-07	8E-08	4E-08	4E-07	7E-06	5E-05	2E-07			6E-07	4E-08		5E-05
Chromium III	2E-07	5E-09	4E-09	2E-08	7E-07	4E-06	1E-07			9E-11	4E-11		5E-06
Cobalt	8E-09	4E-09	2E-11	1E-08	6E-07	2E-06	3E-08			0E+00	2E-09		2E-06
Hydrogen Chloride												8E-03	
Selenium	1E-07	2E-07	2E-07	8E-07	8E-06	3E-04	1E-05			4E-03	4E-07		4E-03
Chlorine												4E-02	
Methylmercury - Developmental Effects	9E-08	3E-05	6E-08	5E-05	1E-04	8E-04	1E-08			2E-04	3E-10		1E-03
Methylmercury - Neurological Effects	3E-08	9E-06	2E-08	2E-05	4E-05	3E-04	4E-09			7E-05	9E-11		4E-04

Table IX-D29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	7E-10	6E-10	2E-09	4E-07	2E-06	4E-08	3E-07	2E-07	2E-07	3E-11	3E-09	3E-06
Nickel												2E-10	
Arsenic	7E-10	8E-10	4E-10	2E-09	7E-09	5E-09	3E-10			1E-08	3E-10	3E-08	3E-08
Beryllium												3E-11	
Cadmium												8E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00	3E-09	4E-04	8E-07
Mercury (elemental)												6E-05	
Mercury (divalent)	8E-07	6E-05	3E-07	2E-04	7E-05	4E-04	3E-08			0E+00	1E-08		7E-04
Nickel	2E-08	2E-08	1E-08	7E-08	7E-07	3E-06	3E-08			9E-08	2E-08		4E-06
Silver	1E-10	5E-09	1E-09	1E-08	9E-08	2E-05	3E-09			0E+00	3E-09		2E-05
Thallium	6E-07	2E-07	1E-08	5E-07	6E-05	7E-05	5E-06			8E-05	1E-07		2E-04
Antimony	9E-06	1E-04	3E-05	3E-04	5E-04	1E-03	1E-05			0E+00	1E-04		2E-03
Arsenic	1E-05	2E-05	7E-06	4E-05	1E-04	9E-05	6E-06			2E-04	5E-06		5E-04
Barium	1E-07	4E-08	1E-08	1E-07	3E-08	1E-06	3E-09			0E+00	1E-09	2E-05	2E-06
Beryllium	7E-08	3E-09	7E-10	9E-09	4E-08	7E-10	9E-09			2E-08	1E-09		2E-07
Cadmium	8E-06	3E-05	1E-05	6E-05	3E-06	5E-06	4E-07			1E-03	2E-06		2E-03
Chromium VI	7E-08	6E-08	3E-08	2E-07	3E-06	2E-05	1E-07			3E-07	3E-08		2E-05
Chromium III	1E-07	4E-09	3E-09	1E-08	3E-07	2E-06	8E-08			5E-11	3E-11		2E-06
Cobalt	4E-09	3E-09	2E-11	8E-09	3E-07	7E-07	2E-08			0E+00	1E-09		1E-06
Hydrogen Chloride												8E-03	
Selenium	5E-08	1E-07	1E-07	4E-07	3E-06	1E-04	9E-06			2E-03	3E-07		2E-03
Chlorine												4E-02	
Methylmercury - Developmental Effects	5E-08	2E-05	4E-08	2E-05	6E-05	4E-04	7E-09			1E-04	2E-10		6E-04
Methylmercury - Neurological Effects	2E-08	7E-06	1E-08	8E-06	2E-05	1E-04	2E-09			4E-05	6E-11		2E-04

Table IX-D29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	2E-09	1E-09	3E-09	9E-07	2E-06	6E-08	5E-07	3E-07	5E-07	6E-11	5E-09	4E-06
Nickel												3E-10	
Arsenic	5E-10	2E-09	7E-10	4E-09	1E-08	4E-09	6E-10			2E-08	7E-10	5E-08	5E-08
Beryllium												5E-11	
Cadmium												1E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-09	8E-08	4E-08	1E-07	3E-08	2E-07	1E-09			0E+00	4E-09	4E-04	5E-07
Mercury (elemental)												6E-05	
Mercury (divalent)	3E-07	9E-05	4E-07	1E-04	8E-05	2E-04	2E-08			0E+00	1E-08		5E-04
Nickel	7E-09	3E-08	1E-08	6E-08	8E-07	1E-06	3E-08			1E-07	2E-08		2E-06
Silver	5E-11	6E-09	2E-09	1E-08	1E-07	7E-06	2E-09			0E+00	4E-09		7E-06
Thallium	3E-07	2E-07	1E-08	5E-07	7E-05	3E-05	4E-06			9E-05	2E-07		2E-04
Antimony	4E-06	1E-04	4E-05	3E-04	6E-04	6E-04	1E-05			0E+00	1E-04		2E-03
Arsenic	5E-06	2E-05	8E-06	4E-05	1E-04	4E-05	5E-06			2E-04	6E-06		5E-04
Barium	5E-08	6E-08	1E-08	9E-08	3E-08	6E-07	2E-09			0E+00	1E-09	2E-05	8E-07
Beryllium	3E-08	4E-09	8E-10	8E-09	5E-08	3E-10	8E-09			2E-08	2E-09		1E-07
Cadmium	3E-06	3E-05	2E-05	6E-05	3E-06	2E-06	3E-07			2E-03	2E-06		2E-03
Chromium VI	3E-08	9E-08	3E-08	2E-07	3E-06	9E-06	1E-07			3E-07	3E-08		1E-05
Chromium III	4E-08	5E-09	3E-09	1E-08	4E-07	7E-07	7E-08			5E-11	3E-11		1E-06
Cobalt	2E-09	4E-09	2E-11	7E-09	3E-07	3E-07	2E-08			0E+00	1E-09		7E-07
Hydrogen Chloride												8E-03	
Selenium	2E-08	2E-07	1E-07	4E-07	4E-06	6E-05	8E-06			2E-03	3E-07		2E-03
Chlorine												4E-02	
Methylmercury - Developmental Effects	2E-08	3E-05	5E-08	2E-05	6E-05	2E-04	6E-09			1E-04	2E-10		4E-04
Methylmercury - Neurological Effects	6E-09	1E-05	2E-08	8E-06	2E-05	5E-05	2E-09			4E-05	7E-11		1E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	South Fork Holston River	3E-08	1E-07	2E-10	4E-09	2E-07
2,3,7,8-TCDD-TEQ	North Fork Holston River	3E-08	9E-07	2E-10	4E-09	1E-06
2,3,7,8-TCDD-TEQ	Reedy Creek	3E-08	4E-07	2E-10	4E-09	5E-07
2,3,7,8-TCDD-TEQ	Kingsport Reservoir	3E-08	5E-07	2E-10	4E-09	5E-07
Nickel	South Fork Holston River				2E-10	
Nickel	North Fork Holston River				2E-10	
Nickel	Reedy Creek				2E-10	
Nickel	Kingsport Reservoir				2E-10	
Arsenic	South Fork Holston River	3E-09	6E-11	3E-08	4E-08	3E-08
Arsenic	North Fork Holston River	3E-09	8E-10	3E-08	4E-08	3E-08
Arsenic	Reedy Creek	3E-09	3E-09	3E-08	4E-08	3E-08
Arsenic	Kingsport Reservoir	3E-09	3E-09	3E-08	4E-08	3E-08
Beryllium	South Fork Holston River				4E-11	
Beryllium	North Fork Holston River				4E-11	
Beryllium	Reedy Creek				4E-11	
Beryllium	Kingsport Reservoir				4E-11	
Cadmium	South Fork Holston River				1E-08	
Cadmium	North Fork Holston River				1E-08	
Cadmium	Reedy Creek				1E-08	
Cadmium	Kingsport Reservoir				1E-08	
Chromium VI	South Fork Holston River				2E-08	
Chromium VI	North Fork Holston River				2E-08	
Chromium VI	Reedy Creek				2E-08	
Chromium VI	Kingsport Reservoir				2E-08	
	Noncarcinogenic Chemicals					
Manganese	South Fork Holston River	1E-07	0E+00	4E-07	4E-04	5E-07
Manganese	North Fork Holston River	1E-07	0E+00	4E-07	4E-04	5E-07
Manganese	Reedy Creek	1E-07	0E+00	4E-07	4E-04	5E-07
Manganese	Kingsport Reservoir	1E-07	0E+00	4E-07	4E-04	5E-07
Mercury (elemental)	South Fork Holston River				6E-05	
Mercury (elemental)	North Fork Holston River				6E-05	
Mercury (elemental)	Reedy Creek				6E-05	
Mercury (elemental)	Kingsport Reservoir				6E-05	
Mercury (divalent)	South Fork Holston River	6E-06		7E-08		6E-06
Mercury (divalent)	North Fork Holston River	6E-06		7E-08		6E-06
Mercury (divalent)	Reedy Creek	6E-06		7E-08		6E-06
Mercury (divalent)	Kingsport Reservoir	6E-06		7E-08		6E-06
Nickel	South Fork Holston River	1E-07	1E-09	3E-06		3E-06
Nickel	North Fork Holston River	1E-07	3E-09	3E-06		3E-06
Nickel	Reedy Creek	1E-07	7E-08	3E-06		3E-06
Nickel	Kingsport Reservoir	1E-07	5E-08	3E-06		3E-06
Silver	South Fork Holston River	8E-10	0E+00	4E-07		4E-07
Silver	North Fork Holston River	8E-10	0E+00	4E-07		4E-07
Silver	Reedy Creek	8E-10	0E+00	4E-07		4E-07
Silver	Kingsport Reservoir	8E-10	0E+00	4E-07		4E-07
Thallium	South Fork Holston River	5E-06	8E-07	2E-05		2E-05
Thallium	North Fork Holston River	5E-06	7E-06	2E-05		3E-05
Thallium	Reedy Creek	5E-06	4E-05	2E-05		6E-05
Thallium	Kingsport Reservoir	5E-06	3E-05	2E-05		6E-05

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	South Fork Holston River	6E-05	0E+00	1E-02		1E-02
Antimony	North Fork Holston River	6E-05	0E+00	1E-02		1E-02
Antimony	Reedy Creek	6E-05	0E+00	1E-02		1E-02
Antimony	Kingsport Reservoir	6E-05	0E+00	1E-02		1E-02
Arsenic	South Fork Holston River	9E-05	2E-06	6E-04		7E-04
Arsenic	North Fork Holston River	9E-05	2E-05	6E-04		8E-04
Arsenic	Reedy Creek	9E-05	7E-05	6E-04		8E-04
Arsenic	Kingsport Reservoir	9E-05	7E-05	6E-04		8E-04
Barium	South Fork Holston River	1E-06	0E+00	4E-08	2E-05	1E-06
Barium	North Fork Holston River	1E-06	0E+00	4E-08	2E-05	1E-06
Barium	Reedy Creek	1E-06	0E+00	4E-08	2E-05	1E-06
Barium	Kingsport Reservoir	1E-06	0E+00	4E-08	2E-05	1E-06
Beryllium	South Fork Holston River	5E-07	2E-09	8E-08		6E-07
Beryllium	North Fork Holston River	5E-07	1E-08	8E-08		6E-07
Beryllium	Reedy Creek	5E-07	5E-08	8E-08		6E-07
Beryllium	Kingsport Reservoir	5E-07	4E-08	8E-08		6E-07
Cadmium	South Fork Holston River	6E-05	1E-05	2E-04		3E-04
Cadmium	North Fork Holston River	6E-05	2E-04	2E-04		5E-04
Cadmium	Reedy Creek	6E-05	6E-04	2E-04		9E-04
Cadmium	Kingsport Reservoir	6E-05	6E-04	2E-04		9E-04
Chromium VI	South Fork Holston River	5E-07	1E-09	2E-06		3E-06
Chromium VI	North Fork Holston River	5E-07	4E-08	2E-06		3E-06
Chromium VI	Reedy Creek	5E-07	4E-08	2E-06		3E-06
Chromium VI	Kingsport Reservoir	5E-07	7E-08	2E-06		3E-06
Chromium III	South Fork Holston River	7E-07	7E-11	2E-10		7E-07
Chromium III	North Fork Holston River	7E-07	2E-10	2E-10		7E-07
Chromium III	Reedy Creek	7E-07	1E-10	2E-10		7E-07
Chromium III	Kingsport Reservoir	7E-07	6E-11	2E-10		7E-07
Cobalt	South Fork Holston River	3E-08	0E+00	2E-10		3E-08
Cobalt	North Fork Holston River	3E-08	0E+00	2E-10		3E-08
Cobalt	Reedy Creek	3E-08	0E+00	2E-10		3E-08
Cobalt	Kingsport Reservoir	3E-08	0E+00	2E-10		3E-08
Hydrogen Chloride	South Fork Holston River				8E-03	
Hydrogen Chloride	North Fork Holston River				8E-03	
Hydrogen Chloride	Reedy Creek				8E-03	
Hydrogen Chloride	Kingsport Reservoir				8E-03	
Selenium	South Fork Holston River	4E-07	3E-05	4E-05		7E-05
Selenium	North Fork Holston River	4E-07	6E-05	4E-05		1E-04
Selenium	Reedy Creek	4E-07	1E-03	4E-05		1E-03
Selenium	Kingsport Reservoir	4E-07	1E-03	4E-05		1E-03
Chlorine	South Fork Holston River				4E-02	
Chlorine	North Fork Holston River				4E-02	
Chlorine	Reedy Creek				4E-02	
Chlorine	Kingsport Reservoir				4E-02	
Methylmercury - Developmental Effects	South Fork Holston River	3E-07	7E-05	2E-09		7E-05
Methylmercury - Developmental Effects	North Fork Holston River	3E-07	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Reedy Creek	3E-07	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Kingsport Reservoir	3E-07	8E-04	2E-09		8E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	South Fork Holston River	1E-07	2E-05	6E-10		2E-05
Methylmercury - Neurological Effects	North Fork Holston River	1E-07	8E-05	6E-10		8E-05
Methylmercury - Neurological Effects	Reedy Creek	1E-07	8E-05	6E-10		8E-05
Methylmercury - Neurological Effects	Kingsport Reservoir	1E-07	3E-04	6E-10		3E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	South Fork Holston River	9E-09	2E-07	1E-10	5E-09	2E-07
2,3,7,8-TCDD-TEQ	North Fork Holston River	9E-09	1E-06	1E-10	5E-09	1E-06
2,3,7,8-TCDD-TEQ	Reedy Creek	9E-09	6E-07	1E-10	5E-09	6E-07
2,3,7,8-TCDD-TEQ	Kingsport Reservoir	9E-09	7E-07	1E-10	5E-09	7E-07
Nickel	South Fork Holston River				3E-10	
Nickel	North Fork Holston River				3E-10	
Nickel	Reedy Creek				3E-10	
Nickel	Kingsport Reservoir				3E-10	
Arsenic	South Fork Holston River	1E-09	8E-11	2E-08	5E-08	2E-08
Arsenic	North Fork Holston River	1E-09	1E-09	2E-08	5E-08	2E-08
Arsenic	Reedy Creek	1E-09	4E-09	2E-08	5E-08	2E-08
Arsenic	Kingsport Reservoir	1E-09	4E-09	2E-08	5E-08	2E-08
Beryllium	South Fork Holston River				5E-11	
Beryllium	North Fork Holston River				5E-11	
Beryllium	Reedy Creek				5E-11	
Beryllium	Kingsport Reservoir				5E-11	
Cadmium	South Fork Holston River				1E-08	
Cadmium	North Fork Holston River				1E-08	
Cadmium	Reedy Creek				1E-08	
Cadmium	Kingsport Reservoir				1E-08	
Chromium VI	South Fork Holston River				2E-08	
Chromium VI	North Fork Holston River				2E-08	
Chromium VI	Reedy Creek				2E-08	
Chromium VI	Kingsport Reservoir				2E-08	
	Noncarcinogenic Chemicals					
Manganese	South Fork Holston River	3E-08	0E+00	2E-07	4E-04	2E-07
Manganese	North Fork Holston River	3E-08	0E+00	2E-07	4E-04	2E-07
Manganese	Reedy Creek	3E-08	0E+00	2E-07	4E-04	2E-07
Manganese	Kingsport Reservoir	3E-08	0E+00	2E-07	4E-04	2E-07
Mercury (elemental)	South Fork Holston River				6E-05	
Mercury (elemental)	North Fork Holston River				6E-05	
Mercury (elemental)	Reedy Creek				6E-05	
Mercury (elemental)	Kingsport Reservoir				6E-05	
Mercury (divalent)	South Fork Holston River	1E-06		4E-08		2E-06
Mercury (divalent)	North Fork Holston River	1E-06		4E-08		2E-06
Mercury (divalent)	Reedy Creek	1E-06		4E-08		2E-06
Mercury (divalent)	Kingsport Reservoir	1E-06		4E-08		2E-06
Nickel	South Fork Holston River	3E-08	1E-09	2E-06		2E-06
Nickel	North Fork Holston River	3E-08	3E-09	2E-06		2E-06
Nickel	Reedy Creek	3E-08	7E-08	2E-06		2E-06
Nickel	Kingsport Reservoir	3E-08	5E-08	2E-06		2E-06
Silver	South Fork Holston River	2E-10	0E+00	2E-07		2E-07
Silver	North Fork Holston River	2E-10	0E+00	2E-07		2E-07
Silver	Reedy Creek	2E-10	0E+00	2E-07		2E-07
Silver	Kingsport Reservoir	2E-10	0E+00	2E-07		2E-07
Thallium	South Fork Holston River	1E-06	8E-07	1E-05		1E-05
Thallium	North Fork Holston River	1E-06	7E-06	1E-05		2E-05
Thallium	Reedy Creek	1E-06	4E-05	1E-05		5E-05
Thallium	Kingsport Reservoir	1E-06	3E-05	1E-05		4E-05

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	South Fork Holston River	2E-05	0E+00	8E-03		8E-03
Antimony	North Fork Holston River	2E-05	0E+00	8E-03		8E-03
Antimony	Reedy Creek	2E-05	0E+00	8E-03		8E-03
Antimony	Kingsport Reservoir	2E-05	0E+00	8E-03		8E-03
Arsenic	South Fork Holston River	2E-05	2E-06	4E-04		4E-04
Arsenic	North Fork Holston River	2E-05	2E-05	4E-04		4E-04
Arsenic	Reedy Creek	2E-05	7E-05	4E-04		5E-04
Arsenic	Kingsport Reservoir	2E-05	7E-05	4E-04		5E-04
Barium	South Fork Holston River	3E-07	0E+00	2E-08	2E-05	3E-07
Barium	North Fork Holston River	3E-07	0E+00	2E-08	2E-05	3E-07
Barium	Reedy Creek	3E-07	0E+00	2E-08	2E-05	3E-07
Barium	Kingsport Reservoir	3E-07	0E+00	2E-08	2E-05	3E-07
Beryllium	South Fork Holston River	1E-07	2E-09	4E-08		2E-07
Beryllium	North Fork Holston River	1E-07	1E-08	4E-08		2E-07
Beryllium	Reedy Creek	1E-07	5E-08	4E-08		2E-07
Beryllium	Kingsport Reservoir	1E-07	4E-08	4E-08		2E-07
Cadmium	South Fork Holston River	2E-05	1E-05	1E-04		2E-04
Cadmium	North Fork Holston River	2E-05	2E-04	1E-04		3E-04
Cadmium	Reedy Creek	2E-05	6E-04	1E-04		7E-04
Cadmium	Kingsport Reservoir	2E-05	6E-04	1E-04		7E-04
Chromium VI	South Fork Holston River	1E-07	1E-09	1E-06		1E-06
Chromium VI	North Fork Holston River	1E-07	4E-08	1E-06		1E-06
Chromium VI	Reedy Creek	1E-07	4E-08	1E-06		1E-06
Chromium VI	Kingsport Reservoir	1E-07	7E-08	1E-06		2E-06
Chromium III	South Fork Holston River	2E-07	7E-11	9E-11		2E-07
Chromium III	North Fork Holston River	2E-07	2E-10	9E-11		2E-07
Chromium III	Reedy Creek	2E-07	1E-10	9E-11		2E-07
Chromium III	Kingsport Reservoir	2E-07	6E-11	9E-11		2E-07
Cobalt	South Fork Holston River	8E-09	0E+00	9E-11		8E-09
Cobalt	North Fork Holston River	8E-09	0E+00	9E-11		8E-09
Cobalt	Reedy Creek	8E-09	0E+00	9E-11		8E-09
Cobalt	Kingsport Reservoir	8E-09	0E+00	9E-11		8E-09
Hydrogen Chloride	South Fork Holston River				8E-03	
Hydrogen Chloride	North Fork Holston River				8E-03	
Hydrogen Chloride	Reedy Creek				8E-03	
Hydrogen Chloride	Kingsport Reservoir				8E-03	
Selenium	South Fork Holston River	1E-07	3E-05	2E-05		5E-05
Selenium	North Fork Holston River	1E-07	6E-05	2E-05		8E-05
Selenium	Reedy Creek	1E-07	1E-03	2E-05		1E-03
Selenium	Kingsport Reservoir	1E-07	1E-03	2E-05		1E-03
Chlorine	South Fork Holston River				4E-02	
Chlorine	North Fork Holston River				4E-02	
Chlorine	Reedy Creek				4E-02	
Chlorine	Kingsport Reservoir				4E-02	
Methylmercury - Developmental Effects	South Fork Holston River	9E-08	7E-05	1E-09		7E-05
Methylmercury - Developmental Effects	North Fork Holston River	9E-08	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Reedy Creek	9E-08	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Kingsport Reservoir	9E-08	8E-04	1E-09		8E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	South Fork Holston River	3E-08	2E-05	3E-10		2E-05
Methylmercury - Neurological Effects	North Fork Holston River	3E-08	8E-05	3E-10		8E-05
Methylmercury - Neurological Effects	Reedy Creek	3E-08	8E-05	3E-10		8E-05
Methylmercury - Neurological Effects	Kingsport Reservoir	3E-08	3E-04	3E-10		3E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	South Fork Holston River	5E-09	1E-07	1E-10	3E-09	1E-07
2,3,7,8-TCDD-TEQ	North Fork Holston River	5E-09	9E-07	1E-10	3E-09	9E-07
2,3,7,8-TCDD-TEQ	Reedy Creek	5E-09	4E-07	1E-10	3E-09	4E-07
2,3,7,8-TCDD-TEQ	Kingsport Reservoir	5E-09	5E-07	1E-10	3E-09	5E-07
Nickel	South Fork Holston River				2E-10	
Nickel	North Fork Holston River				2E-10	
Nickel	Reedy Creek				2E-10	
Nickel	Kingsport Reservoir				2E-10	
Arsenic	South Fork Holston River	7E-10	6E-11	1E-08	3E-08	1E-08
Arsenic	North Fork Holston River	7E-10	8E-10	1E-08	3E-08	1E-08
Arsenic	Reedy Creek	7E-10	3E-09	1E-08	3E-08	2E-08
Arsenic	Kingsport Reservoir	7E-10	3E-09	1E-08	3E-08	2E-08
Beryllium	South Fork Holston River				3E-11	
Beryllium	North Fork Holston River				3E-11	
Beryllium	Reedy Creek				3E-11	
Beryllium	Kingsport Reservoir				3E-11	
Cadmium	South Fork Holston River				8E-09	
Cadmium	North Fork Holston River				8E-09	
Cadmium	Reedy Creek				8E-09	
Cadmium	Kingsport Reservoir				8E-09	
Chromium VI	South Fork Holston River				1E-08	
Chromium VI	North Fork Holston River				1E-08	
Chromium VI	Reedy Creek				1E-08	
Chromium VI	Kingsport Reservoir				1E-08	
	Noncarcinogenic Chemicals					
Manganese	South Fork Holston River	2E-08	0E+00	1E-07	4E-04	2E-07
Manganese	North Fork Holston River	2E-08	0E+00	1E-07	4E-04	2E-07
Manganese	Reedy Creek	2E-08	0E+00	1E-07	4E-04	2E-07
Manganese	Kingsport Reservoir	2E-08	0E+00	1E-07	4E-04	2E-07
Mercury (elemental)	South Fork Holston River				6E-05	
Mercury (elemental)	North Fork Holston River				6E-05	
Mercury (elemental)	Reedy Creek				6E-05	
Mercury (elemental)	Kingsport Reservoir				6E-05	
Mercury (divalent)	South Fork Holston River	8E-07		2E-08		8E-07
Mercury (divalent)	North Fork Holston River	8E-07		2E-08		8E-07
Mercury (divalent)	Reedy Creek	8E-07		2E-08		8E-07
Mercury (divalent)	Kingsport Reservoir	8E-07		2E-08		8E-07
Nickel	South Fork Holston River	2E-08	1E-09	1E-06		1E-06
Nickel	North Fork Holston River	2E-08	2E-09	1E-06		1E-06
Nickel	Reedy Creek	2E-08	5E-08	1E-06		1E-06
Nickel	Kingsport Reservoir	2E-08	3E-08	1E-06		1E-06
Silver	South Fork Holston River	1E-10	0E+00	2E-07		2E-07
Silver	North Fork Holston River	1E-10	0E+00	2E-07		2E-07
Silver	Reedy Creek	1E-10	0E+00	2E-07		2E-07
Silver	Kingsport Reservoir	1E-10	0E+00	2E-07		2E-07
Thallium	South Fork Holston River	6E-07	6E-07	7E-06		8E-06
Thallium	North Fork Holston River	6E-07	5E-06	7E-06		1E-05
Thallium	Reedy Creek	6E-07	3E-05	7E-06		3E-05
Thallium	Kingsport Reservoir	6E-07	2E-05	7E-06		3E-05

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	South Fork Holston River	9E-06	0E+00	5E-03		5E-03
Antimony	North Fork Holston River	9E-06	0E+00	5E-03		5E-03
Antimony	Reedy Creek	9E-06	0E+00	5E-03		5E-03
Antimony	Kingsport Reservoir	9E-06	0E+00	5E-03		5E-03
Arsenic	South Fork Holston River	1E-05	1E-06	2E-04		2E-04
Arsenic	North Fork Holston River	1E-05	1E-05	2E-04		3E-04
Arsenic	Reedy Creek	1E-05	5E-05	2E-04		3E-04
Arsenic	Kingsport Reservoir	1E-05	5E-05	2E-04		3E-04
Barium	South Fork Holston River	1E-07	0E+00	1E-08	2E-05	1E-07
Barium	North Fork Holston River	1E-07	0E+00	1E-08	2E-05	1E-07
Barium	Reedy Creek	1E-07	0E+00	1E-08	2E-05	1E-07
Barium	Kingsport Reservoir	1E-07	0E+00	1E-08	2E-05	1E-07
Beryllium	South Fork Holston River	7E-08	2E-09	3E-08		1E-07
Beryllium	North Fork Holston River	7E-08	1E-08	3E-08		1E-07
Beryllium	Reedy Creek	7E-08	3E-08	3E-08		1E-07
Beryllium	Kingsport Reservoir	7E-08	3E-08	3E-08		1E-07
Cadmium	South Fork Holston River	8E-06	1E-05	8E-05		1E-04
Cadmium	North Fork Holston River	8E-06	1E-04	8E-05		2E-04
Cadmium	Reedy Creek	8E-06	4E-04	8E-05		5E-04
Cadmium	Kingsport Reservoir	8E-06	4E-04	8E-05		5E-04
Chromium VI	South Fork Holston River	7E-08	9E-10	8E-07		9E-07
Chromium VI	North Fork Holston River	7E-08	3E-08	8E-07		9E-07
Chromium VI	Reedy Creek	7E-08	3E-08	8E-07		9E-07
Chromium VI	Kingsport Reservoir	7E-08	5E-08	8E-07		1E-06
Chromium III	South Fork Holston River	1E-07	5E-11	6E-11		1E-07
Chromium III	North Fork Holston River	1E-07	1E-10	6E-11		1E-07
Chromium III	Reedy Creek	1E-07	1E-10	6E-11		1E-07
Chromium III	Kingsport Reservoir	1E-07	4E-11	6E-11		1E-07
Cobalt	South Fork Holston River	4E-09	0E+00	5E-08		6E-08
Cobalt	North Fork Holston River	4E-09	0E+00	5E-08		6E-08
Cobalt	Reedy Creek	4E-09	0E+00	5E-08		6E-08
Cobalt	Kingsport Reservoir	4E-09	0E+00	5E-08		6E-08
Hydrogen Chloride	South Fork Holston River				8E-03	
Hydrogen Chloride	North Fork Holston River				8E-03	
Hydrogen Chloride	Reedy Creek				8E-03	
Hydrogen Chloride	Kingsport Reservoir				8E-03	
Selenium	South Fork Holston River	5E-08	2E-05	1E-05		3E-05
Selenium	North Fork Holston River	5E-08	4E-05	1E-05		6E-05
Selenium	Reedy Creek	5E-08	1E-03	1E-05		1E-03
Selenium	Kingsport Reservoir	5E-08	7E-04	1E-05		7E-04
Chlorine	South Fork Holston River				4E-02	
Chlorine	North Fork Holston River				4E-02	
Chlorine	Reedy Creek				4E-02	
Chlorine	Kingsport Reservoir				4E-02	
Methylmercury - Developmental Effects	South Fork Holston River	5E-08	5E-05	6E-10		5E-05
Methylmercury - Developmental Effects	North Fork Holston River	5E-08	2E-04	6E-10		2E-04
Methylmercury - Developmental Effects	Reedy Creek	5E-08	2E-04	6E-10		2E-04
Methylmercury - Developmental Effects	Kingsport Reservoir	5E-08	6E-04	6E-10		6E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	South Fork Holston River	2E-08	2E-05	2E-10		2E-05
Methylmercury - Neurological Effects	North Fork Holston River	2E-08	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Reedy Creek	2E-08	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Kingsport Reservoir	2E-08	2E-04	2E-10		2E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	South Fork Holston River	3E-09	2E-07	2E-10	5E-09	2E-07
2,3,7,8-TCDD-TEQ	North Fork Holston River	3E-09	2E-06	2E-10	5E-09	2E-06
2,3,7,8-TCDD-TEQ	Reedy Creek	3E-09	8E-07	2E-10	5E-09	8E-07
2,3,7,8-TCDD-TEQ	Kingsport Reservoir	3E-09	9E-07	2E-10	5E-09	9E-07
Nickel	South Fork Holston River				3E-10	
Nickel	North Fork Holston River				3E-10	
Nickel	Reedy Creek				3E-10	
Nickel	Kingsport Reservoir				3E-10	
Arsenic	South Fork Holston River	5E-10	1E-10	3E-08	5E-08	3E-08
Arsenic	North Fork Holston River	5E-10	1E-09	3E-08	5E-08	3E-08
Arsenic	Reedy Creek	5E-10	5E-09	3E-08	5E-08	4E-08
Arsenic	Kingsport Reservoir	5E-10	5E-09	3E-08	5E-08	3E-08
Beryllium	South Fork Holston River				5E-11	
Beryllium	North Fork Holston River				5E-11	
Beryllium	Reedy Creek				5E-11	
Beryllium	Kingsport Reservoir				5E-11	
Cadmium	South Fork Holston River				1E-08	
Cadmium	North Fork Holston River				1E-08	
Cadmium	Reedy Creek				1E-08	
Cadmium	Kingsport Reservoir				1E-08	
Chromium VI	South Fork Holston River				2E-08	
Chromium VI	North Fork Holston River				2E-08	
Chromium VI	Reedy Creek				2E-08	
Chromium VI	Kingsport Reservoir				2E-08	
	Noncarcinogenic Chemicals					
Manganese	South Fork Holston River	6E-09	0E+00	2E-07	4E-04	2E-07
Manganese	North Fork Holston River	6E-09	0E+00	2E-07	4E-04	2E-07
Manganese	Reedy Creek	6E-09	0E+00	2E-07	4E-04	2E-07
Manganese	Kingsport Reservoir	6E-09	0E+00	2E-07	4E-04	2E-07
Mercury (elemental)	South Fork Holston River				6E-05	
Mercury (elemental)	North Fork Holston River				6E-05	
Mercury (elemental)	Reedy Creek				6E-05	
Mercury (elemental)	Kingsport Reservoir				6E-05	
Mercury (divalent)	South Fork Holston River	3E-07		3E-08		3E-07
Mercury (divalent)	North Fork Holston River	3E-07		3E-08		3E-07
Mercury (divalent)	Reedy Creek	3E-07		3E-08		3E-07
Mercury (divalent)	Kingsport Reservoir	3E-07		3E-08		3E-07
Nickel	South Fork Holston River	7E-09	1E-09	1E-06		1E-06
Nickel	North Fork Holston River	7E-09	2E-09	1E-06		1E-06
Nickel	Reedy Creek	7E-09	5E-08	1E-06		1E-06
Nickel	Kingsport Reservoir	7E-09	3E-08	1E-06		1E-06
Silver	South Fork Holston River	5E-11	0E+00	2E-07		2E-07
Silver	North Fork Holston River	5E-11	0E+00	2E-07		2E-07
Silver	Reedy Creek	5E-11	0E+00	2E-07		2E-07
Silver	Kingsport Reservoir	5E-11	0E+00	2E-07		2E-07
Thallium	South Fork Holston River	3E-07	6E-07	8E-06		9E-06
Thallium	North Fork Holston River	3E-07	5E-06	8E-06		1E-05
Thallium	Reedy Creek	3E-07	3E-05	8E-06		4E-05
Thallium	Kingsport Reservoir	3E-07	2E-05	8E-06		3E-05

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	South Fork Holston River	4E-06	0E+00	6E-03		6E-03
Antimony	North Fork Holston River	4E-06	0E+00	6E-03		6E-03
Antimony	Reedy Creek	4E-06	0E+00	6E-03		6E-03
Antimony	Kingsport Reservoir	4E-06	0E+00	6E-03		6E-03
Arsenic	South Fork Holston River	5E-06	1E-06	3E-04		3E-04
Arsenic	North Fork Holston River	5E-06	1E-05	3E-04		3E-04
Arsenic	Reedy Creek	5E-06	5E-05	3E-04		3E-04
Arsenic	Kingsport Reservoir	5E-06	5E-05	3E-04		3E-04
Barium	South Fork Holston River	5E-08	0E+00	2E-08	2E-05	7E-08
Barium	North Fork Holston River	5E-08	0E+00	2E-08	2E-05	7E-08
Barium	Reedy Creek	5E-08	0E+00	2E-08	2E-05	7E-08
Barium	Kingsport Reservoir	5E-08	0E+00	2E-08	2E-05	7E-08
Beryllium	South Fork Holston River	3E-08	2E-09	3E-08		6E-08
Beryllium	North Fork Holston River	3E-08	1E-08	3E-08		7E-08
Beryllium	Reedy Creek	3E-08	3E-08	3E-08		9E-08
Beryllium	Kingsport Reservoir	3E-08	3E-08	3E-08		9E-08
Cadmium	South Fork Holston River	3E-06	1E-05	9E-05		1E-04
Cadmium	North Fork Holston River	3E-06	1E-04	9E-05		2E-04
Cadmium	Reedy Creek	3E-06	4E-04	9E-05		5E-04
Cadmium	Kingsport Reservoir	3E-06	4E-04	9E-05		5E-04
Chromium VI	South Fork Holston River	3E-08	9E-10	1E-06		1E-06
Chromium VI	North Fork Holston River	3E-08	3E-08	1E-06		1E-06
Chromium VI	Reedy Creek	3E-08	3E-08	1E-06		1E-06
Chromium VI	Kingsport Reservoir	3E-08	5E-08	1E-06		1E-06
Chromium III	South Fork Holston River	4E-08	5E-11	7E-11		4E-08
Chromium III	North Fork Holston River	4E-08	1E-10	7E-11		4E-08
Chromium III	Reedy Creek	4E-08	1E-10	7E-11		4E-08
Chromium III	Kingsport Reservoir	4E-08	4E-11	7E-11		4E-08
Cobalt	South Fork Holston River	2E-09	0E+00	6E-08		6E-08
Cobalt	North Fork Holston River	2E-09	0E+00	6E-08		6E-08
Cobalt	Reedy Creek	2E-09	0E+00	6E-08		6E-08
Cobalt	Kingsport Reservoir	2E-09	0E+00	6E-08		6E-08
Hydrogen Chloride	South Fork Holston River				8E-03	
Hydrogen Chloride	North Fork Holston River				8E-03	
Hydrogen Chloride	Reedy Creek				8E-03	
Hydrogen Chloride	Kingsport Reservoir				8E-03	
Selenium	South Fork Holston River	2E-08	2E-05	2E-05		4E-05
Selenium	North Fork Holston River	2E-08	4E-05	2E-05		6E-05
Selenium	Reedy Creek	2E-08	1E-03	2E-05		1E-03
Selenium	Kingsport Reservoir	2E-08	7E-04	2E-05		7E-04
Chlorine	South Fork Holston River				4E-02	
Chlorine	North Fork Holston River				4E-02	
Chlorine	Reedy Creek				4E-02	
Chlorine	Kingsport Reservoir				4E-02	
Methylmercury - Developmental Effects	South Fork Holston River	2E-08	5E-05	7E-10		5E-05
Methylmercury - Developmental Effects	North Fork Holston River	2E-08	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Reedy Creek	2E-08	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Kingsport Reservoir	2E-08	6E-04	7E-10		6E-04

Table IX-D30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 809, 810) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	South Fork Holston River	6E-09	2E-05	2E-10		2E-05
Methylmercury - Neurological Effects	North Fork Holston River	6E-09	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Reedy Creek	6E-09	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Kingsport Reservoir	6E-09	2E-04	2E-10		2E-04

Table IX-D31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	2E-10	2E-10	4E-10	1E-07	1E-06	1E-08	6E-08	3E-08	4E-08	9E-13	8E-10	1E-06
Nickel												2E-10	
Arsenic	8E-10	4E-10	2E-10	1E-09	3E-09	5E-09	2E-10			5E-09	7E-11	2E-08	2E-08
Beryllium												6E-11	
Cadmium												8E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	1E-07	4E-07	7E-08	3E-06	5E-09			0E+00	5E-09	9E-04	4E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	6E-06	5E-05	8E-05	9E-04	1E-07				2E-08		1E-03
Nickel	3E-08	2E-08	7E-09	5E-08	5E-07	5E-06	3E-08			6E-08	4E-09		6E-06
Silver	2E-10	4E-09	7E-10	1E-08	7E-08	3E-05	2E-09			0E+00	9E-10		3E-05
Thallium	1E-06	2E-07	9E-09	4E-07	5E-05	1E-04	4E-06			6E-05	5E-08		2E-04
Antimony	1E-06	6E-06	1E-06	1E-05	3E-05	2E-04	1E-06			0E+00	1E-06		2E-04
Arsenic	2E-05	1E-05	4E-06	3E-05	7E-05	1E-04	4E-06			1E-04	2E-06		4E-04
Barium	5E-07	5E-08	1E-08	9E-08	2E-08	3E-06	3E-09			0E+00	3E-10	1E-05	3E-06
Beryllium	4E-07	6E-09	1E-09	2E-08	6E-08	3E-09	2E-08			2E-08	4E-10		6E-07
Cadmium	2E-05	3E-05	2E-05	7E-05	3E-06	1E-05	4E-07			1E-03	9E-07		1E-03
Chromium VI	2E-07	8E-08	2E-08	2E-07	3E-06	5E-05	2E-07			3E-07	2E-08		5E-05
Chromium III	8E-08	9E-10	6E-10	2E-09	6E-08	7E-07	2E-08			5E-12	5E-13		9E-07
Cobalt	3E-08	1E-08	5E-11	3E-08	9E-07	5E-06	6E-08			0E+00	2E-09		6E-06
Hydrogen Chloride												1E-03	
Selenium	2E-08	2E-08	1E-08	7E-08	6E-07	5E-05	2E-06			3E-04	9E-09		3E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	3E-06	9E-06	8E-07	8E-06	2E-05	3E-04	1E-08			1E-03	1E-09		2E-03
Methylmercury - Neurological Effects	1E-06	3E-06	3E-07	3E-06	6E-06	9E-05	3E-09			4E-04	3E-10		5E-04

Table IX-D31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-10	1E-10	6E-10	2E-07	7E-07	8E-09	6E-08	4E-08	4E-08	7E-13	9E-10	1E-06
Nickel												2E-10	
Arsenic	3E-10	3E-10	2E-10	1E-09	5E-09	4E-09	1E-10			5E-09	5E-11	2E-08	2E-08
Beryllium												6E-11	
Cadmium												9E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	1E-07	8E-08	4E-07	8E-08	2E-06	3E-09			0E+00	3E-09	9E-04	2E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	1E-05	4E-06	5E-05	9E-05	5E-04	8E-08				1E-08		6E-04
Nickel	8E-09	1E-08	5E-09	5E-08	6E-07	3E-06	2E-08			5E-08	2E-09		3E-06
Silver	5E-11	2E-09	5E-10	9E-09	8E-08	1E-05	1E-09			0E+00	5E-10		1E-05
Thallium	3E-07	9E-08	6E-09	4E-07	5E-05	7E-05	2E-06			4E-05	3E-08		2E-04
Antimony	3E-07	3E-06	8E-07	1E-05	3E-05	8E-05	6E-07			0E+00	8E-07		1E-04
Arsenic	5E-06	6E-06	3E-06	2E-05	9E-05	7E-05	3E-06			1E-04	9E-07		3E-04
Barium	1E-07	3E-08	8E-09	9E-08	3E-08	1E-06	2E-09			0E+00	2E-10	1E-05	2E-06
Beryllium	1E-07	3E-09	8E-10	1E-08	8E-08	1E-09	1E-08			1E-08	2E-10		2E-07
Cadmium	6E-06	2E-05	1E-05	6E-05	3E-06	5E-06	3E-07			1E-03	5E-07		1E-03
Chromium VI	5E-08	4E-08	2E-08	2E-07	4E-06	2E-05	9E-08			2E-07	1E-08		3E-05
Chromium III	2E-08	5E-10	4E-10	2E-09	7E-08	4E-07	1E-08			4E-12	3E-13		5E-07
Cobalt	9E-09	6E-09	4E-11	2E-08	1E-06	3E-06	4E-08			0E+00	1E-09		4E-06
Hydrogen Chloride												1E-03	
Selenium	5E-09	1E-08	1E-08	7E-08	7E-07	2E-05	1E-06			2E-04	5E-09		2E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	8E-07	5E-06	5E-07	8E-06	2E-05	1E-04	6E-09			1E-03	6E-10		1E-03
Methylmercury - Neurological Effects	3E-07	2E-06	2E-07	3E-06	8E-06	5E-05	2E-09			3E-04	2E-10		4E-04

Table IX-D31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	1E-10	1E-10	3E-10	7E-08	3E-07	5E-09	3E-08	2E-08	2E-08	5E-13	6E-10	5E-07
Nickel												1E-10	
Arsenic	2E-10	3E-10	1E-10	7E-10	2E-09	2E-09	1E-10			3E-09	3E-11	2E-08	8E-09
Beryllium												4E-11	
Cadmium												6E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	9E-08	5E-08	2E-07	3E-08	8E-07	2E-09			0E+00	2E-09	9E-04	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	7E-06	1E-05	3E-06	3E-05	4E-05	2E-04	5E-08			0E+00	9E-09		3E-04
Nickel	4E-09	9E-09	4E-09	3E-08	3E-07	1E-06	1E-08			3E-08	1E-09		2E-06
Silver	3E-11	2E-09	3E-10	5E-09	3E-08	6E-06	9E-10			0E+00	3E-10		6E-06
Thallium	2E-07	7E-08	4E-09	2E-07	2E-05	3E-05	2E-06			2E-05	2E-08		8E-05
Antimony	2E-07	3E-06	6E-07	7E-06	1E-05	4E-05	4E-07			0E+00	5E-07		6E-05
Arsenic	3E-06	5E-06	2E-06	1E-05	4E-05	3E-05	2E-06			5E-05	6E-07		1E-04
Barium	6E-08	2E-08	6E-09	5E-08	1E-08	6E-07	1E-09			0E+00	1E-10	1E-05	8E-07
Beryllium	6E-08	3E-09	6E-10	8E-09	3E-08	6E-10	8E-09			8E-09	1E-10		1E-07
Cadmium	3E-06	1E-05	8E-06	3E-05	1E-06	2E-06	2E-07			5E-04	3E-07		6E-04
Chromium VI	2E-08	3E-08	1E-08	1E-07	2E-06	1E-05	6E-08			1E-07	9E-09		1E-05
Chromium III	1E-08	4E-10	3E-10	1E-09	3E-08	2E-07	8E-09			2E-12	2E-13		2E-07
Cobalt	5E-09	4E-09	3E-11	1E-08	5E-07	1E-06	2E-08			0E+00	7E-10		2E-06
Hydrogen Chloride												1E-03	
Selenium	3E-09	1E-08	7E-09	4E-08	3E-07	1E-05	7E-07			1E-04	3E-09		1E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	4E-07	4E-06	4E-07	4E-06	1E-05	6E-05	4E-09			5E-04	4E-10		6E-04
Methylmercury - Neurological Effects	1E-07	1E-06	1E-07	1E-06	3E-06	2E-05	1E-09			2E-04	1E-10		2E-04

Table IX-D31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	3E-10	2E-10	5E-10	2E-07	3E-07	9E-09	5E-08	3E-08	5E-08	1E-12	8E-10	6E-07
Nickel												2E-10	
Arsenic	1E-10	6E-10	2E-10	1E-09	5E-09	1E-09	2E-10			6E-09	8E-11	2E-08	1E-08
Beryllium												6E-11	
Cadmium												9E-09	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-09	1E-07	6E-08	2E-07	4E-08	3E-07	2E-09			0E+00	2E-09	9E-04	8E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	3E-06	1E-05	3E-06	3E-05	5E-05	9E-05	5E-08			0E+00	1E-08		2E-04
Nickel	2E-09	1E-08	4E-09	2E-08	3E-07	5E-07	9E-09			3E-08	2E-09		9E-07
Silver	1E-11	2E-09	4E-10	5E-09	4E-08	3E-06	8E-10			0E+00	4E-10		3E-06
Thallium	7E-08	9E-08	5E-09	2E-07	3E-05	1E-05	1E-06			2E-05	2E-08		7E-05
Antimony	7E-08	3E-06	7E-07	7E-06	2E-05	2E-05	4E-07			0E+00	6E-07		4E-05
Arsenic	1E-06	6E-06	2E-06	1E-05	5E-05	1E-05	2E-06			6E-05	7E-07		1E-04
Barium	3E-08	3E-08	7E-09	4E-08	1E-08	3E-07	1E-09			0E+00	1E-10	1E-05	4E-07
Beryllium	2E-08	4E-09	7E-10	7E-09	4E-08	3E-10	7E-09			9E-09	2E-10		9E-08
Cadmium	1E-06	2E-05	9E-06	3E-05	2E-06	1E-06	2E-07			6E-04	4E-07		6E-04
Chromium VI	1E-08	4E-08	1E-08	1E-07	2E-06	5E-06	5E-08			1E-07	1E-08		7E-06
Chromium III	4E-09	5E-10	3E-10	1E-09	4E-08	8E-08	7E-09			2E-12	2E-13		1E-07
Cobalt	2E-09	6E-09	3E-11	1E-08	6E-07	5E-07	2E-08			0E+00	8E-10		1E-06
Hydrogen Chloride												1E-03	
Selenium	1E-09	1E-08	8E-09	3E-08	3E-07	5E-06	6E-07			1E-04	4E-09		1E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	2E-07	5E-06	4E-07	4E-06	1E-05	3E-05	3E-09			6E-04	4E-10		6E-04
Methylmercury - Neurological Effects	6E-08	2E-06	1E-07	1E-06	4E-06	9E-06	1E-09			2E-04	1E-10		2E-04

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tombigbee River	3E-09	2E-09	9E-13	8E-10	5E-09
2,3,7,8-TCDD-TEQ	Hals Lake	3E-09	8E-08	9E-13	8E-10	8E-08
2,3,7,8-TCDD-TEQ	Hellcat Lake	3E-09	1E-06	9E-13	8E-10	1E-06
2,3,7,8-TCDD-TEQ	Alabama River	3E-09	2E-10	9E-13	8E-10	3E-09
Nickel	Tombigbee River				2E-10	
Nickel	Hals Lake				2E-10	
Nickel	Hellcat Lake				2E-10	
Nickel	Alabama River				2E-10	
Arsenic	Tombigbee River	8E-10	7E-12	7E-11	2E-08	9E-10
Arsenic	Hals Lake	8E-10	4E-10	7E-11	2E-08	1E-09
Arsenic	Hellcat Lake	8E-10	9E-09	7E-11	2E-08	1E-08
Arsenic	Alabama River	8E-10	4E-13	7E-11	2E-08	9E-10
Beryllium	Tombigbee River				6E-11	
Beryllium	Hals Lake				6E-11	
Beryllium	Hellcat Lake				6E-11	
Beryllium	Alabama River				6E-11	
Cadmium	Tombigbee River				8E-09	
Cadmium	Hals Lake				8E-09	
Cadmium	Hellcat Lake				8E-09	
Cadmium	Alabama River				8E-09	
Chromium VI	Tombigbee River				1E-08	
Chromium VI	Hals Lake				1E-08	
Chromium VI	Hellcat Lake				1E-08	
Chromium VI	Alabama River				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Tombigbee River	1E-07	0E+00	5E-09	9E-04	1E-07
Manganese	Hals Lake	1E-07	0E+00	5E-09	9E-04	1E-07
Manganese	Hellcat Lake	1E-07	0E+00	5E-09	9E-04	1E-07
Manganese	Alabama River	1E-07	0E+00	5E-09	9E-04	1E-07
Mercury (elemental)	Tombigbee River				1E-05	
Mercury (elemental)	Hals Lake				1E-05	
Mercury (elemental)	Hellcat Lake				1E-05	
Mercury (elemental)	Alabama River				1E-05	
Mercury (divalent)	Tombigbee River	5E-05		2E-08		5E-05
Mercury (divalent)	Hals Lake	5E-05		2E-08		5E-05
Mercury (divalent)	Hellcat Lake	5E-05		2E-08		5E-05
Mercury (divalent)	Alabama River	5E-05		2E-08		5E-05
Nickel	Tombigbee River	3E-08	9E-11	4E-09		3E-08
Nickel	Hals Lake	3E-08	5E-09	4E-09		4E-08
Nickel	Hellcat Lake	3E-08	1E-07	4E-09		1E-07
Nickel	Alabama River	3E-08	5E-12	4E-09		3E-08
Silver	Tombigbee River	2E-10	0E+00	9E-10		1E-09
Silver	Hals Lake	2E-10	0E+00	9E-10		1E-09
Silver	Hellcat Lake	2E-10	0E+00	9E-10		1E-09
Silver	Alabama River	2E-10	0E+00	9E-10		1E-09
Thallium	Tombigbee River	1E-06	9E-08	5E-08		1E-06
Thallium	Hals Lake	1E-06	5E-06	5E-08		7E-06
Thallium	Hellcat Lake	1E-06	1E-04	5E-08		1E-04
Thallium	Alabama River	1E-06	6E-09	5E-08		1E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tombigbee River	1E-06	0E+00	1E-06		3E-06
Antimony	Hals Lake	1E-06	0E+00	1E-06		3E-06
Antimony	Hellcat Lake	1E-06	0E+00	1E-06		3E-06
Antimony	Alabama River	1E-06	0E+00	1E-06		3E-06
Arsenic	Tombigbee River	2E-05	2E-07	2E-06		2E-05
Arsenic	Hals Lake	2E-05	1E-05	2E-06		3E-05
Arsenic	Hellcat Lake	2E-05	2E-04	2E-06		3E-04
Arsenic	Alabama River	2E-05	1E-08	2E-06		2E-05
Barium	Tombigbee River	5E-07	0E+00	3E-10	1E-05	5E-07
Barium	Hals Lake	5E-07	0E+00	3E-10	1E-05	5E-07
Barium	Hellcat Lake	5E-07	0E+00	3E-10	1E-05	5E-07
Barium	Alabama River	5E-07	0E+00	3E-10	1E-05	5E-07
Beryllium	Tombigbee River	4E-07	3E-10	4E-10		4E-07
Beryllium	Hals Lake	4E-07	1E-08	4E-10		5E-07
Beryllium	Hellcat Lake	4E-07	3E-07	4E-10		7E-07
Beryllium	Alabama River	4E-07	2E-11	4E-10		4E-07
Cadmium	Tombigbee River	2E-05	3E-06	9E-07		3E-05
Cadmium	Hals Lake	2E-05	2E-04	9E-07		2E-04
Cadmium	Hellcat Lake	2E-05	3E-03	9E-07		3E-03
Cadmium	Alabama River	2E-05	2E-07	9E-07		2E-05
Chromium VI	Tombigbee River	2E-07	4E-10	2E-08		2E-07
Chromium VI	Hals Lake	2E-07	2E-08	2E-08		2E-07
Chromium VI	Hellcat Lake	2E-07	5E-07	2E-08		7E-07
Chromium VI	Alabama River	2E-07	3E-11	2E-08		2E-07
Chromium III	Tombigbee River	8E-08	8E-13	5E-13		8E-08
Chromium III	Hals Lake	8E-08	5E-12	5E-13		8E-08
Chromium III	Hellcat Lake	8E-08	3E-10	5E-13		8E-08
Chromium III	Alabama River	8E-08	5E-14	5E-13		8E-08
Cobalt	Tombigbee River	3E-08	0E+00	5E-13		3E-08
Cobalt	Hals Lake	3E-08	0E+00	5E-13		3E-08
Cobalt	Hellcat Lake	3E-08	0E+00	5E-13		3E-08
Cobalt	Alabama River	3E-08	0E+00	5E-13		3E-08
Hydrogen Chloride	Tombigbee River				1E-03	
Hydrogen Chloride	Hals Lake				1E-03	
Hydrogen Chloride	Hellcat Lake				1E-03	
Hydrogen Chloride	Alabama River				1E-03	
Selenium	Tombigbee River	2E-08	3E-07	9E-09		4E-07
Selenium	Hals Lake	2E-08	2E-05	9E-09		2E-05
Selenium	Hellcat Lake	2E-08	5E-04	9E-09		5E-04
Selenium	Alabama River	2E-08	2E-08	9E-09		5E-08
Chlorine	Tombigbee River				1E-03	
Chlorine	Hals Lake				1E-03	
Chlorine	Hellcat Lake				1E-03	
Chlorine	Alabama River				1E-03	
Methylmercury - Developmental Effects	Tombigbee River	3E-06	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Hals Lake	3E-06	3E-03	1E-09		3E-03
Methylmercury - Developmental Effects	Hellcat Lake	3E-06	4E-02	1E-09		4E-02
Methylmercury - Developmental Effects	Alabama River	3E-06	1E-05	1E-09		1E-05

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tombigbee River	1E-06	5E-05	3E-10		5E-05
Methylmercury - Neurological Effects	Hals Lake	1E-06	1E-03	3E-10		1E-03
Methylmercury - Neurological Effects	Hellcat Lake	1E-06	1E-02	3E-10		1E-02
Methylmercury - Neurological Effects	Alabama River	1E-06	3E-06	3E-10		4E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tombigbee River	1E-09	3E-09	7E-13	9E-10	4E-09
2,3,7,8-TCDD-TEQ	Hals Lake	1E-09	1E-07	7E-13	9E-10	1E-07
2,3,7,8-TCDD-TEQ	Hellcat Lake	1E-09	2E-06	7E-13	9E-10	2E-06
2,3,7,8-TCDD-TEQ	Alabama River	1E-09	2E-10	7E-13	9E-10	1E-09
Nickel	Tombigbee River				2E-10	
Nickel	Hals Lake				2E-10	
Nickel	Hellcat Lake				2E-10	
Nickel	Alabama River				2E-10	
Arsenic	Tombigbee River	3E-10	1E-11	5E-11	2E-08	4E-10
Arsenic	Hals Lake	3E-10	5E-10	5E-11	2E-08	9E-10
Arsenic	Hellcat Lake	3E-10	1E-08	5E-11	2E-08	1E-08
Arsenic	Alabama River	3E-10	6E-13	5E-11	2E-08	3E-10
Beryllium	Tombigbee River				6E-11	
Beryllium	Hals Lake				6E-11	
Beryllium	Hellcat Lake				6E-11	
Beryllium	Alabama River				6E-11	
Cadmium	Tombigbee River				9E-09	
Cadmium	Hals Lake				9E-09	
Cadmium	Hellcat Lake				9E-09	
Cadmium	Alabama River				9E-09	
Chromium VI	Tombigbee River				2E-08	
Chromium VI	Hals Lake				2E-08	
Chromium VI	Hellcat Lake				2E-08	
Chromium VI	Alabama River				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Tombigbee River	3E-08	0E+00	3E-09	9E-04	4E-08
Manganese	Hals Lake	3E-08	0E+00	3E-09	9E-04	4E-08
Manganese	Hellcat Lake	3E-08	0E+00	3E-09	9E-04	4E-08
Manganese	Alabama River	3E-08	0E+00	3E-09	9E-04	4E-08
Mercury (elemental)	Tombigbee River				1E-05	
Mercury (elemental)	Hals Lake				1E-05	
Mercury (elemental)	Hellcat Lake				1E-05	
Mercury (elemental)	Alabama River				1E-05	
Mercury (divalent)	Tombigbee River	1E-05		1E-08		1E-05
Mercury (divalent)	Hals Lake	1E-05		1E-08		1E-05
Mercury (divalent)	Hellcat Lake	1E-05		1E-08		1E-05
Mercury (divalent)	Alabama River	1E-05		1E-08		1E-05
Nickel	Tombigbee River	8E-09	9E-11	2E-09		1E-08
Nickel	Hals Lake	8E-09	5E-09	2E-09		2E-08
Nickel	Hellcat Lake	8E-09	1E-07	2E-09		1E-07
Nickel	Alabama River	8E-09	5E-12	2E-09		1E-08
Silver	Tombigbee River	5E-11	0E+00	5E-10		6E-10
Silver	Hals Lake	5E-11	0E+00	5E-10		6E-10
Silver	Hellcat Lake	5E-11	0E+00	5E-10		6E-10
Silver	Alabama River	5E-11	0E+00	5E-10		6E-10
Thallium	Tombigbee River	3E-07	9E-08	3E-08		5E-07
Thallium	Hals Lake	3E-07	5E-06	3E-08		6E-06
Thallium	Hellcat Lake	3E-07	1E-04	3E-08		1E-04
Thallium	Alabama River	3E-07	6E-09	3E-08		4E-07

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tombigbee River	3E-07	0E+00	8E-07		1E-06
Antimony	Hals Lake	3E-07	0E+00	8E-07		1E-06
Antimony	Hellcat Lake	3E-07	0E+00	8E-07		1E-06
Antimony	Alabama River	3E-07	0E+00	8E-07		1E-06
Arsenic	Tombigbee River	5E-06	2E-07	9E-07		6E-06
Arsenic	Hals Lake	5E-06	1E-05	9E-07		2E-05
Arsenic	Hellcat Lake	5E-06	2E-04	9E-07		2E-04
Arsenic	Alabama River	5E-06	1E-08	9E-07		6E-06
Barium	Tombigbee River	1E-07	0E+00	2E-10	1E-05	1E-07
Barium	Hals Lake	1E-07	0E+00	2E-10	1E-05	1E-07
Barium	Hellcat Lake	1E-07	0E+00	2E-10	1E-05	1E-07
Barium	Alabama River	1E-07	0E+00	2E-10	1E-05	1E-07
Beryllium	Tombigbee River	1E-07	3E-10	2E-10		1E-07
Beryllium	Hals Lake	1E-07	1E-08	2E-10		1E-07
Beryllium	Hellcat Lake	1E-07	3E-07	2E-10		4E-07
Beryllium	Alabama River	1E-07	2E-11	2E-10		1E-07
Cadmium	Tombigbee River	6E-06	3E-06	5E-07		9E-06
Cadmium	Hals Lake	6E-06	2E-04	5E-07		2E-04
Cadmium	Hellcat Lake	6E-06	3E-03	5E-07		3E-03
Cadmium	Alabama River	6E-06	2E-07	5E-07		7E-06
Chromium VI	Tombigbee River	5E-08	4E-10	1E-08		6E-08
Chromium VI	Hals Lake	5E-08	2E-08	1E-08		8E-08
Chromium VI	Hellcat Lake	5E-08	5E-07	1E-08		6E-07
Chromium VI	Alabama River	5E-08	3E-11	1E-08		6E-08
Chromium III	Tombigbee River	2E-08	8E-13	3E-13		2E-08
Chromium III	Hals Lake	2E-08	5E-12	3E-13		2E-08
Chromium III	Hellcat Lake	2E-08	3E-10	3E-13		2E-08
Chromium III	Alabama River	2E-08	5E-14	3E-13		2E-08
Cobalt	Tombigbee River	9E-09	0E+00	3E-13		9E-09
Cobalt	Hals Lake	9E-09	0E+00	3E-13		9E-09
Cobalt	Hellcat Lake	9E-09	0E+00	3E-13		9E-09
Cobalt	Alabama River	9E-09	0E+00	3E-13		9E-09
Hydrogen Chloride	Tombigbee River				1E-03	
Hydrogen Chloride	Hals Lake				1E-03	
Hydrogen Chloride	Hellcat Lake				1E-03	
Hydrogen Chloride	Alabama River				1E-03	
Selenium	Tombigbee River	5E-09	3E-07	5E-09		4E-07
Selenium	Hals Lake	5E-09	2E-05	5E-09		2E-05
Selenium	Hellcat Lake	5E-09	5E-04	5E-09		5E-04
Selenium	Alabama River	5E-09	2E-08	5E-09		3E-08
Chlorine	Tombigbee River				1E-03	
Chlorine	Hals Lake				1E-03	
Chlorine	Hellcat Lake				1E-03	
Chlorine	Alabama River				1E-03	
Methylmercury - Developmental Effects	Tombigbee River	8E-07	2E-04	6E-10		2E-04
Methylmercury - Developmental Effects	Hals Lake	8E-07	3E-03	6E-10		3E-03
Methylmercury - Developmental Effects	Hellcat Lake	8E-07	4E-02	6E-10		4E-02
Methylmercury - Developmental Effects	Alabama River	8E-07	1E-05	6E-10		1E-05

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tombigbee River	3E-07	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Hals Lake	3E-07	1E-03	2E-10		1E-03
Methylmercury - Neurological Effects	Hellcat Lake	3E-07	1E-02	2E-10		1E-02
Methylmercury - Neurological Effects	Alabama River	3E-07	3E-06	2E-10		4E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tombigbee River	5E-10	2E-09	5E-13	6E-10	3E-09
2,3,7,8-TCDD-TEQ	Hals Lake	5E-10	8E-08	5E-13	6E-10	8E-08
2,3,7,8-TCDD-TEQ	Hellcat Lake	5E-10	1E-06	5E-13	6E-10	1E-06
2,3,7,8-TCDD-TEQ	Alabama River	5E-10	2E-10	5E-13	6E-10	7E-10
Nickel	Tombigbee River				1E-10	
Nickel	Hals Lake				1E-10	
Nickel	Hellcat Lake				1E-10	
Nickel	Alabama River				1E-10	
Arsenic	Tombigbee River	2E-10	7E-12	3E-11	2E-08	2E-10
Arsenic	Hals Lake	2E-10	4E-10	3E-11	2E-08	6E-10
Arsenic	Hellcat Lake	2E-10	9E-09	3E-11	2E-08	1E-08
Arsenic	Alabama River	2E-10	4E-13	3E-11	2E-08	2E-10
Beryllium	Tombigbee River				4E-11	
Beryllium	Hals Lake				4E-11	
Beryllium	Hellcat Lake				4E-11	
Beryllium	Alabama River				4E-11	
Cadmium	Tombigbee River				6E-09	
Cadmium	Hals Lake				6E-09	
Cadmium	Hellcat Lake				6E-09	
Cadmium	Alabama River				6E-09	
Chromium VI	Tombigbee River				1E-08	
Chromium VI	Hals Lake				1E-08	
Chromium VI	Hellcat Lake				1E-08	
Chromium VI	Alabama River				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Tombigbee River	2E-08	0E+00	2E-09	9E-04	2E-08
Manganese	Hals Lake	2E-08	0E+00	2E-09	9E-04	2E-08
Manganese	Hellcat Lake	2E-08	0E+00	2E-09	9E-04	2E-08
Manganese	Alabama River	2E-08	0E+00	2E-09	9E-04	2E-08
Mercury (elemental)	Tombigbee River				1E-05	
Mercury (elemental)	Hals Lake				1E-05	
Mercury (elemental)	Hellcat Lake				1E-05	
Mercury (elemental)	Alabama River				1E-05	
Mercury (divalent)	Tombigbee River	7E-06		9E-09		7E-06
Mercury (divalent)	Hals Lake	7E-06		9E-09		7E-06
Mercury (divalent)	Hellcat Lake	7E-06		9E-09		7E-06
Mercury (divalent)	Alabama River	7E-06		9E-09		7E-06
Nickel	Tombigbee River	4E-09	6E-11	1E-09		6E-09
Nickel	Hals Lake	4E-09	4E-09	1E-09		9E-09
Nickel	Hellcat Lake	4E-09	8E-08	1E-09		9E-08
Nickel	Alabama River	4E-09	4E-12	1E-09		6E-09
Silver	Tombigbee River	3E-11	0E+00	3E-10		4E-10
Silver	Hals Lake	3E-11	0E+00	3E-10		4E-10
Silver	Hellcat Lake	3E-11	0E+00	3E-10		4E-10
Silver	Alabama River	3E-11	0E+00	3E-10		4E-10
Thallium	Tombigbee River	2E-07	7E-08	2E-08		3E-07
Thallium	Hals Lake	2E-07	4E-06	2E-08		4E-06
Thallium	Hellcat Lake	2E-07	9E-05	2E-08		9E-05
Thallium	Alabama River	2E-07	4E-09	2E-08		2E-07

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tombigbee River	2E-07	0E+00	5E-07		7E-07
Antimony	Hals Lake	2E-07	0E+00	5E-07		7E-07
Antimony	Hellcat Lake	2E-07	0E+00	5E-07		7E-07
Antimony	Alabama River	2E-07	0E+00	5E-07		7E-07
Arsenic	Tombigbee River	3E-06	1E-07	6E-07		4E-06
Arsenic	Hals Lake	3E-06	7E-06	6E-07		1E-05
Arsenic	Hellcat Lake	3E-06	2E-04	6E-07		2E-04
Arsenic	Alabama River	3E-06	8E-09	6E-07		3E-06
Barium	Tombigbee River	6E-08	0E+00	1E-10	1E-05	6E-08
Barium	Hals Lake	6E-08	0E+00	1E-10	1E-05	6E-08
Barium	Hellcat Lake	6E-08	0E+00	1E-10	1E-05	6E-08
Barium	Alabama River	6E-08	0E+00	1E-10	1E-05	6E-08
Beryllium	Tombigbee River	6E-08	2E-10	1E-10		6E-08
Beryllium	Hals Lake	6E-08	1E-08	1E-10		7E-08
Beryllium	Hellcat Lake	6E-08	2E-07	1E-10		3E-07
Beryllium	Alabama River	6E-08	1E-11	1E-10		6E-08
Cadmium	Tombigbee River	3E-06	2E-06	3E-07		5E-06
Cadmium	Hals Lake	3E-06	1E-04	3E-07		1E-04
Cadmium	Hellcat Lake	3E-06	2E-03	3E-07		2E-03
Cadmium	Alabama River	3E-06	1E-07	3E-07		4E-06
Chromium VI	Tombigbee River	2E-08	3E-10	9E-09		3E-08
Chromium VI	Hals Lake	2E-08	2E-08	9E-09		5E-08
Chromium VI	Hellcat Lake	2E-08	4E-07	9E-09		4E-07
Chromium VI	Alabama River	2E-08	2E-11	9E-09		3E-08
Chromium III	Tombigbee River	1E-08	5E-13	2E-13		1E-08
Chromium III	Hals Lake	1E-08	4E-12	2E-13		1E-08
Chromium III	Hellcat Lake	1E-08	2E-10	2E-13		1E-08
Chromium III	Alabama River	1E-08	3E-14	2E-13		1E-08
Cobalt	Tombigbee River	5E-09	0E+00	7E-10		5E-09
Cobalt	Hals Lake	5E-09	0E+00	7E-10		5E-09
Cobalt	Hellcat Lake	5E-09	0E+00	7E-10		5E-09
Cobalt	Alabama River	5E-09	0E+00	7E-10		5E-09
Hydrogen Chloride	Tombigbee River				1E-03	
Hydrogen Chloride	Hals Lake				1E-03	
Hydrogen Chloride	Hellcat Lake				1E-03	
Hydrogen Chloride	Alabama River				1E-03	
Selenium	Tombigbee River	3E-09	2E-07	3E-09		3E-07
Selenium	Hals Lake	3E-09	1E-05	3E-09		1E-05
Selenium	Hellcat Lake	3E-09	3E-04	3E-09		3E-04
Selenium	Alabama River	3E-09	2E-08	3E-09		2E-08
Chlorine	Tombigbee River				1E-03	
Chlorine	Hals Lake				1E-03	
Chlorine	Hellcat Lake				1E-03	
Chlorine	Alabama River				1E-03	
Methylmercury - Developmental Effects	Tombigbee River	4E-07	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Hals Lake	4E-07	2E-03	4E-10		2E-03
Methylmercury - Developmental Effects	Hellcat Lake	4E-07	3E-02	4E-10		3E-02
Methylmercury - Developmental Effects	Alabama River	4E-07	7E-06	4E-10		8E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tombigbee River	1E-07	4E-05	1E-10		4E-05
Methylmercury - Neurological Effects	Hals Lake	1E-07	7E-04	1E-10		7E-04
Methylmercury - Neurological Effects	Hellcat Lake	1E-07	1E-02	1E-10		1E-02
Methylmercury - Neurological Effects	Alabama River	1E-07	2E-06	1E-10		3E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tombigbee River	4E-10	4E-09	1E-12	8E-10	5E-09
2,3,7,8-TCDD-TEQ	Hals Lake	4E-10	1E-07	1E-12	8E-10	1E-07
2,3,7,8-TCDD-TEQ	Hellcat Lake	4E-10	2E-06	1E-12	8E-10	2E-06
2,3,7,8-TCDD-TEQ	Alabama River	4E-10	3E-10	1E-12	8E-10	7E-10
Nickel	Tombigbee River				2E-10	
Nickel	Hals Lake				2E-10	
Nickel	Hellcat Lake				2E-10	
Nickel	Alabama River				2E-10	
Arsenic	Tombigbee River	1E-10	1E-11	8E-11	2E-08	2E-10
Arsenic	Hals Lake	1E-10	8E-10	8E-11	2E-08	1E-09
Arsenic	Hellcat Lake	1E-10	2E-08	8E-11	2E-08	2E-08
Arsenic	Alabama River	1E-10	8E-13	8E-11	2E-08	2E-10
Beryllium	Tombigbee River				6E-11	
Beryllium	Hals Lake				6E-11	
Beryllium	Hellcat Lake				6E-11	
Beryllium	Alabama River				6E-11	
Cadmium	Tombigbee River				9E-09	
Cadmium	Hals Lake				9E-09	
Cadmium	Hellcat Lake				9E-09	
Cadmium	Alabama River				9E-09	
Chromium VI	Tombigbee River				1E-08	
Chromium VI	Hals Lake				1E-08	
Chromium VI	Hellcat Lake				1E-08	
Chromium VI	Alabama River				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Tombigbee River	7E-09	0E+00	2E-09	9E-04	9E-09
Manganese	Hals Lake	7E-09	0E+00	2E-09	9E-04	9E-09
Manganese	Hellcat Lake	7E-09	0E+00	2E-09	9E-04	9E-09
Manganese	Alabama River	7E-09	0E+00	2E-09	9E-04	9E-09
Mercury (elemental)	Tombigbee River				1E-05	
Mercury (elemental)	Hals Lake				1E-05	
Mercury (elemental)	Hellcat Lake				1E-05	
Mercury (elemental)	Alabama River				1E-05	
Mercury (divalent)	Tombigbee River	3E-06		1E-08		3E-06
Mercury (divalent)	Hals Lake	3E-06		1E-08		3E-06
Mercury (divalent)	Hellcat Lake	3E-06		1E-08		3E-06
Mercury (divalent)	Alabama River	3E-06		1E-08		3E-06
Nickel	Tombigbee River	2E-09	6E-11	2E-09		3E-09
Nickel	Hals Lake	2E-09	4E-09	2E-09		7E-09
Nickel	Hellcat Lake	2E-09	8E-08	2E-09		8E-08
Nickel	Alabama River	2E-09	4E-12	2E-09		3E-09
Silver	Tombigbee River	1E-11	0E+00	4E-10		4E-10
Silver	Hals Lake	1E-11	0E+00	4E-10		4E-10
Silver	Hellcat Lake	1E-11	0E+00	4E-10		4E-10
Silver	Alabama River	1E-11	0E+00	4E-10		4E-10
Thallium	Tombigbee River	7E-08	7E-08	2E-08		2E-07
Thallium	Hals Lake	7E-08	4E-06	2E-08		4E-06
Thallium	Hellcat Lake	7E-08	9E-05	2E-08		9E-05
Thallium	Alabama River	7E-08	4E-09	2E-08		1E-07

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tombigbee River	7E-08	0E+00	6E-07		6E-07
Antimony	Hals Lake	7E-08	0E+00	6E-07		6E-07
Antimony	Hellcat Lake	7E-08	0E+00	6E-07		6E-07
Antimony	Alabama River	7E-08	0E+00	6E-07		6E-07
Arsenic	Tombigbee River	1E-06	1E-07	7E-07		2E-06
Arsenic	Hals Lake	1E-06	7E-06	7E-07		9E-06
Arsenic	Hellcat Lake	1E-06	2E-04	7E-07		2E-04
Arsenic	Alabama River	1E-06	8E-09	7E-07		2E-06
Barium	Tombigbee River	3E-08	0E+00	1E-10	1E-05	3E-08
Barium	Hals Lake	3E-08	0E+00	1E-10	1E-05	3E-08
Barium	Hellcat Lake	3E-08	0E+00	1E-10	1E-05	3E-08
Barium	Alabama River	3E-08	0E+00	1E-10	1E-05	3E-08
Beryllium	Tombigbee River	2E-08	2E-10	2E-10		2E-08
Beryllium	Hals Lake	2E-08	1E-08	2E-10		3E-08
Beryllium	Hellcat Lake	2E-08	2E-07	2E-10		2E-07
Beryllium	Alabama River	2E-08	1E-11	2E-10		2E-08
Cadmium	Tombigbee River	1E-06	2E-06	4E-07		4E-06
Cadmium	Hals Lake	1E-06	1E-04	4E-07		1E-04
Cadmium	Hellcat Lake	1E-06	2E-03	4E-07		2E-03
Cadmium	Alabama River	1E-06	1E-07	4E-07		2E-06
Chromium VI	Tombigbee River	1E-08	3E-10	1E-08		2E-08
Chromium VI	Hals Lake	1E-08	2E-08	1E-08		4E-08
Chromium VI	Hellcat Lake	1E-08	4E-07	1E-08		4E-07
Chromium VI	Alabama River	1E-08	2E-11	1E-08		2E-08
Chromium III	Tombigbee River	4E-09	5E-13	2E-13		4E-09
Chromium III	Hals Lake	4E-09	4E-12	2E-13		4E-09
Chromium III	Hellcat Lake	4E-09	2E-10	2E-13		5E-09
Chromium III	Alabama River	4E-09	3E-14	2E-13		4E-09
Cobalt	Tombigbee River	2E-09	0E+00	8E-10		3E-09
Cobalt	Hals Lake	2E-09	0E+00	8E-10		3E-09
Cobalt	Hellcat Lake	2E-09	0E+00	8E-10		3E-09
Cobalt	Alabama River	2E-09	0E+00	8E-10		3E-09
Hydrogen Chloride	Tombigbee River				1E-03	
Hydrogen Chloride	Hals Lake				1E-03	
Hydrogen Chloride	Hellcat Lake				1E-03	
Hydrogen Chloride	Alabama River				1E-03	
Selenium	Tombigbee River	1E-09	2E-07	4E-09		3E-07
Selenium	Hals Lake	1E-09	1E-05	4E-09		1E-05
Selenium	Hellcat Lake	1E-09	3E-04	4E-09		3E-04
Selenium	Alabama River	1E-09	2E-08	4E-09		2E-08
Chlorine	Tombigbee River				1E-03	
Chlorine	Hals Lake				1E-03	
Chlorine	Hellcat Lake				1E-03	
Chlorine	Alabama River				1E-03	
Methylmercury - Developmental Effects	Tombigbee River	2E-07	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Hals Lake	2E-07	2E-03	4E-10		2E-03
Methylmercury - Developmental Effects	Hellcat Lake	2E-07	3E-02	4E-10		3E-02
Methylmercury - Developmental Effects	Alabama River	2E-07	7E-06	4E-10		7E-06

Table IX-D32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 705, 490) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tombigbee River	6E-08	4E-05	1E-10		4E-05
Methylmercury - Neurological Effects	Hals Lake	6E-08	7E-04	1E-10		7E-04
Methylmercury - Neurological Effects	Hellcat Lake	6E-08	1E-02	1E-10		1E-02
Methylmercury - Neurological Effects	Alabama River	6E-08	2E-06	1E-10		2E-06

Table IX-D33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-09	4E-10	5E-10	1E-09	2E-07	2E-06	2E-08	2E-07	9E-08	3E-07		1E-09	3E-06
Nickel												8E-11	
Arsenic	2E-10	5E-11	2E-11	1E-10	3E-10	5E-10	3E-11			2E-09		8E-10	3E-09
Beryllium												4E-10	
Cadmium												3E-09	
Chromium VI												6E-08	
	Noncarcinogenic Chemicals												
Manganese	4E-07	4E-07	2E-07	7E-07	1E-07	6E-06	1E-08			0E+00		5E-04	8E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	3E-04	3E-06	6E-04	3E-04	4E-03	2E-07						5E-03
Nickel	7E-08	3E-08	1E-08	7E-08	7E-07	7E-06	4E-08			3E-07			8E-06
Silver	6E-09	7E-08	2E-08	2E-07	1E-06	4E-04	4E-08			0E+00			4E-04
Thallium	1E-05	8E-07	5E-08	2E-06	3E-04	7E-04	3E-05			1E-03			2E-03
Antimony	8E-07	3E-06	8E-07	7E-06	1E-05	6E-05	4E-07			0E+00			8E-05
Arsenic	4E-06	1E-06	6E-07	3E-06	8E-06	1E-05	6E-07			5E-05			8E-05
Barium	7E-07	7E-08	2E-08	1E-07	4E-08	4E-06	5E-09			0E+00		7E-06	5E-06
Beryllium	9E-06	1E-07	2E-08	3E-07	1E-06	5E-08	4E-07			2E-06			1E-05
Cadmium	4E-05	3E-05	1E-05	6E-05	3E-06	1E-05	6E-07			4E-03			5E-03
Chromium VI	5E-06	1E-06	5E-07	3E-06	4E-05	6E-04	3E-06			2E-05			7E-04
Chromium III	4E-07	4E-09	3E-09	1E-08	3E-07	4E-06	1E-07			1E-10			4E-06
Cobalt	1E-07	2E-08	9E-11	4E-08	1E-06	8E-06	1E-07			0E+00			1E-05
Hydrogen Chloride												2E-03	
Selenium	3E-08	2E-08	2E-08	6E-08	4E-07	4E-05	2E-06			8E-04			8E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	1E-06	1E-04	3E-07	1E-04	2E-04	3E-03	4E-08			2E-03			6E-03
Methylmercury - Neurological Effects	5E-07	4E-05	1E-07	4E-05	8E-05	1E-03	1E-08			8E-04			2E-03

Table IX-D33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	3E-10	4E-10	1E-09	3E-07	1E-06	2E-08	2E-07	1E-07	3E-07		1E-09	2E-06
Nickel												9E-11	
Arsenic	6E-11	4E-11	2E-11	1E-10	5E-10	4E-10	2E-11			2E-09		9E-10	3E-09
Beryllium												5E-10	
Cadmium												3E-09	
Chromium VI												7E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	1E-07	7E-07	1E-07	3E-06	6E-09			0E+00		5E-04	4E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	NA	2E-04	2E-06	6E-04	3E-04	2E-03	1E-07						3E-03
Nickel	2E-08	2E-08	9E-09	7E-08	8E-07	3E-06	3E-08			2E-07			4E-06
Silver	2E-09	4E-08	1E-08	2E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	4E-06	5E-07	4E-08	2E-06	3E-04	4E-04	2E-05			9E-04			2E-03
Antimony	2E-07	2E-06	6E-07	7E-06	1E-05	3E-05	2E-07			0E+00			5E-05
Arsenic	1E-06	8E-07	4E-07	3E-06	9E-06	7E-06	4E-07			4E-05			6E-05
Barium	2E-07	4E-08	1E-08	1E-07	4E-08	2E-06	3E-09			0E+00		7E-06	3E-06
Beryllium	2E-06	7E-08	2E-08	3E-07	2E-06	3E-08	3E-07			1E-06			6E-06
Cadmium	1E-05	2E-05	1E-05	6E-05	4E-06	5E-06	3E-07			3E-03			3E-03
Chromium VI	1E-06	6E-07	3E-07	3E-06	5E-05	3E-04	2E-06			1E-05			4E-04
Chromium III	1E-07	2E-09	2E-09	1E-08	3E-07	2E-06	6E-08			9E-11			2E-06
Cobalt	3E-08	9E-09	7E-11	4E-08	2E-06	4E-06	8E-08			0E+00			6E-06
Hydrogen Chloride												2E-03	
Selenium	8E-09	1E-08	1E-08	6E-08	5E-07	2E-05	1E-06			6E-04			6E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	4E-07	6E-05	2E-07	1E-04	3E-04	2E-03	2E-08			2E-03			4E-03
Methylmercury - Neurological Effects	1E-07	2E-05	8E-08	3E-05	9E-05	6E-04	8E-09			6E-04			1E-03

Table IX-D33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	3E-10	3E-10	7E-10	1E-07	7E-07	1E-08	9E-08	5E-08	2E-07		8E-10	1E-06
Nickel												6E-11	
Arsenic	3E-11	3E-11	1E-11	8E-11	2E-10	2E-10	1E-11			1E-09		6E-10	2E-09
Beryllium												3E-10	
Cadmium												2E-09	
Chromium VI												5E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-08	2E-07	9E-08	4E-07	7E-08	1E-06	4E-09			0E+00		5E-04	2E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	3E-06	1E-04	1E-06	3E-04	2E-04	1E-03	6E-08			0E+00			2E-03
Nickel	1E-08	1E-08	6E-09	4E-08	4E-07	2E-06	2E-08			1E-07			2E-06
Silver	9E-10	3E-08	1E-08	9E-08	5E-07	9E-05	1E-08			0E+00			9E-05
Thallium	2E-06	4E-07	3E-08	1E-06	1E-04	2E-04	1E-05			5E-04			8E-04
Antimony	1E-07	1E-06	4E-07	4E-06	5E-06	1E-05	2E-07			0E+00			2E-05
Arsenic	6E-07	6E-07	3E-07	2E-06	4E-06	3E-06	2E-07			2E-05			3E-05
Barium	1E-07	3E-08	9E-09	7E-08	2E-08	1E-06	2E-09			0E+00		7E-06	1E-06
Beryllium	1E-06	5E-08	1E-08	2E-07	7E-07	1E-08	2E-07			8E-07			3E-06
Cadmium	5E-06	1E-05	7E-06	3E-05	2E-06	2E-06	2E-07			2E-03			2E-03
Chromium VI	6E-07	5E-07	2E-07	2E-06	2E-05	1E-04	1E-06			6E-06			2E-04
Chromium III	5E-08	2E-09	1E-09	6E-09	2E-07	8E-07	4E-08			5E-11			1E-06
Cobalt	1E-08	7E-09	5E-11	2E-08	8E-07	2E-06	5E-08			0E+00			3E-06
Hydrogen Chloride												2E-03	
Selenium	4E-09	9E-09	1E-08	3E-08	2E-07	9E-06	6E-07			3E-04			3E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	2E-07	5E-05	2E-07	5E-05	1E-04	8E-04	2E-08			9E-04			2E-03
Methylmercury - Neurological Effects	6E-08	2E-05	6E-08	2E-05	4E-05	3E-04	5E-09			3E-04			6E-04

Table IX-D33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	6E-10	6E-10	1E-09	3E-07	5E-07	2E-08	2E-07	9E-08	3E-07		1E-09	1E-06
Nickel												8E-11	
Arsenic	2E-11	7E-11	3E-11	1E-10	5E-10	1E-10	2E-11			2E-09		9E-10	3E-09
Beryllium												5E-10	
Cadmium												3E-09	
Chromium VI												7E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-07	1E-07	3E-07	8E-08	6E-07	4E-09			0E+00		5E-04	1E-06
Mercury (elemental)												1E-04	
Mercury (divalent)	1E-06	2E-04	1E-06	3E-04	2E-04	4E-04	6E-08			0E+00			1E-03
Nickel	4E-09	2E-08	7E-09	3E-08	4E-07	7E-07	1E-08			1E-07			1E-06
Silver	4E-10	4E-08	1E-08	8E-08	6E-07	4E-05	1E-08			0E+00			4E-05
Thallium	8E-07	5E-07	3E-08	1E-06	2E-04	7E-05	1E-05			5E-04			8E-04
Antimony	5E-08	2E-06	5E-07	3E-06	6E-06	6E-06	1E-07			0E+00			2E-05
Arsenic	2E-07	8E-07	3E-07	1E-06	5E-06	1E-06	2E-07			2E-05			3E-05
Barium	4E-08	4E-08	1E-08	7E-08	2E-08	5E-07	2E-09			0E+00		7E-06	6E-07
Beryllium	5E-07	7E-08	1E-08	1E-07	8E-07	5E-09	1E-07			8E-07			3E-06
Cadmium	2E-06	2E-05	8E-06	3E-05	2E-06	1E-06	2E-07			2E-03			2E-03
Chromium VI	3E-07	6E-07	3E-07	1E-06	2E-05	6E-05	9E-07			7E-06			1E-04
Chromium III	2E-08	2E-09	2E-09	5E-09	2E-07	4E-07	3E-08			5E-11			6E-07
Cobalt	6E-09	1E-08	5E-11	2E-08	9E-07	8E-07	5E-08			0E+00			2E-06
Hydrogen Chloride												2E-03	
Selenium	2E-09	1E-08	1E-08	3E-08	3E-07	4E-06	5E-07			3E-04			4E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	8E-08	6E-05	2E-07	5E-05	1E-04	3E-04	1E-08			1E-03			2E-03
Methylmercury - Neurological Effects	3E-08	2E-05	7E-08	2E-05	5E-05	1E-04	5E-09			3E-04			5E-04

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tittabawassee River (plus Sanford Lake)	8E-09	2E-07	0E+00	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Sturgeon Creek	8E-09	6E-07	0E+00	1E-09	6E-07
2,3,7,8-TCDD-TEQ	Kawkawlin River	8E-09	2E-06	0E+00	1E-09	2E-06
2,3,7,8-TCDD-TEQ	Chippewa River (most inclusive data)	8E-09	8E-08	0E+00	1E-09	9E-08
Nickel	Tittabawassee River (plus Sanford Lake)				8E-11	
Nickel	Sturgeon Creek				8E-11	
Nickel	Kawkawlin River				8E-11	
Nickel	Chippewa River (most inclusive data)				8E-11	
Arsenic	Tittabawassee River (plus Sanford Lake)	2E-10	5E-12	0E+00	8E-10	2E-10
Arsenic	Sturgeon Creek	2E-10	1E-11	0E+00	8E-10	2E-10
Arsenic	Kawkawlin River	2E-10	6E-11	0E+00	8E-10	2E-10
Arsenic	Chippewa River (most inclusive data)	2E-10	2E-12	0E+00	8E-10	2E-10
Beryllium	Tittabawassee River (plus Sanford Lake)				4E-10	
Beryllium	Sturgeon Creek				4E-10	
Beryllium	Kawkawlin River				4E-10	
Beryllium	Chippewa River (most inclusive data)				4E-10	
Cadmium	Tittabawassee River (plus Sanford Lake)				3E-09	
Cadmium	Sturgeon Creek				3E-09	
Cadmium	Kawkawlin River				3E-09	
Cadmium	Chippewa River (most inclusive data)				3E-09	
Chromium VI	Tittabawassee River (plus Sanford Lake)				6E-08	
Chromium VI	Sturgeon Creek				6E-08	
Chromium VI	Kawkawlin River				6E-08	
Chromium VI	Chippewa River (most inclusive data)				6E-08	
	Noncarcinogenic Chemicals					
Manganese	Tittabawassee River (plus Sanford Lake)	4E-07	0E+00	0E+00	5E-04	4E-07
Manganese	Sturgeon Creek	4E-07	0E+00	0E+00	5E-04	4E-07
Manganese	Kawkawlin River	4E-07	0E+00	0E+00	5E-04	4E-07
Manganese	Chippewa River (most inclusive data)	4E-07	0E+00	0E+00	5E-04	4E-07
Mercury (elemental)	Tittabawassee River (plus Sanford Lake)				1E-04	
Mercury (elemental)	Sturgeon Creek				1E-04	
Mercury (elemental)	Kawkawlin River				1E-04	
Mercury (elemental)	Chippewa River (most inclusive data)				1E-04	
Mercury (divalent)	Tittabawassee River (plus Sanford Lake)	2E-05		0E+00		2E-05
Mercury (divalent)	Sturgeon Creek	2E-05		0E+00		2E-05
Mercury (divalent)	Kawkawlin River	2E-05		0E+00		2E-05
Mercury (divalent)	Chippewa River (most inclusive data)	2E-05		0E+00		2E-05
Nickel	Tittabawassee River (plus Sanford Lake)	7E-08	7E-10	0E+00		8E-08
Nickel	Sturgeon Creek	7E-08	2E-09	0E+00		8E-08
Nickel	Kawkawlin River	7E-08	9E-09	0E+00		8E-08
Nickel	Chippewa River (most inclusive data)	7E-08	3E-10	0E+00		8E-08
Silver	Tittabawassee River (plus Sanford Lake)	6E-09	0E+00	0E+00		6E-09
Silver	Sturgeon Creek	6E-09	0E+00	0E+00		6E-09
Silver	Kawkawlin River	6E-09	0E+00	0E+00		6E-09
Silver	Chippewa River (most inclusive data)	6E-09	0E+00	0E+00		6E-09
Thallium	Tittabawassee River (plus Sanford Lake)	1E-05	3E-06	0E+00		2E-05
Thallium	Sturgeon Creek	1E-05	1E-05	0E+00		2E-05
Thallium	Kawkawlin River	1E-05	5E-05	0E+00		6E-05
Thallium	Chippewa River (most inclusive data)	1E-05	1E-06	0E+00		2E-05

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tittabawassee River (plus Sanford Lake)	8E-07	0E+00	0E+00		8E-07
Antimony	Sturgeon Creek	8E-07	0E+00	0E+00		8E-07
Antimony	Kawkawlin River	8E-07	0E+00	0E+00		8E-07
Antimony	Chippewa River (most inclusive data)	8E-07	0E+00	0E+00		8E-07
Arsenic	Tittabawassee River (plus Sanford Lake)	4E-06	1E-07	0E+00		4E-06
Arsenic	Sturgeon Creek	4E-06	4E-07	0E+00		4E-06
Arsenic	Kawkawlin River	4E-06	2E-06	0E+00		6E-06
Arsenic	Chippewa River (most inclusive data)	4E-06	5E-08	0E+00		4E-06
Barium	Tittabawassee River (plus Sanford Lake)	7E-07	0E+00	0E+00	7E-06	7E-07
Barium	Sturgeon Creek	7E-07	0E+00	0E+00	7E-06	7E-07
Barium	Kawkawlin River	7E-07	0E+00	0E+00	7E-06	7E-07
Barium	Chippewa River (most inclusive data)	7E-07	0E+00	0E+00	7E-06	7E-07
Beryllium	Tittabawassee River (plus Sanford Lake)	9E-06	6E-08	0E+00		9E-06
Beryllium	Sturgeon Creek	9E-06	2E-07	0E+00		9E-06
Beryllium	Kawkawlin River	9E-06	9E-07	0E+00		1E-05
Beryllium	Chippewa River (most inclusive data)	9E-06	3E-08	0E+00		9E-06
Cadmium	Tittabawassee River (plus Sanford Lake)	4E-05	1E-05	0E+00		5E-05
Cadmium	Sturgeon Creek	4E-05	5E-05	0E+00		8E-05
Cadmium	Kawkawlin River	4E-05	2E-04	0E+00		2E-04
Cadmium	Chippewa River (most inclusive data)	4E-05	6E-06	0E+00		4E-05
Chromium VI	Tittabawassee River (plus Sanford Lake)	5E-06	3E-08	0E+00		5E-06
Chromium VI	Sturgeon Creek	5E-06	1E-07	0E+00		5E-06
Chromium VI	Kawkawlin River	5E-06	5E-07	0E+00		5E-06
Chromium VI	Chippewa River (most inclusive data)	5E-06	1E-08	0E+00		5E-06
Chromium III	Tittabawassee River (plus Sanford Lake)	4E-07	8E-11	0E+00		4E-07
Chromium III	Sturgeon Creek	4E-07	2E-10	0E+00		4E-07
Chromium III	Kawkawlin River	4E-07	1E-09	0E+00		4E-07
Chromium III	Chippewa River (most inclusive data)	4E-07	3E-11	0E+00		4E-07
Cobalt	Tittabawassee River (plus Sanford Lake)	1E-07	0E+00	0E+00		1E-07
Cobalt	Sturgeon Creek	1E-07	0E+00	0E+00		1E-07
Cobalt	Kawkawlin River	1E-07	0E+00	0E+00		1E-07
Cobalt	Chippewa River (most inclusive data)	1E-07	0E+00	0E+00		1E-07
Hydrogen Chloride	Tittabawassee River (plus Sanford Lake)				2E-03	
Hydrogen Chloride	Sturgeon Creek				2E-03	
Hydrogen Chloride	Kawkawlin River				2E-03	
Hydrogen Chloride	Chippewa River (most inclusive data)				2E-03	
Selenium	Tittabawassee River (plus Sanford Lake)	3E-08	2E-06	0E+00		2E-06
Selenium	Sturgeon Creek	3E-08	5E-06	0E+00		5E-06
Selenium	Kawkawlin River	3E-08	2E-05	0E+00		2E-05
Selenium	Chippewa River (most inclusive data)	3E-08	7E-07	0E+00		8E-07
Chlorine	Tittabawassee River (plus Sanford Lake)				8E-03	
Chlorine	Sturgeon Creek				8E-03	
Chlorine	Kawkawlin River				8E-03	
Chlorine	Chippewa River (most inclusive data)				8E-03	
Methylmercury - Developmental Effects	Tittabawassee River (plus Sanford Lake)	1E-06	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Sturgeon Creek	1E-06	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Kawkawlin River	1E-06	5E-04	0E+00		5E-04
Methylmercury - Developmental Effects	Chippewa River (most inclusive data)	1E-06	2E-05	0E+00		2E-05

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tittabawassee River (plus Sanford Lake)	5E-07	9E-06	0E+00		1E-05
Methylmercury - Neurological Effects	Sturgeon Creek	5E-07	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Kawkawlin River	5E-07	2E-04	0E+00		2E-04
Methylmercury - Neurological Effects	Chippewa River (most inclusive data)	5E-07	7E-06	0E+00		8E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tittabawassee River (plus Sanford Lake)	3E-09	2E-07	0E+00	1E-09	2E-07
2,3,7,8-TCDD-TEQ	Sturgeon Creek	3E-09	8E-07	0E+00	1E-09	8E-07
2,3,7,8-TCDD-TEQ	Kawkawlin River	3E-09	3E-06	0E+00	1E-09	3E-06
2,3,7,8-TCDD-TEQ	Chippewa River (most inclusive data)	3E-09	1E-07	0E+00	1E-09	1E-07
Nickel	Tittabawassee River (plus Sanford Lake)				9E-11	
Nickel	Sturgeon Creek				9E-11	
Nickel	Kawkawlin River				9E-11	
Nickel	Chippewa River (most inclusive data)				9E-11	
Arsenic	Tittabawassee River (plus Sanford Lake)	6E-11	6E-12	0E+00	9E-10	6E-11
Arsenic	Sturgeon Creek	6E-11	2E-11	0E+00	9E-10	8E-11
Arsenic	Kawkawlin River	6E-11	9E-11	0E+00	9E-10	1E-10
Arsenic	Chippewa River (most inclusive data)	6E-11	3E-12	0E+00	9E-10	6E-11
Beryllium	Tittabawassee River (plus Sanford Lake)				5E-10	
Beryllium	Sturgeon Creek				5E-10	
Beryllium	Kawkawlin River				5E-10	
Beryllium	Chippewa River (most inclusive data)				5E-10	
Cadmium	Tittabawassee River (plus Sanford Lake)				3E-09	
Cadmium	Sturgeon Creek				3E-09	
Cadmium	Kawkawlin River				3E-09	
Cadmium	Chippewa River (most inclusive data)				3E-09	
Chromium VI	Tittabawassee River (plus Sanford Lake)				7E-08	
Chromium VI	Sturgeon Creek				7E-08	
Chromium VI	Kawkawlin River				7E-08	
Chromium VI	Chippewa River (most inclusive data)				7E-08	
	Noncarcinogenic Chemicals					
Manganese	Tittabawassee River (plus Sanford Lake)	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Sturgeon Creek	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Kawkawlin River	1E-07	0E+00	0E+00	5E-04	1E-07
Manganese	Chippewa River (most inclusive data)	1E-07	0E+00	0E+00	5E-04	1E-07
Mercury (elemental)	Tittabawassee River (plus Sanford Lake)				1E-04	
Mercury (elemental)	Sturgeon Creek				1E-04	
Mercury (elemental)	Kawkawlin River				1E-04	
Mercury (elemental)	Chippewa River (most inclusive data)				1E-04	
Mercury (divalent)	Tittabawassee River (plus Sanford Lake)	6E-06		0E+00		6E-06
Mercury (divalent)	Sturgeon Creek	6E-06		0E+00		6E-06
Mercury (divalent)	Kawkawlin River	6E-06		0E+00		6E-06
Mercury (divalent)	Chippewa River (most inclusive data)	6E-06		0E+00		6E-06
Nickel	Tittabawassee River (plus Sanford Lake)	2E-08	7E-10	0E+00		2E-08
Nickel	Sturgeon Creek	2E-08	2E-09	0E+00		2E-08
Nickel	Kawkawlin River	2E-08	9E-09	0E+00		3E-08
Nickel	Chippewa River (most inclusive data)	2E-08	3E-10	0E+00		2E-08
Silver	Tittabawassee River (plus Sanford Lake)	2E-09	0E+00	0E+00		2E-09
Silver	Sturgeon Creek	2E-09	0E+00	0E+00		2E-09
Silver	Kawkawlin River	2E-09	0E+00	0E+00		2E-09
Silver	Chippewa River (most inclusive data)	2E-09	0E+00	0E+00		2E-09
Thallium	Tittabawassee River (plus Sanford Lake)	4E-06	3E-06	0E+00		7E-06
Thallium	Sturgeon Creek	4E-06	1E-05	0E+00		1E-05
Thallium	Kawkawlin River	4E-06	5E-05	0E+00		5E-05
Thallium	Chippewa River (most inclusive data)	4E-06	1E-06	0E+00		5E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tittabawassee River (plus Sanford Lake)	2E-07	0E+00	0E+00		2E-07
Antimony	Sturgeon Creek	2E-07	0E+00	0E+00		2E-07
Antimony	Kawkawlin River	2E-07	0E+00	0E+00		2E-07
Antimony	Chippewa River (most inclusive data)	2E-07	0E+00	0E+00		2E-07
Arsenic	Tittabawassee River (plus Sanford Lake)	1E-06	1E-07	0E+00		1E-06
Arsenic	Sturgeon Creek	1E-06	4E-07	0E+00		1E-06
Arsenic	Kawkawlin River	1E-06	2E-06	0E+00		3E-06
Arsenic	Chippewa River (most inclusive data)	1E-06	5E-08	0E+00		1E-06
Barium	Tittabawassee River (plus Sanford Lake)	2E-07	0E+00	0E+00	7E-06	2E-07
Barium	Sturgeon Creek	2E-07	0E+00	0E+00	7E-06	2E-07
Barium	Kawkawlin River	2E-07	0E+00	0E+00	7E-06	2E-07
Barium	Chippewa River (most inclusive data)	2E-07	0E+00	0E+00	7E-06	2E-07
Beryllium	Tittabawassee River (plus Sanford Lake)	2E-06	6E-08	0E+00		2E-06
Beryllium	Sturgeon Creek	2E-06	2E-07	0E+00		3E-06
Beryllium	Kawkawlin River	2E-06	9E-07	0E+00		3E-06
Beryllium	Chippewa River (most inclusive data)	2E-06	3E-08	0E+00		2E-06
Cadmium	Tittabawassee River (plus Sanford Lake)	1E-05	1E-05	0E+00		2E-05
Cadmium	Sturgeon Creek	1E-05	5E-05	0E+00		5E-05
Cadmium	Kawkawlin River	1E-05	2E-04	0E+00		2E-04
Cadmium	Chippewa River (most inclusive data)	1E-05	6E-06	0E+00		2E-05
Chromium VI	Tittabawassee River (plus Sanford Lake)	1E-06	3E-08	0E+00		1E-06
Chromium VI	Sturgeon Creek	1E-06	1E-07	0E+00		1E-06
Chromium VI	Kawkawlin River	1E-06	5E-07	0E+00		2E-06
Chromium VI	Chippewa River (most inclusive data)	1E-06	1E-08	0E+00		1E-06
Chromium III	Tittabawassee River (plus Sanford Lake)	1E-07	8E-11	0E+00		1E-07
Chromium III	Sturgeon Creek	1E-07	2E-10	0E+00		1E-07
Chromium III	Kawkawlin River	1E-07	1E-09	0E+00		1E-07
Chromium III	Chippewa River (most inclusive data)	1E-07	3E-11	0E+00		1E-07
Cobalt	Tittabawassee River (plus Sanford Lake)	3E-08	0E+00	0E+00		3E-08
Cobalt	Sturgeon Creek	3E-08	0E+00	0E+00		3E-08
Cobalt	Kawkawlin River	3E-08	0E+00	0E+00		3E-08
Cobalt	Chippewa River (most inclusive data)	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Tittabawassee River (plus Sanford Lake)				2E-03	
Hydrogen Chloride	Sturgeon Creek				2E-03	
Hydrogen Chloride	Kawkawlin River				2E-03	
Hydrogen Chloride	Chippewa River (most inclusive data)				2E-03	
Selenium	Tittabawassee River (plus Sanford Lake)	8E-09	2E-06	0E+00		2E-06
Selenium	Sturgeon Creek	8E-09	5E-06	0E+00		5E-06
Selenium	Kawkawlin River	8E-09	2E-05	0E+00		2E-05
Selenium	Chippewa River (most inclusive data)	8E-09	7E-07	0E+00		8E-07
Chlorine	Tittabawassee River (plus Sanford Lake)				8E-03	
Chlorine	Sturgeon Creek				8E-03	
Chlorine	Kawkawlin River				8E-03	
Chlorine	Chippewa River (most inclusive data)				8E-03	
Methylmercury - Developmental Effects	Tittabawassee River (plus Sanford Lake)	4E-07	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Sturgeon Creek	4E-07	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Kawkawlin River	4E-07	5E-04	0E+00		5E-04
Methylmercury - Developmental Effects	Chippewa River (most inclusive data)	4E-07	2E-05	0E+00		2E-05

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tittabawassee River (plus Sanford Lake)	1E-07	9E-06	0E+00		9E-06
Methylmercury - Neurological Effects	Sturgeon Creek	1E-07	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Kawkawlin River	1E-07	2E-04	0E+00		2E-04
Methylmercury - Neurological Effects	Chippewa River (most inclusive data)	1E-07	7E-06	0E+00		8E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tittabawassee River (plus Sanford Lake)	1E-09	2E-07	0E+00	8E-10	2E-07
2,3,7,8-TCDD-TEQ	Sturgeon Creek	1E-09	6E-07	0E+00	8E-10	6E-07
2,3,7,8-TCDD-TEQ	Kawkawlin River	1E-09	2E-06	0E+00	8E-10	2E-06
2,3,7,8-TCDD-TEQ	Chippewa River (most inclusive data)	1E-09	8E-08	0E+00	8E-10	8E-08
Nickel	Tittabawassee River (plus Sanford Lake)				6E-11	
Nickel	Sturgeon Creek				6E-11	
Nickel	Kawkawlin River				6E-11	
Nickel	Chippewa River (most inclusive data)				6E-11	
Arsenic	Tittabawassee River (plus Sanford Lake)	3E-11	5E-12	0E+00	6E-10	4E-11
Arsenic	Sturgeon Creek	3E-11	1E-11	0E+00	6E-10	5E-11
Arsenic	Kawkawlin River	3E-11	6E-11	0E+00	6E-10	1E-10
Arsenic	Chippewa River (most inclusive data)	3E-11	2E-12	0E+00	6E-10	3E-11
Beryllium	Tittabawassee River (plus Sanford Lake)				3E-10	
Beryllium	Sturgeon Creek				3E-10	
Beryllium	Kawkawlin River				3E-10	
Beryllium	Chippewa River (most inclusive data)				3E-10	
Cadmium	Tittabawassee River (plus Sanford Lake)				2E-09	
Cadmium	Sturgeon Creek				2E-09	
Cadmium	Kawkawlin River				2E-09	
Cadmium	Chippewa River (most inclusive data)				2E-09	
Chromium VI	Tittabawassee River (plus Sanford Lake)				5E-08	
Chromium VI	Sturgeon Creek				5E-08	
Chromium VI	Kawkawlin River				5E-08	
Chromium VI	Chippewa River (most inclusive data)				5E-08	
	Noncarcinogenic Chemicals					
Manganese	Tittabawassee River (plus Sanford Lake)	5E-08	0E+00	0E+00	5E-04	5E-08
Manganese	Sturgeon Creek	5E-08	0E+00	0E+00	5E-04	5E-08
Manganese	Kawkawlin River	5E-08	0E+00	0E+00	5E-04	5E-08
Manganese	Chippewa River (most inclusive data)	5E-08	0E+00	0E+00	5E-04	5E-08
Mercury (elemental)	Tittabawassee River (plus Sanford Lake)				1E-04	
Mercury (elemental)	Sturgeon Creek				1E-04	
Mercury (elemental)	Kawkawlin River				1E-04	
Mercury (elemental)	Chippewa River (most inclusive data)				1E-04	
Mercury (divalent)	Tittabawassee River (plus Sanford Lake)	3E-06		0E+00		3E-06
Mercury (divalent)	Sturgeon Creek	3E-06		0E+00		3E-06
Mercury (divalent)	Kawkawlin River	3E-06		0E+00		3E-06
Mercury (divalent)	Chippewa River (most inclusive data)	3E-06		0E+00		3E-06
Nickel	Tittabawassee River (plus Sanford Lake)	1E-08	5E-10	0E+00		1E-08
Nickel	Sturgeon Creek	1E-08	2E-09	0E+00		1E-08
Nickel	Kawkawlin River	1E-08	7E-09	0E+00		2E-08
Nickel	Chippewa River (most inclusive data)	1E-08	2E-10	0E+00		1E-08
Silver	Tittabawassee River (plus Sanford Lake)	9E-10	0E+00	0E+00		9E-10
Silver	Sturgeon Creek	9E-10	0E+00	0E+00		9E-10
Silver	Kawkawlin River	9E-10	0E+00	0E+00		9E-10
Silver	Chippewa River (most inclusive data)	9E-10	0E+00	0E+00		9E-10
Thallium	Tittabawassee River (plus Sanford Lake)	2E-06	2E-06	0E+00		4E-06
Thallium	Sturgeon Creek	2E-06	7E-06	0E+00		9E-06
Thallium	Kawkawlin River	2E-06	3E-05	0E+00		3E-05
Thallium	Chippewa River (most inclusive data)	2E-06	1E-06	0E+00		3E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tittabawassee River (plus Sanford Lake)	1E-07	0E+00	0E+00		1E-07
Antimony	Sturgeon Creek	1E-07	0E+00	0E+00		1E-07
Antimony	Kawkawlin River	1E-07	0E+00	0E+00		1E-07
Antimony	Chippewa River (most inclusive data)	1E-07	0E+00	0E+00		1E-07
Arsenic	Tittabawassee River (plus Sanford Lake)	6E-07	8E-08	0E+00		6E-07
Arsenic	Sturgeon Creek	6E-07	3E-07	0E+00		8E-07
Arsenic	Kawkawlin River	6E-07	1E-06	0E+00		2E-06
Arsenic	Chippewa River (most inclusive data)	6E-07	4E-08	0E+00		6E-07
Barium	Tittabawassee River (plus Sanford Lake)	1E-07	0E+00	0E+00	7E-06	1E-07
Barium	Sturgeon Creek	1E-07	0E+00	0E+00	7E-06	1E-07
Barium	Kawkawlin River	1E-07	0E+00	0E+00	7E-06	1E-07
Barium	Chippewa River (most inclusive data)	1E-07	0E+00	0E+00	7E-06	1E-07
Beryllium	Tittabawassee River (plus Sanford Lake)	1E-06	5E-08	0E+00		1E-06
Beryllium	Sturgeon Creek	1E-06	1E-07	0E+00		1E-06
Beryllium	Kawkawlin River	1E-06	6E-07	0E+00		2E-06
Beryllium	Chippewa River (most inclusive data)	1E-06	2E-08	0E+00		1E-06
Cadmium	Tittabawassee River (plus Sanford Lake)	5E-06	1E-05	0E+00		2E-05
Cadmium	Sturgeon Creek	5E-06	3E-05	0E+00		4E-05
Cadmium	Kawkawlin River	5E-06	1E-04	0E+00		1E-04
Cadmium	Chippewa River (most inclusive data)	5E-06	4E-06	0E+00		1E-05
Chromium VI	Tittabawassee River (plus Sanford Lake)	6E-07	2E-08	0E+00		7E-07
Chromium VI	Sturgeon Creek	6E-07	8E-08	0E+00		7E-07
Chromium VI	Kawkawlin River	6E-07	3E-07	0E+00		1E-06
Chromium VI	Chippewa River (most inclusive data)	6E-07	1E-08	0E+00		7E-07
Chromium III	Tittabawassee River (plus Sanford Lake)	5E-08	6E-11	0E+00		5E-08
Chromium III	Sturgeon Creek	5E-08	2E-10	0E+00		5E-08
Chromium III	Kawkawlin River	5E-08	8E-10	0E+00		5E-08
Chromium III	Chippewa River (most inclusive data)	5E-08	2E-11	0E+00		5E-08
Cobalt	Tittabawassee River (plus Sanford Lake)	1E-08	0E+00	0E+00		1E-08
Cobalt	Sturgeon Creek	1E-08	0E+00	0E+00		1E-08
Cobalt	Kawkawlin River	1E-08	0E+00	0E+00		1E-08
Cobalt	Chippewa River (most inclusive data)	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Tittabawassee River (plus Sanford Lake)				2E-03	
Hydrogen Chloride	Sturgeon Creek				2E-03	
Hydrogen Chloride	Kawkawlin River				2E-03	
Hydrogen Chloride	Chippewa River (most inclusive data)				2E-03	
Selenium	Tittabawassee River (plus Sanford Lake)	4E-09	1E-06	0E+00		1E-06
Selenium	Sturgeon Creek	4E-09	4E-06	0E+00		4E-06
Selenium	Kawkawlin River	4E-09	2E-05	0E+00		2E-05
Selenium	Chippewa River (most inclusive data)	4E-09	5E-07	0E+00		5E-07
Chlorine	Tittabawassee River (plus Sanford Lake)				8E-03	
Chlorine	Sturgeon Creek				8E-03	
Chlorine	Kawkawlin River				8E-03	
Chlorine	Chippewa River (most inclusive data)				8E-03	
Methylmercury - Developmental Effects	Tittabawassee River (plus Sanford Lake)	2E-07	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Sturgeon Creek	2E-07	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Kawkawlin River	2E-07	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Chippewa River (most inclusive data)	2E-07	2E-05	0E+00		2E-05

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tittabawassee River (plus Sanford Lake)	6E-08	7E-06	0E+00		7E-06
Methylmercury - Neurological Effects	Sturgeon Creek	6E-08	3E-05	0E+00		3E-05
Methylmercury - Neurological Effects	Kawkawlin River	6E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Chippewa River (most inclusive data)	6E-08	5E-06	0E+00		5E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Tittabawassee River (plus Sanford Lake)	1E-09	3E-07	0E+00	1E-09	3E-07
2,3,7,8-TCDD-TEQ	Sturgeon Creek	1E-09	1E-06	0E+00	1E-09	1E-06
2,3,7,8-TCDD-TEQ	Kawkawlin River	1E-09	4E-06	0E+00	1E-09	4E-06
2,3,7,8-TCDD-TEQ	Chippewa River (most inclusive data)	1E-09	2E-07	0E+00	1E-09	2E-07
Nickel	Tittabawassee River (plus Sanford Lake)				8E-11	
Nickel	Sturgeon Creek				8E-11	
Nickel	Kawkawlin River				8E-11	
Nickel	Chippewa River (most inclusive data)				8E-11	
Arsenic	Tittabawassee River (plus Sanford Lake)	2E-11	9E-12	0E+00	9E-10	3E-11
Arsenic	Sturgeon Creek	2E-11	3E-11	0E+00	9E-10	5E-11
Arsenic	Kawkawlin River	2E-11	1E-10	0E+00	9E-10	1E-10
Arsenic	Chippewa River (most inclusive data)	2E-11	4E-12	0E+00	9E-10	3E-11
Beryllium	Tittabawassee River (plus Sanford Lake)				5E-10	
Beryllium	Sturgeon Creek				5E-10	
Beryllium	Kawkawlin River				5E-10	
Beryllium	Chippewa River (most inclusive data)				5E-10	
Cadmium	Tittabawassee River (plus Sanford Lake)				3E-09	
Cadmium	Sturgeon Creek				3E-09	
Cadmium	Kawkawlin River				3E-09	
Cadmium	Chippewa River (most inclusive data)				3E-09	
Chromium VI	Tittabawassee River (plus Sanford Lake)				7E-08	
Chromium VI	Sturgeon Creek				7E-08	
Chromium VI	Kawkawlin River				7E-08	
Chromium VI	Chippewa River (most inclusive data)				7E-08	
	Noncarcinogenic Chemicals					
Manganese	Tittabawassee River (plus Sanford Lake)	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Sturgeon Creek	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Kawkawlin River	2E-08	0E+00	0E+00	5E-04	2E-08
Manganese	Chippewa River (most inclusive data)	2E-08	0E+00	0E+00	5E-04	2E-08
Mercury (elemental)	Tittabawassee River (plus Sanford Lake)				1E-04	
Mercury (elemental)	Sturgeon Creek				1E-04	
Mercury (elemental)	Kawkawlin River				1E-04	
Mercury (elemental)	Chippewa River (most inclusive data)				1E-04	
Mercury (divalent)	Tittabawassee River (plus Sanford Lake)	1E-06		0E+00		1E-06
Mercury (divalent)	Sturgeon Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Kawkawlin River	1E-06		0E+00		1E-06
Mercury (divalent)	Chippewa River (most inclusive data)	1E-06		0E+00		1E-06
Nickel	Tittabawassee River (plus Sanford Lake)	4E-09	5E-10	0E+00		5E-09
Nickel	Sturgeon Creek	4E-09	2E-09	0E+00		6E-09
Nickel	Kawkawlin River	4E-09	7E-09	0E+00		1E-08
Nickel	Chippewa River (most inclusive data)	4E-09	2E-10	0E+00		4E-09
Silver	Tittabawassee River (plus Sanford Lake)	4E-10	0E+00	0E+00		4E-10
Silver	Sturgeon Creek	4E-10	0E+00	0E+00		4E-10
Silver	Kawkawlin River	4E-10	0E+00	0E+00		4E-10
Silver	Chippewa River (most inclusive data)	4E-10	0E+00	0E+00		4E-10
Thallium	Tittabawassee River (plus Sanford Lake)	8E-07	2E-06	0E+00		3E-06
Thallium	Sturgeon Creek	8E-07	7E-06	0E+00		8E-06
Thallium	Kawkawlin River	8E-07	3E-05	0E+00		3E-05
Thallium	Chippewa River (most inclusive data)	8E-07	1E-06	0E+00		2E-06

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Tittabawassee River (plus Sanford Lake)	5E-08	0E+00	0E+00		5E-08
Antimony	Sturgeon Creek	5E-08	0E+00	0E+00		5E-08
Antimony	Kawkawlin River	5E-08	0E+00	0E+00		5E-08
Antimony	Chippewa River (most inclusive data)	5E-08	0E+00	0E+00		5E-08
Arsenic	Tittabawassee River (plus Sanford Lake)	2E-07	8E-08	0E+00		3E-07
Arsenic	Sturgeon Creek	2E-07	3E-07	0E+00		5E-07
Arsenic	Kawkawlin River	2E-07	1E-06	0E+00		1E-06
Arsenic	Chippewa River (most inclusive data)	2E-07	4E-08	0E+00		3E-07
Barium	Tittabawassee River (plus Sanford Lake)	4E-08	0E+00	0E+00	7E-06	4E-08
Barium	Sturgeon Creek	4E-08	0E+00	0E+00	7E-06	4E-08
Barium	Kawkawlin River	4E-08	0E+00	0E+00	7E-06	4E-08
Barium	Chippewa River (most inclusive data)	4E-08	0E+00	0E+00	7E-06	4E-08
Beryllium	Tittabawassee River (plus Sanford Lake)	5E-07	5E-08	0E+00		5E-07
Beryllium	Sturgeon Creek	5E-07	1E-07	0E+00		6E-07
Beryllium	Kawkawlin River	5E-07	6E-07	0E+00		1E-06
Beryllium	Chippewa River (most inclusive data)	5E-07	2E-08	0E+00		5E-07
Cadmium	Tittabawassee River (plus Sanford Lake)	2E-06	1E-05	0E+00		1E-05
Cadmium	Sturgeon Creek	2E-06	3E-05	0E+00		3E-05
Cadmium	Kawkawlin River	2E-06	1E-04	0E+00		1E-04
Cadmium	Chippewa River (most inclusive data)	2E-06	4E-06	0E+00		7E-06
Chromium VI	Tittabawassee River (plus Sanford Lake)	3E-07	2E-08	0E+00		3E-07
Chromium VI	Sturgeon Creek	3E-07	8E-08	0E+00		3E-07
Chromium VI	Kawkawlin River	3E-07	3E-07	0E+00		6E-07
Chromium VI	Chippewa River (most inclusive data)	3E-07	1E-08	0E+00		3E-07
Chromium III	Tittabawassee River (plus Sanford Lake)	2E-08	6E-11	0E+00		2E-08
Chromium III	Sturgeon Creek	2E-08	2E-10	0E+00		2E-08
Chromium III	Kawkawlin River	2E-08	8E-10	0E+00		2E-08
Chromium III	Chippewa River (most inclusive data)	2E-08	2E-11	0E+00		2E-08
Cobalt	Tittabawassee River (plus Sanford Lake)	6E-09	0E+00	0E+00		6E-09
Cobalt	Sturgeon Creek	6E-09	0E+00	0E+00		6E-09
Cobalt	Kawkawlin River	6E-09	0E+00	0E+00		6E-09
Cobalt	Chippewa River (most inclusive data)	6E-09	0E+00	0E+00		6E-09
Hydrogen Chloride	Tittabawassee River (plus Sanford Lake)				2E-03	
Hydrogen Chloride	Sturgeon Creek				2E-03	
Hydrogen Chloride	Kawkawlin River				2E-03	
Hydrogen Chloride	Chippewa River (most inclusive data)				2E-03	
Selenium	Tittabawassee River (plus Sanford Lake)	2E-09	1E-06	0E+00		1E-06
Selenium	Sturgeon Creek	2E-09	4E-06	0E+00		4E-06
Selenium	Kawkawlin River	2E-09	2E-05	0E+00		2E-05
Selenium	Chippewa River (most inclusive data)	2E-09	5E-07	0E+00		5E-07
Chlorine	Tittabawassee River (plus Sanford Lake)				8E-03	
Chlorine	Sturgeon Creek				8E-03	
Chlorine	Kawkawlin River				8E-03	
Chlorine	Chippewa River (most inclusive data)				8E-03	
Methylmercury - Developmental Effects	Tittabawassee River (plus Sanford Lake)	8E-08	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Sturgeon Creek	8E-08	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Kawkawlin River	8E-08	4E-04	0E+00		4E-04
Methylmercury - Developmental Effects	Chippewa River (most inclusive data)	8E-08	2E-05	0E+00		2E-05

Table IX-D34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 353, 354) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Tittabawassee River (plus Sanford Lake)	3E-08	7E-06	0E+00		7E-06
Methylmercury - Neurological Effects	Sturgeon Creek	3E-08	3E-05	0E+00		3E-05
Methylmercury - Neurological Effects	Kawkawlin River	3E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Chippewa River (most inclusive data)	3E-08	5E-06	0E+00		5E-06

Table IX-D35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	6E-11	5E-11	1E-10	3E-08	3E-07	3E-09	2E-08	1E-08	9E-09	4E-15	2E-10	4E-07
Nickel												6E-09	
Arsenic	2E-09	8E-10	4E-10	2E-09	4E-09	7E-09	3E-10			1E-08	3E-12	5E-08	3E-08
Beryllium												3E-10	
Cadmium												4E-08	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	9E-08	1E-07	7E-08	3E-07	4E-08	2E-06	3E-09			0E+00	6E-11	6E-04	2E-06
Mercury (elemental)												8E-05	
Mercury (divalent)	NA	2E-04	4E-04	5E-04	2E-03	2E-02	8E-06				1E-07		2E-02
Nickel	1E-06	6E-07	3E-07	1E-06	1E-05	1E-04	8E-07			2E-06	2E-09		2E-04
Silver	2E-09	2E-08	5E-09	5E-08	3E-07	1E-04	1E-08			0E+00	1E-10		1E-04
Thallium	1E-07	1E-08	9E-10	4E-08	4E-06	1E-05	4E-07			5E-06	9E-11		2E-05
Antimony	4E-06	2E-05	4E-06	4E-05	5E-05	3E-04	2E-06			0E+00	9E-08		4E-04
Arsenic	5E-05	2E-05	1E-05	5E-05	1E-04	2E-04	8E-06			3E-04	8E-08		7E-04
Barium	6E-07	6E-08	2E-08	1E-07	3E-08	3E-06	4E-09			0E+00	1E-11	2E-05	4E-06
Beryllium	2E-06	3E-08	6E-09	7E-08	3E-07	1E-08	1E-07			9E-08	6E-11		3E-06
Cadmium	1E-04	1E-04	7E-05	3E-04	1E-05	4E-05	2E-06			5E-03	8E-08		6E-03
Chromium VI	4E-07	1E-07	5E-08	3E-07	4E-06	7E-05	3E-07			7E-07	9E-10		8E-05
Chromium III	2E-07	2E-09	1E-09	4E-09	1E-07	1E-06	5E-08			9E-12	1E-14		2E-06
Cobalt	2E-08	6E-09	3E-11	1E-08	5E-07	3E-06	4E-08			0E+00	2E-11		3E-06
Hydrogen Chloride												5E-04	
Selenium	1E-08	6E-09	8E-09	2E-08	1E-07	1E-05	5E-07			2E-04	9E-11		2E-04
Chlorine												3E-03	
Methylmercury - Developmental Effects	2E-04	7E-05	5E-05	7E-05	3E-04	3E-03	5E-07			2E-01	3E-09		2E-01
Methylmercury - Neurological Effects	7E-05	2E-05	2E-05	2E-05	9E-05	1E-03	2E-07			6E-02	9E-10		6E-02

Table IX-D35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	5E-11	5E-11	2E-10	5E-08	2E-07	3E-09	2E-08	2E-08	1E-08	3E-15	3E-10	3E-07
Nickel												7E-09	
Arsenic	7E-10	6E-10	4E-10	2E-09	6E-09	5E-09	3E-10			1E-08	2E-12	6E-08	3E-08
Beryllium												4E-10	
Cadmium												4E-08	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	7E-08	5E-08	3E-07	4E-08	9E-07	2E-09			0E+00	4E-11	6E-04	1E-06
Mercury (elemental)												8E-05	
Mercury (divalent)	NA	1E-04	3E-04	5E-04	3E-03	9E-03	5E-06				5E-08		1E-02
Nickel	3E-07	3E-07	2E-07	1E-06	2E-05	7E-05	5E-07			2E-06	1E-09		9E-05
Silver	4E-10	1E-08	4E-09	5E-08	4E-07	7E-05	7E-09			0E+00	7E-11		7E-05
Thallium	4E-08	7E-09	6E-10	3E-08	4E-06	5E-06	2E-07			4E-06	5E-11		1E-05
Antimony	1E-06	9E-06	3E-06	3E-05	6E-05	1E-04	1E-06			0E+00	5E-08		2E-04
Arsenic	1E-05	1E-05	7E-06	4E-05	1E-04	8E-05	5E-06			2E-04	5E-08		5E-04
Barium	2E-07	3E-08	1E-08	1E-07	3E-08	2E-06	3E-09			0E+00	6E-12	2E-05	2E-06
Beryllium	6E-07	2E-08	4E-09	7E-08	4E-07	6E-09	7E-08			6E-08	3E-11		1E-06
Cadmium	3E-05	8E-05	5E-05	3E-04	1E-05	2E-05	1E-06			4E-03	4E-08		4E-03
Chromium VI	1E-07	7E-08	4E-08	3E-07	5E-06	4E-05	2E-07			5E-07	5E-10		4E-05
Chromium III	5E-08	1E-09	9E-10	4E-09	1E-07	7E-07	3E-08			6E-12	8E-15		1E-06
Cobalt	6E-09	3E-09	2E-11	1E-08	6E-07	1E-06	2E-08			0E+00	1E-11		2E-06
Hydrogen Chloride												5E-04	
Selenium	3E-09	4E-09	6E-09	2E-08	1E-07	5E-06	3E-07			1E-04	5E-11		1E-04
Chlorine												3E-03	
Methylmercury - Developmental Effects	6E-05	4E-05	4E-05	7E-05	3E-04	2E-03	3E-07			1E-01	1E-09		1E-01
Methylmercury - Neurological Effects	2E-05	1E-05	1E-05	2E-05	1E-04	5E-04	1E-07			4E-02	5E-10		4E-02

Table IX-D35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	4E-11	3E-11	9E-11	2E-08	1E-07	2E-09	1E-08	8E-09	5E-09	2E-15	2E-10	2E-07
Nickel												4E-09	
Arsenic	4E-10	5E-10	3E-10	1E-09	3E-09	2E-09	2E-10			7E-09	2E-12	4E-08	1E-08
Beryllium												2E-10	
Cadmium												3E-08	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	6E-08	4E-08	1E-07	2E-08	4E-07	1E-09			0E+00	2E-11	6E-04	7E-07
Mercury (elemental)												8E-05	
Mercury (divalent)	5E-04	1E-04	2E-04	2E-04	1E-03	4E-03	3E-06			0E+00	3E-08		6E-03
Nickel	2E-07	3E-07	1E-07	7E-07	8E-06	3E-05	3E-07			9E-07	9E-10		4E-05
Silver	2E-10	9E-09	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00	5E-11		3E-05
Thallium	2E-08	5E-09	4E-10	2E-08	2E-06	2E-06	1E-07			2E-06	3E-11		7E-06
Antimony	6E-07	7E-06	2E-06	2E-05	3E-05	6E-05	8E-07			0E+00	3E-08		1E-04
Arsenic	7E-06	9E-06	5E-06	2E-05	5E-05	4E-05	3E-06			1E-04	3E-08		3E-04
Barium	8E-08	3E-08	8E-09	6E-08	1E-08	8E-07	2E-09			0E+00	4E-12	2E-05	1E-06
Beryllium	3E-07	1E-08	3E-09	3E-08	2E-07	3E-09	4E-08			3E-08	2E-11		6E-07
Cadmium	1E-05	6E-05	3E-05	1E-04	6E-06	9E-06	7E-07			2E-03	3E-08		2E-03
Chromium VI	5E-08	5E-08	3E-08	2E-07	2E-06	2E-05	1E-07			3E-07	3E-10		2E-05
Chromium III	2E-08	7E-10	6E-10	2E-09	7E-08	3E-07	2E-08			3E-12	5E-15		5E-07
Cobalt	3E-09	3E-09	2E-11	7E-09	3E-07	6E-07	1E-08			0E+00	9E-12		9E-07
Hydrogen Chloride												5E-04	
Selenium	2E-09	3E-09	4E-09	9E-09	6E-08	2E-06	2E-07			7E-05	3E-11		7E-05
Chlorine												3E-03	
Methylmercury - Developmental Effects	3E-05	3E-05	3E-05	4E-05	1E-04	7E-04	2E-07			7E-02	9E-10		7E-02
Methylmercury - Neurological Effects	1E-05	1E-05	9E-06	1E-05	5E-05	2E-04	7E-08			2E-02	3E-10		2E-02

Table IX-D35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	9E-11	6E-11	2E-10	5E-08	8E-08	3E-09	2E-08	1E-08	1E-08	4E-15	3E-10	2E-07
Nickel												6E-09	
Arsenic	3E-10	1E-09	5E-10	2E-09	6E-09	2E-09	3E-10			1E-08	4E-12	6E-08	3E-08
Beryllium												3E-10	
Cadmium												4E-08	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-09	8E-08	4E-08	1E-07	2E-08	2E-07	1E-09			0E+00	3E-11	6E-04	5E-07
Mercury (elemental)												8E-05	
Mercury (divalent)	2E-04	1E-04	2E-04	2E-04	1E-03	2E-03	3E-06			0E+00	4E-08		4E-03
Nickel	6E-08	4E-07	1E-07	7E-07	9E-06	1E-05	3E-07			1E-06	1E-09		3E-05
Silver	9E-11	1E-08	3E-09	3E-08	2E-07	1E-05	4E-09			0E+00	5E-11		1E-05
Thallium	8E-09	7E-09	5E-10	2E-08	2E-06	1E-06	1E-07			2E-06	4E-11		6E-06
Antimony	2E-07	9E-06	2E-06	2E-05	3E-05	3E-05	7E-07			0E+00	4E-08		9E-05
Arsenic	3E-06	1E-05	6E-06	2E-05	6E-05	2E-05	3E-06			1E-04	3E-08		3E-04
Barium	3E-08	3E-08	9E-09	6E-08	2E-08	3E-07	1E-09			0E+00	5E-12	2E-05	5E-07
Beryllium	1E-07	2E-08	4E-09	3E-08	2E-07	1E-09	4E-08			4E-08	3E-11		4E-07
Cadmium	6E-06	8E-05	4E-05	1E-04	6E-06	4E-06	6E-07			2E-03	3E-08		3E-03
Chromium VI	2E-08	7E-08	3E-08	2E-07	3E-06	7E-06	9E-08			3E-07	4E-10		1E-05
Chromium III	1E-08	1E-09	7E-10	2E-09	8E-08	1E-07	2E-08			4E-12	6E-15		3E-07
Cobalt	1E-09	3E-09	2E-11	7E-09	3E-07	3E-07	1E-08			0E+00	1E-11		6E-07
Hydrogen Chloride												5E-04	
Selenium	7E-10	4E-09	5E-09	8E-09	7E-08	1E-06	2E-07			7E-05	4E-11		8E-05
Chlorine												3E-03	
Methylmercury - Developmental Effects	1E-05	4E-05	3E-05	3E-05	2E-04	3E-04	2E-07			8E-02	1E-09		8E-02
Methylmercury - Neurological Effects	4E-06	1E-05	1E-05	1E-05	5E-05	1E-04	6E-08			3E-02	4E-10		3E-02

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-09	8E-12	4E-15	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Bayou Plaquemine	1E-09	1E-09	4E-15	2E-10	2E-09
2,3,7,8-TCDD-TEQ	Manchac Bayou	1E-09	1E-08	4E-15	2E-10	2E-08
2,3,7,8-TCDD-TEQ	Bayou Fountain	1E-09	4E-09	4E-15	2E-10	5E-09
Nickel	Mississippi River				6E-09	
Nickel	Bayou Plaquemine				6E-09	
Nickel	Manchac Bayou				6E-09	
Nickel	Bayou Fountain				6E-09	
Arsenic	Mississippi River	2E-09	3E-13	3E-12	5E-08	2E-09
Arsenic	Bayou Plaquemine	2E-09	1E-10	3E-12	5E-08	2E-09
Arsenic	Manchac Bayou	2E-09	2E-09	3E-12	5E-08	4E-09
Arsenic	Bayou Fountain	2E-09	4E-10	3E-12	5E-08	2E-09
Beryllium	Mississippi River				3E-10	
Beryllium	Bayou Plaquemine				3E-10	
Beryllium	Manchac Bayou				3E-10	
Beryllium	Bayou Fountain				3E-10	
Cadmium	Mississippi River				4E-08	
Cadmium	Bayou Plaquemine				4E-08	
Cadmium	Manchac Bayou				4E-08	
Cadmium	Bayou Fountain				4E-08	
Chromium VI	Mississippi River				3E-08	
Chromium VI	Bayou Plaquemine				3E-08	
Chromium VI	Manchac Bayou				3E-08	
Chromium VI	Bayou Fountain				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	9E-08	0E+00	6E-11	6E-04	9E-08
Manganese	Bayou Plaquemine	9E-08	0E+00	6E-11	6E-04	9E-08
Manganese	Manchac Bayou	9E-08	0E+00	6E-11	6E-04	9E-08
Manganese	Bayou Fountain	9E-08	0E+00	6E-11	6E-04	9E-08
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Bayou Plaquemine				8E-05	
Mercury (elemental)	Manchac Bayou				8E-05	
Mercury (elemental)	Bayou Fountain				8E-05	
Mercury (divalent)	Mississippi River	4E-03		1E-07		4E-03
Mercury (divalent)	Bayou Plaquemine	4E-03		1E-07		4E-03
Mercury (divalent)	Manchac Bayou	4E-03		1E-07		4E-03
Mercury (divalent)	Bayou Fountain	4E-03		1E-07		4E-03
Nickel	Mississippi River	1E-06	6E-11	2E-09		1E-06
Nickel	Bayou Plaquemine	1E-06	2E-08	2E-09		1E-06
Nickel	Manchac Bayou	1E-06	3E-07	2E-09		1E-06
Nickel	Bayou Fountain	1E-06	6E-08	2E-09		1E-06
Silver	Mississippi River	2E-09	0E+00	1E-10		2E-09
Silver	Bayou Plaquemine	2E-09	0E+00	1E-10		2E-09
Silver	Manchac Bayou	2E-09	0E+00	1E-10		2E-09
Silver	Bayou Fountain	2E-09	0E+00	1E-10		2E-09
Thallium	Mississippi River	1E-07	2E-10	9E-11		1E-07
Thallium	Bayou Plaquemine	1E-07	7E-08	9E-11		2E-07
Thallium	Manchac Bayou	1E-07	1E-06	9E-11		1E-06
Thallium	Bayou Fountain	1E-07	2E-07	9E-11		4E-07

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	4E-06	0E+00	9E-08		4E-06
Antimony	Bayou Plaquemine	4E-06	0E+00	9E-08		4E-06
Antimony	Manchac Bayou	4E-06	0E+00	9E-08		4E-06
Antimony	Bayou Fountain	4E-06	0E+00	9E-08		4E-06
Arsenic	Mississippi River	5E-05	8E-09	8E-08		5E-05
Arsenic	Bayou Plaquemine	5E-05	3E-06	8E-08		5E-05
Arsenic	Manchac Bayou	5E-05	5E-05	8E-08		1E-04
Arsenic	Bayou Fountain	5E-05	9E-06	8E-08		6E-05
Barium	Mississippi River	6E-07	0E+00	1E-11	2E-05	6E-07
Barium	Bayou Plaquemine	6E-07	0E+00	1E-11	2E-05	6E-07
Barium	Manchac Bayou	6E-07	0E+00	1E-11	2E-05	6E-07
Barium	Bayou Fountain	6E-07	0E+00	1E-11	2E-05	6E-07
Beryllium	Mississippi River	2E-06	6E-11	6E-11		2E-06
Beryllium	Bayou Plaquemine	2E-06	1E-08	6E-11		2E-06
Beryllium	Manchac Bayou	2E-06	2E-07	6E-11		3E-06
Beryllium	Bayou Fountain	2E-06	5E-08	6E-11		2E-06
Cadmium	Mississippi River	1E-04	2E-07	8E-08		1E-04
Cadmium	Bayou Plaquemine	1E-04	9E-05	8E-08		2E-04
Cadmium	Manchac Bayou	1E-04	1E-03	8E-08		1E-03
Cadmium	Bayou Fountain	1E-04	2E-04	8E-08		3E-04
Chromium VI	Mississippi River	4E-07	2E-11	9E-10		4E-07
Chromium VI	Bayou Plaquemine	4E-07	6E-09	9E-10		4E-07
Chromium VI	Manchac Bayou	4E-07	9E-08	9E-10		5E-07
Chromium VI	Bayou Fountain	4E-07	2E-08	9E-10		4E-07
Chromium III	Mississippi River	2E-07	1E-13	1E-14		2E-07
Chromium III	Bayou Plaquemine	2E-07	3E-11	1E-14		2E-07
Chromium III	Manchac Bayou	2E-07	3E-10	1E-14		2E-07
Chromium III	Bayou Fountain	2E-07	1E-10	1E-14		2E-07
Cobalt	Mississippi River	2E-08	0E+00	1E-14		2E-08
Cobalt	Bayou Plaquemine	2E-08	0E+00	1E-14		2E-08
Cobalt	Manchac Bayou	2E-08	0E+00	1E-14		2E-08
Cobalt	Bayou Fountain	2E-08	0E+00	1E-14		2E-08
Hydrogen Chloride	Mississippi River				5E-04	
Hydrogen Chloride	Bayou Plaquemine				5E-04	
Hydrogen Chloride	Manchac Bayou				5E-04	
Hydrogen Chloride	Bayou Fountain				5E-04	
Selenium	Mississippi River	1E-08	4E-09	9E-11		2E-08
Selenium	Bayou Plaquemine	1E-08	1E-06	9E-11		1E-06
Selenium	Manchac Bayou	1E-08	2E-05	9E-11		2E-05
Selenium	Bayou Fountain	1E-08	3E-06	9E-11		3E-06
Chlorine	Mississippi River				3E-03	
Chlorine	Bayou Plaquemine				3E-03	
Chlorine	Manchac Bayou				3E-03	
Chlorine	Bayou Fountain				3E-03	
Methylmercury - Developmental Effects	Mississippi River	2E-04	4E-04	3E-09		6E-04
Methylmercury - Developmental Effects	Bayou Plaquemine	2E-04	6E-02	3E-09		6E-02
Methylmercury - Developmental Effects	Manchac Bayou	2E-04	5E-01	3E-09		5E-01
Methylmercury - Developmental Effects	Bayou Fountain	2E-04	2E-01	3E-09		2E-01

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	7E-05	1E-04	9E-10		2E-04
Methylmercury - Neurological Effects	Bayou Plaquemine	7E-05	2E-02	9E-10		2E-02
Methylmercury - Neurological Effects	Manchac Bayou	7E-05	2E-01	9E-10		2E-01
Methylmercury - Neurological Effects	Bayou Fountain	7E-05	7E-02	9E-10		7E-02

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	4E-10	1E-11	3E-15	3E-10	4E-10
2,3,7,8-TCDD-TEQ	Bayou Plaquemine	4E-10	1E-09	3E-15	3E-10	2E-09
2,3,7,8-TCDD-TEQ	Manchac Bayou	4E-10	2E-08	3E-15	3E-10	2E-08
2,3,7,8-TCDD-TEQ	Bayou Fountain	4E-10	5E-09	3E-15	3E-10	6E-09
Nickel	Mississippi River				7E-09	
Nickel	Bayou Plaquemine				7E-09	
Nickel	Manchac Bayou				7E-09	
Nickel	Bayou Fountain				7E-09	
Arsenic	Mississippi River	7E-10	5E-13	2E-12	6E-08	7E-10
Arsenic	Bayou Plaquemine	7E-10	2E-10	2E-12	6E-08	9E-10
Arsenic	Manchac Bayou	7E-10	3E-09	2E-12	6E-08	3E-09
Arsenic	Bayou Fountain	7E-10	5E-10	2E-12	6E-08	1E-09
Beryllium	Mississippi River				4E-10	
Beryllium	Bayou Plaquemine				4E-10	
Beryllium	Manchac Bayou				4E-10	
Beryllium	Bayou Fountain				4E-10	
Cadmium	Mississippi River				4E-08	
Cadmium	Bayou Plaquemine				4E-08	
Cadmium	Manchac Bayou				4E-08	
Cadmium	Bayou Fountain				4E-08	
Chromium VI	Mississippi River				3E-08	
Chromium VI	Bayou Plaquemine				3E-08	
Chromium VI	Manchac Bayou				3E-08	
Chromium VI	Bayou Fountain				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-08	0E+00	4E-11	6E-04	2E-08
Manganese	Bayou Plaquemine	2E-08	0E+00	4E-11	6E-04	2E-08
Manganese	Manchac Bayou	2E-08	0E+00	4E-11	6E-04	2E-08
Manganese	Bayou Fountain	2E-08	0E+00	4E-11	6E-04	2E-08
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Bayou Plaquemine				8E-05	
Mercury (elemental)	Manchac Bayou				8E-05	
Mercury (elemental)	Bayou Fountain				8E-05	
Mercury (divalent)	Mississippi River	9E-04		5E-08		9E-04
Mercury (divalent)	Bayou Plaquemine	9E-04		5E-08		9E-04
Mercury (divalent)	Manchac Bayou	9E-04		5E-08		9E-04
Mercury (divalent)	Bayou Fountain	9E-04		5E-08		9E-04
Nickel	Mississippi River	3E-07	6E-11	1E-09		3E-07
Nickel	Bayou Plaquemine	3E-07	2E-08	1E-09		3E-07
Nickel	Manchac Bayou	3E-07	3E-07	1E-09		6E-07
Nickel	Bayou Fountain	3E-07	6E-08	1E-09		4E-07
Silver	Mississippi River	4E-10	0E+00	7E-11		5E-10
Silver	Bayou Plaquemine	4E-10	0E+00	7E-11		5E-10
Silver	Manchac Bayou	4E-10	0E+00	7E-11		5E-10
Silver	Bayou Fountain	4E-10	0E+00	7E-11		5E-10
Thallium	Mississippi River	4E-08	2E-10	5E-11		4E-08
Thallium	Bayou Plaquemine	4E-08	7E-08	5E-11		1E-07
Thallium	Manchac Bayou	4E-08	1E-06	5E-11		1E-06
Thallium	Bayou Fountain	4E-08	2E-07	5E-11		2E-07

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-06	0E+00	5E-08		1E-06
Antimony	Bayou Plaquemine	1E-06	0E+00	5E-08		1E-06
Antimony	Manchac Bayou	1E-06	0E+00	5E-08		1E-06
Antimony	Bayou Fountain	1E-06	0E+00	5E-08		1E-06
Arsenic	Mississippi River	1E-05	8E-09	5E-08		1E-05
Arsenic	Bayou Plaquemine	1E-05	3E-06	5E-08		2E-05
Arsenic	Manchac Bayou	1E-05	5E-05	5E-08		6E-05
Arsenic	Bayou Fountain	1E-05	9E-06	5E-08		2E-05
Barium	Mississippi River	2E-07	0E+00	6E-12	2E-05	2E-07
Barium	Bayou Plaquemine	2E-07	0E+00	6E-12	2E-05	2E-07
Barium	Manchac Bayou	2E-07	0E+00	6E-12	2E-05	2E-07
Barium	Bayou Fountain	2E-07	0E+00	6E-12	2E-05	2E-07
Beryllium	Mississippi River	6E-07	6E-11	3E-11		6E-07
Beryllium	Bayou Plaquemine	6E-07	1E-08	3E-11		6E-07
Beryllium	Manchac Bayou	6E-07	2E-07	3E-11		8E-07
Beryllium	Bayou Fountain	6E-07	5E-08	3E-11		7E-07
Cadmium	Mississippi River	3E-05	2E-07	4E-08		3E-05
Cadmium	Bayou Plaquemine	3E-05	9E-05	4E-08		1E-04
Cadmium	Manchac Bayou	3E-05	1E-03	4E-08		1E-03
Cadmium	Bayou Fountain	3E-05	2E-04	4E-08		3E-04
Chromium VI	Mississippi River	1E-07	2E-11	5E-10		1E-07
Chromium VI	Bayou Plaquemine	1E-07	6E-09	5E-10		1E-07
Chromium VI	Manchac Bayou	1E-07	9E-08	5E-10		2E-07
Chromium VI	Bayou Fountain	1E-07	2E-08	5E-10		1E-07
Chromium III	Mississippi River	5E-08	1E-13	8E-15		5E-08
Chromium III	Bayou Plaquemine	5E-08	3E-11	8E-15		5E-08
Chromium III	Manchac Bayou	5E-08	3E-10	8E-15		5E-08
Chromium III	Bayou Fountain	5E-08	1E-10	8E-15		5E-08
Cobalt	Mississippi River	6E-09	0E+00	8E-15		6E-09
Cobalt	Bayou Plaquemine	6E-09	0E+00	8E-15		6E-09
Cobalt	Manchac Bayou	6E-09	0E+00	8E-15		6E-09
Cobalt	Bayou Fountain	6E-09	0E+00	8E-15		6E-09
Hydrogen Chloride	Mississippi River				5E-04	
Hydrogen Chloride	Bayou Plaquemine				5E-04	
Hydrogen Chloride	Manchac Bayou				5E-04	
Hydrogen Chloride	Bayou Fountain				5E-04	
Selenium	Mississippi River	3E-09	4E-09	5E-11		7E-09
Selenium	Bayou Plaquemine	3E-09	1E-06	5E-11		1E-06
Selenium	Manchac Bayou	3E-09	2E-05	5E-11		2E-05
Selenium	Bayou Fountain	3E-09	3E-06	5E-11		3E-06
Chlorine	Mississippi River				3E-03	
Chlorine	Bayou Plaquemine				3E-03	
Chlorine	Manchac Bayou				3E-03	
Chlorine	Bayou Fountain				3E-03	
Methylmercury - Developmental Effects	Mississippi River	6E-05	4E-04	1E-09		4E-04
Methylmercury - Developmental Effects	Bayou Plaquemine	6E-05	6E-02	1E-09		6E-02
Methylmercury - Developmental Effects	Manchac Bayou	6E-05	5E-01	1E-09		5E-01
Methylmercury - Developmental Effects	Bayou Fountain	6E-05	2E-01	1E-09		2E-01

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-05	1E-04	5E-10		1E-04
Methylmercury - Neurological Effects	Bayou Plaquemine	2E-05	2E-02	5E-10		2E-02
Methylmercury - Neurological Effects	Manchac Bayou	2E-05	2E-01	5E-10		2E-01
Methylmercury - Neurological Effects	Bayou Fountain	2E-05	7E-02	5E-10		7E-02

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-10	8E-12	2E-15	2E-10	2E-10
2,3,7,8-TCDD-TEQ	Bayou Plaquemine	2E-10	1E-09	2E-15	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Manchac Bayou	2E-10	1E-08	2E-15	2E-10	1E-08
2,3,7,8-TCDD-TEQ	Bayou Fountain	2E-10	4E-09	2E-15	2E-10	4E-09
Nickel	Mississippi River				4E-09	
Nickel	Bayou Plaquemine				4E-09	
Nickel	Manchac Bayou				4E-09	
Nickel	Bayou Fountain				4E-09	
Arsenic	Mississippi River	4E-10	3E-13	2E-12	4E-08	4E-10
Arsenic	Bayou Plaquemine	4E-10	1E-10	2E-12	4E-08	5E-10
Arsenic	Manchac Bayou	4E-10	2E-09	2E-12	4E-08	2E-09
Arsenic	Bayou Fountain	4E-10	4E-10	2E-12	4E-08	8E-10
Beryllium	Mississippi River				2E-10	
Beryllium	Bayou Plaquemine				2E-10	
Beryllium	Manchac Bayou				2E-10	
Beryllium	Bayou Fountain				2E-10	
Cadmium	Mississippi River				3E-08	
Cadmium	Bayou Plaquemine				3E-08	
Cadmium	Manchac Bayou				3E-08	
Cadmium	Bayou Fountain				3E-08	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Bayou Plaquemine				2E-08	
Chromium VI	Manchac Bayou				2E-08	
Chromium VI	Bayou Fountain				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	2E-11	6E-04	1E-08
Manganese	Bayou Plaquemine	1E-08	0E+00	2E-11	6E-04	1E-08
Manganese	Manchac Bayou	1E-08	0E+00	2E-11	6E-04	1E-08
Manganese	Bayou Fountain	1E-08	0E+00	2E-11	6E-04	1E-08
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Bayou Plaquemine				8E-05	
Mercury (elemental)	Manchac Bayou				8E-05	
Mercury (elemental)	Bayou Fountain				8E-05	
Mercury (divalent)	Mississippi River	5E-04		3E-08		5E-04
Mercury (divalent)	Bayou Plaquemine	5E-04		3E-08		5E-04
Mercury (divalent)	Manchac Bayou	5E-04		3E-08		5E-04
Mercury (divalent)	Bayou Fountain	5E-04		3E-08		5E-04
Nickel	Mississippi River	2E-07	4E-11	9E-10		2E-07
Nickel	Bayou Plaquemine	2E-07	2E-08	9E-10		2E-07
Nickel	Manchac Bayou	2E-07	2E-07	9E-10		4E-07
Nickel	Bayou Fountain	2E-07	5E-08	9E-10		2E-07
Silver	Mississippi River	2E-10	0E+00	5E-11		3E-10
Silver	Bayou Plaquemine	2E-10	0E+00	5E-11		3E-10
Silver	Manchac Bayou	2E-10	0E+00	5E-11		3E-10
Silver	Bayou Fountain	2E-10	0E+00	5E-11		3E-10
Thallium	Mississippi River	2E-08	1E-10	3E-11		2E-08
Thallium	Bayou Plaquemine	2E-08	5E-08	3E-11		7E-08
Thallium	Manchac Bayou	2E-08	8E-07	3E-11		8E-07
Thallium	Bayou Fountain	2E-08	2E-07	3E-11		2E-07

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	6E-07	0E+00	3E-08		6E-07
Antimony	Bayou Plaquemine	6E-07	0E+00	3E-08		6E-07
Antimony	Manchac Bayou	6E-07	0E+00	3E-08		6E-07
Antimony	Bayou Fountain	6E-07	0E+00	3E-08		6E-07
Arsenic	Mississippi River	7E-06	6E-09	3E-08		7E-06
Arsenic	Bayou Plaquemine	7E-06	2E-06	3E-08		9E-06
Arsenic	Manchac Bayou	7E-06	3E-05	3E-08		4E-05
Arsenic	Bayou Fountain	7E-06	6E-06	3E-08		1E-05
Barium	Mississippi River	8E-08	0E+00	4E-12	2E-05	8E-08
Barium	Bayou Plaquemine	8E-08	0E+00	4E-12	2E-05	8E-08
Barium	Manchac Bayou	8E-08	0E+00	4E-12	2E-05	8E-08
Barium	Bayou Fountain	8E-08	0E+00	4E-12	2E-05	8E-08
Beryllium	Mississippi River	3E-07	4E-11	2E-11		3E-07
Beryllium	Bayou Plaquemine	3E-07	9E-09	2E-11		3E-07
Beryllium	Manchac Bayou	3E-07	1E-07	2E-11		5E-07
Beryllium	Bayou Fountain	3E-07	3E-08	2E-11		4E-07
Cadmium	Mississippi River	1E-05	2E-07	3E-08		1E-05
Cadmium	Bayou Plaquemine	1E-05	6E-05	3E-08		8E-05
Cadmium	Manchac Bayou	1E-05	9E-04	3E-08		9E-04
Cadmium	Bayou Fountain	1E-05	2E-04	3E-08		2E-04
Chromium VI	Mississippi River	5E-08	1E-11	3E-10		5E-08
Chromium VI	Bayou Plaquemine	5E-08	4E-09	3E-10		6E-08
Chromium VI	Manchac Bayou	5E-08	6E-08	3E-10		1E-07
Chromium VI	Bayou Fountain	5E-08	1E-08	3E-10		7E-08
Chromium III	Mississippi River	2E-08	1E-13	5E-15		2E-08
Chromium III	Bayou Plaquemine	2E-08	2E-11	5E-15		2E-08
Chromium III	Manchac Bayou	2E-08	2E-10	5E-15		2E-08
Chromium III	Bayou Fountain	2E-08	8E-11	5E-15		2E-08
Cobalt	Mississippi River	3E-09	0E+00	9E-12		3E-09
Cobalt	Bayou Plaquemine	3E-09	0E+00	9E-12		3E-09
Cobalt	Manchac Bayou	3E-09	0E+00	9E-12		3E-09
Cobalt	Bayou Fountain	3E-09	0E+00	9E-12		3E-09
Hydrogen Chloride	Mississippi River				5E-04	
Hydrogen Chloride	Bayou Plaquemine				5E-04	
Hydrogen Chloride	Manchac Bayou				5E-04	
Hydrogen Chloride	Bayou Fountain				5E-04	
Selenium	Mississippi River	2E-09	3E-09	3E-11		4E-09
Selenium	Bayou Plaquemine	2E-09	9E-07	3E-11		9E-07
Selenium	Manchac Bayou	2E-09	1E-05	3E-11		1E-05
Selenium	Bayou Fountain	2E-09	2E-06	3E-11		2E-06
Chlorine	Mississippi River				3E-03	
Chlorine	Bayou Plaquemine				3E-03	
Chlorine	Manchac Bayou				3E-03	
Chlorine	Bayou Fountain				3E-03	
Methylmercury - Developmental Effects	Mississippi River	3E-05	3E-04	9E-10		3E-04
Methylmercury - Developmental Effects	Bayou Plaquemine	3E-05	4E-02	9E-10		4E-02
Methylmercury - Developmental Effects	Manchac Bayou	3E-05	4E-01	9E-10		4E-01
Methylmercury - Developmental Effects	Bayou Fountain	3E-05	1E-01	9E-10		1E-01

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	1E-05	9E-05	3E-10		1E-04
Methylmercury - Neurological Effects	Bayou Plaquemine	1E-05	1E-02	3E-10		1E-02
Methylmercury - Neurological Effects	Manchac Bayou	1E-05	1E-01	3E-10		1E-01
Methylmercury - Neurological Effects	Bayou Fountain	1E-05	5E-02	3E-10		5E-02

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-10	2E-11	4E-15	3E-10	2E-10
2,3,7,8-TCDD-TEQ	Bayou Plaquemine	2E-10	2E-09	4E-15	3E-10	2E-09
2,3,7,8-TCDD-TEQ	Manchac Bayou	2E-10	3E-08	4E-15	3E-10	3E-08
2,3,7,8-TCDD-TEQ	Bayou Fountain	2E-10	7E-09	4E-15	3E-10	7E-09
Nickel	Mississippi River				6E-09	
Nickel	Bayou Plaquemine				6E-09	
Nickel	Manchac Bayou				6E-09	
Nickel	Bayou Fountain				6E-09	
Arsenic	Mississippi River	3E-10	6E-13	4E-12	6E-08	3E-10
Arsenic	Bayou Plaquemine	3E-10	2E-10	4E-12	6E-08	6E-10
Arsenic	Manchac Bayou	3E-10	4E-09	4E-12	6E-08	4E-09
Arsenic	Bayou Fountain	3E-10	7E-10	4E-12	6E-08	1E-09
Beryllium	Mississippi River				3E-10	
Beryllium	Bayou Plaquemine				3E-10	
Beryllium	Manchac Bayou				3E-10	
Beryllium	Bayou Fountain				3E-10	
Cadmium	Mississippi River				4E-08	
Cadmium	Bayou Plaquemine				4E-08	
Cadmium	Manchac Bayou				4E-08	
Cadmium	Bayou Fountain				4E-08	
Chromium VI	Mississippi River				3E-08	
Chromium VI	Bayou Plaquemine				3E-08	
Chromium VI	Manchac Bayou				3E-08	
Chromium VI	Bayou Fountain				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	5E-09	0E+00	3E-11	6E-04	5E-09
Manganese	Bayou Plaquemine	5E-09	0E+00	3E-11	6E-04	5E-09
Manganese	Manchac Bayou	5E-09	0E+00	3E-11	6E-04	5E-09
Manganese	Bayou Fountain	5E-09	0E+00	3E-11	6E-04	5E-09
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Bayou Plaquemine				8E-05	
Mercury (elemental)	Manchac Bayou				8E-05	
Mercury (elemental)	Bayou Fountain				8E-05	
Mercury (divalent)	Mississippi River	2E-04		4E-08		2E-04
Mercury (divalent)	Bayou Plaquemine	2E-04		4E-08		2E-04
Mercury (divalent)	Manchac Bayou	2E-04		4E-08		2E-04
Mercury (divalent)	Bayou Fountain	2E-04		4E-08		2E-04
Nickel	Mississippi River	6E-08	4E-11	1E-09		6E-08
Nickel	Bayou Plaquemine	6E-08	2E-08	1E-09		8E-08
Nickel	Manchac Bayou	6E-08	2E-07	1E-09		3E-07
Nickel	Bayou Fountain	6E-08	5E-08	1E-09		1E-07
Silver	Mississippi River	9E-11	0E+00	5E-11		1E-10
Silver	Bayou Plaquemine	9E-11	0E+00	5E-11		1E-10
Silver	Manchac Bayou	9E-11	0E+00	5E-11		1E-10
Silver	Bayou Fountain	9E-11	0E+00	5E-11		1E-10
Thallium	Mississippi River	8E-09	1E-10	4E-11		8E-09
Thallium	Bayou Plaquemine	8E-09	5E-08	4E-11		6E-08
Thallium	Manchac Bayou	8E-09	8E-07	4E-11		8E-07
Thallium	Bayou Fountain	8E-09	2E-07	4E-11		2E-07

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	2E-07	0E+00	4E-08		3E-07
Antimony	Bayou Plaquemine	2E-07	0E+00	4E-08		3E-07
Antimony	Manchac Bayou	2E-07	0E+00	4E-08		3E-07
Antimony	Bayou Fountain	2E-07	0E+00	4E-08		3E-07
Arsenic	Mississippi River	3E-06	6E-09	3E-08		3E-06
Arsenic	Bayou Plaquemine	3E-06	2E-06	3E-08		5E-06
Arsenic	Manchac Bayou	3E-06	3E-05	3E-08		4E-05
Arsenic	Bayou Fountain	3E-06	6E-06	3E-08		9E-06
Barium	Mississippi River	3E-08	0E+00	5E-12	2E-05	3E-08
Barium	Bayou Plaquemine	3E-08	0E+00	5E-12	2E-05	3E-08
Barium	Manchac Bayou	3E-08	0E+00	5E-12	2E-05	3E-08
Barium	Bayou Fountain	3E-08	0E+00	5E-12	2E-05	3E-08
Beryllium	Mississippi River	1E-07	4E-11	3E-11		1E-07
Beryllium	Bayou Plaquemine	1E-07	9E-09	3E-11		1E-07
Beryllium	Manchac Bayou	1E-07	1E-07	3E-11		3E-07
Beryllium	Bayou Fountain	1E-07	3E-08	3E-11		2E-07
Cadmium	Mississippi River	6E-06	2E-07	3E-08		6E-06
Cadmium	Bayou Plaquemine	6E-06	6E-05	3E-08		7E-05
Cadmium	Manchac Bayou	6E-06	9E-04	3E-08		9E-04
Cadmium	Bayou Fountain	6E-06	2E-04	3E-08		2E-04
Chromium VI	Mississippi River	2E-08	1E-11	4E-10		2E-08
Chromium VI	Bayou Plaquemine	2E-08	4E-09	4E-10		3E-08
Chromium VI	Manchac Bayou	2E-08	6E-08	4E-10		9E-08
Chromium VI	Bayou Fountain	2E-08	1E-08	4E-10		3E-08
Chromium III	Mississippi River	1E-08	1E-13	6E-15		1E-08
Chromium III	Bayou Plaquemine	1E-08	2E-11	6E-15		1E-08
Chromium III	Manchac Bayou	1E-08	2E-10	6E-15		1E-08
Chromium III	Bayou Fountain	1E-08	8E-11	6E-15		1E-08
Cobalt	Mississippi River	1E-09	0E+00	1E-11		1E-09
Cobalt	Bayou Plaquemine	1E-09	0E+00	1E-11		1E-09
Cobalt	Manchac Bayou	1E-09	0E+00	1E-11		1E-09
Cobalt	Bayou Fountain	1E-09	0E+00	1E-11		1E-09
Hydrogen Chloride	Mississippi River				5E-04	
Hydrogen Chloride	Bayou Plaquemine				5E-04	
Hydrogen Chloride	Manchac Bayou				5E-04	
Hydrogen Chloride	Bayou Fountain				5E-04	
Selenium	Mississippi River	7E-10	3E-09	4E-11		3E-09
Selenium	Bayou Plaquemine	7E-10	9E-07	4E-11		9E-07
Selenium	Manchac Bayou	7E-10	1E-05	4E-11		1E-05
Selenium	Bayou Fountain	7E-10	2E-06	4E-11		2E-06
Chlorine	Mississippi River				3E-03	
Chlorine	Bayou Plaquemine				3E-03	
Chlorine	Manchac Bayou				3E-03	
Chlorine	Bayou Fountain				3E-03	
Methylmercury - Developmental Effects	Mississippi River	1E-05	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Bayou Plaquemine	1E-05	4E-02	1E-09		4E-02
Methylmercury - Developmental Effects	Manchac Bayou	1E-05	4E-01	1E-09		4E-01
Methylmercury - Developmental Effects	Bayou Fountain	1E-05	1E-01	1E-09		1E-01

Table IX-D36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Large Onsite Incinerator (Stack Numbers 480, 706) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	4E-06	9E-05	4E-10		1E-04
Methylmercury - Neurological Effects	Bayou Plaquemine	4E-06	1E-02	4E-10		1E-02
Methylmercury - Neurological Effects	Manchac Bayou	4E-06	1E-01	4E-10		1E-01
Methylmercury - Neurological Effects	Bayou Fountain	4E-06	5E-02	4E-10		5E-02

Table IX-E1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-08	2E-09	4E-10	3E-09	7E-07	7E-06	5E-08	3E-07	1E-07	1E-07		8E-09	9E-06
Nickel												4E-09	
Arsenic	6E-11	2E-11	9E-12	5E-11	2E-10	3E-10	1E-11			4E-10		3E-09	9E-10
Beryllium												9E-10	
Cadmium												2E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	3E-07	3E-07	2E-07	7E-07	1E-07	6E-06	9E-09			0E+00		5E-03	7E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	5E-04	1E-06	1E-03	4E-04	6E-03	2E-07						8E-03
Nickel	3E-07	2E-07	6E-08	4E-07	4E-06	4E-05	2E-07			6E-07			4E-05
Silver	2E-09	2E-08	5E-09	6E-08	4E-07	1E-04	1E-08			0E+00			1E-04
Thallium	5E-05	4E-06	3E-07	1E-05	1E-03	4E-03	1E-04			2E-03			8E-03
Antimony	2E-07	8E-07	2E-07	2E-06	3E-06	2E-05	1E-07			0E+00			3E-05
Arsenic	1E-06	6E-07	2E-07	1E-06	4E-06	7E-06	3E-07			9E-06			2E-05
Barium	6E-06	6E-07	2E-07	1E-06	3E-07	4E-05	4E-08			0E+00		5E-04	4E-05
Beryllium	2E-06	3E-08	5E-09	7E-08	3E-07	1E-08	1E-07			2E-07			3E-06
Cadmium	2E-06	2E-06	1E-06	4E-06	2E-07	7E-07	4E-08			1E-04			2E-04
Chromium VI	1E-06	3E-07	1E-07	9E-07	1E-05	2E-04	7E-07			2E-06			2E-04
Chromium III	3E-07	4E-09	2E-09	1E-08	3E-07	3E-06	9E-08			5E-11			4E-06
Cobalt	8E-08	2E-08	9E-11	4E-08	1E-06	8E-06	1E-07			0E+00			1E-05
Hydrogen Chloride												7E-03	
Selenium	2E-08	2E-08	2E-08	7E-08	5E-07	5E-05	2E-06			3E-04			4E-04
Chlorine												9E-03	
Methylmercury - Developmental Effects	7E-07	2E-04	2E-07	2E-04	3E-04	5E-03	6E-08			2E-04			6E-03
Methylmercury - Neurological Effects	2E-07	6E-05	5E-08	5E-05	1E-04	2E-03	2E-08			8E-05			2E-03

Table IX-E1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	1E-09	4E-10	4E-09	1E-06	5E-06	5E-08	3E-07	2E-07	1E-07		9E-09	7E-06
Nickel												4E-09	
Arsenic	2E-11	2E-11	9E-12	7E-11	2E-10	2E-10	9E-12			4E-10		4E-09	9E-10
Beryllium												1E-09	
Cadmium												2E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	7E-08	2E-07	1E-07	7E-07	1E-07	3E-06	6E-09			0E+00		5E-03	4E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	3E-04	9E-07	1E-03	5E-04	3E-03	1E-07						5E-03
Nickel	8E-08	9E-08	4E-08	4E-07	4E-06	2E-05	1E-07			5E-07			2E-05
Silver	4E-10	1E-08	4E-09	6E-08	4E-07	7E-05	8E-09			0E+00			7E-05
Thallium	1E-05	2E-06	2E-07	1E-05	2E-03	2E-03	8E-05			2E-03			5E-03
Antimony	5E-08	5E-07	1E-07	2E-06	4E-06	1E-05	8E-08			0E+00			2E-05
Arsenic	4E-07	3E-07	2E-07	1E-06	5E-06	3E-06	2E-07			7E-06			2E-05
Barium	2E-06	3E-07	1E-07	1E-06	3E-07	2E-05	3E-08			0E+00		5E-04	2E-05
Beryllium	5E-07	2E-08	4E-09	7E-08	4E-07	6E-09	6E-08			2E-07			1E-06
Cadmium	6E-07	1E-06	7E-07	4E-06	2E-07	4E-07	2E-08			1E-04			1E-04
Chromium VI	3E-07	2E-07	9E-08	8E-07	1E-05	9E-05	4E-07			1E-06			1E-04
Chromium III	9E-08	2E-09	2E-09	1E-08	3E-07	2E-06	5E-08			4E-11			2E-06
Cobalt	2E-08	9E-09	6E-11	4E-08	2E-06	4E-06	7E-08			0E+00			6E-06
Hydrogen Chloride												7E-03	
Selenium	6E-09	1E-08	1E-08	7E-08	6E-07	2E-05	1E-06			3E-04			3E-04
Chlorine												9E-03	
Methylmercury - Developmental Effects	2E-07	9E-05	1E-07	2E-04	4E-04	3E-03	4E-08			2E-04			3E-03
Methylmercury - Neurological Effects	6E-08	3E-05	4E-08	5E-05	1E-04	9E-04	1E-08			6E-05			1E-03

Table IX-E1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	9E-10	3E-10	2E-09	5E-07	2E-06	3E-08	2E-07	8E-08	7E-08		6E-09	3E-06
Nickel												3E-09	
Arsenic	1E-11	1E-11	6E-12	4E-11	1E-10	9E-11	6E-12			2E-10		3E-09	5E-10
Beryllium												7E-10	
Cadmium												1E-09	
Chromium VI												1E-07	
	Noncarcinogenic Chemicals												
Manganese	4E-08	1E-07	9E-08	3E-07	6E-08	1E-06	4E-09			0E+00		5E-03	2E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	1E-06	2E-04	6E-07	5E-04	2E-04	1E-03	8E-08			0E+00			2E-03
Nickel	4E-08	7E-08	3E-08	2E-07	2E-06	8E-06	8E-08			3E-07			1E-05
Silver	2E-10	9E-09	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00			3E-05
Thallium	7E-06	2E-06	1E-07	6E-06	7E-04	9E-04	5E-05			1E-03			3E-03
Antimony	3E-08	3E-07	9E-08	1E-06	2E-06	4E-06	5E-08			0E+00			8E-06
Arsenic	2E-07	3E-07	1E-07	7E-07	2E-06	2E-06	1E-07			4E-06			9E-06
Barium	8E-07	3E-07	8E-08	6E-07	2E-07	8E-06	2E-08			0E+00		5E-04	1E-05
Beryllium	3E-07	1E-08	3E-09	4E-08	2E-07	3E-09	4E-08			9E-08			6E-07
Cadmium	3E-07	1E-06	5E-07	2E-06	1E-07	2E-07	1E-08			6E-05			6E-05
Chromium VI	1E-07	1E-07	6E-08	4E-07	6E-06	4E-05	3E-07			7E-07			5E-05
Chromium III	5E-08	2E-09	1E-09	5E-09	1E-07	7E-07	3E-08			2E-11			1E-06
Cobalt	1E-08	7E-09	4E-11	2E-08	8E-07	2E-06	5E-08			0E+00			3E-06
Hydrogen Chloride												7E-03	
Selenium	3E-09	1E-08	9E-09	4E-08	3E-07	1E-05	7E-07			1E-04			1E-04
Chlorine												9E-03	
Methylmercury - Developmental Effects	9E-08	7E-05	8E-08	8E-05	2E-04	1E-03	2E-08			1E-04			2E-03
Methylmercury - Neurological Effects	3E-08	2E-05	3E-08	3E-05	6E-05	4E-04	8E-09			3E-05			5E-04

Table IX-E1. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-09	5E-10	4E-09	1E-06	2E-06	5E-08	3E-07	1E-07	2E-07		9E-09	4E-06
Nickel												4E-09	
Arsenic	8E-12	3E-11	1E-11	6E-11	2E-10	7E-11	9E-12			4E-10		4E-09	9E-10
Beryllium												1E-09	
Cadmium												2E-09	
Chromium VI												2E-07	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-07	1E-07	3E-07	7E-08	6E-07	3E-09			0E+00		5E-03	1E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	6E-07	3E-04	7E-07	5E-04	3E-04	6E-04	7E-08			0E+00			2E-03
Nickel	2E-08	9E-08	3E-08	2E-07	2E-06	4E-06	7E-08			3E-07			7E-06
Silver	9E-11	1E-08	3E-09	3E-08	2E-07	1E-05	4E-09			0E+00			1E-05
Thallium	3E-06	2E-06	1E-07	6E-06	8E-04	4E-04	5E-05			1E-03			2E-03
Antimony	1E-08	5E-07	1E-07	9E-07	2E-06	2E-06	4E-08			0E+00			5E-06
Arsenic	8E-08	3E-07	1E-07	6E-07	2E-06	7E-07	9E-08			4E-06			8E-06
Barium	3E-07	3E-07	9E-08	6E-07	2E-07	4E-06	1E-08			0E+00		5E-04	5E-06
Beryllium	1E-07	2E-08	3E-09	3E-08	2E-07	1E-09	3E-08			1E-07			5E-07
Cadmium	1E-07	1E-06	6E-07	2E-06	1E-07	7E-08	1E-08			6E-05			7E-05
Chromium VI	6E-08	2E-07	7E-08	4E-07	7E-06	2E-05	2E-07			8E-07			3E-05
Chromium III	2E-08	2E-09	1E-09	5E-09	2E-07	3E-07	3E-08			2E-11			5E-07
Cobalt	4E-09	1E-08	5E-11	2E-08	9E-07	8E-07	4E-08			0E+00			2E-06
Hydrogen Chloride												7E-03	
Selenium	1E-09	1E-08	1E-08	3E-08	3E-07	5E-06	6E-07			2E-04			2E-04
Chlorine												9E-03	
Methylmercury - Developmental Effects	4E-08	1E-04	9E-08	8E-05	2E-04	5E-04	2E-08			1E-04			1E-03
Methylmercury - Neurological Effects	1E-08	3E-05	3E-08	3E-05	7E-05	2E-04	7E-09			4E-05			3E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sunfish Creek	1E-08	2E-08	1E-12	8E-09	3E-08
2,3,7,8-TCDD-TEQ	Ohio River	1E-08	2E-09	1E-12	8E-09	2E-08
2,3,7,8-TCDD-TEQ	Proctor Creek	1E-08	9E-08	1E-12	8E-09	1E-07
2,3,7,8-TCDD-TEQ	Fish Creek	1E-08	4E-08	1E-12	8E-09	5E-08
Nickel	Sunfish Creek				4E-09	
Nickel	Ohio River				4E-09	
Nickel	Proctor Creek				4E-09	
Nickel	Fish Creek				4E-09	
Arsenic	Sunfish Creek	6E-11	2E-12	1E-12	3E-09	6E-11
Arsenic	Ohio River	6E-11	1E-13	1E-12	3E-09	6E-11
Arsenic	Proctor Creek	6E-11	7E-12	1E-12	3E-09	6E-11
Arsenic	Fish Creek	6E-11	3E-12	1E-12	3E-09	6E-11
Beryllium	Sunfish Creek				9E-10	
Beryllium	Ohio River				9E-10	
Beryllium	Proctor Creek				9E-10	
Beryllium	Fish Creek				9E-10	
Cadmium	Sunfish Creek				2E-09	
Cadmium	Ohio River				2E-09	
Cadmium	Proctor Creek				2E-09	
Cadmium	Fish Creek				2E-09	
Chromium VI	Sunfish Creek				2E-07	
Chromium VI	Ohio River				2E-07	
Chromium VI	Proctor Creek				2E-07	
Chromium VI	Fish Creek				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Sunfish Creek	3E-07	0E+00	2E-09	5E-03	3E-07
Manganese	Ohio River	3E-07	0E+00	2E-09	5E-03	3E-07
Manganese	Proctor Creek	3E-07	0E+00	2E-09	5E-03	3E-07
Manganese	Fish Creek	3E-07	0E+00	2E-09	5E-03	3E-07
Mercury (elemental)	Sunfish Creek				2E-04	
Mercury (elemental)	Ohio River				2E-04	
Mercury (elemental)	Proctor Creek				2E-04	
Mercury (elemental)	Fish Creek				2E-04	
Mercury (divalent)	Sunfish Creek	1E-05		4E-09		1E-05
Mercury (divalent)	Ohio River	1E-05		4E-09		1E-05
Mercury (divalent)	Proctor Creek	1E-05		4E-09		1E-05
Mercury (divalent)	Fish Creek	1E-05		4E-09		1E-05
Nickel	Sunfish Creek	3E-07	4E-09	8E-09		3E-07
Nickel	Ohio River	3E-07	2E-10	8E-09		3E-07
Nickel	Proctor Creek	3E-07	1E-08	8E-09		3E-07
Nickel	Fish Creek	3E-07	5E-09	8E-09		3E-07
Silver	Sunfish Creek	2E-09	0E+00	2E-09		3E-09
Silver	Ohio River	2E-09	0E+00	2E-09		3E-09
Silver	Proctor Creek	2E-09	0E+00	2E-09		3E-09
Silver	Fish Creek	2E-09	0E+00	2E-09		3E-09
Thallium	Sunfish Creek	5E-05	2E-05	4E-07		7E-05
Thallium	Ohio River	5E-05	9E-07	4E-07		5E-05
Thallium	Proctor Creek	5E-05	5E-05	4E-07		1E-04
Thallium	Fish Creek	5E-05	2E-05	4E-07		8E-05

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sunfish Creek	2E-07	0E+00	5E-08		2E-07
Antimony	Ohio River	2E-07	0E+00	5E-08		2E-07
Antimony	Proctor Creek	2E-07	0E+00	5E-08		2E-07
Antimony	Fish Creek	2E-07	0E+00	5E-08		2E-07
Arsenic	Sunfish Creek	1E-06	5E-08	3E-08		1E-06
Arsenic	Ohio River	1E-06	3E-09	3E-08		1E-06
Arsenic	Proctor Creek	1E-06	2E-07	3E-08		2E-06
Arsenic	Fish Creek	1E-06	8E-08	3E-08		2E-06
Barium	Sunfish Creek	6E-06	0E+00	3E-09	5E-04	6E-06
Barium	Ohio River	6E-06	0E+00	3E-09	5E-04	6E-06
Barium	Proctor Creek	6E-06	0E+00	3E-09	5E-04	6E-06
Barium	Fish Creek	6E-06	0E+00	3E-09	5E-04	6E-06
Beryllium	Sunfish Creek	2E-06	1E-08	1E-09		2E-06
Beryllium	Ohio River	2E-06	7E-10	1E-09		2E-06
Beryllium	Proctor Creek	2E-06	4E-08	1E-09		2E-06
Beryllium	Fish Creek	2E-06	1E-08	1E-09		2E-06
Cadmium	Sunfish Creek	2E-06	1E-06	2E-08		3E-06
Cadmium	Ohio River	2E-06	6E-08	2E-08		2E-06
Cadmium	Proctor Creek	2E-06	4E-06	2E-08		6E-06
Cadmium	Fish Creek	2E-06	2E-06	2E-08		4E-06
Chromium VI	Sunfish Creek	1E-06	1E-08	3E-08		1E-06
Chromium VI	Ohio River	1E-06	5E-10	3E-08		1E-06
Chromium VI	Proctor Creek	1E-06	3E-08	3E-08		1E-06
Chromium VI	Fish Creek	1E-06	1E-08	3E-08		1E-06
Chromium III	Sunfish Creek	3E-07	1E-11	2E-12		3E-07
Chromium III	Ohio River	3E-07	3E-12	2E-12		3E-07
Chromium III	Proctor Creek	3E-07	9E-11	2E-12		3E-07
Chromium III	Fish Creek	3E-07	3E-11	2E-12		3E-07
Cobalt	Sunfish Creek	8E-08	0E+00	2E-12		8E-08
Cobalt	Ohio River	8E-08	0E+00	2E-12		8E-08
Cobalt	Proctor Creek	8E-08	0E+00	2E-12		8E-08
Cobalt	Fish Creek	8E-08	0E+00	2E-12		8E-08
Hydrogen Chloride	Sunfish Creek				7E-03	
Hydrogen Chloride	Ohio River				7E-03	
Hydrogen Chloride	Proctor Creek				7E-03	
Hydrogen Chloride	Fish Creek				7E-03	
Selenium	Sunfish Creek	2E-08	2E-06	3E-09		2E-06
Selenium	Ohio River	2E-08	1E-07	3E-09		1E-07
Selenium	Proctor Creek	2E-08	6E-06	3E-09		6E-06
Selenium	Fish Creek	2E-08	3E-06	3E-09		3E-06
Chlorine	Sunfish Creek				9E-03	
Chlorine	Ohio River				9E-03	
Chlorine	Proctor Creek				9E-03	
Chlorine	Fish Creek				9E-03	
Methylmercury - Developmental Effects	Sunfish Creek	7E-07	2E-04	2E-10		2E-04
Methylmercury - Developmental Effects	Ohio River	7E-07	2E-05	2E-10		2E-05
Methylmercury - Developmental Effects	Proctor Creek	7E-07	4E-04	2E-10		4E-04
Methylmercury - Developmental Effects	Fish Creek	7E-07	8E-04	2E-10		8E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sunfish Creek	2E-07	6E-05	5E-11		6E-05
Methylmercury - Neurological Effects	Ohio River	2E-07	8E-06	5E-11		8E-06
Methylmercury - Neurological Effects	Proctor Creek	2E-07	1E-04	5E-11		1E-04
Methylmercury - Neurological Effects	Fish Creek	2E-07	3E-04	5E-11		3E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sunfish Creek	5E-09	3E-08	9E-13	9E-09	3E-08
2,3,7,8-TCDD-TEQ	Ohio River	5E-09	3E-09	9E-13	9E-09	8E-09
2,3,7,8-TCDD-TEQ	Proctor Creek	5E-09	1E-07	9E-13	9E-09	1E-07
2,3,7,8-TCDD-TEQ	Fish Creek	5E-09	5E-08	9E-13	9E-09	5E-08
Nickel	Sunfish Creek				4E-09	
Nickel	Ohio River				4E-09	
Nickel	Proctor Creek				4E-09	
Nickel	Fish Creek				4E-09	
Arsenic	Sunfish Creek	2E-11	3E-12	8E-13	4E-09	2E-11
Arsenic	Ohio River	2E-11	2E-13	8E-13	4E-09	2E-11
Arsenic	Proctor Creek	2E-11	9E-12	8E-13	4E-09	3E-11
Arsenic	Fish Creek	2E-11	4E-12	8E-13	4E-09	3E-11
Beryllium	Sunfish Creek				1E-09	
Beryllium	Ohio River				1E-09	
Beryllium	Proctor Creek				1E-09	
Beryllium	Fish Creek				1E-09	
Cadmium	Sunfish Creek				2E-09	
Cadmium	Ohio River				2E-09	
Cadmium	Proctor Creek				2E-09	
Cadmium	Fish Creek				2E-09	
Chromium VI	Sunfish Creek				2E-07	
Chromium VI	Ohio River				2E-07	
Chromium VI	Proctor Creek				2E-07	
Chromium VI	Fish Creek				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Sunfish Creek	7E-08	0E+00	1E-09	5E-03	8E-08
Manganese	Ohio River	7E-08	0E+00	1E-09	5E-03	8E-08
Manganese	Proctor Creek	7E-08	0E+00	1E-09	5E-03	8E-08
Manganese	Fish Creek	7E-08	0E+00	1E-09	5E-03	8E-08
Mercury (elemental)	Sunfish Creek				2E-04	
Mercury (elemental)	Ohio River				2E-04	
Mercury (elemental)	Proctor Creek				2E-04	
Mercury (elemental)	Fish Creek				2E-04	
Mercury (divalent)	Sunfish Creek	3E-06		2E-09		3E-06
Mercury (divalent)	Ohio River	3E-06		2E-09		3E-06
Mercury (divalent)	Proctor Creek	3E-06		2E-09		3E-06
Mercury (divalent)	Fish Creek	3E-06		2E-09		3E-06
Nickel	Sunfish Creek	8E-08	4E-09	4E-09		9E-08
Nickel	Ohio River	8E-08	2E-10	4E-09		8E-08
Nickel	Proctor Creek	8E-08	1E-08	4E-09		1E-07
Nickel	Fish Creek	8E-08	5E-09	4E-09		9E-08
Silver	Sunfish Creek	4E-10	0E+00	9E-10		1E-09
Silver	Ohio River	4E-10	0E+00	9E-10		1E-09
Silver	Proctor Creek	4E-10	0E+00	9E-10		1E-09
Silver	Fish Creek	4E-10	0E+00	9E-10		1E-09
Thallium	Sunfish Creek	1E-05	2E-05	2E-07		3E-05
Thallium	Ohio River	1E-05	9E-07	2E-07		2E-05
Thallium	Proctor Creek	1E-05	5E-05	2E-07		7E-05
Thallium	Fish Creek	1E-05	2E-05	2E-07		4E-05

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sunfish Creek	5E-08	0E+00	3E-08		8E-08
Antimony	Ohio River	5E-08	0E+00	3E-08		8E-08
Antimony	Proctor Creek	5E-08	0E+00	3E-08		8E-08
Antimony	Fish Creek	5E-08	0E+00	3E-08		8E-08
Arsenic	Sunfish Creek	4E-07	5E-08	2E-08		4E-07
Arsenic	Ohio River	4E-07	3E-09	2E-08		4E-07
Arsenic	Proctor Creek	4E-07	2E-07	2E-08		6E-07
Arsenic	Fish Creek	4E-07	8E-08	2E-08		5E-07
Barium	Sunfish Creek	2E-06	0E+00	1E-09	5E-04	2E-06
Barium	Ohio River	2E-06	0E+00	1E-09	5E-04	2E-06
Barium	Proctor Creek	2E-06	0E+00	1E-09	5E-04	2E-06
Barium	Fish Creek	2E-06	0E+00	1E-09	5E-04	2E-06
Beryllium	Sunfish Creek	5E-07	1E-08	6E-10		6E-07
Beryllium	Ohio River	5E-07	7E-10	6E-10		5E-07
Beryllium	Proctor Creek	5E-07	4E-08	6E-10		6E-07
Beryllium	Fish Creek	5E-07	1E-08	6E-10		6E-07
Cadmium	Sunfish Creek	6E-07	1E-06	1E-08		2E-06
Cadmium	Ohio River	6E-07	6E-08	1E-08		6E-07
Cadmium	Proctor Creek	6E-07	4E-06	1E-08		4E-06
Cadmium	Fish Creek	6E-07	2E-06	1E-08		2E-06
Chromium VI	Sunfish Creek	3E-07	1E-08	2E-08		3E-07
Chromium VI	Ohio River	3E-07	5E-10	2E-08		3E-07
Chromium VI	Proctor Creek	3E-07	3E-08	2E-08		3E-07
Chromium VI	Fish Creek	3E-07	1E-08	2E-08		3E-07
Chromium III	Sunfish Creek	9E-08	1E-11	9E-13		9E-08
Chromium III	Ohio River	9E-08	3E-12	9E-13		9E-08
Chromium III	Proctor Creek	9E-08	9E-11	9E-13		9E-08
Chromium III	Fish Creek	9E-08	3E-11	9E-13		9E-08
Cobalt	Sunfish Creek	2E-08	0E+00	9E-13		2E-08
Cobalt	Ohio River	2E-08	0E+00	9E-13		2E-08
Cobalt	Proctor Creek	2E-08	0E+00	9E-13		2E-08
Cobalt	Fish Creek	2E-08	0E+00	9E-13		2E-08
Hydrogen Chloride	Sunfish Creek				7E-03	
Hydrogen Chloride	Ohio River				7E-03	
Hydrogen Chloride	Proctor Creek				7E-03	
Hydrogen Chloride	Fish Creek				7E-03	
Selenium	Sunfish Creek	6E-09	2E-06	1E-09		2E-06
Selenium	Ohio River	6E-09	1E-07	1E-09		1E-07
Selenium	Proctor Creek	6E-09	6E-06	1E-09		6E-06
Selenium	Fish Creek	6E-09	3E-06	1E-09		3E-06
Chlorine	Sunfish Creek				9E-03	
Chlorine	Ohio River				9E-03	
Chlorine	Proctor Creek				9E-03	
Chlorine	Fish Creek				9E-03	
Methylmercury - Developmental Effects	Sunfish Creek	2E-07	2E-04	9E-11		2E-04
Methylmercury - Developmental Effects	Ohio River	2E-07	2E-05	9E-11		2E-05
Methylmercury - Developmental Effects	Proctor Creek	2E-07	4E-04	9E-11		4E-04
Methylmercury - Developmental Effects	Fish Creek	2E-07	8E-04	9E-11		8E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sunfish Creek	6E-08	6E-05	3E-11		6E-05
Methylmercury - Neurological Effects	Ohio River	6E-08	8E-06	3E-11		8E-06
Methylmercury - Neurological Effects	Proctor Creek	6E-08	1E-04	3E-11		1E-04
Methylmercury - Neurological Effects	Fish Creek	6E-08	3E-04	3E-11		3E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sunfish Creek	3E-09	2E-08	6E-13	6E-09	2E-08
2,3,7,8-TCDD-TEQ	Ohio River	3E-09	2E-09	6E-13	6E-09	5E-09
2,3,7,8-TCDD-TEQ	Proctor Creek	3E-09	9E-08	6E-13	6E-09	9E-08
2,3,7,8-TCDD-TEQ	Fish Creek	3E-09	4E-08	6E-13	6E-09	4E-08
Nickel	Sunfish Creek				3E-09	
Nickel	Ohio River				3E-09	
Nickel	Proctor Creek				3E-09	
Nickel	Fish Creek				3E-09	
Arsenic	Sunfish Creek	1E-11	2E-12	5E-13	3E-09	1E-11
Arsenic	Ohio River	1E-11	1E-13	5E-13	3E-09	1E-11
Arsenic	Proctor Creek	1E-11	7E-12	5E-13	3E-09	2E-11
Arsenic	Fish Creek	1E-11	3E-12	5E-13	3E-09	1E-11
Beryllium	Sunfish Creek				7E-10	
Beryllium	Ohio River				7E-10	
Beryllium	Proctor Creek				7E-10	
Beryllium	Fish Creek				7E-10	
Cadmium	Sunfish Creek				1E-09	
Cadmium	Ohio River				1E-09	
Cadmium	Proctor Creek				1E-09	
Cadmium	Fish Creek				1E-09	
Chromium VI	Sunfish Creek				1E-07	
Chromium VI	Ohio River				1E-07	
Chromium VI	Proctor Creek				1E-07	
Chromium VI	Fish Creek				1E-07	
	Noncarcinogenic Chemicals					
Manganese	Sunfish Creek	4E-08	0E+00	9E-10	5E-03	4E-08
Manganese	Ohio River	4E-08	0E+00	9E-10	5E-03	4E-08
Manganese	Proctor Creek	4E-08	0E+00	9E-10	5E-03	4E-08
Manganese	Fish Creek	4E-08	0E+00	9E-10	5E-03	4E-08
Mercury (elemental)	Sunfish Creek				2E-04	
Mercury (elemental)	Ohio River				2E-04	
Mercury (elemental)	Proctor Creek				2E-04	
Mercury (elemental)	Fish Creek				2E-04	
Mercury (divalent)	Sunfish Creek	1E-06		1E-09		1E-06
Mercury (divalent)	Ohio River	1E-06		1E-09		1E-06
Mercury (divalent)	Proctor Creek	1E-06		1E-09		1E-06
Mercury (divalent)	Fish Creek	1E-06		1E-09		1E-06
Nickel	Sunfish Creek	4E-08	3E-09	3E-09		5E-08
Nickel	Ohio River	4E-08	1E-10	3E-09		4E-08
Nickel	Proctor Creek	4E-08	8E-09	3E-09		5E-08
Nickel	Fish Creek	4E-08	4E-09	3E-09		5E-08
Silver	Sunfish Creek	2E-10	0E+00	6E-10		8E-10
Silver	Ohio River	2E-10	0E+00	6E-10		8E-10
Silver	Proctor Creek	2E-10	0E+00	6E-10		8E-10
Silver	Fish Creek	2E-10	0E+00	6E-10		8E-10
Thallium	Sunfish Creek	7E-06	1E-05	2E-07		2E-05
Thallium	Ohio River	7E-06	6E-07	2E-07		8E-06
Thallium	Proctor Creek	7E-06	4E-05	2E-07		5E-05
Thallium	Fish Creek	7E-06	2E-05	2E-07		2E-05

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sunfish Creek	3E-08	0E+00	2E-08		4E-08
Antimony	Ohio River	3E-08	0E+00	2E-08		4E-08
Antimony	Proctor Creek	3E-08	0E+00	2E-08		4E-08
Antimony	Fish Creek	3E-08	0E+00	2E-08		4E-08
Arsenic	Sunfish Creek	2E-07	4E-08	1E-08		2E-07
Arsenic	Ohio River	2E-07	2E-09	1E-08		2E-07
Arsenic	Proctor Creek	2E-07	1E-07	1E-08		3E-07
Arsenic	Fish Creek	2E-07	5E-08	1E-08		3E-07
Barium	Sunfish Creek	8E-07	0E+00	9E-10	5E-04	8E-07
Barium	Ohio River	8E-07	0E+00	9E-10	5E-04	8E-07
Barium	Proctor Creek	8E-07	0E+00	9E-10	5E-04	8E-07
Barium	Fish Creek	8E-07	0E+00	9E-10	5E-04	8E-07
Beryllium	Sunfish Creek	3E-07	9E-09	4E-10		3E-07
Beryllium	Ohio River	3E-07	5E-10	4E-10		3E-07
Beryllium	Proctor Creek	3E-07	3E-08	4E-10		3E-07
Beryllium	Fish Creek	3E-07	1E-08	4E-10		3E-07
Cadmium	Sunfish Creek	3E-07	8E-07	7E-09		1E-06
Cadmium	Ohio River	3E-07	4E-08	7E-09		3E-07
Cadmium	Proctor Creek	3E-07	3E-06	7E-09		3E-06
Cadmium	Fish Creek	3E-07	1E-06	7E-09		1E-06
Chromium VI	Sunfish Creek	1E-07	7E-09	1E-08		2E-07
Chromium VI	Ohio River	1E-07	4E-10	1E-08		2E-07
Chromium VI	Proctor Creek	1E-07	2E-08	1E-08		2E-07
Chromium VI	Fish Creek	1E-07	1E-08	1E-08		2E-07
Chromium III	Sunfish Creek	5E-08	7E-12	6E-13		5E-08
Chromium III	Ohio River	5E-08	2E-12	6E-13		5E-08
Chromium III	Proctor Creek	5E-08	6E-11	6E-13		5E-08
Chromium III	Fish Creek	5E-08	2E-11	6E-13		5E-08
Cobalt	Sunfish Creek	1E-08	0E+00	3E-10		1E-08
Cobalt	Ohio River	1E-08	0E+00	3E-10		1E-08
Cobalt	Proctor Creek	1E-08	0E+00	3E-10		1E-08
Cobalt	Fish Creek	1E-08	0E+00	3E-10		1E-08
Hydrogen Chloride	Sunfish Creek				7E-03	
Hydrogen Chloride	Ohio River				7E-03	
Hydrogen Chloride	Proctor Creek				7E-03	
Hydrogen Chloride	Fish Creek				7E-03	
Selenium	Sunfish Creek	3E-09	1E-06	1E-09		1E-06
Selenium	Ohio River	3E-09	7E-08	1E-09		8E-08
Selenium	Proctor Creek	3E-09	4E-06	1E-09		4E-06
Selenium	Fish Creek	3E-09	2E-06	1E-09		2E-06
Chlorine	Sunfish Creek				9E-03	
Chlorine	Ohio River				9E-03	
Chlorine	Proctor Creek				9E-03	
Chlorine	Fish Creek				9E-03	
Methylmercury - Developmental Effects	Sunfish Creek	9E-08	1E-04	6E-11		1E-04
Methylmercury - Developmental Effects	Ohio River	9E-08	2E-05	6E-11		2E-05
Methylmercury - Developmental Effects	Proctor Creek	9E-08	3E-04	6E-11		3E-04
Methylmercury - Developmental Effects	Fish Creek	9E-08	5E-04	6E-11		5E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sunfish Creek	3E-08	5E-05	2E-11		5E-05
Methylmercury - Neurological Effects	Ohio River	3E-08	5E-06	2E-11		6E-06
Methylmercury - Neurological Effects	Proctor Creek	3E-08	9E-05	2E-11		9E-05
Methylmercury - Neurological Effects	Fish Creek	3E-08	2E-04	2E-11		2E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sunfish Creek	2E-09	4E-08	1E-12	9E-09	4E-08
2,3,7,8-TCDD-TEQ	Ohio River	2E-09	4E-09	1E-12	9E-09	5E-09
2,3,7,8-TCDD-TEQ	Proctor Creek	2E-09	2E-07	1E-12	9E-09	2E-07
2,3,7,8-TCDD-TEQ	Fish Creek	2E-09	6E-08	1E-12	9E-09	7E-08
Nickel	Sunfish Creek				4E-09	
Nickel	Ohio River				4E-09	
Nickel	Proctor Creek				4E-09	
Nickel	Fish Creek				4E-09	
Arsenic	Sunfish Creek	8E-12	4E-12	1E-12	4E-09	1E-11
Arsenic	Ohio River	8E-12	2E-13	1E-12	4E-09	1E-11
Arsenic	Proctor Creek	8E-12	1E-11	1E-12	4E-09	2E-11
Arsenic	Fish Creek	8E-12	6E-12	1E-12	4E-09	2E-11
Beryllium	Sunfish Creek				1E-09	
Beryllium	Ohio River				1E-09	
Beryllium	Proctor Creek				1E-09	
Beryllium	Fish Creek				1E-09	
Cadmium	Sunfish Creek				2E-09	
Cadmium	Ohio River				2E-09	
Cadmium	Proctor Creek				2E-09	
Cadmium	Fish Creek				2E-09	
Chromium VI	Sunfish Creek				2E-07	
Chromium VI	Ohio River				2E-07	
Chromium VI	Proctor Creek				2E-07	
Chromium VI	Fish Creek				2E-07	
	Noncarcinogenic Chemicals					
Manganese	Sunfish Creek	2E-08	0E+00	1E-09	5E-03	2E-08
Manganese	Ohio River	2E-08	0E+00	1E-09	5E-03	2E-08
Manganese	Proctor Creek	2E-08	0E+00	1E-09	5E-03	2E-08
Manganese	Fish Creek	2E-08	0E+00	1E-09	5E-03	2E-08
Mercury (elemental)	Sunfish Creek				2E-04	
Mercury (elemental)	Ohio River				2E-04	
Mercury (elemental)	Proctor Creek				2E-04	
Mercury (elemental)	Fish Creek				2E-04	
Mercury (divalent)	Sunfish Creek	6E-07		2E-09		6E-07
Mercury (divalent)	Ohio River	6E-07		2E-09		6E-07
Mercury (divalent)	Proctor Creek	6E-07		2E-09		6E-07
Mercury (divalent)	Fish Creek	6E-07		2E-09		6E-07
Nickel	Sunfish Creek	2E-08	3E-09	3E-09		2E-08
Nickel	Ohio River	2E-08	1E-10	3E-09		2E-08
Nickel	Proctor Creek	2E-08	8E-09	3E-09		3E-08
Nickel	Fish Creek	2E-08	4E-09	3E-09		2E-08
Silver	Sunfish Creek	9E-11	0E+00	7E-10		8E-10
Silver	Ohio River	9E-11	0E+00	7E-10		8E-10
Silver	Proctor Creek	9E-11	0E+00	7E-10		8E-10
Silver	Fish Creek	9E-11	0E+00	7E-10		8E-10
Thallium	Sunfish Creek	3E-06	1E-05	2E-07		2E-05
Thallium	Ohio River	3E-06	6E-07	2E-07		4E-06
Thallium	Proctor Creek	3E-06	4E-05	2E-07		4E-05
Thallium	Fish Creek	3E-06	2E-05	2E-07		2E-05

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sunfish Creek	1E-08	0E+00	2E-08		3E-08
Antimony	Ohio River	1E-08	0E+00	2E-08		3E-08
Antimony	Proctor Creek	1E-08	0E+00	2E-08		3E-08
Antimony	Fish Creek	1E-08	0E+00	2E-08		3E-08
Arsenic	Sunfish Creek	8E-08	4E-08	1E-08		1E-07
Arsenic	Ohio River	8E-08	2E-09	1E-08		9E-08
Arsenic	Proctor Creek	8E-08	1E-07	1E-08		2E-07
Arsenic	Fish Creek	8E-08	5E-08	1E-08		1E-07
Barium	Sunfish Creek	3E-07	0E+00	1E-09	5E-04	3E-07
Barium	Ohio River	3E-07	0E+00	1E-09	5E-04	3E-07
Barium	Proctor Creek	3E-07	0E+00	1E-09	5E-04	3E-07
Barium	Fish Creek	3E-07	0E+00	1E-09	5E-04	3E-07
Beryllium	Sunfish Creek	1E-07	9E-09	4E-10		1E-07
Beryllium	Ohio River	1E-07	5E-10	4E-10		1E-07
Beryllium	Proctor Creek	1E-07	3E-08	4E-10		1E-07
Beryllium	Fish Creek	1E-07	1E-08	4E-10		1E-07
Cadmium	Sunfish Creek	1E-07	8E-07	9E-09		1E-06
Cadmium	Ohio River	1E-07	4E-08	9E-09		2E-07
Cadmium	Proctor Creek	1E-07	3E-06	9E-09		3E-06
Cadmium	Fish Creek	1E-07	1E-06	9E-09		1E-06
Chromium VI	Sunfish Creek	6E-08	7E-09	1E-08		8E-08
Chromium VI	Ohio River	6E-08	4E-10	1E-08		7E-08
Chromium VI	Proctor Creek	6E-08	2E-08	1E-08		9E-08
Chromium VI	Fish Creek	6E-08	1E-08	1E-08		8E-08
Chromium III	Sunfish Creek	2E-08	7E-12	7E-13		2E-08
Chromium III	Ohio River	2E-08	2E-12	7E-13		2E-08
Chromium III	Proctor Creek	2E-08	6E-11	7E-13		2E-08
Chromium III	Fish Creek	2E-08	2E-11	7E-13		2E-08
Cobalt	Sunfish Creek	4E-09	0E+00	4E-10		5E-09
Cobalt	Ohio River	4E-09	0E+00	4E-10		5E-09
Cobalt	Proctor Creek	4E-09	0E+00	4E-10		5E-09
Cobalt	Fish Creek	4E-09	0E+00	4E-10		5E-09
Hydrogen Chloride	Sunfish Creek				7E-03	
Hydrogen Chloride	Ohio River				7E-03	
Hydrogen Chloride	Proctor Creek				7E-03	
Hydrogen Chloride	Fish Creek				7E-03	
Selenium	Sunfish Creek	1E-09	1E-06	1E-09		1E-06
Selenium	Ohio River	1E-09	7E-08	1E-09		7E-08
Selenium	Proctor Creek	1E-09	4E-06	1E-09		4E-06
Selenium	Fish Creek	1E-09	2E-06	1E-09		2E-06
Chlorine	Sunfish Creek				9E-03	
Chlorine	Ohio River				9E-03	
Chlorine	Proctor Creek				9E-03	
Chlorine	Fish Creek				9E-03	
Methylmercury - Developmental Effects	Sunfish Creek	4E-08	1E-04	7E-11		1E-04
Methylmercury - Developmental Effects	Ohio River	4E-08	2E-05	7E-11		2E-05
Methylmercury - Developmental Effects	Proctor Creek	4E-08	3E-04	7E-11		3E-04
Methylmercury - Developmental Effects	Fish Creek	4E-08	5E-04	7E-11		5E-04

Table IX-E2. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 340) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sunfish Creek	1E-08	5E-05	2E-11		5E-05
Methylmercury - Neurological Effects	Ohio River	1E-08	5E-06	2E-11		6E-06
Methylmercury - Neurological Effects	Proctor Creek	1E-08	9E-05	2E-11		9E-05
Methylmercury - Neurological Effects	Fish Creek	1E-08	2E-04	2E-11		2E-04

Table IX-E3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	4E-10	2E-10	8E-10	2E-07	2E-06	1E-08	8E-08	4E-08	5E-08		2E-09	2E-06
Nickel												1E-09	
Arsenic	1E-11	3E-12	1E-12	8E-12	2E-11	4E-11	2E-12			7E-11		2E-10	2E-10
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-07	1E-07	8E-08	3E-07	5E-08	3E-06	5E-09			0E+00		9E-04	3E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	4E-06	6E-07	7E-06	8E-06	1E-04	1E-08						1E-04
Nickel	3E-07	1E-07	5E-08	3E-07	3E-06	2E-05	2E-07			6E-07			3E-05
Silver	5E-09	6E-08	2E-08	1E-07	8E-07	3E-04	3E-08			0E+00			3E-04
Thallium	2E-05	2E-06	9E-08	4E-06	5E-04	1E-03	6E-05			1E-03			3E-03
Antimony	9E-07	3E-06	9E-07	8E-06	1E-05	7E-05	5E-07			0E+00			1E-04
Arsenic	3E-07	9E-08	4E-08	2E-07	6E-07	1E-06	4E-08			2E-06			4E-06
Barium	3E-08	3E-09	9E-10	7E-09	2E-09	2E-07	3E-10			0E+00		1E-06	3E-07
Beryllium	1E-07	2E-09	3E-10	5E-09	2E-08	8E-10	6E-09			2E-08			2E-07
Cadmium	6E-07	5E-07	2E-07	9E-07	5E-08	2E-07	9E-09			4E-05			4E-05
Chromium VI	2E-08	4E-09	2E-09	1E-08	2E-07	2E-06	9E-09			3E-08			3E-06
Chromium III	6E-09	8E-11	5E-11	2E-10	5E-09	6E-08	2E-09			1E-12			8E-08
Cobalt	4E-08	7E-09	4E-11	2E-08	6E-07	4E-06	6E-08			0E+00			4E-06
Hydrogen Chloride												2E-05	
Selenium	2E-08	2E-08	2E-08	6E-08	4E-07	4E-05	2E-06			4E-04			5E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	3E-07	1E-06	8E-08	1E-06	3E-06	4E-05	1E-09			2E-04			2E-04
Methylmercury - Neurological Effects	1E-07	4E-07	3E-08	4E-07	9E-07	1E-05	4E-10			5E-05			7E-05

Table IX-E3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	3E-10	1E-10	1E-09	3E-07	1E-06	1E-08	8E-08	5E-08	5E-08		2E-09	2E-06
Nickel												1E-09	
Arsenic	4E-12	2E-12	1E-12	1E-11	4E-11	3E-11	1E-12			7E-11		3E-10	2E-10
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	8E-08	5E-08	3E-07	6E-08	1E-06	3E-09			0E+00		9E-04	2E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	2E-06	4E-07	7E-06	1E-05	5E-05	8E-09						7E-05
Nickel	7E-08	6E-08	3E-08	2E-07	3E-06	1E-05	9E-08			5E-07			2E-05
Silver	1E-09	3E-08	1E-08	1E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	7E-06	9E-07	6E-08	4E-06	6E-04	7E-04	4E-05			9E-04			2E-03
Antimony	2E-07	2E-06	6E-07	8E-06	1E-05	4E-05	3E-07			0E+00			6E-05
Arsenic	7E-08	5E-08	3E-08	2E-07	7E-07	5E-07	3E-08			1E-06			3E-06
Barium	9E-09	2E-09	6E-10	6E-09	2E-09	1E-07	1E-10			0E+00		1E-06	1E-07
Beryllium	3E-08	1E-09	2E-10	5E-09	2E-08	4E-10	4E-09			1E-08			8E-08
Cadmium	2E-07	3E-07	2E-07	9E-07	6E-08	9E-08	6E-09			3E-05			3E-05
Chromium VI	4E-09	2E-09	1E-09	1E-08	2E-07	1E-06	6E-09			3E-08			1E-06
Chromium III	2E-09	4E-11	3E-11	2E-10	6E-09	3E-08	1E-09			8E-13			4E-08
Cobalt	1E-08	4E-09	3E-11	2E-08	7E-07	2E-06	3E-08			0E+00			3E-06
Hydrogen Chloride												2E-05	
Selenium	7E-09	1E-08	1E-08	6E-08	5E-07	2E-05	9E-07			3E-04			3E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	8E-08	7E-07	6E-08	1E-06	3E-06	2E-05	7E-10			1E-04			1E-04
Methylmercury - Neurological Effects	3E-08	2E-07	2E-08	4E-07	1E-06	7E-06	2E-10			4E-05			5E-05

Table IX-E3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	2E-10	1E-10	6E-10	1E-07	6E-07	8E-09	5E-08	2E-08	3E-08		1E-09	9E-07
Nickel												9E-10	
Arsenic	2E-12	2E-12	9E-13	5E-12	2E-11	1E-11	9E-13			4E-11		2E-10	8E-11
Beryllium												2E-11	
Cadmium												1E-10	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	4E-08	1E-07	3E-08	6E-07	2E-09			0E+00		9E-04	9E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	7E-07	2E-06	3E-07	4E-06	4E-06	2E-05	5E-09			0E+00			3E-05
Nickel	4E-08	5E-08	2E-08	1E-07	1E-06	6E-06	6E-08			2E-07			8E-06
Silver	7E-10	2E-08	8E-09	7E-08	4E-07	8E-05	1E-08			0E+00			8E-05
Thallium	3E-06	7E-07	5E-08	2E-06	3E-04	3E-04	2E-05			5E-04			1E-03
Antimony	1E-07	1E-06	4E-07	4E-06	6E-06	2E-05	2E-07			0E+00			3E-05
Arsenic	3E-08	4E-08	2E-08	1E-07	3E-07	2E-07	2E-08			7E-07			1E-06
Barium	5E-09	1E-09	4E-10	3E-09	9E-10	5E-08	1E-10			0E+00		1E-06	6E-08
Beryllium	2E-08	8E-10	2E-10	2E-09	1E-08	2E-10	2E-09			6E-09			4E-08
Cadmium	8E-08	2E-07	1E-07	5E-07	3E-08	4E-08	4E-09			2E-05			2E-05
Chromium VI	2E-09	2E-09	9E-10	6E-09	8E-08	6E-07	4E-09			1E-08			7E-07
Chromium III	9E-10	3E-11	2E-11	1E-10	3E-09	1E-08	6E-10			4E-13			2E-08
Cobalt	6E-09	3E-09	2E-11	9E-09	3E-07	8E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												2E-05	
Selenium	3E-09	9E-09	9E-09	3E-08	2E-07	9E-06	6E-07			2E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	4E-08	5E-07	4E-08	6E-07	1E-06	9E-06	5E-10			6E-05			7E-05
Methylmercury - Neurological Effects	1E-08	2E-07	1E-08	2E-07	5E-07	3E-06	2E-10			2E-05			2E-05

Table IX-E3. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	6E-10	2E-10	1E-09	3E-07	5E-07	1E-08	8E-08	4E-08	6E-08		2E-09	1E-06
Nickel												1E-09	
Arsenic	1E-12	5E-12	2E-12	9E-12	4E-11	1E-11	1E-12			9E-11		2E-10	2E-10
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	9E-09	8E-08	4E-08	1E-07	3E-08	3E-07	2E-09			0E+00		9E-04	6E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	3E-07	2E-06	3E-07	4E-06	5E-06	1E-05	5E-09			0E+00			2E-05
Nickel	1E-08	6E-08	3E-08	1E-07	2E-06	2E-06	5E-08			3E-07			5E-06
Silver	3E-10	3E-08	9E-09	7E-08	5E-07	3E-05	1E-08			0E+00			3E-05
Thallium	1E-06	9E-07	5E-08	2E-06	3E-04	1E-04	2E-05			5E-04			1E-03
Antimony	5E-08	2E-06	5E-07	4E-06	7E-06	7E-06	2E-07			0E+00			2E-05
Arsenic	1E-08	5E-08	2E-08	9E-08	3E-07	1E-07	1E-08			8E-07			1E-06
Barium	2E-09	2E-09	5E-10	3E-09	1E-09	2E-08	8E-11			0E+00		1E-06	3E-08
Beryllium	7E-09	1E-09	2E-10	2E-09	1E-08	8E-11	2E-09			7E-09			3E-08
Cadmium	3E-08	3E-07	1E-07	4E-07	3E-08	2E-08	3E-09			2E-05			2E-05
Chromium VI	9E-10	2E-09	1E-09	5E-09	9E-08	2E-07	3E-09			1E-08			4E-07
Chromium III	4E-10	4E-11	3E-11	9E-11	3E-09	6E-09	6E-10			5E-13			1E-08
Cobalt	2E-09	4E-09	2E-11	8E-09	4E-07	4E-07	2E-08			0E+00			8E-07
Hydrogen Chloride												2E-05	
Selenium	1E-09	1E-08	1E-08	3E-08	3E-07	4E-06	5E-07			2E-04			2E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	2E-08	7E-07	4E-08	6E-07	2E-06	4E-06	4E-10			7E-05			7E-05
Methylmercury - Neurological Effects	6E-09	2E-07	1E-08	2E-07	5E-07	1E-06	1E-10			2E-05			2E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Kalamazoo River	4E-09	6E-08	0E+00	2E-09	6E-08
2,3,7,8-TCDD-TEQ	East Lake	4E-09	2E-08	0E+00	2E-09	3E-08
2,3,7,8-TCDD-TEQ	Portage Creek	4E-09	3E-07	0E+00	2E-09	3E-07
2,3,7,8-TCDD-TEQ	Portage River	4E-09	2E-07	0E+00	2E-09	2E-07
Nickel	Kalamazoo River				1E-09	
Nickel	East Lake				1E-09	
Nickel	Portage Creek				1E-09	
Nickel	Portage River				1E-09	
Arsenic	Kalamazoo River	1E-11	6E-13	0E+00	2E-10	1E-11
Arsenic	East Lake	1E-11	2E-12	0E+00	2E-10	1E-11
Arsenic	Portage Creek	1E-11	6E-12	0E+00	2E-10	2E-11
Arsenic	Portage River	1E-11	4E-12	0E+00	2E-10	1E-11
Beryllium	Kalamazoo River				3E-11	
Beryllium	East Lake				3E-11	
Beryllium	Portage Creek				3E-11	
Beryllium	Portage River				3E-11	
Cadmium	Kalamazoo River				2E-10	
Cadmium	East Lake				2E-10	
Cadmium	Portage Creek				2E-10	
Cadmium	Portage River				2E-10	
Chromium VI	Kalamazoo River				1E-09	
Chromium VI	East Lake				1E-09	
Chromium VI	Portage Creek				1E-09	
Chromium VI	Portage River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Kalamazoo River	2E-07	0E+00	0E+00	9E-04	2E-07
Manganese	East Lake	2E-07	0E+00	0E+00	9E-04	2E-07
Manganese	Portage Creek	2E-07	0E+00	0E+00	9E-04	2E-07
Manganese	Portage River	2E-07	0E+00	0E+00	9E-04	2E-07
Mercury (elemental)	Kalamazoo River				1E-06	
Mercury (elemental)	East Lake				1E-06	
Mercury (elemental)	Portage Creek				1E-06	
Mercury (elemental)	Portage River				1E-06	
Mercury (divalent)	Kalamazoo River	5E-06		0E+00		5E-06
Mercury (divalent)	East Lake	5E-06		0E+00		5E-06
Mercury (divalent)	Portage Creek	5E-06		0E+00		5E-06
Mercury (divalent)	Portage River	5E-06		0E+00		5E-06
Nickel	Kalamazoo River	3E-07	5E-09	0E+00		3E-07
Nickel	East Lake	3E-07	2E-08	0E+00		3E-07
Nickel	Portage Creek	3E-07	5E-08	0E+00		3E-07
Nickel	Portage River	3E-07	3E-08	0E+00		3E-07
Silver	Kalamazoo River	5E-09	0E+00	0E+00		5E-09
Silver	East Lake	5E-09	0E+00	0E+00		5E-09
Silver	Portage Creek	5E-09	0E+00	0E+00		5E-09
Silver	Portage River	5E-09	0E+00	0E+00		5E-09
Thallium	Kalamazoo River	2E-05	1E-05	0E+00		4E-05
Thallium	East Lake	2E-05	4E-05	0E+00		6E-05
Thallium	Portage Creek	2E-05	1E-04	0E+00		1E-04
Thallium	Portage River	2E-05	7E-05	0E+00		1E-04

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Kalamazoo River	9E-07	0E+00	0E+00		9E-07
Antimony	East Lake	9E-07	0E+00	0E+00		9E-07
Antimony	Portage Creek	9E-07	0E+00	0E+00		9E-07
Antimony	Portage River	9E-07	0E+00	0E+00		9E-07
Arsenic	Kalamazoo River	3E-07	1E-08	0E+00		3E-07
Arsenic	East Lake	3E-07	5E-08	0E+00		3E-07
Arsenic	Portage Creek	3E-07	2E-07	0E+00		4E-07
Arsenic	Portage River	3E-07	9E-08	0E+00		3E-07
Barium	Kalamazoo River	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	East Lake	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	Portage Creek	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	Portage River	3E-08	0E+00	0E+00	1E-06	3E-08
Beryllium	Kalamazoo River	1E-07	2E-09	0E+00		1E-07
Beryllium	East Lake	1E-07	4E-09	0E+00		1E-07
Beryllium	Portage Creek	1E-07	2E-08	0E+00		1E-07
Beryllium	Portage River	1E-07	1E-08	0E+00		1E-07
Cadmium	Kalamazoo River	6E-07	4E-07	0E+00		1E-06
Cadmium	East Lake	6E-07	2E-06	0E+00		2E-06
Cadmium	Portage Creek	6E-07	5E-06	0E+00		6E-06
Cadmium	Portage River	6E-07	3E-06	0E+00		3E-06
Chromium VI	Kalamazoo River	2E-08	2E-10	0E+00		2E-08
Chromium VI	East Lake	2E-08	9E-10	0E+00		2E-08
Chromium VI	Portage Creek	2E-08	3E-09	0E+00		2E-08
Chromium VI	Portage River	2E-08	2E-09	0E+00		2E-08
Chromium III	Kalamazoo River	6E-09	3E-12	0E+00		6E-09
Chromium III	East Lake	6E-09	3E-13	0E+00		6E-09
Chromium III	Portage Creek	6E-09	8E-12	0E+00		6E-09
Chromium III	Portage River	6E-09	4E-12	0E+00		6E-09
Cobalt	Kalamazoo River	4E-08	0E+00	0E+00		4E-08
Cobalt	East Lake	4E-08	0E+00	0E+00		4E-08
Cobalt	Portage Creek	4E-08	0E+00	0E+00		4E-08
Cobalt	Portage River	4E-08	0E+00	0E+00		4E-08
Hydrogen Chloride	Kalamazoo River				2E-05	
Hydrogen Chloride	East Lake				2E-05	
Hydrogen Chloride	Portage Creek				2E-05	
Hydrogen Chloride	Portage River				2E-05	
Selenium	Kalamazoo River	2E-08	3E-06	0E+00		3E-06
Selenium	East Lake	2E-08	1E-05	0E+00		1E-05
Selenium	Portage Creek	2E-08	3E-05	0E+00		3E-05
Selenium	Portage River	2E-08	2E-05	0E+00		2E-05
Chlorine	Kalamazoo River				2E-03	
Chlorine	East Lake				2E-03	
Chlorine	Portage Creek				2E-03	
Chlorine	Portage River				2E-03	
Methylmercury - Developmental Effects	Kalamazoo River	3E-07	4E-05	0E+00		4E-05
Methylmercury - Developmental Effects	East Lake	3E-07	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Portage Creek	3E-07	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Portage River	3E-07	2E-04	0E+00		2E-04

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Kalamazoo River	1E-07	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	East Lake	1E-07	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Portage Creek	1E-07	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Portage River	1E-07	6E-05	0E+00		6E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Kalamazoo River	1E-09	8E-08	0E+00	2E-09	8E-08
2,3,7,8-TCDD-TEQ	East Lake	1E-09	3E-08	0E+00	2E-09	3E-08
2,3,7,8-TCDD-TEQ	Portage Creek	1E-09	4E-07	0E+00	2E-09	4E-07
2,3,7,8-TCDD-TEQ	Portage River	1E-09	2E-07	0E+00	2E-09	2E-07
Nickel	Kalamazoo River				1E-09	
Nickel	East Lake				1E-09	
Nickel	Portage Creek				1E-09	
Nickel	Portage River				1E-09	
Arsenic	Kalamazoo River	4E-12	8E-13	0E+00	3E-10	4E-12
Arsenic	East Lake	4E-12	3E-12	0E+00	3E-10	6E-12
Arsenic	Portage Creek	4E-12	8E-12	0E+00	3E-10	1E-11
Arsenic	Portage River	4E-12	5E-12	0E+00	3E-10	8E-12
Beryllium	Kalamazoo River				3E-11	
Beryllium	East Lake				3E-11	
Beryllium	Portage Creek				3E-11	
Beryllium	Portage River				3E-11	
Cadmium	Kalamazoo River				2E-10	
Cadmium	East Lake				2E-10	
Cadmium	Portage Creek				2E-10	
Cadmium	Portage River				2E-10	
Chromium VI	Kalamazoo River				1E-09	
Chromium VI	East Lake				1E-09	
Chromium VI	Portage Creek				1E-09	
Chromium VI	Portage River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Kalamazoo River	4E-08	0E+00	0E+00	9E-04	4E-08
Manganese	East Lake	4E-08	0E+00	0E+00	9E-04	4E-08
Manganese	Portage Creek	4E-08	0E+00	0E+00	9E-04	4E-08
Manganese	Portage River	4E-08	0E+00	0E+00	9E-04	4E-08
Mercury (elemental)	Kalamazoo River				1E-06	
Mercury (elemental)	East Lake				1E-06	
Mercury (elemental)	Portage Creek				1E-06	
Mercury (elemental)	Portage River				1E-06	
Mercury (divalent)	Kalamazoo River	1E-06		0E+00		1E-06
Mercury (divalent)	East Lake	1E-06		0E+00		1E-06
Mercury (divalent)	Portage Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Portage River	1E-06		0E+00		1E-06
Nickel	Kalamazoo River	7E-08	5E-09	0E+00		7E-08
Nickel	East Lake	7E-08	2E-08	0E+00		8E-08
Nickel	Portage Creek	7E-08	5E-08	0E+00		1E-07
Nickel	Portage River	7E-08	3E-08	0E+00		1E-07
Silver	Kalamazoo River	1E-09	0E+00	0E+00		1E-09
Silver	East Lake	1E-09	0E+00	0E+00		1E-09
Silver	Portage Creek	1E-09	0E+00	0E+00		1E-09
Silver	Portage River	1E-09	0E+00	0E+00		1E-09
Thallium	Kalamazoo River	7E-06	1E-05	0E+00		2E-05
Thallium	East Lake	7E-06	4E-05	0E+00		5E-05
Thallium	Portage Creek	7E-06	1E-04	0E+00		1E-04
Thallium	Portage River	7E-06	7E-05	0E+00		8E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Kalamazoo River	2E-07	0E+00	0E+00		2E-07
Antimony	East Lake	2E-07	0E+00	0E+00		2E-07
Antimony	Portage Creek	2E-07	0E+00	0E+00		2E-07
Antimony	Portage River	2E-07	0E+00	0E+00		2E-07
Arsenic	Kalamazoo River	7E-08	1E-08	0E+00		8E-08
Arsenic	East Lake	7E-08	5E-08	0E+00		1E-07
Arsenic	Portage Creek	7E-08	2E-07	0E+00		2E-07
Arsenic	Portage River	7E-08	9E-08	0E+00		2E-07
Barium	Kalamazoo River	9E-09	0E+00	0E+00	1E-06	9E-09
Barium	East Lake	9E-09	0E+00	0E+00	1E-06	9E-09
Barium	Portage Creek	9E-09	0E+00	0E+00	1E-06	9E-09
Barium	Portage River	9E-09	0E+00	0E+00	1E-06	9E-09
Beryllium	Kalamazoo River	3E-08	2E-09	0E+00		4E-08
Beryllium	East Lake	3E-08	4E-09	0E+00		4E-08
Beryllium	Portage Creek	3E-08	2E-08	0E+00		5E-08
Beryllium	Portage River	3E-08	1E-08	0E+00		4E-08
Cadmium	Kalamazoo River	2E-07	4E-07	0E+00		6E-07
Cadmium	East Lake	2E-07	2E-06	0E+00		2E-06
Cadmium	Portage Creek	2E-07	5E-06	0E+00		5E-06
Cadmium	Portage River	2E-07	3E-06	0E+00		3E-06
Chromium VI	Kalamazoo River	4E-09	2E-10	0E+00		5E-09
Chromium VI	East Lake	4E-09	9E-10	0E+00		5E-09
Chromium VI	Portage Creek	4E-09	3E-09	0E+00		7E-09
Chromium VI	Portage River	4E-09	2E-09	0E+00		6E-09
Chromium III	Kalamazoo River	2E-09	3E-12	0E+00		2E-09
Chromium III	East Lake	2E-09	3E-13	0E+00		2E-09
Chromium III	Portage Creek	2E-09	8E-12	0E+00		2E-09
Chromium III	Portage River	2E-09	4E-12	0E+00		2E-09
Cobalt	Kalamazoo River	1E-08	0E+00	0E+00		1E-08
Cobalt	East Lake	1E-08	0E+00	0E+00		1E-08
Cobalt	Portage Creek	1E-08	0E+00	0E+00		1E-08
Cobalt	Portage River	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Kalamazoo River				2E-05	
Hydrogen Chloride	East Lake				2E-05	
Hydrogen Chloride	Portage Creek				2E-05	
Hydrogen Chloride	Portage River				2E-05	
Selenium	Kalamazoo River	7E-09	3E-06	0E+00		3E-06
Selenium	East Lake	7E-09	1E-05	0E+00		1E-05
Selenium	Portage Creek	7E-09	3E-05	0E+00		3E-05
Selenium	Portage River	7E-09	2E-05	0E+00		2E-05
Chlorine	Kalamazoo River				2E-03	
Chlorine	East Lake				2E-03	
Chlorine	Portage Creek				2E-03	
Chlorine	Portage River				2E-03	
Methylmercury - Developmental Effects	Kalamazoo River	8E-08	4E-05	0E+00		4E-05
Methylmercury - Developmental Effects	East Lake	8E-08	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Portage Creek	8E-08	3E-04	0E+00		3E-04
Methylmercury - Developmental Effects	Portage River	8E-08	2E-04	0E+00		2E-04

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Kalamazoo River	3E-08	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	East Lake	3E-08	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Portage Creek	3E-08	1E-04	0E+00		1E-04
Methylmercury - Neurological Effects	Portage River	3E-08	6E-05	0E+00		6E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Kalamazoo River	7E-10	6E-08	0E+00	1E-09	6E-08
2,3,7,8-TCDD-TEQ	East Lake	7E-10	2E-08	0E+00	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Portage Creek	7E-10	3E-07	0E+00	1E-09	3E-07
2,3,7,8-TCDD-TEQ	Portage River	7E-10	2E-07	0E+00	1E-09	2E-07
Nickel	Kalamazoo River				9E-10	
Nickel	East Lake				9E-10	
Nickel	Portage Creek				9E-10	
Nickel	Portage River				9E-10	
Arsenic	Kalamazoo River	2E-12	6E-13	0E+00	2E-10	2E-12
Arsenic	East Lake	2E-12	2E-12	0E+00	2E-10	4E-12
Arsenic	Portage Creek	2E-12	6E-12	0E+00	2E-10	8E-12
Arsenic	Portage River	2E-12	4E-12	0E+00	2E-10	5E-12
Beryllium	Kalamazoo River				2E-11	
Beryllium	East Lake				2E-11	
Beryllium	Portage Creek				2E-11	
Beryllium	Portage River				2E-11	
Cadmium	Kalamazoo River				1E-10	
Cadmium	East Lake				1E-10	
Cadmium	Portage Creek				1E-10	
Cadmium	Portage River				1E-10	
Chromium VI	Kalamazoo River				8E-10	
Chromium VI	East Lake				8E-10	
Chromium VI	Portage Creek				8E-10	
Chromium VI	Portage River				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Kalamazoo River	2E-08	0E+00	0E+00	9E-04	2E-08
Manganese	East Lake	2E-08	0E+00	0E+00	9E-04	2E-08
Manganese	Portage Creek	2E-08	0E+00	0E+00	9E-04	2E-08
Manganese	Portage River	2E-08	0E+00	0E+00	9E-04	2E-08
Mercury (elemental)	Kalamazoo River				1E-06	
Mercury (elemental)	East Lake				1E-06	
Mercury (elemental)	Portage Creek				1E-06	
Mercury (elemental)	Portage River				1E-06	
Mercury (divalent)	Kalamazoo River	7E-07		0E+00		7E-07
Mercury (divalent)	East Lake	7E-07		0E+00		7E-07
Mercury (divalent)	Portage Creek	7E-07		0E+00		7E-07
Mercury (divalent)	Portage River	7E-07		0E+00		7E-07
Nickel	Kalamazoo River	4E-08	3E-09	0E+00		4E-08
Nickel	East Lake	4E-08	1E-08	0E+00		5E-08
Nickel	Portage Creek	4E-08	4E-08	0E+00		7E-08
Nickel	Portage River	4E-08	2E-08	0E+00		6E-08
Silver	Kalamazoo River	7E-10	0E+00	0E+00		7E-10
Silver	East Lake	7E-10	0E+00	0E+00		7E-10
Silver	Portage Creek	7E-10	0E+00	0E+00		7E-10
Silver	Portage River	7E-10	0E+00	0E+00		7E-10
Thallium	Kalamazoo River	3E-06	8E-06	0E+00		1E-05
Thallium	East Lake	3E-06	3E-05	0E+00		3E-05
Thallium	Portage Creek	3E-06	9E-05	0E+00		9E-05
Thallium	Portage River	3E-06	5E-05	0E+00		5E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Kalamazoo River	1E-07	0E+00	0E+00		1E-07
Antimony	East Lake	1E-07	0E+00	0E+00		1E-07
Antimony	Portage Creek	1E-07	0E+00	0E+00		1E-07
Antimony	Portage River	1E-07	0E+00	0E+00		1E-07
Arsenic	Kalamazoo River	3E-08	1E-08	0E+00		4E-08
Arsenic	East Lake	3E-08	3E-08	0E+00		7E-08
Arsenic	Portage Creek	3E-08	1E-07	0E+00		1E-07
Arsenic	Portage River	3E-08	6E-08	0E+00		1E-07
Barium	Kalamazoo River	5E-09	0E+00	0E+00	1E-06	5E-09
Barium	East Lake	5E-09	0E+00	0E+00	1E-06	5E-09
Barium	Portage Creek	5E-09	0E+00	0E+00	1E-06	5E-09
Barium	Portage River	5E-09	0E+00	0E+00	1E-06	5E-09
Beryllium	Kalamazoo River	2E-08	1E-09	0E+00		2E-08
Beryllium	East Lake	2E-08	3E-09	0E+00		2E-08
Beryllium	Portage Creek	2E-08	1E-08	0E+00		3E-08
Beryllium	Portage River	2E-08	7E-09	0E+00		2E-08
Cadmium	Kalamazoo River	8E-08	3E-07	0E+00		4E-07
Cadmium	East Lake	8E-08	1E-06	0E+00		1E-06
Cadmium	Portage Creek	8E-08	4E-06	0E+00		4E-06
Cadmium	Portage River	8E-08	2E-06	0E+00		2E-06
Chromium VI	Kalamazoo River	2E-09	2E-10	0E+00		2E-09
Chromium VI	East Lake	2E-09	6E-10	0E+00		3E-09
Chromium VI	Portage Creek	2E-09	2E-09	0E+00		4E-09
Chromium VI	Portage River	2E-09	1E-09	0E+00		3E-09
Chromium III	Kalamazoo River	9E-10	2E-12	0E+00		9E-10
Chromium III	East Lake	9E-10	2E-13	0E+00		9E-10
Chromium III	Portage Creek	9E-10	6E-12	0E+00		9E-10
Chromium III	Portage River	9E-10	3E-12	0E+00		9E-10
Cobalt	Kalamazoo River	6E-09	0E+00	0E+00		6E-09
Cobalt	East Lake	6E-09	0E+00	0E+00		6E-09
Cobalt	Portage Creek	6E-09	0E+00	0E+00		6E-09
Cobalt	Portage River	6E-09	0E+00	0E+00		6E-09
Hydrogen Chloride	Kalamazoo River				2E-05	
Hydrogen Chloride	East Lake				2E-05	
Hydrogen Chloride	Portage Creek				2E-05	
Hydrogen Chloride	Portage River				2E-05	
Selenium	Kalamazoo River	3E-09	2E-06	0E+00		2E-06
Selenium	East Lake	3E-09	7E-06	0E+00		7E-06
Selenium	Portage Creek	3E-09	2E-05	0E+00		2E-05
Selenium	Portage River	3E-09	1E-05	0E+00		1E-05
Chlorine	Kalamazoo River				2E-03	
Chlorine	East Lake				2E-03	
Chlorine	Portage Creek				2E-03	
Chlorine	Portage River				2E-03	
Methylmercury - Developmental Effects	Kalamazoo River	4E-08	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	East Lake	4E-08	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Portage Creek	4E-08	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Portage River	4E-08	1E-04	0E+00		1E-04

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Kalamazoo River	1E-08	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	East Lake	1E-08	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Portage Creek	1E-08	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Portage River	1E-08	4E-05	0E+00		4E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Kalamazoo River	5E-10	1E-07	0E+00	2E-09	1E-07
2,3,7,8-TCDD-TEQ	East Lake	5E-10	4E-08	0E+00	2E-09	4E-08
2,3,7,8-TCDD-TEQ	Portage Creek	5E-10	5E-07	0E+00	2E-09	5E-07
2,3,7,8-TCDD-TEQ	Portage River	5E-10	3E-07	0E+00	2E-09	3E-07
Nickel	Kalamazoo River				1E-09	
Nickel	East Lake				1E-09	
Nickel	Portage Creek				1E-09	
Nickel	Portage River				1E-09	
Arsenic	Kalamazoo River	1E-12	1E-12	0E+00	2E-10	3E-12
Arsenic	East Lake	1E-12	4E-12	0E+00	2E-10	5E-12
Arsenic	Portage Creek	1E-12	1E-11	0E+00	2E-10	1E-11
Arsenic	Portage River	1E-12	7E-12	0E+00	2E-10	8E-12
Beryllium	Kalamazoo River				3E-11	
Beryllium	East Lake				3E-11	
Beryllium	Portage Creek				3E-11	
Beryllium	Portage River				3E-11	
Cadmium	Kalamazoo River				2E-10	
Cadmium	East Lake				2E-10	
Cadmium	Portage Creek				2E-10	
Cadmium	Portage River				2E-10	
Chromium VI	Kalamazoo River				1E-09	
Chromium VI	East Lake				1E-09	
Chromium VI	Portage Creek				1E-09	
Chromium VI	Portage River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Kalamazoo River	9E-09	0E+00	0E+00	9E-04	9E-09
Manganese	East Lake	9E-09	0E+00	0E+00	9E-04	9E-09
Manganese	Portage Creek	9E-09	0E+00	0E+00	9E-04	9E-09
Manganese	Portage River	9E-09	0E+00	0E+00	9E-04	9E-09
Mercury (elemental)	Kalamazoo River				1E-06	
Mercury (elemental)	East Lake				1E-06	
Mercury (elemental)	Portage Creek				1E-06	
Mercury (elemental)	Portage River				1E-06	
Mercury (divalent)	Kalamazoo River	3E-07		0E+00		3E-07
Mercury (divalent)	East Lake	3E-07		0E+00		3E-07
Mercury (divalent)	Portage Creek	3E-07		0E+00		3E-07
Mercury (divalent)	Portage River	3E-07		0E+00		3E-07
Nickel	Kalamazoo River	1E-08	3E-09	0E+00		2E-08
Nickel	East Lake	1E-08	1E-08	0E+00		3E-08
Nickel	Portage Creek	1E-08	4E-08	0E+00		5E-08
Nickel	Portage River	1E-08	2E-08	0E+00		4E-08
Silver	Kalamazoo River	3E-10	0E+00	0E+00		3E-10
Silver	East Lake	3E-10	0E+00	0E+00		3E-10
Silver	Portage Creek	3E-10	0E+00	0E+00		3E-10
Silver	Portage River	3E-10	0E+00	0E+00		3E-10
Thallium	Kalamazoo River	1E-06	8E-06	0E+00		9E-06
Thallium	East Lake	1E-06	3E-05	0E+00		3E-05
Thallium	Portage Creek	1E-06	9E-05	0E+00		9E-05
Thallium	Portage River	1E-06	5E-05	0E+00		5E-05

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Kalamazoo River	5E-08	0E+00	0E+00		5E-08
Antimony	East Lake	5E-08	0E+00	0E+00		5E-08
Antimony	Portage Creek	5E-08	0E+00	0E+00		5E-08
Antimony	Portage River	5E-08	0E+00	0E+00		5E-08
Arsenic	Kalamazoo River	1E-08	1E-08	0E+00		2E-08
Arsenic	East Lake	1E-08	3E-08	0E+00		5E-08
Arsenic	Portage Creek	1E-08	1E-07	0E+00		1E-07
Arsenic	Portage River	1E-08	6E-08	0E+00		8E-08
Barium	Kalamazoo River	2E-09	0E+00	0E+00	1E-06	2E-09
Barium	East Lake	2E-09	0E+00	0E+00	1E-06	2E-09
Barium	Portage Creek	2E-09	0E+00	0E+00	1E-06	2E-09
Barium	Portage River	2E-09	0E+00	0E+00	1E-06	2E-09
Beryllium	Kalamazoo River	7E-09	1E-09	0E+00		9E-09
Beryllium	East Lake	7E-09	3E-09	0E+00		1E-08
Beryllium	Portage Creek	7E-09	1E-08	0E+00		2E-08
Beryllium	Portage River	7E-09	7E-09	0E+00		1E-08
Cadmium	Kalamazoo River	3E-08	3E-07	0E+00		4E-07
Cadmium	East Lake	3E-08	1E-06	0E+00		1E-06
Cadmium	Portage Creek	3E-08	4E-06	0E+00		4E-06
Cadmium	Portage River	3E-08	2E-06	0E+00		2E-06
Chromium VI	Kalamazoo River	9E-10	2E-10	0E+00		1E-09
Chromium VI	East Lake	9E-10	6E-10	0E+00		2E-09
Chromium VI	Portage Creek	9E-10	2E-09	0E+00		3E-09
Chromium VI	Portage River	9E-10	1E-09	0E+00		2E-09
Chromium III	Kalamazoo River	4E-10	2E-12	0E+00		4E-10
Chromium III	East Lake	4E-10	2E-13	0E+00		4E-10
Chromium III	Portage Creek	4E-10	6E-12	0E+00		4E-10
Chromium III	Portage River	4E-10	3E-12	0E+00		4E-10
Cobalt	Kalamazoo River	2E-09	0E+00	0E+00		2E-09
Cobalt	East Lake	2E-09	0E+00	0E+00		2E-09
Cobalt	Portage Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Portage River	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Kalamazoo River				2E-05	
Hydrogen Chloride	East Lake				2E-05	
Hydrogen Chloride	Portage Creek				2E-05	
Hydrogen Chloride	Portage River				2E-05	
Selenium	Kalamazoo River	1E-09	2E-06	0E+00		2E-06
Selenium	East Lake	1E-09	7E-06	0E+00		7E-06
Selenium	Portage Creek	1E-09	2E-05	0E+00		2E-05
Selenium	Portage River	1E-09	1E-05	0E+00		1E-05
Chlorine	Kalamazoo River				2E-03	
Chlorine	East Lake				2E-03	
Chlorine	Portage Creek				2E-03	
Chlorine	Portage River				2E-03	
Methylmercury - Developmental Effects	Kalamazoo River	2E-08	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	East Lake	2E-08	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Portage Creek	2E-08	2E-04	0E+00		2E-04
Methylmercury - Developmental Effects	Portage River	2E-08	1E-04	0E+00		1E-04

Table IX-E4. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 342) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Kalamazoo River	6E-09	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	East Lake	6E-09	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Portage Creek	6E-09	7E-05	0E+00		7E-05
Methylmercury - Neurological Effects	Portage River	6E-09	4E-05	0E+00		4E-05

Table IX-E5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	2E-10	2E-10	5E-10	8E-08	9E-07	1E-08	1E-07	5E-08	3E-08	3E-12	5E-10	1E-06
Nickel												4E-12	
Arsenic	4E-12	2E-12	6E-13	4E-12	1E-11	2E-11	8E-13			2E-11	5E-12	3E-11	7E-11
Beryllium												2E-12	
Cadmium												1E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-08	4E-08	2E-08	8E-08	1E-08	7E-07	1E-09			0E+00	2E-08	8E-05	9E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	1E-04	4E-07	2E-04	1E-04	1E-03	5E-08				2E-08		2E-03
Nickel	2E-09	1E-09	4E-10	3E-09	3E-08	3E-07	2E-09			4E-09	3E-09		3E-07
Silver	1E-09	1E-08	3E-09	4E-08	3E-07	1E-04	1E-08			0E+00	7E-08		1E-04
Thallium	5E-06	5E-07	3E-08	1E-06	1E-04	4E-04	1E-05			2E-04	2E-06		8E-04
Antimony	3E-08	2E-07	3E-08	4E-07	7E-07	4E-06	3E-08			0E+00	6E-07		6E-06
Arsenic	9E-08	4E-08	2E-08	1E-07	3E-07	6E-07	2E-08			6E-07	1E-07		2E-06
Barium	1E-06	1E-07	3E-08	2E-07	6E-08	8E-06	9E-09			0E+00	6E-09	1E-05	9E-06
Beryllium	4E-08	5E-10	1E-10	1E-09	6E-09	2E-10	2E-09			2E-09	3E-10		5E-08
Cadmium	8E-07	1E-06	5E-07	2E-06	9E-08	3E-07	1E-08			5E-05	5E-07		5E-05
Chromium VI	1E-07	5E-08	2E-08	1E-07	2E-06	3E-05	1E-07			2E-07	3E-07		3E-05
Chromium III	1E-07	2E-09	1E-09	5E-09	1E-07	1E-06	4E-08			1E-11	2E-12		2E-06
Cobalt	8E-09	2E-09	1E-11	5E-09	2E-07	1E-06	1E-08			0E+00	6E-09		1E-06
Hydrogen Chloride												8E-04	
Selenium	3E-08	4E-08	2E-08	1E-07	1E-06	9E-05	3E-06			5E-04	3E-07		6E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	2E-07	4E-05	6E-08	4E-05	8E-05	1E-03	1E-08			6E-05	1E-09		1E-03
Methylmercury - Neurological Effects	8E-08	1E-05	2E-08	1E-05	3E-05	4E-04	5E-09			2E-05	3E-10		5E-04

Table IX-E5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	1E-10	2E-10	6E-10	1E-07	6E-07	9E-09	1E-07	6E-08	3E-08	2E-12	6E-10	1E-06
Nickel												4E-12	
Arsenic	1E-12	1E-12	6E-13	5E-12	2E-11	2E-11	6E-13			2E-11	4E-12	4E-11	7E-11
Beryllium												3E-12	
Cadmium												1E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-09	2E-08	1E-08	8E-08	2E-08	3E-07	6E-10			0E+00	9E-09	8E-05	5E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	NA	7E-05	3E-07	2E-04	1E-04	8E-04	3E-08				9E-09		1E-03
Nickel	5E-10	6E-10	3E-10	3E-09	3E-08	1E-07	9E-10			3E-09	2E-09		2E-07
Silver	2E-10	8E-09	2E-09	4E-08	3E-07	5E-05	6E-09			0E+00	4E-08		5E-05
Thallium	1E-06	3E-07	2E-08	1E-06	2E-04	2E-04	8E-06			1E-04	1E-06		5E-04
Antimony	9E-09	9E-08	2E-08	4E-07	9E-07	2E-06	2E-08			0E+00	3E-07		4E-06
Arsenic	2E-08	2E-08	1E-08	1E-07	4E-07	3E-07	1E-08			4E-07	6E-08		1E-06
Barium	3E-07	7E-08	2E-08	2E-07	7E-08	4E-06	5E-09			0E+00	3E-09	1E-05	5E-06
Beryllium	1E-08	3E-10	7E-11	1E-09	7E-09	1E-10	1E-09			2E-09	2E-10		2E-08
Cadmium	2E-07	6E-07	3E-07	2E-06	1E-07	2E-07	9E-09			3E-05	3E-07		4E-05
Chromium VI	4E-08	3E-08	1E-08	1E-07	2E-06	2E-05	6E-08			2E-07	2E-07		2E-05
Chromium III	4E-08	1E-09	8E-10	4E-09	1E-07	7E-07	2E-08			9E-12	1E-12		9E-07
Cobalt	2E-09	1E-09	7E-12	5E-09	2E-07	5E-07	8E-09			0E+00	4E-09		8E-07
Hydrogen Chloride												8E-04	
Selenium	9E-09	2E-08	2E-08	1E-07	1E-06	4E-05	2E-06			4E-04	1E-07		4E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	6E-08	2E-05	4E-08	4E-05	1E-04	6E-04	9E-09			4E-05	6E-10		8E-04
Methylmercury - Neurological Effects	2E-08	7E-06	1E-08	1E-05	3E-05	2E-04	3E-09			1E-05	2E-10		3E-04

Table IX-E5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	1E-10	1E-10	3E-10	6E-08	3E-07	6E-09	6E-08	3E-08	2E-08	1E-12	4E-10	5E-07
Nickel												3E-12	
Arsenic	7E-13	1E-12	4E-13	3E-12	1E-11	7E-12	4E-13			1E-11	2E-12	3E-11	4E-11
Beryllium												2E-12	
Cadmium												8E-11	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-09	2E-08	1E-08	4E-08	7E-09	2E-07	4E-10			0E+00	6E-09	8E-05	2E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	5E-07	5E-05	2E-07	1E-04	5E-05	3E-04	2E-08			0E+00	6E-09		6E-04
Nickel	3E-10	5E-10	2E-10	1E-09	2E-08	6E-08	6E-10			2E-09	1E-09		9E-08
Silver	1E-10	6E-09	2E-09	2E-08	1E-07	2E-05	4E-09			0E+00	2E-08		2E-05
Thallium	7E-07	2E-07	1E-08	7E-07	8E-05	1E-04	5E-06			8E-05	9E-07		3E-04
Antimony	5E-09	7E-08	2E-08	2E-07	4E-07	1E-06	1E-08			0E+00	2E-07		2E-06
Arsenic	1E-08	2E-08	8E-09	5E-08	2E-07	1E-07	7E-09			2E-07	4E-08		7E-07
Barium	2E-07	5E-08	2E-08	1E-07	3E-08	2E-06	3E-09			0E+00	2E-09	1E-05	2E-06
Beryllium	5E-09	2E-10	5E-11	7E-10	3E-09	6E-11	7E-10			9E-10	1E-10		1E-08
Cadmium	1E-07	4E-07	2E-07	1E-06	5E-08	7E-08	6E-09			2E-05	2E-07		2E-05
Chromium VI	2E-08	2E-08	9E-09	7E-08	1E-06	7E-06	4E-08			1E-07	1E-07		9E-06
Chromium III	2E-08	8E-10	5E-10	2E-09	6E-08	3E-07	1E-08			5E-12	6E-13		4E-07
Cobalt	1E-09	9E-10	5E-12	3E-09	1E-07	2E-07	5E-09			0E+00	2E-09		4E-07
Hydrogen Chloride												8E-04	
Selenium	5E-09	2E-08	1E-08	6E-08	5E-07	2E-05	1E-06			2E-04	9E-08		2E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	3E-08	2E-05	3E-08	2E-05	4E-05	3E-04	6E-09			2E-05	4E-10		4E-04
Methylmercury - Neurological Effects	1E-08	6E-06	1E-08	7E-06	1E-05	9E-05	2E-09			8E-06	1E-10		1E-04

Table IX-E5. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	3E-10	2E-10	6E-10	1E-07	2E-07	1E-08	1E-07	5E-08	4E-08	3E-12	6E-10	6E-07
Nickel												4E-12	
Arsenic	5E-13	2E-12	8E-13	5E-12	2E-11	6E-12	7E-13			3E-11	5E-12	4E-11	7E-11
Beryllium												2E-12	
Cadmium												1E-10	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	2E-08	1E-08	4E-08	8E-09	7E-08	4E-10			0E+00	7E-09	8E-05	2E-07
Mercury (elemental)												5E-05	
Mercury (divalent)	2E-07	7E-05	2E-07	1E-04	6E-05	2E-04	2E-08			0E+00	7E-09		4E-04
Nickel	1E-10	6E-10	2E-10	1E-09	2E-08	3E-08	5E-10			2E-09	1E-09		5E-08
Silver	5E-11	8E-09	2E-09	2E-08	2E-07	1E-05	3E-09			0E+00	3E-08		1E-05
Thallium	3E-07	3E-07	1E-08	6E-07	9E-05	4E-05	5E-06			9E-05	1E-06		2E-04
Antimony	2E-09	9E-08	2E-08	2E-07	5E-07	4E-07	1E-08			0E+00	3E-07		1E-06
Arsenic	5E-09	3E-08	1E-08	5E-08	2E-07	6E-08	6E-09			2E-07	5E-08		6E-07
Barium	7E-08	7E-08	2E-08	1E-07	4E-08	8E-07	3E-09			0E+00	2E-09	1E-05	1E-06
Beryllium	2E-09	3E-10	6E-11	7E-10	4E-09	2E-11	6E-10			1E-09	1E-10		8E-09
Cadmium	5E-08	6E-07	3E-07	9E-07	5E-08	3E-08	5E-09			2E-05	2E-07		2E-05
Chromium VI	8E-09	3E-08	1E-08	7E-08	1E-06	3E-06	4E-08			1E-07	1E-07		5E-06
Chromium III	8E-09	1E-09	6E-10	2E-09	7E-08	1E-07	1E-08			5E-12	7E-13		2E-07
Cobalt	4E-10	1E-09	6E-12	2E-09	1E-07	1E-07	5E-09			0E+00	3E-09		2E-07
Hydrogen Chloride												8E-04	
Selenium	2E-09	3E-08	1E-08	6E-08	6E-07	9E-06	1E-06			2E-04	1E-07		2E-04
Chlorine												1E-02	
Methylmercury - Developmental Effects	1E-08	2E-05	3E-08	2E-05	5E-05	1E-04	5E-09			3E-05	4E-10		2E-04
Methylmercury - Neurological Effects	4E-09	8E-06	1E-08	6E-06	2E-05	4E-05	2E-09			8E-06	1E-10		8E-05

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lake Spivey	5E-09	6E-09	5E-11	5E-10	1E-08
2,3,7,8-TCDD-TEQ	Jester Creek	5E-09	1E-07	5E-11	5E-10	1E-07
2,3,7,8-TCDD-TEQ	Flint River	5E-09	6E-08	5E-11	5E-10	7E-08
Nickel	Lake Spivey				4E-12	
Nickel	Jester Creek				4E-12	
Nickel	Flint River				4E-12	
Arsenic	Lake Spivey	4E-12	5E-13	3E-11	3E-11	3E-11
Arsenic	Jester Creek	4E-12	3E-12	3E-11	3E-11	4E-11
Arsenic	Flint River	4E-12	1E-12	3E-11	3E-11	4E-11
Beryllium	Lake Spivey				2E-12	
Beryllium	Jester Creek				2E-12	
Beryllium	Flint River				2E-12	
Cadmium	Lake Spivey				1E-10	
Cadmium	Jester Creek				1E-10	
Cadmium	Flint River				1E-10	
Chromium VI	Lake Spivey				4E-09	
Chromium VI	Jester Creek				4E-09	
Chromium VI	Flint River				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Lake Spivey	3E-08	0E+00	1E-07	8E-05	1E-07
Manganese	Jester Creek	3E-08	0E+00	1E-07	8E-05	1E-07
Manganese	Flint River	3E-08	0E+00	1E-07	8E-05	1E-07
Mercury (elemental)	Lake Spivey				5E-05	
Mercury (elemental)	Jester Creek				5E-05	
Mercury (elemental)	Flint River				5E-05	
Mercury (divalent)	Lake Spivey	4E-06		1E-07		4E-06
Mercury (divalent)	Jester Creek	4E-06		1E-07		4E-06
Mercury (divalent)	Flint River	4E-06		1E-07		4E-06
Nickel	Lake Spivey	2E-09	8E-11	2E-08		2E-08
Nickel	Jester Creek	2E-09	5E-10	2E-08		2E-08
Nickel	Flint River	2E-09	2E-10	2E-08		2E-08
Silver	Lake Spivey	1E-09	0E+00	4E-07		4E-07
Silver	Jester Creek	1E-09	0E+00	4E-07		4E-07
Silver	Flint River	1E-09	0E+00	4E-07		4E-07
Thallium	Lake Spivey	5E-06	5E-06	2E-05		3E-05
Thallium	Jester Creek	5E-06	3E-05	2E-05		6E-05
Thallium	Flint River	5E-06	1E-05	2E-05		4E-05
Antimony	Lake Spivey	3E-08	0E+00	4E-06		4E-06
Antimony	Jester Creek	3E-08	0E+00	4E-06		4E-06
Antimony	Flint River	3E-08	0E+00	4E-06		4E-06
Arsenic	Lake Spivey	9E-08	1E-08	8E-07		9E-07
Arsenic	Jester Creek	9E-08	8E-08	8E-07		9E-07
Arsenic	Flint River	9E-08	3E-08	8E-07		9E-07
Barium	Lake Spivey	1E-06	0E+00	1E-07	1E-05	1E-06
Barium	Jester Creek	1E-06	0E+00	1E-07	1E-05	1E-06
Barium	Flint River	1E-06	0E+00	1E-07	1E-05	1E-06
Beryllium	Lake Spivey	4E-08	2E-10	5E-09		4E-08
Beryllium	Jester Creek	4E-08	3E-09	5E-09		5E-08
Beryllium	Flint River	4E-08	2E-09	5E-09		4E-08

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Lake Spivey	8E-07	1E-06	3E-06		6E-06
Cadmium	Jester Creek	8E-07	1E-05	3E-06		1E-05
Cadmium	Flint River	8E-07	4E-06	3E-06		8E-06
Chromium VI	Lake Spivey	1E-07	5E-09	2E-06		2E-06
Chromium VI	Jester Creek	1E-07	3E-08	2E-06		2E-06
Chromium VI	Flint River	1E-07	1E-08	2E-06		2E-06
Chromium III	Lake Spivey	1E-07	6E-13	4E-11		1E-07
Chromium III	Jester Creek	1E-07	5E-11	4E-11		1E-07
Chromium III	Flint River	1E-07	3E-11	4E-11		1E-07
Cobalt	Lake Spivey	8E-09	0E+00	4E-11		8E-09
Cobalt	Jester Creek	8E-09	0E+00	4E-11		8E-09
Cobalt	Flint River	8E-09	0E+00	4E-11		8E-09
Hydrogen Chloride	Lake Spivey				8E-04	
Hydrogen Chloride	Jester Creek				8E-04	
Hydrogen Chloride	Flint River				8E-04	
Selenium	Lake Spivey	3E-08	1E-05	2E-06		1E-05
Selenium	Jester Creek	3E-08	6E-05	2E-06		6E-05
Selenium	Flint River	3E-08	3E-05	2E-06		3E-05
Chlorine	Lake Spivey				1E-02	
Chlorine	Jester Creek				1E-02	
Chlorine	Flint River				1E-02	
Methylmercury - Developmental Effects	Lake Spivey	2E-07	2E-04	2E-09		2E-04
Methylmercury - Developmental Effects	Jester Creek	2E-07	3E-04	2E-09		3E-04
Methylmercury - Developmental Effects	Flint River	2E-07	1E-04	2E-09		1E-04
Methylmercury - Neurological Effects	Lake Spivey	8E-08	5E-05	8E-10		5E-05
Methylmercury - Neurological Effects	Jester Creek	8E-08	1E-04	8E-10		1E-04
Methylmercury - Neurological Effects	Flint River	8E-08	5E-05	8E-10		5E-05

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lake Spivey	2E-09	8E-09	4E-11	6E-10	1E-08
2,3,7,8-TCDD-TEQ	Jester Creek	2E-09	1E-07	4E-11	6E-10	1E-07
2,3,7,8-TCDD-TEQ	Flint River	2E-09	8E-08	4E-11	6E-10	9E-08
Nickel	Lake Spivey				4E-12	
Nickel	Jester Creek				4E-12	
Nickel	Flint River				4E-12	
Arsenic	Lake Spivey	1E-12	6E-13	2E-11	4E-11	3E-11
Arsenic	Jester Creek	1E-12	4E-12	2E-11	4E-11	3E-11
Arsenic	Flint River	1E-12	2E-12	2E-11	4E-11	3E-11
Beryllium	Lake Spivey				3E-12	
Beryllium	Jester Creek				3E-12	
Beryllium	Flint River				3E-12	
Cadmium	Lake Spivey				1E-10	
Cadmium	Jester Creek				1E-10	
Cadmium	Flint River				1E-10	
Chromium VI	Lake Spivey				4E-09	
Chromium VI	Jester Creek				4E-09	
Chromium VI	Flint River				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Lake Spivey	8E-09	0E+00	6E-08	8E-05	7E-08
Manganese	Jester Creek	8E-09	0E+00	6E-08	8E-05	7E-08
Manganese	Flint River	8E-09	0E+00	6E-08	8E-05	7E-08
Mercury (elemental)	Lake Spivey				5E-05	
Mercury (elemental)	Jester Creek				5E-05	
Mercury (elemental)	Flint River				5E-05	
Mercury (divalent)	Lake Spivey	1E-06		6E-08		1E-06
Mercury (divalent)	Jester Creek	1E-06		6E-08		1E-06
Mercury (divalent)	Flint River	1E-06		6E-08		1E-06
Nickel	Lake Spivey	5E-10	8E-11	1E-08		1E-08
Nickel	Jester Creek	5E-10	5E-10	1E-08		1E-08
Nickel	Flint River	5E-10	2E-10	1E-08		1E-08
Silver	Lake Spivey	2E-10	0E+00	2E-07		2E-07
Silver	Jester Creek	2E-10	0E+00	2E-07		2E-07
Silver	Flint River	2E-10	0E+00	2E-07		2E-07
Thallium	Lake Spivey	1E-06	5E-06	9E-06		2E-05
Thallium	Jester Creek	1E-06	3E-05	9E-06		4E-05
Thallium	Flint River	1E-06	1E-05	9E-06		3E-05
Antimony	Lake Spivey	9E-09	0E+00	2E-06		2E-06
Antimony	Jester Creek	9E-09	0E+00	2E-06		2E-06
Antimony	Flint River	9E-09	0E+00	2E-06		2E-06
Arsenic	Lake Spivey	2E-08	1E-08	4E-07		5E-07
Arsenic	Jester Creek	2E-08	8E-08	4E-07		5E-07
Arsenic	Flint River	2E-08	3E-08	4E-07		5E-07
Barium	Lake Spivey	3E-07	0E+00	6E-08	1E-05	4E-07
Barium	Jester Creek	3E-07	0E+00	6E-08	1E-05	4E-07
Barium	Flint River	3E-07	0E+00	6E-08	1E-05	4E-07
Beryllium	Lake Spivey	1E-08	2E-10	3E-09		1E-08
Beryllium	Jester Creek	1E-08	3E-09	3E-09		2E-08
Beryllium	Flint River	1E-08	2E-09	3E-09		1E-08

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Lake Spivey	2E-07	1E-06	2E-06		3E-06
Cadmium	Jester Creek	2E-07	1E-05	2E-06		1E-05
Cadmium	Flint River	2E-07	4E-06	2E-06		6E-06
Chromium VI	Lake Spivey	4E-08	5E-09	1E-06		1E-06
Chromium VI	Jester Creek	4E-08	3E-08	1E-06		1E-06
Chromium VI	Flint River	4E-08	1E-08	1E-06		1E-06
Chromium III	Lake Spivey	4E-08	6E-13	2E-11		4E-08
Chromium III	Jester Creek	4E-08	5E-11	2E-11		4E-08
Chromium III	Flint River	4E-08	3E-11	2E-11		4E-08
Cobalt	Lake Spivey	2E-09	0E+00	2E-11		2E-09
Cobalt	Jester Creek	2E-09	0E+00	2E-11		2E-09
Cobalt	Flint River	2E-09	0E+00	2E-11		2E-09
Hydrogen Chloride	Lake Spivey				8E-04	
Hydrogen Chloride	Jester Creek				8E-04	
Hydrogen Chloride	Flint River				8E-04	
Selenium	Lake Spivey	9E-09	1E-05	9E-07		1E-05
Selenium	Jester Creek	9E-09	6E-05	9E-07		6E-05
Selenium	Flint River	9E-09	3E-05	9E-07		3E-05
Chlorine	Lake Spivey				1E-02	
Chlorine	Jester Creek				1E-02	
Chlorine	Flint River				1E-02	
Methylmercury - Developmental Effects	Lake Spivey	6E-08	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Jester Creek	6E-08	3E-04	1E-09		3E-04
Methylmercury - Developmental Effects	Flint River	6E-08	1E-04	1E-09		1E-04
Methylmercury - Neurological Effects	Lake Spivey	2E-08	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Jester Creek	2E-08	1E-04	4E-10		1E-04
Methylmercury - Neurological Effects	Flint River	2E-08	5E-05	4E-10		5E-05

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lake Spivey	1E-09	6E-09	2E-11	4E-10	7E-09
2,3,7,8-TCDD-TEQ	Jester Creek	1E-09	1E-07	2E-11	4E-10	1E-07
2,3,7,8-TCDD-TEQ	Flint River	1E-09	6E-08	2E-11	4E-10	6E-08
Nickel	Lake Spivey				3E-12	
Nickel	Jester Creek				3E-12	
Nickel	Flint River				3E-12	
Arsenic	Lake Spivey	7E-13	5E-13	2E-11	3E-11	2E-11
Arsenic	Jester Creek	7E-13	3E-12	2E-11	3E-11	2E-11
Arsenic	Flint River	7E-13	1E-12	2E-11	3E-11	2E-11
Beryllium	Lake Spivey				2E-12	
Beryllium	Jester Creek				2E-12	
Beryllium	Flint River				2E-12	
Cadmium	Lake Spivey				8E-11	
Cadmium	Jester Creek				8E-11	
Cadmium	Flint River				8E-11	
Chromium VI	Lake Spivey				3E-09	
Chromium VI	Jester Creek				3E-09	
Chromium VI	Flint River				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Lake Spivey	4E-09	0E+00	4E-08	8E-05	4E-08
Manganese	Jester Creek	4E-09	0E+00	4E-08	8E-05	4E-08
Manganese	Flint River	4E-09	0E+00	4E-08	8E-05	4E-08
Mercury (elemental)	Lake Spivey				5E-05	
Mercury (elemental)	Jester Creek				5E-05	
Mercury (elemental)	Flint River				5E-05	
Mercury (divalent)	Lake Spivey	5E-07		4E-08		6E-07
Mercury (divalent)	Jester Creek	5E-07		4E-08		6E-07
Mercury (divalent)	Flint River	5E-07		4E-08		6E-07
Nickel	Lake Spivey	3E-10	6E-11	8E-09		8E-09
Nickel	Jester Creek	3E-10	4E-10	8E-09		9E-09
Nickel	Flint River	3E-10	2E-10	8E-09		8E-09
Silver	Lake Spivey	1E-10	0E+00	2E-07		2E-07
Silver	Jester Creek	1E-10	0E+00	2E-07		2E-07
Silver	Flint River	1E-10	0E+00	2E-07		2E-07
Thallium	Lake Spivey	7E-07	3E-06	6E-06		1E-05
Thallium	Jester Creek	7E-07	2E-05	6E-06		3E-05
Thallium	Flint River	7E-07	1E-05	6E-06		2E-05
Antimony	Lake Spivey	5E-09	0E+00	1E-06		1E-06
Antimony	Jester Creek	5E-09	0E+00	1E-06		1E-06
Antimony	Flint River	5E-09	0E+00	1E-06		1E-06
Arsenic	Lake Spivey	1E-08	8E-09	3E-07		3E-07
Arsenic	Jester Creek	1E-08	6E-08	3E-07		3E-07
Arsenic	Flint River	1E-08	2E-08	3E-07		3E-07
Barium	Lake Spivey	2E-07	0E+00	4E-08	1E-05	2E-07
Barium	Jester Creek	2E-07	0E+00	4E-08	1E-05	2E-07
Barium	Flint River	2E-07	0E+00	4E-08	1E-05	2E-07
Beryllium	Lake Spivey	5E-09	1E-10	2E-09		7E-09
Beryllium	Jester Creek	5E-09	2E-09	2E-09		9E-09
Beryllium	Flint River	5E-09	1E-09	2E-09		8E-09

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Lake Spivey	1E-07	9E-07	1E-06		2E-06
Cadmium	Jester Creek	1E-07	7E-06	1E-06		8E-06
Cadmium	Flint River	1E-07	3E-06	1E-06		4E-06
Chromium VI	Lake Spivey	2E-08	4E-09	6E-07		7E-07
Chromium VI	Jester Creek	2E-08	2E-08	6E-07		7E-07
Chromium VI	Flint River	2E-08	1E-08	6E-07		7E-07
Chromium III	Lake Spivey	2E-08	5E-13	1E-11		2E-08
Chromium III	Jester Creek	2E-08	4E-11	1E-11		2E-08
Chromium III	Flint River	2E-08	2E-11	1E-11		2E-08
Cobalt	Lake Spivey	1E-09	0E+00	2E-08		2E-08
Cobalt	Jester Creek	1E-09	0E+00	2E-08		2E-08
Cobalt	Flint River	1E-09	0E+00	2E-08		2E-08
Hydrogen Chloride	Lake Spivey				8E-04	
Hydrogen Chloride	Jester Creek				8E-04	
Hydrogen Chloride	Flint River				8E-04	
Selenium	Lake Spivey	5E-09	7E-06	6E-07		8E-06
Selenium	Jester Creek	5E-09	4E-05	6E-07		5E-05
Selenium	Flint River	5E-09	2E-05	6E-07		2E-05
Chlorine	Lake Spivey				1E-02	
Chlorine	Jester Creek				1E-02	
Chlorine	Flint River				1E-02	
Methylmercury - Developmental Effects	Lake Spivey	3E-08	1E-04	8E-10		1E-04
Methylmercury - Developmental Effects	Jester Creek	3E-08	2E-04	8E-10		2E-04
Methylmercury - Developmental Effects	Flint River	3E-08	1E-04	8E-10		1E-04
Methylmercury - Neurological Effects	Lake Spivey	1E-08	4E-05	3E-10		4E-05
Methylmercury - Neurological Effects	Jester Creek	1E-08	8E-05	3E-10		8E-05
Methylmercury - Neurological Effects	Flint River	1E-08	3E-05	3E-10		3E-05

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Lake Spivey	7E-10	1E-08	5E-11	6E-10	1E-08
2,3,7,8-TCDD-TEQ	Jester Creek	7E-10	2E-07	5E-11	6E-10	2E-07
2,3,7,8-TCDD-TEQ	Flint River	7E-10	1E-07	5E-11	6E-10	1E-07
Nickel	Lake Spivey				4E-12	
Nickel	Jester Creek				4E-12	
Nickel	Flint River				4E-12	
Arsenic	Lake Spivey	5E-13	9E-13	3E-11	4E-11	4E-11
Arsenic	Jester Creek	5E-13	6E-12	3E-11	4E-11	4E-11
Arsenic	Flint River	5E-13	3E-12	3E-11	4E-11	4E-11
Beryllium	Lake Spivey				2E-12	
Beryllium	Jester Creek				2E-12	
Beryllium	Flint River				2E-12	
Cadmium	Lake Spivey				1E-10	
Cadmium	Jester Creek				1E-10	
Cadmium	Flint River				1E-10	
Chromium VI	Lake Spivey				4E-09	
Chromium VI	Jester Creek				4E-09	
Chromium VI	Flint River				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Lake Spivey	2E-09	0E+00	5E-08	8E-05	5E-08
Manganese	Jester Creek	2E-09	0E+00	5E-08	8E-05	5E-08
Manganese	Flint River	2E-09	0E+00	5E-08	8E-05	5E-08
Mercury (elemental)	Lake Spivey				5E-05	
Mercury (elemental)	Jester Creek				5E-05	
Mercury (elemental)	Flint River				5E-05	
Mercury (divalent)	Lake Spivey	2E-07		4E-08		3E-07
Mercury (divalent)	Jester Creek	2E-07		4E-08		3E-07
Mercury (divalent)	Flint River	2E-07		4E-08		3E-07
Nickel	Lake Spivey	1E-10	6E-11	9E-09		1E-08
Nickel	Jester Creek	1E-10	4E-10	9E-09		1E-08
Nickel	Flint River	1E-10	2E-10	9E-09		1E-08
Silver	Lake Spivey	5E-11	0E+00	2E-07		2E-07
Silver	Jester Creek	5E-11	0E+00	2E-07		2E-07
Silver	Flint River	5E-11	0E+00	2E-07		2E-07
Thallium	Lake Spivey	3E-07	3E-06	7E-06		1E-05
Thallium	Jester Creek	3E-07	2E-05	7E-06		3E-05
Thallium	Flint River	3E-07	1E-05	7E-06		2E-05
Antimony	Lake Spivey	2E-09	0E+00	2E-06		2E-06
Antimony	Jester Creek	2E-09	0E+00	2E-06		2E-06
Antimony	Flint River	2E-09	0E+00	2E-06		2E-06
Arsenic	Lake Spivey	5E-09	8E-09	3E-07		3E-07
Arsenic	Jester Creek	5E-09	6E-08	3E-07		4E-07
Arsenic	Flint River	5E-09	2E-08	3E-07		3E-07
Barium	Lake Spivey	7E-08	0E+00	4E-08	1E-05	1E-07
Barium	Jester Creek	7E-08	0E+00	4E-08	1E-05	1E-07
Barium	Flint River	7E-08	0E+00	4E-08	1E-05	1E-07
Beryllium	Lake Spivey	2E-09	1E-10	2E-09		4E-09
Beryllium	Jester Creek	2E-09	2E-09	2E-09		7E-09
Beryllium	Flint River	2E-09	1E-09	2E-09		5E-09

Table IX-E6. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 453) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Lake Spivey	5E-08	9E-07	1E-06		2E-06
Cadmium	Jester Creek	5E-08	7E-06	1E-06		8E-06
Cadmium	Flint River	5E-08	3E-06	1E-06		4E-06
Chromium VI	Lake Spivey	8E-09	4E-09	8E-07		8E-07
Chromium VI	Jester Creek	8E-09	2E-08	8E-07		8E-07
Chromium VI	Flint River	8E-09	1E-08	8E-07		8E-07
Chromium III	Lake Spivey	8E-09	5E-13	2E-11		8E-09
Chromium III	Jester Creek	8E-09	4E-11	2E-11		8E-09
Chromium III	Flint River	8E-09	2E-11	2E-11		8E-09
Cobalt	Lake Spivey	4E-10	0E+00	2E-08		2E-08
Cobalt	Jester Creek	4E-10	0E+00	2E-08		2E-08
Cobalt	Flint River	4E-10	0E+00	2E-08		2E-08
Hydrogen Chloride	Lake Spivey				8E-04	
Hydrogen Chloride	Jester Creek				8E-04	
Hydrogen Chloride	Flint River				8E-04	
Selenium	Lake Spivey	2E-09	7E-06	7E-07		8E-06
Selenium	Jester Creek	2E-09	4E-05	7E-07		5E-05
Selenium	Flint River	2E-09	2E-05	7E-07		2E-05
Chlorine	Lake Spivey				1E-02	
Chlorine	Jester Creek				1E-02	
Chlorine	Flint River				1E-02	
Methylmercury - Developmental Effects	Lake Spivey	1E-08	1E-04	1E-09		1E-04
Methylmercury - Developmental Effects	Jester Creek	1E-08	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Flint River	1E-08	1E-04	1E-09		1E-04
Methylmercury - Neurological Effects	Lake Spivey	4E-09	4E-05	3E-10		4E-05
Methylmercury - Neurological Effects	Jester Creek	4E-09	8E-05	3E-10		8E-05
Methylmercury - Neurological Effects	Flint River	4E-09	3E-05	3E-10		3E-05

Table IX-E7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-11	2E-12	2E-12	6E-12	1E-09	1E-08	1E-10	8E-10	5E-10	9E-10	2E-13	8E-12	1E-08
Nickel												3E-10	
Arsenic	1E-11	5E-12	2E-12	1E-11	3E-11	6E-11	2E-12			7E-11	3E-12	1E-10	2E-10
Beryllium												1E-11	
Cadmium												1E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	7E-08	9E-08	5E-08	2E-07	3E-08	2E-06	2E-09			0E+00	8E-09	2E-04	2E-06
Mercury (elemental)												5E-08	
Mercury (divalent)	NA	3E-07	2E-06	6E-07	1E-05	8E-05	4E-08				2E-07		1E-04
Nickel	1E-07	6E-08	2E-08	2E-07	2E-06	2E-05	9E-08			3E-07	4E-08		2E-05
Silver	2E-09	3E-08	8E-09	8E-08	5E-07	2E-04	2E-08			0E+00	3E-08		2E-04
Thallium	8E-07	7E-08	4E-09	2E-07	2E-05	6E-05	2E-06			3E-05	8E-08		1E-04
Antimony	8E-09	3E-08	8E-09	8E-08	1E-07	9E-07	6E-09			0E+00	3E-08		1E-06
Arsenic	3E-07	1E-07	5E-08	3E-07	8E-07	1E-06	5E-08			2E-06	7E-08		5E-06
Barium	2E-08	2E-09	5E-10	4E-09	1E-09	1E-07	2E-10			0E+00	2E-10	3E-07	2E-07
Beryllium	1E-07	2E-09	4E-10	5E-09	2E-08	9E-10	6E-09			1E-08	1E-09		2E-07
Cadmium	9E-06	9E-06	4E-06	2E-05	9E-07	3E-06	2E-07			6E-04	1E-06		6E-04
Chromium VI	6E-08	2E-08	7E-09	6E-08	8E-07	1E-05	4E-08			1E-07	3E-08		1E-05
Chromium III	8E-08	1E-09	6E-10	3E-09	6E-08	8E-07	2E-08			1E-11	8E-12		1E-06
Cobalt	2E-08	4E-09	2E-11	1E-08	4E-07	2E-06	3E-08			0E+00	3E-09		3E-06
Hydrogen Chloride												1E-03	
Selenium	4E-08	5E-08	3E-08	1E-07	1E-06	9E-05	4E-06			6E-04	6E-08		7E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	1E-06	5E-08	3E-07	7E-08	7E-07	6E-06	3E-09			4E-04	1E-09		4E-04
Methylmercury - Neurological Effects	4E-07	2E-08	9E-08	2E-08	2E-07	2E-06	9E-10			1E-04	5E-10		1E-04

Table IX-E7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	2E-12	2E-12	7E-12	2E-09	8E-09	1E-10	8E-10	6E-10	9E-10	1E-13	9E-12	1E-08
Nickel												3E-10	
Arsenic	4E-12	4E-12	2E-12	1E-11	5E-11	4E-11	2E-12			7E-11	2E-12	1E-10	2E-10
Beryllium												1E-11	
Cadmium												1E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	2E-07	4E-08	8E-07	1E-09			0E+00	5E-09	2E-04	1E-06
Mercury (elemental)												5E-08	
Mercury (divalent)	NA	1E-07	1E-06	6E-07	1E-05	4E-05	3E-08				1E-07		6E-05
Nickel	3E-08	4E-08	2E-08	1E-07	2E-06	8E-06	5E-08			2E-07	2E-08		1E-05
Silver	6E-10	2E-08	5E-09	8E-08	6E-07	1E-04	1E-08			0E+00	2E-08		1E-04
Thallium	2E-07	4E-08	3E-09	2E-07	2E-05	3E-05	1E-06			3E-05	5E-08		8E-05
Antimony	2E-09	2E-08	5E-09	8E-08	2E-07	4E-07	3E-09			0E+00	2E-08		7E-07
Arsenic	7E-08	7E-08	3E-08	3E-07	1E-06	7E-07	3E-08			1E-06	4E-08		4E-06
Barium	6E-09	1E-09	4E-10	4E-09	1E-09	7E-08	9E-11			0E+00	9E-11	3E-07	8E-08
Beryllium	3E-08	1E-09	2E-10	5E-09	2E-08	4E-10	4E-09			1E-08	6E-10		8E-08
Cadmium	2E-06	5E-06	3E-06	2E-05	1E-06	2E-06	9E-08			4E-04	7E-07		5E-04
Chromium VI	2E-08	1E-08	5E-09	5E-08	9E-07	6E-06	3E-08			8E-08	1E-08		7E-06
Chromium III	2E-08	5E-10	4E-10	2E-09	8E-08	4E-07	1E-08			8E-12	4E-12		5E-07
Cobalt	5E-09	2E-09	2E-11	1E-08	5E-07	1E-06	2E-08			0E+00	2E-09		2E-06
Hydrogen Chloride												1E-03	
Selenium	1E-08	3E-08	2E-08	1E-07	1E-06	4E-05	2E-06			5E-04	4E-08		5E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	3E-07	3E-08	2E-07	7E-08	8E-07	3E-06	2E-09			3E-04	8E-10		3E-04
Methylmercury - Neurological Effects	1E-07	1E-08	6E-08	2E-08	3E-07	1E-06	5E-10			1E-04	3E-10		1E-04

Table IX-E7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-12	1E-12	1E-12	4E-12	8E-10	4E-09	7E-11	5E-10	3E-10	5E-10	9E-14	6E-12	6E-09
Nickel												2E-10	
Arsenic	2E-12	3E-12	1E-12	8E-12	3E-11	2E-11	1E-12			4E-11	1E-12	8E-11	1E-10
Beryllium												7E-12	
Cadmium												9E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	4E-08	2E-08	9E-08	2E-08	3E-07	9E-10			0E+00	3E-09	2E-04	5E-07
Mercury (elemental)												5E-08	
Mercury (divalent)	2E-06	1E-07	1E-06	3E-07	6E-06	2E-05	2E-08			0E+00	7E-08		3E-05
Nickel	2E-08	3E-08	1E-08	8E-08	8E-07	4E-06	3E-08			1E-07	2E-08		5E-06
Silver	3E-10	1E-08	4E-09	4E-08	3E-07	5E-05	8E-09			0E+00	1E-08		5E-05
Thallium	1E-07	3E-08	2E-09	9E-08	1E-05	1E-05	8E-07			1E-05	3E-08		4E-05
Antimony	1E-09	1E-08	4E-09	4E-08	8E-08	2E-07	2E-09			0E+00	1E-08		4E-07
Arsenic	4E-08	5E-08	2E-08	1E-07	5E-07	3E-07	2E-08			7E-07	3E-08		2E-06
Barium	3E-09	9E-10	3E-10	2E-09	6E-10	3E-08	6E-11			0E+00	6E-11	3E-07	4E-08
Beryllium	2E-08	8E-10	2E-10	2E-09	1E-08	2E-10	2E-09			5E-09	4E-10		4E-08
Cadmium	1E-06	4E-06	2E-06	9E-06	5E-07	7E-07	6E-08			2E-04	4E-07		2E-04
Chromium VI	9E-09	9E-09	4E-09	3E-08	4E-07	3E-06	2E-08			4E-08	9E-09		3E-06
Chromium III	1E-08	4E-10	3E-10	1E-09	3E-08	2E-07	8E-09			4E-12	3E-12		2E-07
Cobalt	3E-09	2E-09	1E-11	5E-09	2E-07	5E-07	1E-08			0E+00	1E-09		7E-07
Hydrogen Chloride												1E-03	
Selenium	6E-09	2E-08	2E-08	7E-08	5E-07	2E-05	1E-06			2E-04	2E-08		3E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	2E-07	2E-08	1E-07	4E-08	4E-07	1E-06	1E-09			2E-04	5E-10		2E-04
Methylmercury - Neurological Effects	5E-08	8E-09	5E-08	1E-08	1E-07	5E-07	3E-10			6E-05	2E-10		6E-05

Table IX-E7. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-12	4E-12	2E-12	7E-12	2E-09	3E-09	1E-10	8E-10	5E-10	1E-09	2E-13	9E-12	7E-09
Nickel												3E-10	
Arsenic	2E-12	7E-12	2E-12	1E-11	5E-11	2E-11	2E-12			8E-11	3E-12	1E-10	2E-10
Beryllium												1E-11	
Cadmium												1E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-09	5E-08	3E-08	8E-08	2E-08	2E-07	8E-10			0E+00	4E-09	2E-04	3E-07
Mercury (elemental)												5E-08	
Mercury (divalent)	1E-06	2E-07	1E-06	3E-07	6E-06	8E-06	1E-08			0E+00	9E-08		2E-05
Nickel	7E-09	4E-08	1E-08	7E-08	1E-06	2E-06	3E-08			1E-07	2E-08		3E-06
Silver	1E-10	2E-08	4E-09	4E-08	3E-07	2E-05	7E-09			0E+00	1E-08		2E-05
Thallium	4E-08	4E-08	2E-09	9E-08	1E-05	6E-06	7E-07			2E-05	4E-08		3E-05
Antimony	4E-10	2E-08	4E-09	4E-08	9E-08	9E-08	2E-09			0E+00	1E-08		3E-07
Arsenic	2E-08	7E-08	3E-08	1E-07	5E-07	1E-07	2E-08			8E-07	3E-08		2E-06
Barium	1E-09	1E-09	3E-10	2E-09	6E-10	1E-08	5E-11			0E+00	7E-11	3E-07	2E-08
Beryllium	7E-09	1E-09	2E-10	2E-09	1E-08	9E-11	2E-09			6E-09	5E-10		3E-08
Cadmium	5E-07	5E-06	2E-06	9E-06	5E-07	3E-07	5E-08			2E-04	5E-07		3E-04
Chromium VI	4E-09	1E-08	4E-09	3E-08	5E-07	1E-06	1E-08			5E-08	1E-08		2E-06
Chromium III	5E-09	6E-10	3E-10	1E-09	4E-08	8E-08	7E-09			5E-12	3E-12		1E-07
Cobalt	1E-09	2E-09	1E-11	5E-09	2E-07	2E-07	1E-08			0E+00	1E-09		5E-07
Hydrogen Chloride												1E-03	
Selenium	2E-09	3E-08	2E-08	6E-08	6E-07	9E-06	1E-06			3E-04	3E-08		3E-04
Chlorine												1E-03	
Methylmercury - Developmental Effects	6E-08	3E-08	2E-07	3E-08	4E-07	6E-07	9E-10			2E-04	6E-10		2E-04
Methylmercury - Neurological Effects	2E-08	1E-08	5E-08	1E-08	1E-07	2E-07	3E-10			6E-05	2E-10		6E-05

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill	4E-11	4E-10	2E-13	8E-12	4E-10
2,3,7,8-TCDD-TEQ	Wissahickon Creek	4E-11	8E-10	2E-13	8E-12	8E-10
2,3,7,8-TCDD-TEQ	Tacony Creek	4E-11	6E-10	2E-13	8E-12	6E-10
2,3,7,8-TCDD-TEQ	Pickering Creek Reservoir	4E-11	1E-10	2E-13	8E-12	2E-10
Nickel	Schuylkill				3E-10	
Nickel	Wissahickon Creek				3E-10	
Nickel	Tacony Creek				3E-10	
Nickel	Pickering Creek Reservoir				3E-10	
Arsenic	Schuylkill	1E-11	3E-13	6E-12	1E-10	2E-11
Arsenic	Wissahickon Creek	1E-11	1E-12	6E-12	1E-10	2E-11
Arsenic	Tacony Creek	1E-11	9E-13	6E-12	1E-10	2E-11
Arsenic	Pickering Creek Reservoir	1E-11	7E-13	6E-12	1E-10	2E-11
Beryllium	Schuylkill				1E-11	
Beryllium	Wissahickon Creek				1E-11	
Beryllium	Tacony Creek				1E-11	
Beryllium	Pickering Creek Reservoir				1E-11	
Cadmium	Schuylkill				1E-09	
Cadmium	Wissahickon Creek				1E-09	
Cadmium	Tacony Creek				1E-09	
Cadmium	Pickering Creek Reservoir				1E-09	
Chromium VI	Schuylkill				2E-09	
Chromium VI	Wissahickon Creek				2E-09	
Chromium VI	Tacony Creek				2E-09	
Chromium VI	Pickering Creek Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill	7E-08	0E+00	2E-08	2E-04	9E-08
Manganese	Wissahickon Creek	7E-08	0E+00	2E-08	2E-04	9E-08
Manganese	Tacony Creek	7E-08	0E+00	2E-08	2E-04	9E-08
Manganese	Pickering Creek Reservoir	7E-08	0E+00	2E-08	2E-04	9E-08
Mercury (elemental)	Schuylkill				5E-08	
Mercury (elemental)	Wissahickon Creek				5E-08	
Mercury (elemental)	Tacony Creek				5E-08	
Mercury (elemental)	Pickering Creek Reservoir				5E-08	
Mercury (divalent)	Schuylkill	2E-05		2E-07		2E-05
Mercury (divalent)	Wissahickon Creek	2E-05		2E-07		2E-05
Mercury (divalent)	Tacony Creek	2E-05		2E-07		2E-05
Mercury (divalent)	Pickering Creek Reservoir	2E-05		2E-07		2E-05
Nickel	Schuylkill	1E-07	1E-09	1E-07		2E-07
Nickel	Wissahickon Creek	1E-07	3E-09	1E-07		2E-07
Nickel	Tacony Creek	1E-07	3E-09	1E-07		2E-07
Nickel	Pickering Creek Reservoir	1E-07	2E-09	1E-07		2E-07
Silver	Schuylkill	2E-09	0E+00	7E-08		7E-08
Silver	Wissahickon Creek	2E-09	0E+00	7E-08		7E-08
Silver	Tacony Creek	2E-09	0E+00	7E-08		7E-08
Silver	Pickering Creek Reservoir	2E-09	0E+00	7E-08		7E-08
Thallium	Schuylkill	8E-07	2E-07	2E-07		1E-06
Thallium	Wissahickon Creek	8E-07	5E-07	2E-07		2E-06
Thallium	Tacony Creek	8E-07	5E-07	2E-07		1E-06
Thallium	Pickering Creek Reservoir	8E-07	4E-07	2E-07		1E-06

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill	8E-09	0E+00	6E-08		7E-08
Antimony	Wissahickon Creek	8E-09	0E+00	6E-08		7E-08
Antimony	Tacony Creek	8E-09	0E+00	6E-08		7E-08
Antimony	Pickering Creek Reservoir	8E-09	0E+00	6E-08		7E-08
Arsenic	Schuylkill	3E-07	8E-09	2E-07		4E-07
Arsenic	Wissahickon Creek	3E-07	2E-08	2E-07		5E-07
Arsenic	Tacony Creek	3E-07	2E-08	2E-07		5E-07
Arsenic	Pickering Creek Reservoir	3E-07	2E-08	2E-07		5E-07
Barium	Schuylkill	2E-08	0E+00	2E-10	3E-07	2E-08
Barium	Wissahickon Creek	2E-08	0E+00	2E-10	3E-07	2E-08
Barium	Tacony Creek	2E-08	0E+00	2E-10	3E-07	2E-08
Barium	Pickering Creek Reservoir	2E-08	0E+00	2E-10	3E-07	2E-08
Beryllium	Schuylkill	1E-07	7E-10	1E-09		1E-07
Beryllium	Wissahickon Creek	1E-07	2E-09	1E-09		1E-07
Beryllium	Tacony Creek	1E-07	2E-09	1E-09		1E-07
Beryllium	Pickering Creek Reservoir	1E-07	5E-10	1E-09		1E-07
Cadmium	Schuylkill	9E-06	3E-06	2E-06		1E-05
Cadmium	Wissahickon Creek	9E-06	1E-05	2E-06		2E-05
Cadmium	Tacony Creek	9E-06	1E-05	2E-06		2E-05
Cadmium	Pickering Creek Reservoir	9E-06	7E-06	2E-06		2E-05
Chromium VI	Schuylkill	6E-08	5E-10	5E-08		1E-07
Chromium VI	Wissahickon Creek	6E-08	1E-09	5E-08		1E-07
Chromium VI	Tacony Creek	6E-08	1E-09	5E-08		1E-07
Chromium VI	Pickering Creek Reservoir	6E-08	1E-09	5E-08		1E-07
Chromium III	Schuylkill	8E-08	1E-11	8E-12		8E-08
Chromium III	Wissahickon Creek	8E-08	2E-11	8E-12		8E-08
Chromium III	Tacony Creek	8E-08	1E-11	8E-12		8E-08
Chromium III	Pickering Creek Reservoir	8E-08	4E-13	8E-12		8E-08
Cobalt	Schuylkill	2E-08	0E+00	8E-12		2E-08
Cobalt	Wissahickon Creek	2E-08	0E+00	8E-12		2E-08
Cobalt	Tacony Creek	2E-08	0E+00	8E-12		2E-08
Cobalt	Pickering Creek Reservoir	2E-08	0E+00	8E-12		2E-08
Hydrogen Chloride	Schuylkill				1E-03	
Hydrogen Chloride	Wissahickon Creek				1E-03	
Hydrogen Chloride	Tacony Creek				1E-03	
Hydrogen Chloride	Pickering Creek Reservoir				1E-03	
Selenium	Schuylkill	4E-08	2E-06	1E-07		3E-06
Selenium	Wissahickon Creek	4E-08	8E-06	1E-07		8E-06
Selenium	Tacony Creek	4E-08	7E-06	1E-07		7E-06
Selenium	Pickering Creek Reservoir	4E-08	5E-06	1E-07		5E-06
Chlorine	Schuylkill				1E-03	
Chlorine	Wissahickon Creek				1E-03	
Chlorine	Tacony Creek				1E-03	
Chlorine	Pickering Creek Reservoir				1E-03	
Methylmercury - Developmental Effects	Schuylkill	1E-06	2E-04	3E-09		2E-04
Methylmercury - Developmental Effects	Wissahickon Creek	1E-06	7E-04	3E-09		7E-04
Methylmercury - Developmental Effects	Tacony Creek	1E-06	6E-04	3E-09		6E-04
Methylmercury - Developmental Effects	Pickering Creek Reservoir	1E-06	5E-04	3E-09		5E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill	4E-07	7E-05	1E-09		7E-05
Methylmercury - Neurological Effects	Wissahickon Creek	4E-07	2E-04	1E-09		2E-04
Methylmercury - Neurological Effects	Tacony Creek	4E-07	2E-04	1E-09		2E-04
Methylmercury - Neurological Effects	Pickering Creek Reservoir	4E-07	2E-04	1E-09		2E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill	2E-11	5E-10	1E-13	9E-12	5E-10
2,3,7,8-TCDD-TEQ	Wissahickon Creek	2E-11	1E-09	1E-13	9E-12	1E-09
2,3,7,8-TCDD-TEQ	Tacony Creek	2E-11	8E-10	1E-13	9E-12	8E-10
2,3,7,8-TCDD-TEQ	Pickering Creek Reservoir	2E-11	1E-10	1E-13	9E-12	2E-10
Nickel	Schuylkill				3E-10	
Nickel	Wissahickon Creek				3E-10	
Nickel	Tacony Creek				3E-10	
Nickel	Pickering Creek Reservoir				3E-10	
Arsenic	Schuylkill	4E-12	4E-13	5E-12	1E-10	9E-12
Arsenic	Wissahickon Creek	4E-12	1E-12	5E-12	1E-10	1E-11
Arsenic	Tacony Creek	4E-12	1E-12	5E-12	1E-10	1E-11
Arsenic	Pickering Creek Reservoir	4E-12	9E-13	5E-12	1E-10	1E-11
Beryllium	Schuylkill				1E-11	
Beryllium	Wissahickon Creek				1E-11	
Beryllium	Tacony Creek				1E-11	
Beryllium	Pickering Creek Reservoir				1E-11	
Cadmium	Schuylkill				1E-09	
Cadmium	Wissahickon Creek				1E-09	
Cadmium	Tacony Creek				1E-09	
Cadmium	Pickering Creek Reservoir				1E-09	
Chromium VI	Schuylkill				2E-09	
Chromium VI	Wissahickon Creek				2E-09	
Chromium VI	Tacony Creek				2E-09	
Chromium VI	Pickering Creek Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill	2E-08	0E+00	1E-08	2E-04	3E-08
Manganese	Wissahickon Creek	2E-08	0E+00	1E-08	2E-04	3E-08
Manganese	Tacony Creek	2E-08	0E+00	1E-08	2E-04	3E-08
Manganese	Pickering Creek Reservoir	2E-08	0E+00	1E-08	2E-04	3E-08
Mercury (elemental)	Schuylkill				5E-08	
Mercury (elemental)	Wissahickon Creek				5E-08	
Mercury (elemental)	Tacony Creek				5E-08	
Mercury (elemental)	Pickering Creek Reservoir				5E-08	
Mercury (divalent)	Schuylkill	5E-06		1E-07		5E-06
Mercury (divalent)	Wissahickon Creek	5E-06		1E-07		5E-06
Mercury (divalent)	Tacony Creek	5E-06		1E-07		5E-06
Mercury (divalent)	Pickering Creek Reservoir	5E-06		1E-07		5E-06
Nickel	Schuylkill	3E-08	1E-09	5E-08		9E-08
Nickel	Wissahickon Creek	3E-08	3E-09	5E-08		9E-08
Nickel	Tacony Creek	3E-08	3E-09	5E-08		9E-08
Nickel	Pickering Creek Reservoir	3E-08	2E-09	5E-08		9E-08
Silver	Schuylkill	6E-10	0E+00	4E-08		4E-08
Silver	Wissahickon Creek	6E-10	0E+00	4E-08		4E-08
Silver	Tacony Creek	6E-10	0E+00	4E-08		4E-08
Silver	Pickering Creek Reservoir	6E-10	0E+00	4E-08		4E-08
Thallium	Schuylkill	2E-07	2E-07	1E-07		5E-07
Thallium	Wissahickon Creek	2E-07	5E-07	1E-07		8E-07
Thallium	Tacony Creek	2E-07	5E-07	1E-07		8E-07
Thallium	Pickering Creek Reservoir	2E-07	4E-07	1E-07		7E-07

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill	2E-09	0E+00	3E-08		4E-08
Antimony	Wissahickon Creek	2E-09	0E+00	3E-08		4E-08
Antimony	Tacony Creek	2E-09	0E+00	3E-08		4E-08
Antimony	Pickering Creek Reservoir	2E-09	0E+00	3E-08		4E-08
Arsenic	Schuylkill	7E-08	8E-09	9E-08		2E-07
Arsenic	Wissahickon Creek	7E-08	2E-08	9E-08		2E-07
Arsenic	Tacony Creek	7E-08	2E-08	9E-08		2E-07
Arsenic	Pickering Creek Reservoir	7E-08	2E-08	9E-08		2E-07
Barium	Schuylkill	6E-09	0E+00	9E-11	3E-07	6E-09
Barium	Wissahickon Creek	6E-09	0E+00	9E-11	3E-07	6E-09
Barium	Tacony Creek	6E-09	0E+00	9E-11	3E-07	6E-09
Barium	Pickering Creek Reservoir	6E-09	0E+00	9E-11	3E-07	6E-09
Beryllium	Schuylkill	3E-08	7E-10	6E-10		4E-08
Beryllium	Wissahickon Creek	3E-08	2E-09	6E-10		4E-08
Beryllium	Tacony Creek	3E-08	2E-09	6E-10		4E-08
Beryllium	Pickering Creek Reservoir	3E-08	5E-10	6E-10		4E-08
Cadmium	Schuylkill	2E-06	3E-06	1E-06		7E-06
Cadmium	Wissahickon Creek	2E-06	1E-05	1E-06		1E-05
Cadmium	Tacony Creek	2E-06	1E-05	1E-06		1E-05
Cadmium	Pickering Creek Reservoir	2E-06	7E-06	1E-06		1E-05
Chromium VI	Schuylkill	2E-08	5E-10	3E-08		5E-08
Chromium VI	Wissahickon Creek	2E-08	1E-09	3E-08		5E-08
Chromium VI	Tacony Creek	2E-08	1E-09	3E-08		5E-08
Chromium VI	Pickering Creek Reservoir	2E-08	1E-09	3E-08		5E-08
Chromium III	Schuylkill	2E-08	1E-11	4E-12		2E-08
Chromium III	Wissahickon Creek	2E-08	2E-11	4E-12		2E-08
Chromium III	Tacony Creek	2E-08	1E-11	4E-12		2E-08
Chromium III	Pickering Creek Reservoir	2E-08	4E-13	4E-12		2E-08
Cobalt	Schuylkill	5E-09	0E+00	4E-12		5E-09
Cobalt	Wissahickon Creek	5E-09	0E+00	4E-12		5E-09
Cobalt	Tacony Creek	5E-09	0E+00	4E-12		5E-09
Cobalt	Pickering Creek Reservoir	5E-09	0E+00	4E-12		5E-09
Hydrogen Chloride	Schuylkill				1E-03	
Hydrogen Chloride	Wissahickon Creek				1E-03	
Hydrogen Chloride	Tacony Creek				1E-03	
Hydrogen Chloride	Pickering Creek Reservoir				1E-03	
Selenium	Schuylkill	1E-08	2E-06	8E-08		2E-06
Selenium	Wissahickon Creek	1E-08	8E-06	8E-08		8E-06
Selenium	Tacony Creek	1E-08	7E-06	8E-08		7E-06
Selenium	Pickering Creek Reservoir	1E-08	5E-06	8E-08		5E-06
Chlorine	Schuylkill				1E-03	
Chlorine	Wissahickon Creek				1E-03	
Chlorine	Tacony Creek				1E-03	
Chlorine	Pickering Creek Reservoir				1E-03	
Methylmercury - Developmental Effects	Schuylkill	3E-07	2E-04	2E-09		2E-04
Methylmercury - Developmental Effects	Wissahickon Creek	3E-07	7E-04	2E-09		7E-04
Methylmercury - Developmental Effects	Tacony Creek	3E-07	6E-04	2E-09		6E-04
Methylmercury - Developmental Effects	Pickering Creek Reservoir	3E-07	5E-04	2E-09		5E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill	1E-07	7E-05	6E-10		7E-05
Methylmercury - Neurological Effects	Wissahickon Creek	1E-07	2E-04	6E-10		2E-04
Methylmercury - Neurological Effects	Tacony Creek	1E-07	2E-04	6E-10		2E-04
Methylmercury - Neurological Effects	Pickering Creek Reservoir	1E-07	2E-04	6E-10		2E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill	8E-12	4E-10	9E-14	6E-12	4E-10
2,3,7,8-TCDD-TEQ	Wissahickon Creek	8E-12	8E-10	9E-14	6E-12	8E-10
2,3,7,8-TCDD-TEQ	Tacony Creek	8E-12	6E-10	9E-14	6E-12	6E-10
2,3,7,8-TCDD-TEQ	Pickering Creek Reservoir	8E-12	1E-10	9E-14	6E-12	1E-10
Nickel	Schuylkill				2E-10	
Nickel	Wissahickon Creek				2E-10	
Nickel	Tacony Creek				2E-10	
Nickel	Pickering Creek Reservoir				2E-10	
Arsenic	Schuylkill	2E-12	3E-13	3E-12	8E-11	6E-12
Arsenic	Wissahickon Creek	2E-12	1E-12	3E-12	8E-11	6E-12
Arsenic	Tacony Creek	2E-12	9E-13	3E-12	8E-11	6E-12
Arsenic	Pickering Creek Reservoir	2E-12	7E-13	3E-12	8E-11	6E-12
Beryllium	Schuylkill				7E-12	
Beryllium	Wissahickon Creek				7E-12	
Beryllium	Tacony Creek				7E-12	
Beryllium	Pickering Creek Reservoir				7E-12	
Cadmium	Schuylkill				9E-10	
Cadmium	Wissahickon Creek				9E-10	
Cadmium	Tacony Creek				9E-10	
Cadmium	Pickering Creek Reservoir				9E-10	
Chromium VI	Schuylkill				1E-09	
Chromium VI	Wissahickon Creek				1E-09	
Chromium VI	Tacony Creek				1E-09	
Chromium VI	Pickering Creek Reservoir				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill	1E-08	0E+00	7E-09	2E-04	2E-08
Manganese	Wissahickon Creek	1E-08	0E+00	7E-09	2E-04	2E-08
Manganese	Tacony Creek	1E-08	0E+00	7E-09	2E-04	2E-08
Manganese	Pickering Creek Reservoir	1E-08	0E+00	7E-09	2E-04	2E-08
Mercury (elemental)	Schuylkill				5E-08	
Mercury (elemental)	Wissahickon Creek				5E-08	
Mercury (elemental)	Tacony Creek				5E-08	
Mercury (elemental)	Pickering Creek Reservoir				5E-08	
Mercury (divalent)	Schuylkill	2E-06		7E-08		3E-06
Mercury (divalent)	Wissahickon Creek	2E-06		7E-08		3E-06
Mercury (divalent)	Tacony Creek	2E-06		7E-08		3E-06
Mercury (divalent)	Pickering Creek Reservoir	2E-06		7E-08		3E-06
Nickel	Schuylkill	2E-08	8E-10	4E-08		5E-08
Nickel	Wissahickon Creek	2E-08	2E-09	4E-08		5E-08
Nickel	Tacony Creek	2E-08	2E-09	4E-08		5E-08
Nickel	Pickering Creek Reservoir	2E-08	2E-09	4E-08		5E-08
Silver	Schuylkill	3E-10	0E+00	3E-08		3E-08
Silver	Wissahickon Creek	3E-10	0E+00	3E-08		3E-08
Silver	Tacony Creek	3E-10	0E+00	3E-08		3E-08
Silver	Pickering Creek Reservoir	3E-10	0E+00	3E-08		3E-08
Thallium	Schuylkill	1E-07	1E-07	7E-08		3E-07
Thallium	Wissahickon Creek	1E-07	4E-07	7E-08		6E-07
Thallium	Tacony Creek	1E-07	4E-07	7E-08		5E-07
Thallium	Pickering Creek Reservoir	1E-07	3E-07	7E-08		4E-07

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill	1E-09	0E+00	2E-08		2E-08
Antimony	Wissahickon Creek	1E-09	0E+00	2E-08		2E-08
Antimony	Tacony Creek	1E-09	0E+00	2E-08		2E-08
Antimony	Pickering Creek Reservoir	1E-09	0E+00	2E-08		2E-08
Arsenic	Schuylkill	4E-08	5E-09	6E-08		1E-07
Arsenic	Wissahickon Creek	4E-08	2E-08	6E-08		1E-07
Arsenic	Tacony Creek	4E-08	2E-08	6E-08		1E-07
Arsenic	Pickering Creek Reservoir	4E-08	1E-08	6E-08		1E-07
Barium	Schuylkill	3E-09	0E+00	6E-11	3E-07	3E-09
Barium	Wissahickon Creek	3E-09	0E+00	6E-11	3E-07	3E-09
Barium	Tacony Creek	3E-09	0E+00	6E-11	3E-07	3E-09
Barium	Pickering Creek Reservoir	3E-09	0E+00	6E-11	3E-07	3E-09
Beryllium	Schuylkill	2E-08	5E-10	4E-10		2E-08
Beryllium	Wissahickon Creek	2E-08	1E-09	4E-10		2E-08
Beryllium	Tacony Creek	2E-08	1E-09	4E-10		2E-08
Beryllium	Pickering Creek Reservoir	2E-08	4E-10	4E-10		2E-08
Cadmium	Schuylkill	1E-06	2E-06	9E-07		4E-06
Cadmium	Wissahickon Creek	1E-06	7E-06	9E-07		9E-06
Cadmium	Tacony Creek	1E-06	7E-06	9E-07		9E-06
Cadmium	Pickering Creek Reservoir	1E-06	5E-06	9E-07		7E-06
Chromium VI	Schuylkill	9E-09	3E-10	2E-08		3E-08
Chromium VI	Wissahickon Creek	9E-09	1E-09	2E-08		3E-08
Chromium VI	Tacony Creek	9E-09	1E-09	2E-08		3E-08
Chromium VI	Pickering Creek Reservoir	9E-09	7E-10	2E-08		3E-08
Chromium III	Schuylkill	1E-08	9E-12	3E-12		1E-08
Chromium III	Wissahickon Creek	1E-08	1E-11	3E-12		1E-08
Chromium III	Tacony Creek	1E-08	8E-12	3E-12		1E-08
Chromium III	Pickering Creek Reservoir	1E-08	3E-13	3E-12		1E-08
Cobalt	Schuylkill	3E-09	0E+00	3E-09		5E-09
Cobalt	Wissahickon Creek	3E-09	0E+00	3E-09		5E-09
Cobalt	Tacony Creek	3E-09	0E+00	3E-09		5E-09
Cobalt	Pickering Creek Reservoir	3E-09	0E+00	3E-09		5E-09
Hydrogen Chloride	Schuylkill				1E-03	
Hydrogen Chloride	Wissahickon Creek				1E-03	
Hydrogen Chloride	Tacony Creek				1E-03	
Hydrogen Chloride	Pickering Creek Reservoir				1E-03	
Selenium	Schuylkill	6E-09	2E-06	5E-08		2E-06
Selenium	Wissahickon Creek	6E-09	5E-06	5E-08		5E-06
Selenium	Tacony Creek	6E-09	5E-06	5E-08		5E-06
Selenium	Pickering Creek Reservoir	6E-09	4E-06	5E-08		4E-06
Chlorine	Schuylkill				1E-03	
Chlorine	Wissahickon Creek				1E-03	
Chlorine	Tacony Creek				1E-03	
Chlorine	Pickering Creek Reservoir				1E-03	
Methylmercury - Developmental Effects	Schuylkill	2E-07	1E-04	1E-09		1E-04
Methylmercury - Developmental Effects	Wissahickon Creek	2E-07	5E-04	1E-09		5E-04
Methylmercury - Developmental Effects	Tacony Creek	2E-07	5E-04	1E-09		5E-04
Methylmercury - Developmental Effects	Pickering Creek Reservoir	2E-07	3E-04	1E-09		3E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill	5E-08	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Wissahickon Creek	5E-08	2E-04	4E-10		2E-04
Methylmercury - Neurological Effects	Tacony Creek	5E-08	2E-04	4E-10		2E-04
Methylmercury - Neurological Effects	Pickering Creek Reservoir	5E-08	1E-04	4E-10		1E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Schuylkill	6E-12	7E-10	2E-13	9E-12	7E-10
2,3,7,8-TCDD-TEQ	Wissahickon Creek	6E-12	1E-09	2E-13	9E-12	1E-09
2,3,7,8-TCDD-TEQ	Tacony Creek	6E-12	1E-09	2E-13	9E-12	1E-09
2,3,7,8-TCDD-TEQ	Pickering Creek Reservoir	6E-12	2E-10	2E-13	9E-12	2E-10
Nickel	Schuylkill				3E-10	
Nickel	Wissahickon Creek				3E-10	
Nickel	Tacony Creek				3E-10	
Nickel	Pickering Creek Reservoir				3E-10	
Arsenic	Schuylkill	2E-12	6E-13	7E-12	1E-10	9E-12
Arsenic	Wissahickon Creek	2E-12	2E-12	7E-12	1E-10	1E-11
Arsenic	Tacony Creek	2E-12	2E-12	7E-12	1E-10	1E-11
Arsenic	Pickering Creek Reservoir	2E-12	1E-12	7E-12	1E-10	1E-11
Beryllium	Schuylkill				1E-11	
Beryllium	Wissahickon Creek				1E-11	
Beryllium	Tacony Creek				1E-11	
Beryllium	Pickering Creek Reservoir				1E-11	
Cadmium	Schuylkill				1E-09	
Cadmium	Wissahickon Creek				1E-09	
Cadmium	Tacony Creek				1E-09	
Cadmium	Pickering Creek Reservoir				1E-09	
Chromium VI	Schuylkill				2E-09	
Chromium VI	Wissahickon Creek				2E-09	
Chromium VI	Tacony Creek				2E-09	
Chromium VI	Pickering Creek Reservoir				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Schuylkill	4E-09	0E+00	8E-09	2E-04	1E-08
Manganese	Wissahickon Creek	4E-09	0E+00	8E-09	2E-04	1E-08
Manganese	Tacony Creek	4E-09	0E+00	8E-09	2E-04	1E-08
Manganese	Pickering Creek Reservoir	4E-09	0E+00	8E-09	2E-04	1E-08
Mercury (elemental)	Schuylkill				5E-08	
Mercury (elemental)	Wissahickon Creek				5E-08	
Mercury (elemental)	Tacony Creek				5E-08	
Mercury (elemental)	Pickering Creek Reservoir				5E-08	
Mercury (divalent)	Schuylkill	1E-06		9E-08		1E-06
Mercury (divalent)	Wissahickon Creek	1E-06		9E-08		1E-06
Mercury (divalent)	Tacony Creek	1E-06		9E-08		1E-06
Mercury (divalent)	Pickering Creek Reservoir	1E-06		9E-08		1E-06
Nickel	Schuylkill	7E-09	8E-10	4E-08		5E-08
Nickel	Wissahickon Creek	7E-09	2E-09	4E-08		5E-08
Nickel	Tacony Creek	7E-09	2E-09	4E-08		5E-08
Nickel	Pickering Creek Reservoir	7E-09	2E-09	4E-08		5E-08
Silver	Schuylkill	1E-10	0E+00	3E-08		3E-08
Silver	Wissahickon Creek	1E-10	0E+00	3E-08		3E-08
Silver	Tacony Creek	1E-10	0E+00	3E-08		3E-08
Silver	Pickering Creek Reservoir	1E-10	0E+00	3E-08		3E-08
Thallium	Schuylkill	4E-08	1E-07	8E-08		2E-07
Thallium	Wissahickon Creek	4E-08	4E-07	8E-08		5E-07
Thallium	Tacony Creek	4E-08	4E-07	8E-08		5E-07
Thallium	Pickering Creek Reservoir	4E-08	3E-07	8E-08		4E-07

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Schuylkill	4E-10	0E+00	3E-08		3E-08
Antimony	Wissahickon Creek	4E-10	0E+00	3E-08		3E-08
Antimony	Tacony Creek	4E-10	0E+00	3E-08		3E-08
Antimony	Pickering Creek Reservoir	4E-10	0E+00	3E-08		3E-08
Arsenic	Schuylkill	2E-08	5E-09	7E-08		9E-08
Arsenic	Wissahickon Creek	2E-08	2E-08	7E-08		1E-07
Arsenic	Tacony Creek	2E-08	2E-08	7E-08		1E-07
Arsenic	Pickering Creek Reservoir	2E-08	1E-08	7E-08		9E-08
Barium	Schuylkill	1E-09	0E+00	7E-11	3E-07	1E-09
Barium	Wissahickon Creek	1E-09	0E+00	7E-11	3E-07	1E-09
Barium	Tacony Creek	1E-09	0E+00	7E-11	3E-07	1E-09
Barium	Pickering Creek Reservoir	1E-09	0E+00	7E-11	3E-07	1E-09
Beryllium	Schuylkill	7E-09	5E-10	5E-10		8E-09
Beryllium	Wissahickon Creek	7E-09	1E-09	5E-10		9E-09
Beryllium	Tacony Creek	7E-09	1E-09	5E-10		9E-09
Beryllium	Pickering Creek Reservoir	7E-09	4E-10	5E-10		8E-09
Cadmium	Schuylkill	5E-07	2E-06	1E-06		4E-06
Cadmium	Wissahickon Creek	5E-07	7E-06	1E-06		9E-06
Cadmium	Tacony Creek	5E-07	7E-06	1E-06		8E-06
Cadmium	Pickering Creek Reservoir	5E-07	5E-06	1E-06		6E-06
Chromium VI	Schuylkill	4E-09	3E-10	2E-08		3E-08
Chromium VI	Wissahickon Creek	4E-09	1E-09	2E-08		3E-08
Chromium VI	Tacony Creek	4E-09	1E-09	2E-08		3E-08
Chromium VI	Pickering Creek Reservoir	4E-09	7E-10	2E-08		3E-08
Chromium III	Schuylkill	5E-09	9E-12	3E-12		5E-09
Chromium III	Wissahickon Creek	5E-09	1E-11	3E-12		5E-09
Chromium III	Tacony Creek	5E-09	8E-12	3E-12		5E-09
Chromium III	Pickering Creek Reservoir	5E-09	3E-13	3E-12		5E-09
Cobalt	Schuylkill	1E-09	0E+00	3E-09		4E-09
Cobalt	Wissahickon Creek	1E-09	0E+00	3E-09		4E-09
Cobalt	Tacony Creek	1E-09	0E+00	3E-09		4E-09
Cobalt	Pickering Creek Reservoir	1E-09	0E+00	3E-09		4E-09
Hydrogen Chloride	Schuylkill				1E-03	
Hydrogen Chloride	Wissahickon Creek				1E-03	
Hydrogen Chloride	Tacony Creek				1E-03	
Hydrogen Chloride	Pickering Creek Reservoir				1E-03	
Selenium	Schuylkill	2E-09	2E-06	6E-08		2E-06
Selenium	Wissahickon Creek	2E-09	5E-06	6E-08		5E-06
Selenium	Tacony Creek	2E-09	5E-06	6E-08		5E-06
Selenium	Pickering Creek Reservoir	2E-09	4E-06	6E-08		4E-06
Chlorine	Schuylkill				1E-03	
Chlorine	Wissahickon Creek				1E-03	
Chlorine	Tacony Creek				1E-03	
Chlorine	Pickering Creek Reservoir				1E-03	
Methylmercury - Developmental Effects	Schuylkill	6E-08	1E-04	1E-09		1E-04
Methylmercury - Developmental Effects	Wissahickon Creek	6E-08	5E-04	1E-09		5E-04
Methylmercury - Developmental Effects	Tacony Creek	6E-08	5E-04	1E-09		5E-04
Methylmercury - Developmental Effects	Pickering Creek Reservoir	6E-08	3E-04	1E-09		3E-04

Table IX-E8. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 468) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Schuylkill	2E-08	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Wissahickon Creek	2E-08	2E-04	4E-10		2E-04
Methylmercury - Neurological Effects	Tacony Creek	2E-08	2E-04	4E-10		2E-04
Methylmercury - Neurological Effects	Pickering Creek Reservoir	2E-08	1E-04	4E-10		1E-04

Table IX-E9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	3E-10	2E-10	7E-10	2E-07	2E-06	2E-08	1E-07	5E-08	6E-08		1E-09	2E-06
Nickel												1E-11	
Arsenic	8E-12	3E-12	1E-12	7E-12	2E-11	4E-11	1E-12			5E-11		2E-10	1E-10
Beryllium												4E-11	
Cadmium												3E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-08	4E-08	2E-08	9E-08	1E-08	7E-07	1E-09			0E+00		2E-04	1E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	5E-06	3E-05	1E-05	1E-04	1E-03	5E-07						1E-03
Nickel	3E-09	2E-09	7E-10	4E-09	4E-08	4E-07	2E-09			7E-09			4E-07
Silver	4E-10	5E-09	1E-09	1E-08	8E-08	3E-05	3E-09			0E+00			3E-05
Thallium	3E-07	3E-08	2E-09	7E-08	8E-06	2E-05	9E-07			2E-05			5E-05
Antimony	9E-10	4E-09	9E-10	9E-09	1E-08	8E-08	6E-10			0E+00			1E-07
Arsenic	2E-07	8E-08	3E-08	2E-07	5E-07	9E-07	4E-08			1E-06			3E-06
Barium	6E-07	6E-08	1E-08	1E-07	3E-08	4E-06	4E-09			0E+00		2E-05	4E-06
Beryllium	3E-07	4E-09	7E-10	1E-08	4E-08	2E-09	1E-08			2E-08			4E-07
Cadmium	1E-06	1E-06	5E-07	2E-06	9E-08	3E-07	2E-08			6E-05			7E-05
Chromium VI	4E-08	1E-08	5E-09	4E-08	5E-07	8E-06	3E-08			8E-08			9E-06
Chromium III	4E-09	5E-11	3E-11	1E-10	3E-09	4E-08	1E-09			5E-13			5E-08
Cobalt	1E-08	2E-09	1E-11	5E-09	2E-07	1E-06	2E-08			0E+00			1E-06
Hydrogen Chloride												2E-03	
Selenium	7E-08	6E-08	5E-08	2E-07	1E-06	1E-04	5E-06			1E-03			1E-03
Chlorine												6E-02	
Methylmercury - Developmental Effects	1E-05	1E-06	3E-06	2E-06	1E-05	1E-04	3E-08			2E-02			2E-02
Methylmercury - Neurological Effects	5E-06	4E-07	1E-06	5E-07	3E-06	3E-05	1E-08			5E-03			5E-03

Table IX-E9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-10	2E-10	9E-10	3E-07	1E-06	1E-08	1E-07	6E-08	6E-08		1E-09	2E-06
Nickel												1E-11	
Arsenic	3E-12	2E-12	1E-12	9E-12	3E-11	2E-11	1E-12			5E-11		2E-10	1E-10
Beryllium												5E-11	
Cadmium												3E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	2E-08	8E-08	2E-08	4E-07	7E-10			0E+00		2E-04	5E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	3E-06	2E-05	1E-05	2E-04	5E-04	3E-07						7E-04
Nickel	9E-10	9E-10	5E-10	4E-09	5E-08	2E-07	1E-09			5E-09			2E-07
Silver	1E-10	3E-09	9E-10	1E-08	1E-07	2E-05	2E-09			0E+00			2E-05
Thallium	9E-08	1E-08	1E-09	7E-08	9E-06	1E-05	5E-07			1E-05			3E-05
Antimony	2E-10	2E-09	6E-10	9E-09	2E-08	4E-08	3E-10			0E+00			7E-08
Arsenic	5E-08	5E-08	2E-08	2E-07	6E-07	5E-07	2E-08			1E-06			2E-06
Barium	2E-07	3E-08	1E-08	1E-07	3E-08	2E-06	3E-09			0E+00		2E-05	2E-06
Beryllium	7E-08	2E-09	5E-10	9E-09	5E-08	9E-10	8E-09			2E-08			2E-07
Cadmium	3E-07	6E-07	3E-07	2E-06	1E-07	2E-07	1E-08			5E-05			5E-05
Chromium VI	1E-08	7E-09	4E-09	4E-08	6E-07	4E-06	2E-08			6E-08			5E-06
Chromium III	1E-09	3E-11	2E-11	1E-10	4E-09	2E-08	7E-10			4E-13			3E-08
Cobalt	3E-09	1E-09	8E-12	5E-09	2E-07	5E-07	9E-09			0E+00			8E-07
Hydrogen Chloride												2E-03	
Selenium	2E-08	4E-08	3E-08	2E-07	2E-06	6E-05	3E-06			7E-04			8E-04
Chlorine												6E-02	
Methylmercury - Developmental Effects	4E-06	8E-07	2E-06	1E-06	1E-05	5E-05	2E-08			1E-02			1E-02
Methylmercury - Neurological Effects	1E-06	3E-07	8E-07	5E-07	4E-06	2E-05	7E-09			4E-03			4E-03

Table IX-E9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-10	1E-10	5E-10	1E-07	5E-07	9E-09	6E-08	3E-08	3E-08		9E-10	8E-07
Nickel												9E-12	
Arsenic	2E-12	2E-12	9E-13	5E-12	2E-11	1E-11	8E-13			3E-11		1E-10	7E-11
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-09	2E-08	1E-08	4E-08	8E-09	2E-07	5E-10			0E+00		2E-04	3E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	3E-05	2E-06	1E-05	6E-06	7E-05	2E-04	2E-07			0E+00			4E-04
Nickel	5E-10	7E-10	3E-10	2E-09	2E-08	9E-08	9E-10			3E-09			1E-07
Silver	6E-11	2E-09	7E-10	7E-09	4E-08	8E-06	1E-09			0E+00			8E-06
Thallium	5E-08	1E-08	8E-10	4E-08	4E-06	5E-06	3E-07			6E-06			2E-05
Antimony	1E-10	2E-09	4E-10	5E-09	8E-09	2E-08	2E-10			0E+00			3E-08
Arsenic	3E-08	4E-08	2E-08	1E-07	3E-07	2E-07	1E-08			5E-07			1E-06
Barium	8E-08	2E-08	7E-09	6E-08	2E-08	8E-07	2E-09			0E+00		2E-05	1E-06
Beryllium	4E-08	2E-09	4E-10	5E-09	2E-08	4E-10	5E-09			1E-08			8E-08
Cadmium	1E-07	4E-07	2E-07	1E-06	5E-08	8E-08	6E-09			3E-05			3E-05
Chromium VI	6E-09	6E-09	3E-09	2E-08	3E-07	2E-06	1E-08			3E-08			2E-06
Chromium III	6E-10	2E-11	2E-11	6E-11	2E-09	9E-09	4E-10			2E-13			1E-08
Cobalt	1E-09	9E-10	6E-12	3E-09	1E-07	2E-07	6E-09			0E+00			4E-07
Hydrogen Chloride												2E-03	
Selenium	9E-09	3E-08	2E-08	9E-08	7E-07	3E-05	2E-06			4E-04			4E-04
Chlorine												6E-02	
Methylmercury - Developmental Effects	2E-06	6E-07	2E-06	8E-07	6E-06	2E-05	1E-08			6E-03			6E-03
Methylmercury - Neurological Effects	6E-07	2E-07	6E-07	3E-07	2E-06	8E-06	4E-09			2E-03			2E-03

Table IX-E9. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	5E-10	2E-10	9E-10	3E-07	4E-07	1E-08	1E-07	5E-08	7E-08		1E-09	9E-07
Nickel												1E-11	
Arsenic	1E-12	4E-12	2E-12	8E-12	3E-11	1E-11	1E-12			6E-11		2E-10	1E-10
Beryllium												4E-11	
Cadmium												3E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	3E-08	1E-08	4E-08	9E-09	8E-08	4E-10			0E+00		2E-04	2E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	1E-05	3E-06	1E-05	6E-06	8E-05	1E-04	2E-07			0E+00			2E-04
Nickel	2E-10	9E-10	4E-10	2E-09	2E-08	4E-08	7E-10			3E-09			7E-08
Silver	2E-11	3E-09	7E-10	6E-09	5E-08	3E-06	1E-09			0E+00			3E-06
Thallium	2E-08	1E-08	9E-10	3E-08	5E-06	2E-06	3E-07			7E-06			1E-05
Antimony	5E-11	2E-09	5E-10	4E-09	9E-09	9E-09	2E-10			0E+00			2E-08
Arsenic	1E-08	5E-08	2E-08	9E-08	3E-07	9E-08	1E-08			6E-07			1E-06
Barium	3E-08	3E-08	8E-09	5E-08	2E-08	4E-07	1E-09			0E+00		2E-05	5E-07
Beryllium	2E-08	2E-09	4E-10	5E-09	3E-08	2E-10	4E-09			1E-08			6E-08
Cadmium	6E-08	6E-07	3E-07	9E-07	6E-08	3E-08	6E-09			3E-05			3E-05
Chromium VI	3E-09	8E-09	3E-09	2E-08	3E-07	8E-07	1E-08			4E-08			1E-06
Chromium III	2E-10	3E-11	2E-11	6E-11	2E-09	4E-09	4E-10			2E-13			7E-09
Cobalt	6E-10	1E-09	6E-12	2E-09	1E-07	1E-07	5E-09			0E+00			2E-07
Hydrogen Chloride												2E-03	
Selenium	4E-09	4E-08	3E-08	9E-08	8E-07	1E-05	2E-06			4E-04			4E-04
Chlorine												6E-02	
Methylmercury - Developmental Effects	8E-07	8E-07	2E-06	7E-07	6E-06	1E-05	1E-08			7E-03			7E-03
Methylmercury - Neurological Effects	3E-07	3E-07	7E-07	2E-07	2E-06	3E-06	4E-09			2E-03			2E-03

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wabash River	5E-09	1E-09	0E+00	1E-09	6E-09
2,3,7,8-TCDD-TEQ	Sugar Creek	5E-09	1E-09	0E+00	1E-09	6E-09
2,3,7,8-TCDD-TEQ	Big Raccoon Creek	5E-09	2E-08	0E+00	1E-09	2E-08
Nickel	Wabash River				1E-11	
Nickel	Sugar Creek				1E-11	
Nickel	Big Raccoon Creek				1E-11	
Arsenic	Wabash River	8E-12	5E-14	0E+00	2E-10	8E-12
Arsenic	Sugar Creek	8E-12	2E-14	0E+00	2E-10	8E-12
Arsenic	Big Raccoon Creek	8E-12	3E-13	0E+00	2E-10	8E-12
Beryllium	Wabash River				4E-11	
Beryllium	Sugar Creek				4E-11	
Beryllium	Big Raccoon Creek				4E-11	
Cadmium	Wabash River				3E-10	
Cadmium	Sugar Creek				3E-10	
Cadmium	Big Raccoon Creek				3E-10	
Chromium VI	Wabash River				2E-09	
Chromium VI	Sugar Creek				2E-09	
Chromium VI	Big Raccoon Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Wabash River	4E-08	0E+00	0E+00	2E-04	4E-08
Manganese	Sugar Creek	4E-08	0E+00	0E+00	2E-04	4E-08
Manganese	Big Raccoon Creek	4E-08	0E+00	0E+00	2E-04	4E-08
Mercury (elemental)	Wabash River				1E-06	
Mercury (elemental)	Sugar Creek				1E-06	
Mercury (elemental)	Big Raccoon Creek				1E-06	
Mercury (divalent)	Wabash River	2E-04		0E+00		2E-04
Mercury (divalent)	Sugar Creek	2E-04		0E+00		2E-04
Mercury (divalent)	Big Raccoon Creek	2E-04		0E+00		2E-04
Nickel	Wabash River	3E-09	6E-12	0E+00		3E-09
Nickel	Sugar Creek	3E-09	2E-12	0E+00		3E-09
Nickel	Big Raccoon Creek	3E-09	4E-11	0E+00		3E-09
Silver	Wabash River	4E-10	0E+00	0E+00		4E-10
Silver	Sugar Creek	4E-10	0E+00	0E+00		4E-10
Silver	Big Raccoon Creek	4E-10	0E+00	0E+00		4E-10
Thallium	Wabash River	3E-07	2E-08	0E+00		3E-07
Thallium	Sugar Creek	3E-07	5E-09	0E+00		3E-07
Thallium	Big Raccoon Creek	3E-07	1E-07	0E+00		4E-07
Antimony	Wabash River	9E-10	0E+00	0E+00		9E-10
Antimony	Sugar Creek	9E-10	0E+00	0E+00		9E-10
Antimony	Big Raccoon Creek	9E-10	0E+00	0E+00		9E-10
Arsenic	Wabash River	2E-07	1E-09	0E+00		2E-07
Arsenic	Sugar Creek	2E-07	4E-10	0E+00		2E-07
Arsenic	Big Raccoon Creek	2E-07	8E-09	0E+00		2E-07
Barium	Wabash River	6E-07	0E+00	0E+00	2E-05	6E-07
Barium	Sugar Creek	6E-07	0E+00	0E+00	2E-05	6E-07
Barium	Big Raccoon Creek	6E-07	0E+00	0E+00	2E-05	6E-07
Beryllium	Wabash River	3E-07	1E-10	0E+00		3E-07
Beryllium	Sugar Creek	3E-07	1E-10	0E+00		3E-07
Beryllium	Big Raccoon Creek	3E-07	2E-09	0E+00		3E-07

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Wabash River	1E-06	8E-08	0E+00		1E-06
Cadmium	Sugar Creek	1E-06	3E-08	0E+00		1E-06
Cadmium	Big Raccoon Creek	1E-06	5E-07	0E+00		2E-06
Chromium VI	Wabash River	4E-08	7E-11	0E+00		5E-08
Chromium VI	Sugar Creek	4E-08	2E-11	0E+00		4E-08
Chromium VI	Big Raccoon Creek	4E-08	5E-10	0E+00		5E-08
Chromium III	Wabash River	4E-09	4E-14	0E+00		4E-09
Chromium III	Sugar Creek	4E-09	5E-14	0E+00		4E-09
Chromium III	Big Raccoon Creek	4E-09	5E-13	0E+00		4E-09
Cobalt	Wabash River	1E-08	0E+00	0E+00		1E-08
Cobalt	Sugar Creek	1E-08	0E+00	0E+00		1E-08
Cobalt	Big Raccoon Creek	1E-08	0E+00	0E+00		1E-08
Hydrogen Chloride	Wabash River				2E-03	
Hydrogen Chloride	Sugar Creek				2E-03	
Hydrogen Chloride	Big Raccoon Creek				2E-03	
Selenium	Wabash River	7E-08	8E-07	0E+00		9E-07
Selenium	Sugar Creek	7E-08	3E-07	0E+00		3E-07
Selenium	Big Raccoon Creek	7E-08	5E-06	0E+00		5E-06
Chlorine	Wabash River				6E-02	
Chlorine	Sugar Creek				6E-02	
Chlorine	Big Raccoon Creek				6E-02	
Methylmercury - Developmental Effects	Wabash River	1E-05	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Sugar Creek	1E-05	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Big Raccoon Creek	1E-05	9E-03	0E+00		9E-03
Methylmercury - Neurological Effects	Wabash River	5E-06	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Sugar Creek	5E-06	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Big Raccoon Creek	5E-06	3E-03	0E+00		3E-03

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wabash River	2E-09	2E-09	0E+00	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Sugar Creek	2E-09	2E-09	0E+00	1E-09	4E-09
2,3,7,8-TCDD-TEQ	Big Raccoon Creek	2E-09	2E-08	0E+00	1E-09	2E-08
Nickel	Wabash River				1E-11	
Nickel	Sugar Creek				1E-11	
Nickel	Big Raccoon Creek				1E-11	
Arsenic	Wabash River	3E-12	7E-14	0E+00	2E-10	3E-12
Arsenic	Sugar Creek	3E-12	2E-14	0E+00	2E-10	3E-12
Arsenic	Big Raccoon Creek	3E-12	4E-13	0E+00	2E-10	3E-12
Beryllium	Wabash River				5E-11	
Beryllium	Sugar Creek				5E-11	
Beryllium	Big Raccoon Creek				5E-11	
Cadmium	Wabash River				3E-10	
Cadmium	Sugar Creek				3E-10	
Cadmium	Big Raccoon Creek				3E-10	
Chromium VI	Wabash River				3E-09	
Chromium VI	Sugar Creek				3E-09	
Chromium VI	Big Raccoon Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Wabash River	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Sugar Creek	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Big Raccoon Creek	1E-08	0E+00	0E+00	2E-04	1E-08
Mercury (elemental)	Wabash River				1E-06	
Mercury (elemental)	Sugar Creek				1E-06	
Mercury (elemental)	Big Raccoon Creek				1E-06	
Mercury (divalent)	Wabash River	6E-05		0E+00		6E-05
Mercury (divalent)	Sugar Creek	6E-05		0E+00		6E-05
Mercury (divalent)	Big Raccoon Creek	6E-05		0E+00		6E-05
Nickel	Wabash River	9E-10	6E-12	0E+00		9E-10
Nickel	Sugar Creek	9E-10	2E-12	0E+00		9E-10
Nickel	Big Raccoon Creek	9E-10	4E-11	0E+00		9E-10
Silver	Wabash River	1E-10	0E+00	0E+00		1E-10
Silver	Sugar Creek	1E-10	0E+00	0E+00		1E-10
Silver	Big Raccoon Creek	1E-10	0E+00	0E+00		1E-10
Thallium	Wabash River	9E-08	2E-08	0E+00		1E-07
Thallium	Sugar Creek	9E-08	5E-09	0E+00		9E-08
Thallium	Big Raccoon Creek	9E-08	1E-07	0E+00		2E-07
Antimony	Wabash River	2E-10	0E+00	0E+00		2E-10
Antimony	Sugar Creek	2E-10	0E+00	0E+00		2E-10
Antimony	Big Raccoon Creek	2E-10	0E+00	0E+00		2E-10
Arsenic	Wabash River	5E-08	1E-09	0E+00		5E-08
Arsenic	Sugar Creek	5E-08	4E-10	0E+00		5E-08
Arsenic	Big Raccoon Creek	5E-08	8E-09	0E+00		6E-08
Barium	Wabash River	2E-07	0E+00	0E+00	2E-05	2E-07
Barium	Sugar Creek	2E-07	0E+00	0E+00	2E-05	2E-07
Barium	Big Raccoon Creek	2E-07	0E+00	0E+00	2E-05	2E-07
Beryllium	Wabash River	7E-08	1E-10	0E+00		7E-08
Beryllium	Sugar Creek	7E-08	1E-10	0E+00		7E-08
Beryllium	Big Raccoon Creek	7E-08	2E-09	0E+00		7E-08

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Wabash River	3E-07	8E-08	0E+00		3E-07
Cadmium	Sugar Creek	3E-07	3E-08	0E+00		3E-07
Cadmium	Big Raccoon Creek	3E-07	5E-07	0E+00		8E-07
Chromium VI	Wabash River	1E-08	7E-11	0E+00		1E-08
Chromium VI	Sugar Creek	1E-08	2E-11	0E+00		1E-08
Chromium VI	Big Raccoon Creek	1E-08	5E-10	0E+00		1E-08
Chromium III	Wabash River	1E-09	4E-14	0E+00		1E-09
Chromium III	Sugar Creek	1E-09	5E-14	0E+00		1E-09
Chromium III	Big Raccoon Creek	1E-09	5E-13	0E+00		1E-09
Cobalt	Wabash River	3E-09	0E+00	0E+00		3E-09
Cobalt	Sugar Creek	3E-09	0E+00	0E+00		3E-09
Cobalt	Big Raccoon Creek	3E-09	0E+00	0E+00		3E-09
Hydrogen Chloride	Wabash River				2E-03	
Hydrogen Chloride	Sugar Creek				2E-03	
Hydrogen Chloride	Big Raccoon Creek				2E-03	
Selenium	Wabash River	2E-08	8E-07	0E+00		8E-07
Selenium	Sugar Creek	2E-08	3E-07	0E+00		3E-07
Selenium	Big Raccoon Creek	2E-08	5E-06	0E+00		5E-06
Chlorine	Wabash River				6E-02	
Chlorine	Sugar Creek				6E-02	
Chlorine	Big Raccoon Creek				6E-02	
Methylmercury - Developmental Effects	Wabash River	4E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Sugar Creek	4E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Big Raccoon Creek	4E-06	9E-03	0E+00		9E-03
Methylmercury - Neurological Effects	Wabash River	1E-06	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Sugar Creek	1E-06	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Big Raccoon Creek	1E-06	3E-03	0E+00		3E-03

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wabash River	1E-09	1E-09	0E+00	9E-10	2E-09
2,3,7,8-TCDD-TEQ	Sugar Creek	1E-09	1E-09	0E+00	9E-10	2E-09
2,3,7,8-TCDD-TEQ	Big Raccoon Creek	1E-09	2E-08	0E+00	9E-10	2E-08
Nickel	Wabash River				9E-12	
Nickel	Sugar Creek				9E-12	
Nickel	Big Raccoon Creek				9E-12	
Arsenic	Wabash River	2E-12	5E-14	0E+00	1E-10	2E-12
Arsenic	Sugar Creek	2E-12	2E-14	0E+00	1E-10	2E-12
Arsenic	Big Raccoon Creek	2E-12	3E-13	0E+00	1E-10	2E-12
Beryllium	Wabash River				3E-11	
Beryllium	Sugar Creek				3E-11	
Beryllium	Big Raccoon Creek				3E-11	
Cadmium	Wabash River				2E-10	
Cadmium	Sugar Creek				2E-10	
Cadmium	Big Raccoon Creek				2E-10	
Chromium VI	Wabash River				2E-09	
Chromium VI	Sugar Creek				2E-09	
Chromium VI	Big Raccoon Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Wabash River	5E-09	0E+00	0E+00	2E-04	5E-09
Manganese	Sugar Creek	5E-09	0E+00	0E+00	2E-04	5E-09
Manganese	Big Raccoon Creek	5E-09	0E+00	0E+00	2E-04	5E-09
Mercury (elemental)	Wabash River				1E-06	
Mercury (elemental)	Sugar Creek				1E-06	
Mercury (elemental)	Big Raccoon Creek				1E-06	
Mercury (divalent)	Wabash River	3E-05		0E+00		3E-05
Mercury (divalent)	Sugar Creek	3E-05		0E+00		3E-05
Mercury (divalent)	Big Raccoon Creek	3E-05		0E+00		3E-05
Nickel	Wabash River	5E-10	4E-12	0E+00		5E-10
Nickel	Sugar Creek	5E-10	1E-12	0E+00		5E-10
Nickel	Big Raccoon Creek	5E-10	3E-11	0E+00		5E-10
Silver	Wabash River	6E-11	0E+00	0E+00		6E-11
Silver	Sugar Creek	6E-11	0E+00	0E+00		6E-11
Silver	Big Raccoon Creek	6E-11	0E+00	0E+00		6E-11
Thallium	Wabash River	5E-08	1E-08	0E+00		6E-08
Thallium	Sugar Creek	5E-08	4E-09	0E+00		5E-08
Thallium	Big Raccoon Creek	5E-08	8E-08	0E+00		1E-07
Antimony	Wabash River	1E-10	0E+00	0E+00		1E-10
Antimony	Sugar Creek	1E-10	0E+00	0E+00		1E-10
Antimony	Big Raccoon Creek	1E-10	0E+00	0E+00		1E-10
Arsenic	Wabash River	3E-08	9E-10	0E+00		3E-08
Arsenic	Sugar Creek	3E-08	3E-10	0E+00		3E-08
Arsenic	Big Raccoon Creek	3E-08	6E-09	0E+00		3E-08
Barium	Wabash River	8E-08	0E+00	0E+00	2E-05	8E-08
Barium	Sugar Creek	8E-08	0E+00	0E+00	2E-05	8E-08
Barium	Big Raccoon Creek	8E-08	0E+00	0E+00	2E-05	8E-08
Beryllium	Wabash River	4E-08	1E-10	0E+00		4E-08
Beryllium	Sugar Creek	4E-08	8E-11	0E+00		4E-08
Beryllium	Big Raccoon Creek	4E-08	1E-09	0E+00		4E-08

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Wabash River	1E-07	6E-08	0E+00		2E-07
Cadmium	Sugar Creek	1E-07	2E-08	0E+00		2E-07
Cadmium	Big Raccoon Creek	1E-07	4E-07	0E+00		5E-07
Chromium VI	Wabash River	6E-09	5E-11	0E+00		6E-09
Chromium VI	Sugar Creek	6E-09	2E-11	0E+00		6E-09
Chromium VI	Big Raccoon Creek	6E-09	3E-10	0E+00		7E-09
Chromium III	Wabash River	6E-10	3E-14	0E+00		6E-10
Chromium III	Sugar Creek	6E-10	3E-14	0E+00		6E-10
Chromium III	Big Raccoon Creek	6E-10	4E-13	0E+00		6E-10
Cobalt	Wabash River	1E-09	0E+00	0E+00		1E-09
Cobalt	Sugar Creek	1E-09	0E+00	0E+00		1E-09
Cobalt	Big Raccoon Creek	1E-09	0E+00	0E+00		1E-09
Hydrogen Chloride	Wabash River				2E-03	
Hydrogen Chloride	Sugar Creek				2E-03	
Hydrogen Chloride	Big Raccoon Creek				2E-03	
Selenium	Wabash River	9E-09	6E-07	0E+00		6E-07
Selenium	Sugar Creek	9E-09	2E-07	0E+00		2E-07
Selenium	Big Raccoon Creek	9E-09	4E-06	0E+00		4E-06
Chlorine	Wabash River				6E-02	
Chlorine	Sugar Creek				6E-02	
Chlorine	Big Raccoon Creek				6E-02	
Methylmercury - Developmental Effects	Wabash River	2E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Sugar Creek	2E-06	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Big Raccoon Creek	2E-06	6E-03	0E+00		6E-03
Methylmercury - Neurological Effects	Wabash River	6E-07	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Sugar Creek	6E-07	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Big Raccoon Creek	6E-07	2E-03	0E+00		2E-03

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wabash River	7E-10	2E-09	0E+00	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Sugar Creek	7E-10	2E-09	0E+00	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Big Raccoon Creek	7E-10	3E-08	0E+00	1E-09	3E-08
Nickel	Wabash River				1E-11	
Nickel	Sugar Creek				1E-11	
Nickel	Big Raccoon Creek				1E-11	
Arsenic	Wabash River	1E-12	9E-14	0E+00	2E-10	1E-12
Arsenic	Sugar Creek	1E-12	3E-14	0E+00	2E-10	1E-12
Arsenic	Big Raccoon Creek	1E-12	6E-13	0E+00	2E-10	2E-12
Beryllium	Wabash River				4E-11	
Beryllium	Sugar Creek				4E-11	
Beryllium	Big Raccoon Creek				4E-11	
Cadmium	Wabash River				3E-10	
Cadmium	Sugar Creek				3E-10	
Cadmium	Big Raccoon Creek				3E-10	
Chromium VI	Wabash River				3E-09	
Chromium VI	Sugar Creek				3E-09	
Chromium VI	Big Raccoon Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Wabash River	2E-09	0E+00	0E+00	2E-04	2E-09
Manganese	Sugar Creek	2E-09	0E+00	0E+00	2E-04	2E-09
Manganese	Big Raccoon Creek	2E-09	0E+00	0E+00	2E-04	2E-09
Mercury (elemental)	Wabash River				1E-06	
Mercury (elemental)	Sugar Creek				1E-06	
Mercury (elemental)	Big Raccoon Creek				1E-06	
Mercury (divalent)	Wabash River	1E-05		0E+00		1E-05
Mercury (divalent)	Sugar Creek	1E-05		0E+00		1E-05
Mercury (divalent)	Big Raccoon Creek	1E-05		0E+00		1E-05
Nickel	Wabash River	2E-10	4E-12	0E+00		2E-10
Nickel	Sugar Creek	2E-10	1E-12	0E+00		2E-10
Nickel	Big Raccoon Creek	2E-10	3E-11	0E+00		2E-10
Silver	Wabash River	2E-11	0E+00	0E+00		2E-11
Silver	Sugar Creek	2E-11	0E+00	0E+00		2E-11
Silver	Big Raccoon Creek	2E-11	0E+00	0E+00		2E-11
Thallium	Wabash River	2E-08	1E-08	0E+00		3E-08
Thallium	Sugar Creek	2E-08	4E-09	0E+00		2E-08
Thallium	Big Raccoon Creek	2E-08	8E-08	0E+00		9E-08
Antimony	Wabash River	5E-11	0E+00	0E+00		5E-11
Antimony	Sugar Creek	5E-11	0E+00	0E+00		5E-11
Antimony	Big Raccoon Creek	5E-11	0E+00	0E+00		5E-11
Arsenic	Wabash River	1E-08	9E-10	0E+00		1E-08
Arsenic	Sugar Creek	1E-08	3E-10	0E+00		1E-08
Arsenic	Big Raccoon Creek	1E-08	6E-09	0E+00		2E-08
Barium	Wabash River	3E-08	0E+00	0E+00	2E-05	3E-08
Barium	Sugar Creek	3E-08	0E+00	0E+00	2E-05	3E-08
Barium	Big Raccoon Creek	3E-08	0E+00	0E+00	2E-05	3E-08
Beryllium	Wabash River	2E-08	1E-10	0E+00		2E-08
Beryllium	Sugar Creek	2E-08	8E-11	0E+00		2E-08
Beryllium	Big Raccoon Creek	2E-08	1E-09	0E+00		2E-08

Table IX-E10. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 701) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Wabash River	6E-08	6E-08	0E+00		1E-07
Cadmium	Sugar Creek	6E-08	2E-08	0E+00		8E-08
Cadmium	Big Raccoon Creek	6E-08	4E-07	0E+00		4E-07
Chromium VI	Wabash River	3E-09	5E-11	0E+00		3E-09
Chromium VI	Sugar Creek	3E-09	2E-11	0E+00		3E-09
Chromium VI	Big Raccoon Creek	3E-09	3E-10	0E+00		3E-09
Chromium III	Wabash River	2E-10	3E-14	0E+00		2E-10
Chromium III	Sugar Creek	2E-10	3E-14	0E+00		2E-10
Chromium III	Big Raccoon Creek	2E-10	4E-13	0E+00		2E-10
Cobalt	Wabash River	6E-10	0E+00	0E+00		6E-10
Cobalt	Sugar Creek	6E-10	0E+00	0E+00		6E-10
Cobalt	Big Raccoon Creek	6E-10	0E+00	0E+00		6E-10
Hydrogen Chloride	Wabash River				2E-03	
Hydrogen Chloride	Sugar Creek				2E-03	
Hydrogen Chloride	Big Raccoon Creek				2E-03	
Selenium	Wabash River	4E-09	6E-07	0E+00		6E-07
Selenium	Sugar Creek	4E-09	2E-07	0E+00		2E-07
Selenium	Big Raccoon Creek	4E-09	4E-06	0E+00		4E-06
Chlorine	Wabash River				6E-02	
Chlorine	Sugar Creek				6E-02	
Chlorine	Big Raccoon Creek				6E-02	
Methylmercury - Developmental Effects	Wabash River	8E-07	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Sugar Creek	8E-07	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Big Raccoon Creek	8E-07	6E-03	0E+00		6E-03
Methylmercury - Neurological Effects	Wabash River	3E-07	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Sugar Creek	3E-07	4E-04	0E+00		4E-04
Methylmercury - Neurological Effects	Big Raccoon Creek	3E-07	2E-03	0E+00		2E-03

Table IX-E11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	5E-10	6E-11	9E-10	2E-07	3E-06	2E-08	3E-08	2E-08	7E-08	2E-13	2E-09	3E-06
Nickel												3E-11	
Arsenic	8E-12	1E-12	5E-13	3E-12	8E-12	1E-11	1E-12			2E-10	6E-12	5E-10	2E-10
Beryllium												9E-10	
Cadmium												9E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	9E-08	4E-08	2E-08	7E-08	2E-08	1E-06	2E-09			0E+00	2E-08	2E-03	1E-06
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	6E-05	4E-04	1E-04	2E-03	2E-02	9E-06				5E-07		2E-02
Nickel	3E-09	5E-10	2E-10	1E-09	1E-08	1E-07	1E-09			2E-08	3E-09		2E-07
Silver	3E-10	2E-09	8E-10	4E-09	2E-08	6E-06	6E-10			0E+00	4E-08		6E-06
Thallium	1E-06	2E-08	2E-09	7E-08	9E-06	2E-05	2E-06			1E-04	1E-07		1E-04
Antimony	1E-08	3E-08	1E-08	6E-08	5E-08	3E-07	3E-09			0E+00	4E-07		8E-07
Arsenic	2E-07	3E-08	1E-08	7E-08	2E-07	3E-07	2E-08			4E-06	1E-07		5E-06
Barium	6E-08	6E-09	1E-09	1E-08	3E-09	4E-07	4E-10			0E+00	3E-11	2E-05	4E-07
Beryllium	6E-07	8E-09	2E-09	2E-08	9E-08	4E-09	3E-08			2E-07	6E-10		1E-06
Cadmium	9E-07	3E-07	2E-07	7E-07	5E-08	2E-07	1E-08			1E-04	1E-07		1E-04
Chromium VI	1E-07	1E-08	7E-09	3E-08	4E-07	7E-06	4E-08			7E-07	2E-07		8E-06
Chromium III	3E-08	3E-10	2E-10	9E-10	2E-08	3E-07	8E-09			1E-11	4E-14		3E-07
Cobalt	3E-08	2E-09	1E-11	4E-09	2E-07	9E-07	3E-08			0E+00	8E-09		1E-06
Hydrogen Chloride												2E-03	
Selenium	2E-08	6E-09	9E-09	2E-08	1E-07	9E-06	5E-07			9E-04	2E-07		9E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	2E-04	1E-05	6E-05	2E-05	2E-04	1E-03	6E-07			9E-03	3E-08		1E-02
Methylmercury - Neurological Effects	8E-05	4E-06	2E-05	5E-06	5E-05	5E-04	2E-07			3E-03	1E-08		3E-03

Table IX-E11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	4E-10	5E-11	1E-09	4E-07	2E-06	1E-08	3E-08	2E-08	7E-08	1E-13	2E-09	2E-06
Nickel												4E-11	
Arsenic	3E-12	9E-13	5E-13	3E-12	1E-11	1E-11	8E-13			2E-10	5E-12	6E-10	2E-10
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-08	1E-08	7E-08	2E-08	5E-07	1E-09			0E+00	9E-09	2E-03	7E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	NA	3E-05	3E-04	1E-04	3E-03	9E-03	6E-06				3E-07		1E-02
Nickel	7E-10	3E-10	2E-10	1E-09	1E-08	6E-08	6E-10			1E-08	2E-09		9E-08
Silver	7E-11	1E-09	6E-10	4E-09	2E-08	3E-06	4E-10			0E+00	2E-08		3E-06
Thallium	3E-07	1E-08	1E-09	7E-08	1E-05	1E-05	1E-06			8E-05	8E-08		1E-04
Antimony	3E-09	2E-08	7E-09	6E-08	6E-08	2E-07	2E-09			0E+00	2E-07		5E-07
Arsenic	5E-08	2E-08	1E-08	7E-08	2E-07	2E-07	1E-08			3E-06	8E-08		4E-06
Barium	2E-08	3E-09	1E-09	1E-08	3E-09	2E-07	3E-10			0E+00	2E-11	2E-05	2E-07
Beryllium	2E-07	5E-09	1E-09	2E-08	1E-07	2E-09	2E-08			2E-07	4E-10		5E-07
Cadmium	2E-07	2E-07	1E-07	7E-07	6E-08	9E-08	7E-09			1E-04	7E-08		1E-04
Chromium VI	3E-08	7E-09	5E-09	3E-08	5E-07	3E-06	3E-08			5E-07	1E-07		5E-06
Chromium III	8E-09	2E-10	2E-10	9E-10	3E-08	1E-07	5E-09			1E-11	2E-14		2E-07
Cobalt	7E-09	1E-09	7E-12	4E-09	2E-07	5E-07	2E-08			0E+00	5E-09		7E-07
Hydrogen Chloride												2E-03	
Selenium	4E-09	3E-09	6E-09	2E-08	1E-07	4E-06	3E-07			6E-04	1E-07		6E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	6E-05	6E-06	4E-05	1E-05	2E-04	7E-04	3E-07			6E-03	2E-08		7E-03
Methylmercury - Neurological Effects	2E-05	2E-06	1E-05	5E-06	6E-05	2E-04	1E-07			2E-03	6E-09		2E-03

Table IX-E11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	3E-10	4E-11	6E-10	2E-07	9E-07	8E-09	2E-08	9E-09	4E-08	9E-14	1E-09	1E-06
Nickel												2E-11	
Arsenic	2E-12	7E-13	3E-13	2E-12	6E-12	5E-12	5E-13			9E-11	3E-12	4E-10	1E-10
Beryllium												7E-10	
Cadmium												7E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	1E-08	4E-08	1E-08	2E-07	8E-10			0E+00	6E-09	2E-03	3E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	5E-04	2E-05	2E-04	7E-05	1E-03	4E-03	4E-06			0E+00	2E-07		6E-03
Nickel	4E-10	2E-10	1E-10	6E-10	6E-09	3E-08	4E-10			7E-09	1E-09		4E-08
Silver	4E-11	8E-10	4E-10	2E-09	8E-09	1E-06	2E-10			0E+00	1E-08		1E-06
Thallium	1E-07	1E-08	8E-10	3E-08	5E-06	6E-06	8E-07			4E-05	5E-08		5E-05
Antimony	1E-09	1E-08	5E-09	3E-08	3E-08	7E-08	1E-09			0E+00	1E-07		3E-07
Arsenic	3E-08	1E-08	7E-09	4E-08	1E-07	8E-08	1E-08			2E-06	5E-08		2E-06
Barium	8E-09	3E-09	7E-10	6E-09	2E-09	8E-08	2E-10			0E+00	1E-11	2E-05	1E-07
Beryllium	8E-08	4E-09	8E-10	1E-08	5E-08	9E-10	1E-08			8E-08	2E-10		2E-07
Cadmium	1E-07	1E-07	8E-08	3E-07	3E-08	4E-08	4E-09			5E-05	4E-08		5E-05
Chromium VI	2E-08	5E-09	3E-09	2E-08	2E-07	2E-06	2E-08			3E-07	7E-08		2E-06
Chromium III	4E-09	1E-10	1E-10	5E-10	1E-08	7E-08	3E-09			5E-12	1E-14		9E-08
Cobalt	3E-09	8E-10	5E-12	2E-09	9E-08	2E-07	1E-08			0E+00	3E-09		3E-07
Hydrogen Chloride												2E-03	
Selenium	2E-09	3E-09	5E-09	8E-09	5E-08	2E-06	2E-07			3E-04	6E-08		3E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	3E-05	5E-06	3E-05	8E-06	8E-05	3E-04	2E-07			3E-03	1E-08		4E-03
Methylmercury - Neurological Effects	1E-05	2E-06	1E-05	3E-06	3E-05	1E-04	7E-08			1E-03	4E-09		1E-03

Table IX-E11. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	7E-10	7E-11	1E-09	4E-07	7E-07	1E-08	3E-08	2E-08	8E-08	2E-13	2E-09	1E-06
Nickel												4E-11	
Arsenic	1E-12	2E-12	6E-13	3E-12	1E-11	4E-12	9E-13			2E-10	7E-12	5E-10	2E-10
Beryllium												1E-09	
Cadmium												1E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-09	2E-08	1E-08	3E-08	1E-08	1E-07	7E-10			0E+00	7E-09	2E-03	2E-07
Mercury (elemental)												1E-05	
Mercury (divalent)	2E-04	3E-05	3E-04	6E-05	1E-03	2E-03	3E-06			0E+00	2E-07		4E-03
Nickel	2E-10	3E-10	1E-10	6E-10	7E-09	1E-08	4E-10			8E-09	1E-09		3E-08
Silver	1E-11	1E-09	5E-10	2E-09	1E-08	6E-07	2E-10			0E+00	2E-08		7E-07
Thallium	5E-08	1E-08	9E-10	3E-08	6E-06	2E-06	7E-07			5E-05	6E-08		5E-05
Antimony	6E-10	2E-08	6E-09	3E-08	3E-08	3E-08	9E-10			0E+00	1E-07		3E-07
Arsenic	1E-08	2E-08	8E-09	3E-08	1E-07	4E-08	8E-09			2E-06	6E-08		2E-06
Barium	3E-09	3E-09	8E-10	6E-09	2E-09	4E-08	1E-10			0E+00	1E-11	2E-05	5E-08
Beryllium	3E-08	5E-09	9E-10	1E-08	6E-08	4E-10	1E-08			9E-08	3E-10		2E-07
Cadmium	5E-08	2E-07	9E-08	3E-07	3E-08	2E-08	4E-09			6E-05	5E-08		6E-05
Chromium VI	7E-09	7E-09	4E-09	2E-08	3E-07	7E-07	1E-08			3E-07	8E-08		1E-06
Chromium III	2E-09	2E-10	1E-10	4E-10	1E-08	3E-08	3E-09			6E-12	2E-14		5E-08
Cobalt	1E-09	1E-09	6E-12	2E-09	1E-07	9E-08	9E-09			0E+00	4E-09		2E-07
Hydrogen Chloride												2E-03	
Selenium	9E-10	4E-09	5E-09	8E-09	6E-08	9E-07	2E-07			4E-04	7E-08		4E-04
Chlorine												2E-02	
Methylmercury - Developmental Effects	1E-05	7E-06	3E-05	7E-06	1E-04	1E-04	2E-07			4E-03	1E-08		4E-03
Methylmercury - Neurological Effects	5E-06	2E-06	1E-05	2E-06	3E-05	5E-05	6E-08			1E-03	5E-09		1E-03

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Silver Lake Res.	1E-09	4E-10	2E-13	2E-09	2E-09
2,3,7,8-TCDD-TEQ	Garvey Reservoir	1E-09	1E-08	2E-13	2E-09	1E-08
2,3,7,8-TCDD-TEQ	Legg Lake	1E-09	9E-08	2E-13	2E-09	9E-08
Nickel	Silver Lake Res.				3E-11	
Nickel	Garvey Reservoir				3E-11	
Nickel	Legg Lake				3E-11	
Arsenic	Silver Lake Res.	8E-12	6E-13	6E-12	5E-10	1E-11
Arsenic	Garvey Reservoir	8E-12	2E-11	6E-12	5E-10	3E-11
Arsenic	Legg Lake	8E-12	1E-10	6E-12	5E-10	1E-10
Beryllium	Silver Lake Res.				9E-10	
Beryllium	Garvey Reservoir				9E-10	
Beryllium	Legg Lake				9E-10	
Cadmium	Silver Lake Res.				9E-10	
Cadmium	Garvey Reservoir				9E-10	
Cadmium	Legg Lake				9E-10	
Chromium VI	Silver Lake Res.				2E-08	
Chromium VI	Garvey Reservoir				2E-08	
Chromium VI	Legg Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Silver Lake Res.	9E-08	0E+00	2E-08	2E-03	1E-07
Manganese	Garvey Reservoir	9E-08	0E+00	2E-08	2E-03	1E-07
Manganese	Legg Lake	9E-08	0E+00	2E-08	2E-03	1E-07
Mercury (elemental)	Silver Lake Res.				1E-05	
Mercury (elemental)	Garvey Reservoir				1E-05	
Mercury (elemental)	Legg Lake				1E-05	
Mercury (divalent)	Silver Lake Res.	4E-03		5E-07		4E-03
Mercury (divalent)	Garvey Reservoir	4E-03		5E-07		4E-03
Mercury (divalent)	Legg Lake	4E-03		5E-07		4E-03
Nickel	Silver Lake Res.	3E-09	8E-11	3E-09		6E-09
Nickel	Garvey Reservoir	3E-09	2E-09	3E-09		8E-09
Nickel	Legg Lake	3E-09	1E-08	3E-09		2E-08
Silver	Silver Lake Res.	3E-10	0E+00	4E-08		4E-08
Silver	Garvey Reservoir	3E-10	0E+00	4E-08		4E-08
Silver	Legg Lake	3E-10	0E+00	4E-08		4E-08
Thallium	Silver Lake Res.	1E-06	3E-07	1E-07		1E-06
Thallium	Garvey Reservoir	1E-06	2E-05	1E-07		2E-05
Thallium	Legg Lake	1E-06	1E-04	1E-07		1E-04
Antimony	Silver Lake Res.	1E-08	0E+00	4E-07		4E-07
Antimony	Garvey Reservoir	1E-08	0E+00	4E-07		4E-07
Antimony	Legg Lake	1E-08	0E+00	4E-07		4E-07
Arsenic	Silver Lake Res.	2E-07	2E-08	1E-07		4E-07
Arsenic	Garvey Reservoir	2E-07	4E-07	1E-07		8E-07
Arsenic	Legg Lake	2E-07	3E-06	1E-07		3E-06
Barium	Silver Lake Res.	6E-08	0E+00	3E-11	2E-05	6E-08
Barium	Garvey Reservoir	6E-08	0E+00	3E-11	2E-05	6E-08
Barium	Legg Lake	6E-08	0E+00	3E-11	2E-05	6E-08
Beryllium	Silver Lake Res.	6E-07	4E-10	6E-10		6E-07
Beryllium	Garvey Reservoir	6E-07	3E-07	6E-10		9E-07
Beryllium	Legg Lake	6E-07	2E-06	6E-10		2E-06

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Silver Lake Res.	9E-07	3E-07	1E-07		1E-06
Cadmium	Garvey Reservoir	9E-07	3E-05	1E-07		3E-05
Cadmium	Legg Lake	9E-07	2E-04	1E-07		2E-04
Chromium VI	Silver Lake Res.	1E-07	3E-09	2E-07		3E-07
Chromium VI	Garvey Reservoir	1E-07	7E-08	2E-07		4E-07
Chromium VI	Legg Lake	1E-07	5E-07	2E-07		8E-07
Chromium III	Silver Lake Res.	3E-08	2E-14	4E-14		3E-08
Chromium III	Garvey Reservoir	3E-08	3E-11	4E-14		3E-08
Chromium III	Legg Lake	3E-08	1E-10	4E-14		3E-08
Cobalt	Silver Lake Res.	3E-08	0E+00	4E-14		3E-08
Cobalt	Garvey Reservoir	3E-08	0E+00	4E-14		3E-08
Cobalt	Legg Lake	3E-08	0E+00	4E-14		3E-08
Hydrogen Chloride	Silver Lake Res.				2E-03	
Hydrogen Chloride	Garvey Reservoir				2E-03	
Hydrogen Chloride	Legg Lake				2E-03	
Selenium	Silver Lake Res.	2E-08	7E-06	2E-07		7E-06
Selenium	Garvey Reservoir	2E-08	7E-05	2E-07		7E-05
Selenium	Legg Lake	2E-08	5E-04	2E-07		5E-04
Chlorine	Silver Lake Res.				2E-02	
Chlorine	Garvey Reservoir				2E-02	
Chlorine	Legg Lake				2E-02	
Methylmercury - Developmental Effects	Silver Lake Res.	2E-04	5E-03	3E-08		5E-03
Methylmercury - Developmental Effects	Garvey Reservoir	2E-04	2E-02	3E-08		2E-02
Methylmercury - Developmental Effects	Legg Lake	2E-04	1E-01	3E-08		1E-01
Methylmercury - Neurological Effects	Silver Lake Res.	8E-05	2E-03	1E-08		2E-03
Methylmercury - Neurological Effects	Garvey Reservoir	8E-05	5E-03	1E-08		5E-03
Methylmercury - Neurological Effects	Legg Lake	8E-05	4E-02	1E-08		4E-02

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Silver Lake Res.	4E-10	5E-10	1E-13	2E-09	1E-09
2,3,7,8-TCDD-TEQ	Garvey Reservoir	4E-10	2E-08	1E-13	2E-09	2E-08
2,3,7,8-TCDD-TEQ	Legg Lake	4E-10	1E-07	1E-13	2E-09	1E-07
Nickel	Silver Lake Res.				4E-11	
Nickel	Garvey Reservoir				4E-11	
Nickel	Legg Lake				4E-11	
Arsenic	Silver Lake Res.	3E-12	8E-13	5E-12	6E-10	8E-12
Arsenic	Garvey Reservoir	3E-12	2E-11	5E-12	6E-10	3E-11
Arsenic	Legg Lake	3E-12	2E-10	5E-12	6E-10	2E-10
Beryllium	Silver Lake Res.				1E-09	
Beryllium	Garvey Reservoir				1E-09	
Beryllium	Legg Lake				1E-09	
Cadmium	Silver Lake Res.				1E-09	
Cadmium	Garvey Reservoir				1E-09	
Cadmium	Legg Lake				1E-09	
Chromium VI	Silver Lake Res.				2E-08	
Chromium VI	Garvey Reservoir				2E-08	
Chromium VI	Legg Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Silver Lake Res.	2E-08	0E+00	9E-09	2E-03	3E-08
Manganese	Garvey Reservoir	2E-08	0E+00	9E-09	2E-03	3E-08
Manganese	Legg Lake	2E-08	0E+00	9E-09	2E-03	3E-08
Mercury (elemental)	Silver Lake Res.				1E-05	
Mercury (elemental)	Garvey Reservoir				1E-05	
Mercury (elemental)	Legg Lake				1E-05	
Mercury (divalent)	Silver Lake Res.	1E-03		3E-07		1E-03
Mercury (divalent)	Garvey Reservoir	1E-03		3E-07		1E-03
Mercury (divalent)	Legg Lake	1E-03		3E-07		1E-03
Nickel	Silver Lake Res.	7E-10	8E-11	2E-09		3E-09
Nickel	Garvey Reservoir	7E-10	2E-09	2E-09		4E-09
Nickel	Legg Lake	7E-10	1E-08	2E-09		2E-08
Silver	Silver Lake Res.	7E-11	0E+00	2E-08		2E-08
Silver	Garvey Reservoir	7E-11	0E+00	2E-08		2E-08
Silver	Legg Lake	7E-11	0E+00	2E-08		2E-08
Thallium	Silver Lake Res.	3E-07	3E-07	8E-08		6E-07
Thallium	Garvey Reservoir	3E-07	2E-05	8E-08		2E-05
Thallium	Legg Lake	3E-07	1E-04	8E-08		1E-04
Antimony	Silver Lake Res.	3E-09	0E+00	2E-07		2E-07
Antimony	Garvey Reservoir	3E-09	0E+00	2E-07		2E-07
Antimony	Legg Lake	3E-09	0E+00	2E-07		2E-07
Arsenic	Silver Lake Res.	5E-08	2E-08	8E-08		2E-07
Arsenic	Garvey Reservoir	5E-08	4E-07	8E-08		6E-07
Arsenic	Legg Lake	5E-08	3E-06	8E-08		3E-06
Barium	Silver Lake Res.	2E-08	0E+00	2E-11	2E-05	2E-08
Barium	Garvey Reservoir	2E-08	0E+00	2E-11	2E-05	2E-08
Barium	Legg Lake	2E-08	0E+00	2E-11	2E-05	2E-08
Beryllium	Silver Lake Res.	2E-07	4E-10	4E-10		2E-07
Beryllium	Garvey Reservoir	2E-07	3E-07	4E-10		5E-07
Beryllium	Legg Lake	2E-07	2E-06	4E-10		2E-06

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Silver Lake Res.	2E-07	3E-07	7E-08		6E-07
Cadmium	Garvey Reservoir	2E-07	3E-05	7E-08		3E-05
Cadmium	Legg Lake	2E-07	2E-04	7E-08		2E-04
Chromium VI	Silver Lake Res.	3E-08	3E-09	1E-07		1E-07
Chromium VI	Garvey Reservoir	3E-08	7E-08	1E-07		2E-07
Chromium VI	Legg Lake	3E-08	5E-07	1E-07		6E-07
Chromium III	Silver Lake Res.	8E-09	2E-14	2E-14		8E-09
Chromium III	Garvey Reservoir	8E-09	3E-11	2E-14		8E-09
Chromium III	Legg Lake	8E-09	1E-10	2E-14		8E-09
Cobalt	Silver Lake Res.	7E-09	0E+00	2E-14		7E-09
Cobalt	Garvey Reservoir	7E-09	0E+00	2E-14		7E-09
Cobalt	Legg Lake	7E-09	0E+00	2E-14		7E-09
Hydrogen Chloride	Silver Lake Res.				2E-03	
Hydrogen Chloride	Garvey Reservoir				2E-03	
Hydrogen Chloride	Legg Lake				2E-03	
Selenium	Silver Lake Res.	4E-09	7E-06	1E-07		7E-06
Selenium	Garvey Reservoir	4E-09	7E-05	1E-07		7E-05
Selenium	Legg Lake	4E-09	5E-04	1E-07		5E-04
Chlorine	Silver Lake Res.				2E-02	
Chlorine	Garvey Reservoir				2E-02	
Chlorine	Legg Lake				2E-02	
Methylmercury - Developmental Effects	Silver Lake Res.	6E-05	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Garvey Reservoir	6E-05	2E-02	2E-08		2E-02
Methylmercury - Developmental Effects	Legg Lake	6E-05	1E-01	2E-08		1E-01
Methylmercury - Neurological Effects	Silver Lake Res.	2E-05	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Garvey Reservoir	2E-05	5E-03	6E-09		5E-03
Methylmercury - Neurological Effects	Legg Lake	2E-05	4E-02	6E-09		4E-02

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Silver Lake Res.	2E-10	4E-10	9E-14	1E-09	6E-10
2,3,7,8-TCDD-TEQ	Garvey Reservoir	2E-10	1E-08	9E-14	1E-09	1E-08
2,3,7,8-TCDD-TEQ	Legg Lake	2E-10	9E-08	9E-14	1E-09	9E-08
Nickel	Silver Lake Res.				2E-11	
Nickel	Garvey Reservoir				2E-11	
Nickel	Legg Lake				2E-11	
Arsenic	Silver Lake Res.	2E-12	6E-13	3E-12	4E-10	5E-12
Arsenic	Garvey Reservoir	2E-12	2E-11	3E-12	4E-10	2E-11
Arsenic	Legg Lake	2E-12	1E-10	3E-12	4E-10	1E-10
Beryllium	Silver Lake Res.				7E-10	
Beryllium	Garvey Reservoir				7E-10	
Beryllium	Legg Lake				7E-10	
Cadmium	Silver Lake Res.				7E-10	
Cadmium	Garvey Reservoir				7E-10	
Cadmium	Legg Lake				7E-10	
Chromium VI	Silver Lake Res.				2E-08	
Chromium VI	Garvey Reservoir				2E-08	
Chromium VI	Legg Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Silver Lake Res.	1E-08	0E+00	6E-09	2E-03	2E-08
Manganese	Garvey Reservoir	1E-08	0E+00	6E-09	2E-03	2E-08
Manganese	Legg Lake	1E-08	0E+00	6E-09	2E-03	2E-08
Mercury (elemental)	Silver Lake Res.				1E-05	
Mercury (elemental)	Garvey Reservoir				1E-05	
Mercury (elemental)	Legg Lake				1E-05	
Mercury (divalent)	Silver Lake Res.	5E-04		2E-07		5E-04
Mercury (divalent)	Garvey Reservoir	5E-04		2E-07		5E-04
Mercury (divalent)	Legg Lake	5E-04		2E-07		5E-04
Nickel	Silver Lake Res.	4E-10	6E-11	1E-09		2E-09
Nickel	Garvey Reservoir	4E-10	1E-09	1E-09		3E-09
Nickel	Legg Lake	4E-10	9E-09	1E-09		1E-08
Silver	Silver Lake Res.	4E-11	0E+00	1E-08		1E-08
Silver	Garvey Reservoir	4E-11	0E+00	1E-08		1E-08
Silver	Legg Lake	4E-11	0E+00	1E-08		1E-08
Thallium	Silver Lake Res.	1E-07	2E-07	5E-08		4E-07
Thallium	Garvey Reservoir	1E-07	1E-05	5E-08		1E-05
Thallium	Legg Lake	1E-07	9E-05	5E-08		9E-05
Antimony	Silver Lake Res.	1E-09	0E+00	1E-07		1E-07
Antimony	Garvey Reservoir	1E-09	0E+00	1E-07		1E-07
Antimony	Legg Lake	1E-09	0E+00	1E-07		1E-07
Arsenic	Silver Lake Res.	3E-08	1E-08	5E-08		9E-08
Arsenic	Garvey Reservoir	3E-08	3E-07	5E-08		4E-07
Arsenic	Legg Lake	3E-08	2E-06	5E-08		2E-06
Barium	Silver Lake Res.	8E-09	0E+00	1E-11	2E-05	8E-09
Barium	Garvey Reservoir	8E-09	0E+00	1E-11	2E-05	8E-09
Barium	Legg Lake	8E-09	0E+00	1E-11	2E-05	8E-09
Beryllium	Silver Lake Res.	8E-08	3E-10	2E-10		9E-08
Beryllium	Garvey Reservoir	8E-08	2E-07	2E-10		3E-07
Beryllium	Legg Lake	8E-08	1E-06	2E-10		1E-06

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Silver Lake Res.	1E-07	2E-07	4E-08		4E-07
Cadmium	Garvey Reservoir	1E-07	2E-05	4E-08		2E-05
Cadmium	Legg Lake	1E-07	1E-04	4E-08		1E-04
Chromium VI	Silver Lake Res.	2E-08	2E-09	7E-08		8E-08
Chromium VI	Garvey Reservoir	2E-08	5E-08	7E-08		1E-07
Chromium VI	Legg Lake	2E-08	3E-07	7E-08		4E-07
Chromium III	Silver Lake Res.	4E-09	2E-14	1E-14		4E-09
Chromium III	Garvey Reservoir	4E-09	2E-11	1E-14		4E-09
Chromium III	Legg Lake	4E-09	9E-11	1E-14		4E-09
Cobalt	Silver Lake Res.	3E-09	0E+00	3E-09		7E-09
Cobalt	Garvey Reservoir	3E-09	0E+00	3E-09		7E-09
Cobalt	Legg Lake	3E-09	0E+00	3E-09		7E-09
Hydrogen Chloride	Silver Lake Res.				2E-03	
Hydrogen Chloride	Garvey Reservoir				2E-03	
Hydrogen Chloride	Legg Lake				2E-03	
Selenium	Silver Lake Res.	2E-09	5E-06	6E-08		5E-06
Selenium	Garvey Reservoir	2E-09	5E-05	6E-08		5E-05
Selenium	Legg Lake	2E-09	3E-04	6E-08		3E-04
Chlorine	Silver Lake Res.				2E-02	
Chlorine	Garvey Reservoir				2E-02	
Chlorine	Legg Lake				2E-02	
Methylmercury - Developmental Effects	Silver Lake Res.	3E-05	3E-03	1E-08		3E-03
Methylmercury - Developmental Effects	Garvey Reservoir	3E-05	1E-02	1E-08		1E-02
Methylmercury - Developmental Effects	Legg Lake	3E-05	9E-02	1E-08		9E-02
Methylmercury - Neurological Effects	Silver Lake Res.	1E-05	1E-03	4E-09		1E-03
Methylmercury - Neurological Effects	Garvey Reservoir	1E-05	4E-03	4E-09		4E-03
Methylmercury - Neurological Effects	Legg Lake	1E-05	3E-02	4E-09		3E-02

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Silver Lake Res.	2E-10	7E-10	2E-13	2E-09	9E-10
2,3,7,8-TCDD-TEQ	Garvey Reservoir	2E-10	2E-08	2E-13	2E-09	2E-08
2,3,7,8-TCDD-TEQ	Legg Lake	2E-10	2E-07	2E-13	2E-09	2E-07
Nickel	Silver Lake Res.				4E-11	
Nickel	Garvey Reservoir				4E-11	
Nickel	Legg Lake				4E-11	
Arsenic	Silver Lake Res.	1E-12	1E-12	7E-12	5E-10	9E-12
Arsenic	Garvey Reservoir	1E-12	3E-11	7E-12	5E-10	4E-11
Arsenic	Legg Lake	1E-12	2E-10	7E-12	5E-10	2E-10
Beryllium	Silver Lake Res.				1E-09	
Beryllium	Garvey Reservoir				1E-09	
Beryllium	Legg Lake				1E-09	
Cadmium	Silver Lake Res.				1E-09	
Cadmium	Garvey Reservoir				1E-09	
Cadmium	Legg Lake				1E-09	
Chromium VI	Silver Lake Res.				2E-08	
Chromium VI	Garvey Reservoir				2E-08	
Chromium VI	Legg Lake				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Silver Lake Res.	5E-09	0E+00	7E-09	2E-03	1E-08
Manganese	Garvey Reservoir	5E-09	0E+00	7E-09	2E-03	1E-08
Manganese	Legg Lake	5E-09	0E+00	7E-09	2E-03	1E-08
Mercury (elemental)	Silver Lake Res.				1E-05	
Mercury (elemental)	Garvey Reservoir				1E-05	
Mercury (elemental)	Legg Lake				1E-05	
Mercury (divalent)	Silver Lake Res.	2E-04		2E-07		2E-04
Mercury (divalent)	Garvey Reservoir	2E-04		2E-07		2E-04
Mercury (divalent)	Legg Lake	2E-04		2E-07		2E-04
Nickel	Silver Lake Res.	2E-10	6E-11	1E-09		2E-09
Nickel	Garvey Reservoir	2E-10	1E-09	1E-09		3E-09
Nickel	Legg Lake	2E-10	9E-09	1E-09		1E-08
Silver	Silver Lake Res.	1E-11	0E+00	2E-08		2E-08
Silver	Garvey Reservoir	1E-11	0E+00	2E-08		2E-08
Silver	Legg Lake	1E-11	0E+00	2E-08		2E-08
Thallium	Silver Lake Res.	5E-08	2E-07	6E-08		3E-07
Thallium	Garvey Reservoir	5E-08	1E-05	6E-08		1E-05
Thallium	Legg Lake	5E-08	9E-05	6E-08		9E-05
Antimony	Silver Lake Res.	6E-10	0E+00	1E-07		1E-07
Antimony	Garvey Reservoir	6E-10	0E+00	1E-07		1E-07
Antimony	Legg Lake	6E-10	0E+00	1E-07		1E-07
Arsenic	Silver Lake Res.	1E-08	1E-08	6E-08		9E-08
Arsenic	Garvey Reservoir	1E-08	3E-07	6E-08		4E-07
Arsenic	Legg Lake	1E-08	2E-06	6E-08		2E-06
Barium	Silver Lake Res.	3E-09	0E+00	1E-11	2E-05	3E-09
Barium	Garvey Reservoir	3E-09	0E+00	1E-11	2E-05	3E-09
Barium	Legg Lake	3E-09	0E+00	1E-11	2E-05	3E-09
Beryllium	Silver Lake Res.	3E-08	3E-10	3E-10		4E-08
Beryllium	Garvey Reservoir	3E-08	2E-07	3E-10		3E-07
Beryllium	Legg Lake	3E-08	1E-06	3E-10		1E-06

Table IX-E12. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 704) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Silver Lake Res.	5E-08	2E-07	5E-08		3E-07
Cadmium	Garvey Reservoir	5E-08	2E-05	5E-08		2E-05
Cadmium	Legg Lake	5E-08	1E-04	5E-08		1E-04
Chromium VI	Silver Lake Res.	7E-09	2E-09	8E-08		9E-08
Chromium VI	Garvey Reservoir	7E-09	5E-08	8E-08		1E-07
Chromium VI	Legg Lake	7E-09	3E-07	8E-08		4E-07
Chromium III	Silver Lake Res.	2E-09	2E-14	2E-14		2E-09
Chromium III	Garvey Reservoir	2E-09	2E-11	2E-14		2E-09
Chromium III	Legg Lake	2E-09	9E-11	2E-14		2E-09
Cobalt	Silver Lake Res.	1E-09	0E+00	4E-09		5E-09
Cobalt	Garvey Reservoir	1E-09	0E+00	4E-09		5E-09
Cobalt	Legg Lake	1E-09	0E+00	4E-09		5E-09
Hydrogen Chloride	Silver Lake Res.				2E-03	
Hydrogen Chloride	Garvey Reservoir				2E-03	
Hydrogen Chloride	Legg Lake				2E-03	
Selenium	Silver Lake Res.	9E-10	5E-06	7E-08		5E-06
Selenium	Garvey Reservoir	9E-10	5E-05	7E-08		5E-05
Selenium	Legg Lake	9E-10	3E-04	7E-08		3E-04
Chlorine	Silver Lake Res.				2E-02	
Chlorine	Garvey Reservoir				2E-02	
Chlorine	Legg Lake				2E-02	
Methylmercury - Developmental Effects	Silver Lake Res.	1E-05	3E-03	1E-08		3E-03
Methylmercury - Developmental Effects	Garvey Reservoir	1E-05	1E-02	1E-08		1E-02
Methylmercury - Developmental Effects	Legg Lake	1E-05	9E-02	1E-08		9E-02
Methylmercury - Neurological Effects	Silver Lake Res.	5E-06	1E-03	5E-09		1E-03
Methylmercury - Neurological Effects	Garvey Reservoir	5E-06	4E-03	5E-09		4E-03
Methylmercury - Neurological Effects	Legg Lake	5E-06	3E-02	5E-09		3E-02

Table IX-E13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	1E-10	8E-11	2E-10	5E-08	5E-07	6E-09	4E-08	2E-08	2E-08		3E-10	6E-07
Nickel												1E-11	
Arsenic	1E-09	4E-10	2E-10	1E-09	3E-09	5E-09	2E-10			7E-09		1E-08	2E-08
Beryllium												3E-11	
Cadmium												2E-09	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-08	7E-08	4E-08	1E-07	2E-08	1E-06	2E-09			0E+00		2E-04	1E-06
Mercury (elemental)												6E-06	
Mercury (divalent)	NA	3E-05	2E-04	6E-05	8E-04	7E-03	3E-06						8E-03
Nickel	5E-09	3E-09	1E-09	6E-09	6E-08	6E-07	3E-09			1E-08			7E-07
Silver	6E-09	8E-08	2E-08	2E-07	1E-06	5E-04	5E-08			0E+00			5E-04
Thallium	5E-07	4E-08	2E-09	1E-07	1E-05	4E-05	1E-06			2E-05			7E-05
Antimony	6E-09	3E-08	6E-09	7E-08	1E-07	7E-07	5E-09			0E+00			9E-07
Arsenic	2E-05	1E-05	4E-06	3E-05	8E-05	1E-04	5E-06			2E-04			4E-04
Barium	1E-07	1E-08	3E-09	2E-08	6E-09	8E-07	9E-10			0E+00		2E-06	9E-07
Beryllium	3E-07	5E-09	9E-10	1E-08	5E-08	2E-09	2E-08			2E-08			5E-07
Cadmium	1E-05	1E-05	6E-06	2E-05	1E-06	4E-06	2E-07			7E-04			7E-04
Chromium VI	9E-08	3E-08	1E-08	8E-08	1E-06	2E-05	6E-08			2E-07			2E-05
Chromium III	1E-07	1E-09	9E-10	4E-09	1E-07	1E-06	3E-08			1E-11			1E-06
Cobalt	1E-08	3E-09	2E-11	8E-09	3E-07	2E-06	2E-08			0E+00			2E-06
Hydrogen Chloride												2E-04	
Selenium	5E-08	5E-08	3E-08	2E-07	1E-06	1E-04	4E-06			8E-04			9E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	9E-05	7E-06	2E-05	8E-06	6E-05	6E-04	2E-07			2E-02			2E-02
Methylmercury - Neurological Effects	3E-05	2E-06	7E-06	3E-06	2E-05	2E-04	7E-08			7E-03			7E-03

Table IX-E13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	7E-11	7E-11	3E-10	8E-08	3E-07	5E-09	4E-08	3E-08	2E-08		4E-10	5E-07
Nickel												1E-11	
Arsenic	3E-10	3E-10	1E-10	1E-09	5E-09	4E-09	2E-10			7E-09		1E-08	2E-08
Beryllium												4E-11	
Cadmium												2E-09	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	4E-08	2E-08	1E-07	3E-08	6E-07	1E-09			0E+00		2E-04	8E-07
Mercury (elemental)												6E-06	
Mercury (divalent)	NA	2E-05	1E-04	6E-05	1E-03	3E-03	2E-06						5E-03
Nickel	1E-09	1E-09	7E-10	6E-09	7E-08	3E-07	2E-09			8E-09			4E-07
Silver	1E-09	4E-08	1E-08	2E-07	2E-06	3E-04	3E-08			0E+00			3E-04
Thallium	1E-07	2E-08	2E-09	1E-07	2E-05	2E-05	8E-07			2E-05			5E-05
Antimony	2E-09	2E-08	4E-09	6E-08	1E-07	3E-07	3E-09			0E+00			6E-07
Arsenic	6E-06	6E-06	3E-06	2E-05	9E-05	7E-05	3E-06			1E-04			3E-04
Barium	3E-08	7E-09	2E-09	2E-08	7E-09	4E-07	5E-10			0E+00		2E-06	5E-07
Beryllium	9E-08	3E-09	6E-10	1E-08	6E-08	1E-09	1E-08			2E-08			2E-07
Cadmium	3E-06	7E-06	4E-06	2E-05	1E-06	2E-06	1E-07			5E-04			5E-04
Chromium VI	2E-08	2E-08	8E-09	8E-08	1E-06	9E-06	4E-08			1E-07			1E-05
Chromium III	3E-08	8E-10	6E-10	4E-09	1E-07	6E-07	2E-08			7E-12			8E-07
Cobalt	4E-09	2E-09	1E-11	8E-09	4E-07	9E-07	1E-08			0E+00			1E-06
Hydrogen Chloride												2E-04	
Selenium	1E-08	3E-08	2E-08	1E-07	1E-06	5E-05	2E-06			6E-04			6E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	2E-05	4E-06	2E-05	8E-06	7E-05	3E-04	1E-07			2E-02			2E-02
Methylmercury - Neurological Effects	8E-06	1E-06	5E-06	3E-06	2E-05	1E-04	4E-08			5E-03			5E-03

Table IX-E13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	6E-11	5E-11	2E-10	4E-08	2E-07	3E-09	2E-08	1E-08	1E-08		3E-10	2E-07
Nickel												9E-12	
Arsenic	2E-10	2E-10	1E-10	7E-10	2E-09	2E-09	1E-10			4E-09		9E-09	9E-09
Beryllium												2E-11	
Cadmium												1E-09	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-09	3E-08	2E-08	7E-08	1E-08	3E-07	7E-10			0E+00		2E-04	4E-07
Mercury (elemental)												6E-06	
Mercury (divalent)	2E-04	1E-05	8E-05	3E-05	5E-04	2E-03	1E-06			0E+00			2E-03
Nickel	7E-10	1E-09	5E-10	3E-09	3E-08	1E-07	1E-09			4E-09			2E-07
Silver	8E-10	3E-08	9E-09	1E-07	7E-07	1E-04	2E-08			0E+00			1E-04
Thallium	7E-08	2E-08	1E-09	6E-08	7E-06	8E-06	5E-07			8E-06			2E-05
Antimony	8E-10	1E-08	3E-09	3E-08	6E-08	2E-07	2E-09			0E+00			3E-07
Arsenic	3E-06	5E-06	2E-06	1E-05	4E-05	3E-05	2E-06			7E-05			2E-04
Barium	2E-08	5E-09	2E-09	1E-08	3E-09	2E-07	4E-10			0E+00		2E-06	2E-07
Beryllium	5E-08	2E-09	4E-10	6E-09	3E-08	5E-10	6E-09			8E-09			1E-07
Cadmium	2E-06	5E-06	3E-06	1E-05	6E-07	9E-07	8E-08			3E-04			3E-04
Chromium VI	1E-08	1E-08	5E-09	4E-08	6E-07	4E-06	2E-08			7E-08			5E-06
Chromium III	2E-08	6E-10	4E-10	2E-09	5E-08	3E-07	1E-08			4E-12			4E-07
Cobalt	2E-09	1E-09	9E-12	4E-09	2E-07	4E-07	9E-09			0E+00			6E-07
Hydrogen Chloride												2E-04	
Selenium	7E-09	2E-08	2E-08	8E-08	6E-07	2E-05	2E-06			3E-04			3E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	1E-05	3E-06	1E-05	4E-06	3E-05	1E-04	8E-08			8E-03			8E-03
Methylmercury - Neurological Effects	4E-06	9E-07	4E-06	1E-06	1E-05	4E-05	3E-08			3E-03			3E-03

Table IX-E13. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	1E-10	9E-11	3E-10	8E-08	1E-07	5E-09	4E-08	2E-08	3E-08		4E-10	3E-07
Nickel												1E-11	
Arsenic	1E-10	6E-10	2E-10	1E-09	5E-09	1E-09	2E-10			8E-09		1E-08	2E-08
Beryllium												3E-11	
Cadmium												2E-09	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	4E-08	2E-08	6E-08	1E-08	1E-07	6E-10			0E+00		2E-04	3E-07
Mercury (elemental)												6E-06	
Mercury (divalent)	8E-05	2E-05	9E-05	3E-05	5E-04	7E-04	1E-06			0E+00			1E-03
Nickel	3E-10	1E-09	6E-10	3E-09	4E-08	6E-08	1E-09			5E-09			1E-07
Silver	3E-10	4E-08	1E-08	1E-07	8E-07	5E-05	2E-08			0E+00			5E-05
Thallium	3E-08	2E-08	1E-09	6E-08	8E-06	4E-06	4E-07			9E-06			2E-05
Antimony	3E-10	2E-08	3E-09	3E-08	7E-08	7E-08	2E-09			0E+00			2E-07
Arsenic	1E-06	6E-06	2E-06	1E-05	5E-05	1E-05	2E-06			7E-05			2E-04
Barium	7E-09	7E-09	2E-09	1E-08	4E-09	8E-08	3E-10			0E+00		2E-06	1E-07
Beryllium	2E-08	3E-09	5E-10	6E-09	3E-08	2E-10	5E-09			9E-09			7E-08
Cadmium	6E-07	7E-06	3E-06	1E-05	7E-07	4E-07	7E-08			3E-04			3E-04
Chromium VI	5E-09	2E-08	6E-09	4E-08	7E-07	2E-06	2E-08			8E-08			3E-06
Chromium III	7E-09	8E-10	5E-10	2E-09	6E-08	1E-07	1E-08			4E-12			2E-07
Cobalt	8E-10	2E-09	1E-11	4E-09	2E-07	2E-07	8E-09			0E+00			4E-07
Hydrogen Chloride												2E-04	
Selenium	3E-09	3E-08	2E-08	7E-08	7E-07	1E-05	1E-06			3E-04			4E-04
Chlorine												4E-03	
Methylmercury - Developmental Effects	5E-06	4E-06	1E-05	4E-06	4E-05	6E-05	7E-08			9E-03			9E-03
Methylmercury - Neurological Effects	2E-06	1E-06	4E-06	1E-06	1E-05	2E-05	2E-08			3E-03			3E-03

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Grindle Creek	2E-09	1E-08	5E-13	3E-10	2E-08
2,3,7,8-TCDD-TEQ	Tranters Creek	2E-09	1E-09	5E-13	3E-10	3E-09
2,3,7,8-TCDD-TEQ	Parker Creek	2E-09	2E-07	5E-13	3E-10	2E-07
Nickel	Grindle Creek				1E-11	
Nickel	Tranters Creek				1E-11	
Nickel	Parker Creek				1E-11	
Arsenic	Grindle Creek	1E-09	6E-11	3E-11	1E-08	1E-09
Arsenic	Tranters Creek	1E-09	3E-12	3E-11	1E-08	1E-09
Arsenic	Parker Creek	1E-09	1E-09	3E-11	1E-08	2E-09
Beryllium	Grindle Creek				3E-11	
Beryllium	Tranters Creek				3E-11	
Beryllium	Parker Creek				3E-11	
Cadmium	Grindle Creek				2E-09	
Cadmium	Tranters Creek				2E-09	
Cadmium	Parker Creek				2E-09	
Chromium VI	Grindle Creek				3E-09	
Chromium VI	Tranters Creek				3E-09	
Chromium VI	Parker Creek				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Grindle Creek	6E-08	0E+00	8E-10	2E-04	6E-08
Manganese	Tranters Creek	6E-08	0E+00	8E-10	2E-04	6E-08
Manganese	Parker Creek	6E-08	0E+00	8E-10	2E-04	6E-08
Mercury (elemental)	Grindle Creek				6E-06	
Mercury (elemental)	Tranters Creek				6E-06	
Mercury (elemental)	Parker Creek				6E-06	
Mercury (divalent)	Grindle Creek	1E-03		2E-06		1E-03
Mercury (divalent)	Tranters Creek	1E-03		2E-06		1E-03
Mercury (divalent)	Parker Creek	1E-03		2E-06		1E-03
Nickel	Grindle Creek	5E-09	1E-10	2E-10		5E-09
Nickel	Tranters Creek	5E-09	5E-12	2E-10		5E-09
Nickel	Parker Creek	5E-09	2E-09	2E-10		7E-09
Silver	Grindle Creek	6E-09	0E+00	1E-08		2E-08
Silver	Tranters Creek	6E-09	0E+00	1E-08		2E-08
Silver	Parker Creek	6E-09	0E+00	1E-08		2E-08
Thallium	Grindle Creek	5E-07	3E-07	6E-09		8E-07
Thallium	Tranters Creek	5E-07	1E-08	6E-09		5E-07
Thallium	Parker Creek	5E-07	6E-06	6E-09		6E-06
Antimony	Grindle Creek	6E-09	0E+00	3E-09		8E-09
Antimony	Tranters Creek	6E-09	0E+00	3E-09		8E-09
Antimony	Parker Creek	6E-09	0E+00	3E-09		8E-09
Arsenic	Grindle Creek	2E-05	2E-06	8E-07		3E-05
Arsenic	Tranters Creek	2E-05	8E-08	8E-07		3E-05
Arsenic	Parker Creek	2E-05	4E-05	8E-07		6E-05
Barium	Grindle Creek	1E-07	0E+00	6E-11	2E-06	1E-07
Barium	Tranters Creek	1E-07	0E+00	6E-11	2E-06	1E-07
Barium	Parker Creek	1E-07	0E+00	6E-11	2E-06	1E-07
Beryllium	Grindle Creek	3E-07	2E-09	2E-10		3E-07
Beryllium	Tranters Creek	3E-07	1E-10	2E-10		3E-07
Beryllium	Parker Creek	3E-07	7E-08	2E-10		4E-07

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Grindle Creek	1E-05	1E-05	2E-07		2E-05
Cadmium	Tranters Creek	1E-05	5E-07	2E-07		1E-05
Cadmium	Parker Creek	1E-05	2E-04	2E-07		2E-04
Chromium VI	Grindle Creek	9E-08	2E-09	4E-09		1E-07
Chromium VI	Tranters Creek	9E-08	8E-11	4E-09		1E-07
Chromium VI	Parker Creek	9E-08	3E-08	4E-09		1E-07
Chromium III	Grindle Creek	1E-07	1E-11	8E-13		1E-07
Chromium III	Tranters Creek	1E-07	1E-12	8E-13		1E-07
Chromium III	Parker Creek	1E-07	2E-10	8E-13		1E-07
Cobalt	Grindle Creek	1E-08	0E+00	8E-13		1E-08
Cobalt	Tranters Creek	1E-08	0E+00	8E-13		1E-08
Cobalt	Parker Creek	1E-08	0E+00	8E-13		1E-08
Hydrogen Chloride	Grindle Creek				2E-04	
Hydrogen Chloride	Tranters Creek				2E-04	
Hydrogen Chloride	Parker Creek				2E-04	
Selenium	Grindle Creek	5E-08	6E-06	9E-09		6E-06
Selenium	Tranters Creek	5E-08	3E-07	9E-09		4E-07
Selenium	Parker Creek	5E-08	1E-04	9E-09		1E-04
Chlorine	Grindle Creek				4E-03	
Chlorine	Tranters Creek				4E-03	
Chlorine	Parker Creek				4E-03	
Methylmercury - Developmental Effects	Grindle Creek	9E-05	5E-02	5E-08		5E-02
Methylmercury - Developmental Effects	Tranters Creek	9E-05	8E-03	5E-08		8E-03
Methylmercury - Developmental Effects	Parker Creek	9E-05	5E-01	5E-08		5E-01
Methylmercury - Neurological Effects	Grindle Creek	3E-05	2E-02	2E-08		2E-02
Methylmercury - Neurological Effects	Tranters Creek	3E-05	3E-03	2E-08		3E-03
Methylmercury - Neurological Effects	Parker Creek	3E-05	2E-01	2E-08		2E-01

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Grindle Creek	7E-10	2E-08	3E-13	4E-10	2E-08
2,3,7,8-TCDD-TEQ	Tranters Creek	7E-10	1E-09	3E-13	4E-10	2E-09
2,3,7,8-TCDD-TEQ	Parker Creek	7E-10	3E-07	3E-13	4E-10	3E-07
Nickel	Grindle Creek				1E-11	
Nickel	Tranters Creek				1E-11	
Nickel	Parker Creek				1E-11	
Arsenic	Grindle Creek	3E-10	9E-11	2E-11	1E-08	5E-10
Arsenic	Tranters Creek	3E-10	4E-12	2E-11	1E-08	4E-10
Arsenic	Parker Creek	3E-10	2E-09	2E-11	1E-08	2E-09
Beryllium	Grindle Creek				4E-11	
Beryllium	Tranters Creek				4E-11	
Beryllium	Parker Creek				4E-11	
Cadmium	Grindle Creek				2E-09	
Cadmium	Tranters Creek				2E-09	
Cadmium	Parker Creek				2E-09	
Chromium VI	Grindle Creek				4E-09	
Chromium VI	Tranters Creek				4E-09	
Chromium VI	Parker Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Grindle Creek	1E-08	0E+00	4E-10	2E-04	1E-08
Manganese	Tranters Creek	1E-08	0E+00	4E-10	2E-04	1E-08
Manganese	Parker Creek	1E-08	0E+00	4E-10	2E-04	1E-08
Mercury (elemental)	Grindle Creek				6E-06	
Mercury (elemental)	Tranters Creek				6E-06	
Mercury (elemental)	Parker Creek				6E-06	
Mercury (divalent)	Grindle Creek	4E-04		1E-06		4E-04
Mercury (divalent)	Tranters Creek	4E-04		1E-06		4E-04
Mercury (divalent)	Parker Creek	4E-04		1E-06		4E-04
Nickel	Grindle Creek	1E-09	1E-10	1E-10		1E-09
Nickel	Tranters Creek	1E-09	5E-12	1E-10		1E-09
Nickel	Parker Creek	1E-09	2E-09	1E-10		4E-09
Silver	Grindle Creek	1E-09	0E+00	5E-09		7E-09
Silver	Tranters Creek	1E-09	0E+00	5E-09		7E-09
Silver	Parker Creek	1E-09	0E+00	5E-09		7E-09
Thallium	Grindle Creek	1E-07	3E-07	4E-09		4E-07
Thallium	Tranters Creek	1E-07	1E-08	4E-09		1E-07
Thallium	Parker Creek	1E-07	6E-06	4E-09		6E-06
Antimony	Grindle Creek	2E-09	0E+00	1E-09		3E-09
Antimony	Tranters Creek	2E-09	0E+00	1E-09		3E-09
Antimony	Parker Creek	2E-09	0E+00	1E-09		3E-09
Arsenic	Grindle Creek	6E-06	2E-06	4E-07		8E-06
Arsenic	Tranters Creek	6E-06	8E-08	4E-07		7E-06
Arsenic	Parker Creek	6E-06	4E-05	4E-07		4E-05
Barium	Grindle Creek	3E-08	0E+00	4E-11	2E-06	3E-08
Barium	Tranters Creek	3E-08	0E+00	4E-11	2E-06	3E-08
Barium	Parker Creek	3E-08	0E+00	4E-11	2E-06	3E-08
Beryllium	Grindle Creek	9E-08	2E-09	1E-10		9E-08
Beryllium	Tranters Creek	9E-08	1E-10	1E-10		9E-08
Beryllium	Parker Creek	9E-08	7E-08	1E-10		2E-07

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Grindle Creek	3E-06	1E-05	1E-07		1E-05
Cadmium	Tranters Creek	3E-06	5E-07	1E-07		4E-06
Cadmium	Parker Creek	3E-06	2E-04	1E-07		2E-04
Chromium VI	Grindle Creek	2E-08	2E-09	3E-09		3E-08
Chromium VI	Tranters Creek	2E-08	8E-11	3E-09		3E-08
Chromium VI	Parker Creek	2E-08	3E-08	3E-09		6E-08
Chromium III	Grindle Creek	3E-08	1E-11	4E-13		3E-08
Chromium III	Tranters Creek	3E-08	1E-12	4E-13		3E-08
Chromium III	Parker Creek	3E-08	2E-10	4E-13		3E-08
Cobalt	Grindle Creek	4E-09	0E+00	4E-13		4E-09
Cobalt	Tranters Creek	4E-09	0E+00	4E-13		4E-09
Cobalt	Parker Creek	4E-09	0E+00	4E-13		4E-09
Hydrogen Chloride	Grindle Creek				2E-04	
Hydrogen Chloride	Tranters Creek				2E-04	
Hydrogen Chloride	Parker Creek				2E-04	
Selenium	Grindle Creek	1E-08	6E-06	5E-09		6E-06
Selenium	Tranters Creek	1E-08	3E-07	5E-09		3E-07
Selenium	Parker Creek	1E-08	1E-04	5E-09		1E-04
Chlorine	Grindle Creek				4E-03	
Chlorine	Tranters Creek				4E-03	
Chlorine	Parker Creek				4E-03	
Methylmercury - Developmental Effects	Grindle Creek	2E-05	5E-02	3E-08		5E-02
Methylmercury - Developmental Effects	Tranters Creek	2E-05	8E-03	3E-08		8E-03
Methylmercury - Developmental Effects	Parker Creek	2E-05	5E-01	3E-08		5E-01
Methylmercury - Neurological Effects	Grindle Creek	8E-06	2E-02	1E-08		2E-02
Methylmercury - Neurological Effects	Tranters Creek	8E-06	3E-03	1E-08		3E-03
Methylmercury - Neurological Effects	Parker Creek	8E-06	2E-01	1E-08		2E-01

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Grindle Creek	4E-10	1E-08	2E-13	3E-10	1E-08
2,3,7,8-TCDD-TEQ	Tranters Creek	4E-10	1E-09	2E-13	3E-10	1E-09
2,3,7,8-TCDD-TEQ	Parker Creek	4E-10	2E-07	2E-13	3E-10	2E-07
Nickel	Grindle Creek				9E-12	
Nickel	Tranters Creek				9E-12	
Nickel	Parker Creek				9E-12	
Arsenic	Grindle Creek	2E-10	6E-11	2E-11	9E-09	3E-10
Arsenic	Tranters Creek	2E-10	3E-12	2E-11	9E-09	2E-10
Arsenic	Parker Creek	2E-10	1E-09	2E-11	9E-09	2E-09
Beryllium	Grindle Creek				2E-11	
Beryllium	Tranters Creek				2E-11	
Beryllium	Parker Creek				2E-11	
Cadmium	Grindle Creek				1E-09	
Cadmium	Tranters Creek				1E-09	
Cadmium	Parker Creek				1E-09	
Chromium VI	Grindle Creek				2E-09	
Chromium VI	Tranters Creek				2E-09	
Chromium VI	Parker Creek				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Grindle Creek	8E-09	0E+00	3E-10	2E-04	8E-09
Manganese	Tranters Creek	8E-09	0E+00	3E-10	2E-04	8E-09
Manganese	Parker Creek	8E-09	0E+00	3E-10	2E-04	8E-09
Mercury (elemental)	Grindle Creek				6E-06	
Mercury (elemental)	Tranters Creek				6E-06	
Mercury (elemental)	Parker Creek				6E-06	
Mercury (divalent)	Grindle Creek	2E-04		9E-07		2E-04
Mercury (divalent)	Tranters Creek	2E-04		9E-07		2E-04
Mercury (divalent)	Parker Creek	2E-04		9E-07		2E-04
Nickel	Grindle Creek	7E-10	7E-11	8E-11		8E-10
Nickel	Tranters Creek	7E-10	4E-12	8E-11		7E-10
Nickel	Parker Creek	7E-10	2E-09	8E-11		2E-09
Silver	Grindle Creek	8E-10	0E+00	3E-09		4E-09
Silver	Tranters Creek	8E-10	0E+00	3E-09		4E-09
Silver	Parker Creek	8E-10	0E+00	3E-09		4E-09
Thallium	Grindle Creek	7E-08	2E-07	2E-09		3E-07
Thallium	Tranters Creek	7E-08	9E-09	2E-09		8E-08
Thallium	Parker Creek	7E-08	4E-06	2E-09		4E-06
Antimony	Grindle Creek	8E-10	0E+00	9E-10		2E-09
Antimony	Tranters Creek	8E-10	0E+00	9E-10		2E-09
Antimony	Parker Creek	8E-10	0E+00	9E-10		2E-09
Arsenic	Grindle Creek	3E-06	1E-06	3E-07		5E-06
Arsenic	Tranters Creek	3E-06	6E-08	3E-07		4E-06
Arsenic	Parker Creek	3E-06	3E-05	3E-07		3E-05
Barium	Grindle Creek	2E-08	0E+00	2E-11	2E-06	2E-08
Barium	Tranters Creek	2E-08	0E+00	2E-11	2E-06	2E-08
Barium	Parker Creek	2E-08	0E+00	2E-11	2E-06	2E-08
Beryllium	Grindle Creek	5E-08	2E-09	8E-11		5E-08
Beryllium	Tranters Creek	5E-08	1E-10	8E-11		5E-08
Beryllium	Parker Creek	5E-08	5E-08	8E-11		9E-08

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Grindle Creek	2E-06	7E-06	6E-08		9E-06
Cadmium	Tranters Creek	2E-06	4E-07	6E-08		2E-06
Cadmium	Parker Creek	2E-06	2E-04	6E-08		2E-04
Chromium VI	Grindle Creek	1E-08	1E-09	2E-09		2E-08
Chromium VI	Tranters Creek	1E-08	6E-11	2E-09		1E-08
Chromium VI	Parker Creek	1E-08	2E-08	2E-09		4E-08
Chromium III	Grindle Creek	2E-08	9E-12	3E-13		2E-08
Chromium III	Tranters Creek	2E-08	8E-13	3E-13		2E-08
Chromium III	Parker Creek	2E-08	2E-10	3E-13		2E-08
Cobalt	Grindle Creek	2E-09	0E+00	1E-10		2E-09
Cobalt	Tranters Creek	2E-09	0E+00	1E-10		2E-09
Cobalt	Parker Creek	2E-09	0E+00	1E-10		2E-09
Hydrogen Chloride	Grindle Creek				2E-04	
Hydrogen Chloride	Tranters Creek				2E-04	
Hydrogen Chloride	Parker Creek				2E-04	
Selenium	Grindle Creek	7E-09	5E-06	3E-09		5E-06
Selenium	Tranters Creek	7E-09	2E-07	3E-09		2E-07
Selenium	Parker Creek	7E-09	1E-04	3E-09		1E-04
Chlorine	Grindle Creek				4E-03	
Chlorine	Tranters Creek				4E-03	
Chlorine	Parker Creek				4E-03	
Methylmercury - Developmental Effects	Grindle Creek	1E-05	4E-02	2E-08		4E-02
Methylmercury - Developmental Effects	Tranters Creek	1E-05	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Parker Creek	1E-05	3E-01	2E-08		3E-01
Methylmercury - Neurological Effects	Grindle Creek	4E-06	1E-02	6E-09		1E-02
Methylmercury - Neurological Effects	Tranters Creek	4E-06	2E-03	6E-09		2E-03
Methylmercury - Neurological Effects	Parker Creek	4E-06	1E-01	6E-09		1E-01

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Grindle Creek	3E-10	2E-08	5E-13	4E-10	2E-08
2,3,7,8-TCDD-TEQ	Tranters Creek	3E-10	2E-09	5E-13	4E-10	2E-09
2,3,7,8-TCDD-TEQ	Parker Creek	3E-10	4E-07	5E-13	4E-10	4E-07
Nickel	Grindle Creek				1E-11	
Nickel	Tranters Creek				1E-11	
Nickel	Parker Creek				1E-11	
Arsenic	Grindle Creek	1E-10	1E-10	4E-11	1E-08	3E-10
Arsenic	Tranters Creek	1E-10	6E-12	4E-11	1E-08	2E-10
Arsenic	Parker Creek	1E-10	3E-09	4E-11	1E-08	3E-09
Beryllium	Grindle Creek				3E-11	
Beryllium	Tranters Creek				3E-11	
Beryllium	Parker Creek				3E-11	
Cadmium	Grindle Creek				2E-09	
Cadmium	Tranters Creek				2E-09	
Cadmium	Parker Creek				2E-09	
Chromium VI	Grindle Creek				4E-09	
Chromium VI	Tranters Creek				4E-09	
Chromium VI	Parker Creek				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Grindle Creek	3E-09	0E+00	3E-10	2E-04	3E-09
Manganese	Tranters Creek	3E-09	0E+00	3E-10	2E-04	3E-09
Manganese	Parker Creek	3E-09	0E+00	3E-10	2E-04	3E-09
Mercury (elemental)	Grindle Creek				6E-06	
Mercury (elemental)	Tranters Creek				6E-06	
Mercury (elemental)	Parker Creek				6E-06	
Mercury (divalent)	Grindle Creek	8E-05		1E-06		8E-05
Mercury (divalent)	Tranters Creek	8E-05		1E-06		8E-05
Mercury (divalent)	Parker Creek	8E-05		1E-06		8E-05
Nickel	Grindle Creek	3E-10	7E-11	9E-11		4E-10
Nickel	Tranters Creek	3E-10	4E-12	9E-11		4E-10
Nickel	Parker Creek	3E-10	2E-09	9E-11		2E-09
Silver	Grindle Creek	3E-10	0E+00	4E-09		4E-09
Silver	Tranters Creek	3E-10	0E+00	4E-09		4E-09
Silver	Parker Creek	3E-10	0E+00	4E-09		4E-09
Thallium	Grindle Creek	3E-08	2E-07	3E-09		2E-07
Thallium	Tranters Creek	3E-08	9E-09	3E-09		4E-08
Thallium	Parker Creek	3E-08	4E-06	3E-09		4E-06
Antimony	Grindle Creek	3E-10	0E+00	1E-09		1E-09
Antimony	Tranters Creek	3E-10	0E+00	1E-09		1E-09
Antimony	Parker Creek	3E-10	0E+00	1E-09		1E-09
Arsenic	Grindle Creek	1E-06	1E-06	3E-07		3E-06
Arsenic	Tranters Creek	1E-06	6E-08	3E-07		2E-06
Arsenic	Parker Creek	1E-06	3E-05	3E-07		3E-05
Barium	Grindle Creek	7E-09	0E+00	3E-11	2E-06	7E-09
Barium	Tranters Creek	7E-09	0E+00	3E-11	2E-06	7E-09
Barium	Parker Creek	7E-09	0E+00	3E-11	2E-06	7E-09
Beryllium	Grindle Creek	2E-08	2E-09	9E-11		2E-08
Beryllium	Tranters Creek	2E-08	1E-10	9E-11		2E-08
Beryllium	Parker Creek	2E-08	5E-08	9E-11		7E-08

Table IX-E14. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 708) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Grindle Creek	6E-07	7E-06	8E-08		8E-06
Cadmium	Tranters Creek	6E-07	4E-07	8E-08		1E-06
Cadmium	Parker Creek	6E-07	2E-04	8E-08		2E-04
Chromium VI	Grindle Creek	5E-09	1E-09	2E-09		8E-09
Chromium VI	Tranters Creek	5E-09	6E-11	2E-09		7E-09
Chromium VI	Parker Creek	5E-09	2E-08	2E-09		3E-08
Chromium III	Grindle Creek	7E-09	9E-12	3E-13		7E-09
Chromium III	Tranters Creek	7E-09	8E-13	3E-13		7E-09
Chromium III	Parker Creek	7E-09	2E-10	3E-13		7E-09
Cobalt	Grindle Creek	8E-10	0E+00	1E-10		1E-09
Cobalt	Tranters Creek	8E-10	0E+00	1E-10		1E-09
Cobalt	Parker Creek	8E-10	0E+00	1E-10		1E-09
Hydrogen Chloride	Grindle Creek				2E-04	
Hydrogen Chloride	Tranters Creek				2E-04	
Hydrogen Chloride	Parker Creek				2E-04	
Selenium	Grindle Creek	3E-09	5E-06	4E-09		5E-06
Selenium	Tranters Creek	3E-09	2E-07	4E-09		2E-07
Selenium	Parker Creek	3E-09	1E-04	4E-09		1E-04
Chlorine	Grindle Creek				4E-03	
Chlorine	Tranters Creek				4E-03	
Chlorine	Parker Creek				4E-03	
Methylmercury - Developmental Effects	Grindle Creek	5E-06	4E-02	2E-08		4E-02
Methylmercury - Developmental Effects	Tranters Creek	5E-06	5E-03	2E-08		5E-03
Methylmercury - Developmental Effects	Parker Creek	5E-06	3E-01	2E-08		3E-01
Methylmercury - Neurological Effects	Grindle Creek	2E-06	1E-02	7E-09		1E-02
Methylmercury - Neurological Effects	Tranters Creek	2E-06	2E-03	7E-09		2E-03
Methylmercury - Neurological Effects	Parker Creek	2E-06	1E-01	7E-09		1E-01

Table IX-E15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	3E-11	3E-11	7E-11	1E-08	1E-07	2E-09	1E-08	7E-09	8E-09		7E-11	2E-07
Nickel												5E-11	
Arsenic	7E-12	3E-12	1E-12	7E-12	2E-11	4E-11	1E-12			4E-11		5E-11	1E-10
Beryllium												5E-13	
Cadmium												4E-11	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	2E-08	1E-08	4E-08	7E-09	4E-07	6E-10			0E+00		3E-05	5E-07
Mercury (elemental)												1E-08	
Mercury (divalent)	NA	4E-08	2E-08	8E-08	2E-07	3E-06	4E-10						3E-06
Nickel	4E-08	2E-08	8E-09	5E-08	5E-07	5E-06	3E-08			7E-08			5E-06
Silver	2E-10	2E-09	6E-10	7E-09	4E-08	2E-05	2E-09			0E+00			2E-05
Thallium	2E-07	1E-08	7E-10	4E-08	4E-06	1E-05	4E-07			6E-06			2E-05
Antimony	4E-08	2E-07	4E-08	4E-07	6E-07	4E-06	2E-08			0E+00			5E-06
Arsenic	2E-07	8E-08	3E-08	2E-07	5E-07	9E-07	3E-08			1E-06			3E-06
Barium	7E-08	7E-09	2E-09	1E-08	3E-09	4E-07	5E-10			0E+00		7E-07	5E-07
Beryllium	1E-08	2E-10	3E-11	4E-10	2E-09	7E-11	5E-10			1E-09			1E-08
Cadmium	4E-07	5E-07	2E-07	9E-07	4E-08	1E-07	7E-09			3E-05			3E-05
Chromium VI	1E-07	3E-08	1E-08	9E-08	1E-06	2E-05	7E-08			2E-07			2E-05
Chromium III	2E-08	3E-10	2E-10	7E-10	2E-08	2E-07	6E-09			3E-12			3E-07
Cobalt	5E-09	1E-09	6E-12	3E-09	9E-08	5E-07	7E-09			0E+00			6E-07
Hydrogen Chloride												1E-05	
Selenium	4E-10	4E-10	3E-10	1E-09	9E-09	8E-07	3E-08			5E-06			6E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	1E-08	1E-08	2E-09	1E-08	3E-08	4E-07	3E-11			1E-06			2E-06
Methylmercury - Neurological Effects	3E-09	4E-09	8E-10	4E-09	1E-08	1E-07	9E-12			4E-07			6E-07

Table IX-E15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	2E-11	3E-11	9E-11	2E-08	9E-08	1E-09	1E-08	8E-09	9E-09		8E-11	1E-07
Nickel												6E-11	
Arsenic	3E-12	2E-12	1E-12	9E-12	3E-11	2E-11	1E-12			4E-11		6E-11	1E-10
Beryllium												6E-13	
Cadmium												5E-11	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	5E-09	1E-08	8E-09	4E-08	9E-09	2E-07	3E-10			0E+00		3E-05	3E-07
Mercury (elemental)												1E-08	
Mercury (divalent)	NA	2E-08	1E-08	8E-08	2E-07	1E-06	2E-10						2E-06
Nickel	1E-08	1E-08	5E-09	4E-08	6E-07	2E-06	2E-08			5E-08			3E-06
Silver	5E-11	1E-09	4E-10	6E-09	5E-08	8E-06	9E-10			0E+00			8E-06
Thallium	4E-08	7E-09	5E-10	3E-08	5E-06	6E-06	2E-07			5E-06			2E-05
Antimony	9E-09	9E-08	2E-08	4E-07	7E-07	2E-06	1E-08			0E+00			3E-06
Arsenic	5E-08	4E-08	2E-08	2E-07	6E-07	4E-07	2E-08			8E-07			2E-06
Barium	2E-08	4E-09	1E-09	1E-08	4E-09	2E-07	3E-10			0E+00		7E-07	2E-07
Beryllium	3E-09	8E-11	2E-11	4E-10	2E-09	3E-11	3E-10			8E-10			6E-09
Cadmium	1E-07	3E-07	1E-07	8E-07	5E-08	7E-08	4E-09			2E-05			2E-05
Chromium VI	3E-08	2E-08	9E-09	9E-08	1E-06	1E-05	4E-08			1E-07			1E-05
Chromium III	6E-09	1E-10	1E-10	6E-10	2E-08	1E-07	3E-09			2E-12			1E-07
Cobalt	1E-09	6E-10	4E-12	2E-09	1E-07	3E-07	4E-09			0E+00			4E-07
Hydrogen Chloride												1E-05	
Selenium	1E-10	2E-10	2E-10	1E-09	1E-08	4E-07	2E-08			4E-06			4E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	3E-09	7E-09	2E-09	1E-08	4E-08	2E-07	2E-11			9E-07			1E-06
Methylmercury - Neurological Effects	8E-10	2E-09	6E-10	4E-09	1E-08	7E-08	5E-12			3E-07			4E-07

Table IX-E15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	2E-11	2E-11	5E-11	9E-09	4E-08	9E-10	8E-09	4E-09	5E-09		5E-11	7E-08
Nickel												4E-11	
Arsenic	1E-12	2E-12	8E-13	5E-12	2E-11	1E-11	7E-13			2E-11		4E-11	6E-11
Beryllium												4E-13	
Cadmium												3E-11	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	9E-09	6E-09	2E-08	4E-09	8E-08	2E-10			0E+00		3E-05	1E-07
Mercury (elemental)												1E-08	
Mercury (divalent)	2E-08	2E-08	9E-09	4E-08	1E-07	6E-07	2E-10			0E+00			8E-07
Nickel	5E-09	8E-09	4E-09	2E-08	3E-07	1E-06	1E-08			3E-08			1E-06
Silver	3E-11	1E-09	3E-10	3E-09	2E-08	4E-06	6E-10			0E+00			4E-06
Thallium	2E-08	5E-09	4E-10	2E-08	2E-06	3E-06	2E-07			2E-06			7E-06
Antimony	5E-09	7E-08	2E-08	2E-07	3E-07	8E-07	9E-09			0E+00			1E-06
Arsenic	3E-08	3E-08	2E-08	9E-08	3E-07	2E-07	1E-08			4E-07			1E-06
Barium	9E-09	3E-09	9E-10	7E-09	2E-09	1E-07	2E-10			0E+00		7E-07	1E-07
Beryllium	1E-09	7E-11	1E-11	2E-10	9E-10	2E-11	2E-10			4E-10			3E-09
Cadmium	6E-08	2E-07	1E-07	4E-07	2E-08	3E-08	3E-09			1E-05			1E-05
Chromium VI	1E-08	1E-08	6E-09	4E-08	6E-07	4E-06	3E-08			6E-08			5E-06
Chromium III	3E-09	1E-10	8E-11	3E-10	9E-09	5E-08	2E-09			1E-12			7E-08
Cobalt	7E-10	5E-10	3E-12	1E-09	5E-08	1E-07	3E-09			0E+00			2E-07
Hydrogen Chloride												1E-05	
Selenium	6E-11	2E-10	1E-10	6E-10	5E-09	2E-07	1E-08			2E-06			2E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	1E-09	5E-09	1E-09	6E-09	2E-08	1E-07	1E-11			5E-07			6E-07
Methylmercury - Neurological Effects	4E-10	2E-09	4E-10	2E-09	6E-09	3E-08	3E-12			2E-07			2E-07

Table IX-E15. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-11	4E-11	3E-11	8E-11	2E-08	3E-08	1E-09	1E-08	7E-09	1E-08		7E-11	9E-08
Nickel												6E-11	
Arsenic	1E-12	4E-12	2E-12	8E-12	3E-11	1E-11	1E-12			5E-11		6E-11	1E-10
Beryllium												6E-13	
Cadmium												4E-11	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	1E-08	6E-09	2E-08	4E-09	4E-08	2E-10			0E+00		3E-05	8E-08
Mercury (elemental)												1E-08	
Mercury (divalent)	9E-09	2E-08	1E-08	4E-08	1E-07	3E-07	1E-10			0E+00			5E-07
Nickel	2E-09	1E-08	4E-09	2E-08	3E-07	5E-07	9E-09			3E-08			8E-07
Silver	1E-11	1E-09	3E-10	3E-09	3E-08	2E-06	5E-10			0E+00			2E-06
Thallium	9E-09	7E-09	4E-10	2E-08	2E-06	1E-06	1E-07			3E-06			6E-06
Antimony	2E-09	9E-08	2E-08	2E-07	4E-07	4E-07	8E-09			0E+00			1E-06
Arsenic	1E-08	5E-08	2E-08	9E-08	3E-07	9E-08	1E-08			5E-07			1E-06
Barium	4E-09	4E-09	1E-09	6E-09	2E-09	4E-08	2E-10			0E+00		7E-07	6E-08
Beryllium	6E-10	9E-11	2E-11	2E-10	1E-09	7E-12	2E-10			5E-10			3E-09
Cadmium	2E-08	3E-07	1E-07	4E-07	3E-08	1E-08	2E-09			1E-05			1E-05
Chromium VI	6E-09	2E-08	7E-09	4E-08	7E-07	2E-06	2E-08			7E-08			3E-06
Chromium III	1E-09	1E-10	9E-11	3E-10	1E-08	2E-08	2E-09			1E-12			4E-08
Cobalt	3E-10	6E-10	3E-12	1E-09	6E-08	5E-08	3E-09			0E+00			1E-07
Hydrogen Chloride												1E-05	
Selenium	2E-11	2E-10	2E-10	6E-10	5E-09	8E-08	1E-08			2E-06			2E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	5E-10	7E-09	1E-09	6E-09	2E-08	4E-08	9E-12			5E-07			6E-07
Methylmercury - Neurological Effects	2E-10	2E-09	5E-10	2E-09	6E-09	1E-08	3E-12			2E-07			2E-07

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Passaic River	7E-10	1E-09	1E-11	7E-11	2E-09
2,3,7,8-TCDD-TEQ	Silver Lake Reservoir	7E-10	2E-08	1E-11	7E-11	2E-08
2,3,7,8-TCDD-TEQ	Reservoir No. 2	7E-10	3E-09	1E-11	7E-11	4E-09
2,3,7,8-TCDD-TEQ	Rahway River	7E-10	3E-09	1E-11	7E-11	4E-09
Nickel	Passaic River				5E-11	
Nickel	Silver Lake Reservoir				5E-11	
Nickel	Reservoir No. 2				5E-11	
Nickel	Rahway River				5E-11	
Arsenic	Passaic River	7E-12	4E-14	8E-10	5E-11	8E-10
Arsenic	Silver Lake Reservoir	7E-12	8E-11	8E-10	5E-11	9E-10
Arsenic	Reservoir No. 2	7E-12	1E-11	8E-10	5E-11	8E-10
Arsenic	Rahway River	7E-12	2E-13	8E-10	5E-11	8E-10
Beryllium	Passaic River				5E-13	
Beryllium	Silver Lake Reservoir				5E-13	
Beryllium	Reservoir No. 2				5E-13	
Beryllium	Rahway River				5E-13	
Cadmium	Passaic River				4E-11	
Cadmium	Silver Lake Reservoir				4E-11	
Cadmium	Reservoir No. 2				4E-11	
Cadmium	Rahway River				4E-11	
Chromium VI	Passaic River				2E-09	
Chromium VI	Silver Lake Reservoir				2E-09	
Chromium VI	Reservoir No. 2				2E-09	
Chromium VI	Rahway River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Passaic River	2E-08	0E+00	8E-07	3E-05	9E-07
Manganese	Silver Lake Reservoir	2E-08	0E+00	8E-07	3E-05	9E-07
Manganese	Reservoir No. 2	2E-08	0E+00	8E-07	3E-05	9E-07
Manganese	Rahway River	2E-08	0E+00	8E-07	3E-05	9E-07
Mercury (elemental)	Passaic River				1E-08	
Mercury (elemental)	Silver Lake Reservoir				1E-08	
Mercury (elemental)	Reservoir No. 2				1E-08	
Mercury (elemental)	Rahway River				1E-08	
Mercury (divalent)	Passaic River	2E-07		9E-10		2E-07
Mercury (divalent)	Silver Lake Reservoir	2E-07		9E-10		2E-07
Mercury (divalent)	Reservoir No. 2	2E-07		9E-10		2E-07
Mercury (divalent)	Rahway River	2E-07		9E-10		2E-07
Nickel	Passaic River	4E-08	7E-11	6E-06		6E-06
Nickel	Silver Lake Reservoir	4E-08	1E-07	6E-06		6E-06
Nickel	Reservoir No. 2	4E-08	2E-08	6E-06		6E-06
Nickel	Rahway River	4E-08	3E-10	6E-06		6E-06
Silver	Passaic River	2E-10	0E+00	1E-06		1E-06
Silver	Silver Lake Reservoir	2E-10	0E+00	1E-06		1E-06
Silver	Reservoir No. 2	2E-10	0E+00	1E-06		1E-06
Silver	Rahway River	2E-10	0E+00	1E-06		1E-06
Thallium	Passaic River	2E-07	7E-09	7E-06		7E-06
Thallium	Silver Lake Reservoir	2E-07	1E-05	7E-06		2E-05
Thallium	Reservoir No. 2	2E-07	2E-06	7E-06		8E-06
Thallium	Rahway River	2E-07	3E-08	7E-06		7E-06

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Passaic River	4E-08	0E+00	5E-05		5E-05
Antimony	Silver Lake Reservoir	4E-08	0E+00	5E-05		5E-05
Antimony	Reservoir No. 2	4E-08	0E+00	5E-05		5E-05
Antimony	Rahway River	4E-08	0E+00	5E-05		5E-05
Arsenic	Passaic River	2E-07	1E-09	2E-05		2E-05
Arsenic	Silver Lake Reservoir	2E-07	2E-06	2E-05		2E-05
Arsenic	Reservoir No. 2	2E-07	2E-07	2E-05		2E-05
Arsenic	Rahway River	2E-07	5E-09	2E-05		2E-05
Barium	Passaic River	7E-08	0E+00	1E-07	7E-07	2E-07
Barium	Silver Lake Reservoir	7E-08	0E+00	1E-07	7E-07	2E-07
Barium	Reservoir No. 2	7E-08	0E+00	1E-07	7E-07	2E-07
Barium	Rahway River	7E-08	0E+00	1E-07	7E-07	2E-07
Beryllium	Passaic River	1E-08	2E-11	3E-08		4E-08
Beryllium	Silver Lake Reservoir	1E-08	2E-08	3E-08		6E-08
Beryllium	Reservoir No. 2	1E-08	1E-09	3E-08		4E-08
Beryllium	Rahway River	1E-08	8E-11	3E-08		4E-08
Cadmium	Passaic River	4E-07	3E-08	2E-05		2E-05
Cadmium	Silver Lake Reservoir	4E-07	6E-05	2E-05		8E-05
Cadmium	Reservoir No. 2	4E-07	7E-06	2E-05		3E-05
Cadmium	Rahway River	4E-07	2E-07	2E-05		2E-05
Chromium VI	Passaic River	1E-07	2E-10	2E-05		2E-05
Chromium VI	Silver Lake Reservoir	1E-07	3E-07	2E-05		2E-05
Chromium VI	Reservoir No. 2	1E-07	3E-08	2E-05		2E-05
Chromium VI	Rahway River	1E-07	7E-10	2E-05		2E-05
Chromium III	Passaic River	2E-08	1E-12	2E-10		2E-08
Chromium III	Silver Lake Reservoir	2E-08	7E-11	2E-10		2E-08
Chromium III	Reservoir No. 2	2E-08	3E-12	2E-10		2E-08
Chromium III	Rahway River	2E-08	5E-12	2E-10		2E-08
Cobalt	Passaic River	5E-09	0E+00	2E-10		5E-09
Cobalt	Silver Lake Reservoir	5E-09	0E+00	2E-10		5E-09
Cobalt	Reservoir No. 2	5E-09	0E+00	2E-10		5E-09
Cobalt	Rahway River	5E-09	0E+00	2E-10		5E-09
Hydrogen Chloride	Passaic River				1E-05	
Hydrogen Chloride	Silver Lake Reservoir				1E-05	
Hydrogen Chloride	Reservoir No. 2				1E-05	
Hydrogen Chloride	Rahway River				1E-05	
Selenium	Passaic River	4E-10	5E-09	2E-07		3E-07
Selenium	Silver Lake Reservoir	4E-10	9E-06	2E-07		1E-05
Selenium	Reservoir No. 2	4E-10	1E-06	2E-07		1E-06
Selenium	Rahway River	4E-10	2E-08	2E-07		3E-07
Chlorine	Passaic River				6E-03	
Chlorine	Silver Lake Reservoir				6E-03	
Chlorine	Reservoir No. 2				6E-03	
Chlorine	Rahway River				6E-03	
Methylmercury - Developmental Effects	Passaic River	1E-08	6E-08	8E-11		7E-08
Methylmercury - Developmental Effects	Silver Lake Reservoir	1E-08	1E-05	8E-11		1E-05
Methylmercury - Developmental Effects	Reservoir No. 2	1E-08	1E-06	8E-11		1E-06
Methylmercury - Developmental Effects	Rahway River	1E-08	3E-08	8E-11		4E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Passaic River	3E-09	2E-08	3E-11		2E-08
Methylmercury - Neurological Effects	Silver Lake Reservoir	3E-09	4E-06	3E-11		4E-06
Methylmercury - Neurological Effects	Reservoir No. 2	3E-09	5E-07	3E-11		5E-07
Methylmercury - Neurological Effects	Rahway River	3E-09	1E-08	3E-11		1E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Passaic River	2E-10	2E-09	8E-12	8E-11	2E-09
2,3,7,8-TCDD-TEQ	Silver Lake Reservoir	2E-10	3E-08	8E-12	8E-11	3E-08
2,3,7,8-TCDD-TEQ	Reservoir No. 2	2E-10	4E-09	8E-12	8E-11	4E-09
2,3,7,8-TCDD-TEQ	Rahway River	2E-10	4E-09	8E-12	8E-11	5E-09
Nickel	Passaic River				6E-11	
Nickel	Silver Lake Reservoir				6E-11	
Nickel	Reservoir No. 2				6E-11	
Nickel	Rahway River				6E-11	
Arsenic	Passaic River	3E-12	6E-14	6E-10	6E-11	6E-10
Arsenic	Silver Lake Reservoir	3E-12	1E-10	6E-10	6E-11	7E-10
Arsenic	Reservoir No. 2	3E-12	1E-11	6E-10	6E-11	6E-10
Arsenic	Rahway River	3E-12	3E-13	6E-10	6E-11	6E-10
Beryllium	Passaic River				6E-13	
Beryllium	Silver Lake Reservoir				6E-13	
Beryllium	Reservoir No. 2				6E-13	
Beryllium	Rahway River				6E-13	
Cadmium	Passaic River				5E-11	
Cadmium	Silver Lake Reservoir				5E-11	
Cadmium	Reservoir No. 2				5E-11	
Cadmium	Rahway River				5E-11	
Chromium VI	Passaic River				2E-09	
Chromium VI	Silver Lake Reservoir				2E-09	
Chromium VI	Reservoir No. 2				2E-09	
Chromium VI	Rahway River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Passaic River	5E-09	0E+00	5E-07	3E-05	5E-07
Manganese	Silver Lake Reservoir	5E-09	0E+00	5E-07	3E-05	5E-07
Manganese	Reservoir No. 2	5E-09	0E+00	5E-07	3E-05	5E-07
Manganese	Rahway River	5E-09	0E+00	5E-07	3E-05	5E-07
Mercury (elemental)	Passaic River				1E-08	
Mercury (elemental)	Silver Lake Reservoir				1E-08	
Mercury (elemental)	Reservoir No. 2				1E-08	
Mercury (elemental)	Rahway River				1E-08	
Mercury (divalent)	Passaic River	4E-08		5E-10		4E-08
Mercury (divalent)	Silver Lake Reservoir	4E-08		5E-10		4E-08
Mercury (divalent)	Reservoir No. 2	4E-08		5E-10		4E-08
Mercury (divalent)	Rahway River	4E-08		5E-10		4E-08
Nickel	Passaic River	1E-08	7E-11	3E-06		3E-06
Nickel	Silver Lake Reservoir	1E-08	1E-07	3E-06		3E-06
Nickel	Reservoir No. 2	1E-08	2E-08	3E-06		3E-06
Nickel	Rahway River	1E-08	3E-10	3E-06		3E-06
Silver	Passaic River	5E-11	0E+00	6E-07		6E-07
Silver	Silver Lake Reservoir	5E-11	0E+00	6E-07		6E-07
Silver	Reservoir No. 2	5E-11	0E+00	6E-07		6E-07
Silver	Rahway River	5E-11	0E+00	6E-07		6E-07
Thallium	Passaic River	4E-08	7E-09	4E-06		4E-06
Thallium	Silver Lake Reservoir	4E-08	1E-05	4E-06		2E-05
Thallium	Reservoir No. 2	4E-08	2E-06	4E-06		5E-06
Thallium	Rahway River	4E-08	3E-08	4E-06		4E-06

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Passaic River	9E-09	0E+00	3E-05		3E-05
Antimony	Silver Lake Reservoir	9E-09	0E+00	3E-05		3E-05
Antimony	Reservoir No. 2	9E-09	0E+00	3E-05		3E-05
Antimony	Rahway River	9E-09	0E+00	3E-05		3E-05
Arsenic	Passaic River	5E-08	1E-09	1E-05		1E-05
Arsenic	Silver Lake Reservoir	5E-08	2E-06	1E-05		1E-05
Arsenic	Reservoir No. 2	5E-08	2E-07	1E-05		1E-05
Arsenic	Rahway River	5E-08	5E-09	1E-05		1E-05
Barium	Passaic River	2E-08	0E+00	8E-08	7E-07	1E-07
Barium	Silver Lake Reservoir	2E-08	0E+00	8E-08	7E-07	1E-07
Barium	Reservoir No. 2	2E-08	0E+00	8E-08	7E-07	1E-07
Barium	Rahway River	2E-08	0E+00	8E-08	7E-07	1E-07
Beryllium	Passaic River	3E-09	2E-11	2E-08		2E-08
Beryllium	Silver Lake Reservoir	3E-09	2E-08	2E-08		4E-08
Beryllium	Reservoir No. 2	3E-09	1E-09	2E-08		2E-08
Beryllium	Rahway River	3E-09	8E-11	2E-08		2E-08
Cadmium	Passaic River	1E-07	3E-08	1E-05		1E-05
Cadmium	Silver Lake Reservoir	1E-07	6E-05	1E-05		7E-05
Cadmium	Reservoir No. 2	1E-07	7E-06	1E-05		2E-05
Cadmium	Rahway River	1E-07	2E-07	1E-05		1E-05
Chromium VI	Passaic River	3E-08	2E-10	9E-06		9E-06
Chromium VI	Silver Lake Reservoir	3E-08	3E-07	9E-06		1E-05
Chromium VI	Reservoir No. 2	3E-08	3E-08	9E-06		9E-06
Chromium VI	Rahway River	3E-08	7E-10	9E-06		9E-06
Chromium III	Passaic River	6E-09	1E-12	1E-10		6E-09
Chromium III	Silver Lake Reservoir	6E-09	7E-11	1E-10		6E-09
Chromium III	Reservoir No. 2	6E-09	3E-12	1E-10		6E-09
Chromium III	Rahway River	6E-09	5E-12	1E-10		6E-09
Cobalt	Passaic River	1E-09	0E+00	1E-10		1E-09
Cobalt	Silver Lake Reservoir	1E-09	0E+00	1E-10		1E-09
Cobalt	Reservoir No. 2	1E-09	0E+00	1E-10		1E-09
Cobalt	Rahway River	1E-09	0E+00	1E-10		1E-09
Hydrogen Chloride	Passaic River				1E-05	
Hydrogen Chloride	Silver Lake Reservoir				1E-05	
Hydrogen Chloride	Reservoir No. 2				1E-05	
Hydrogen Chloride	Rahway River				1E-05	
Selenium	Passaic River	1E-10	5E-09	1E-07		1E-07
Selenium	Silver Lake Reservoir	1E-10	9E-06	1E-07		1E-05
Selenium	Reservoir No. 2	1E-10	1E-06	1E-07		1E-06
Selenium	Rahway River	1E-10	2E-08	1E-07		2E-07
Chlorine	Passaic River				6E-03	
Chlorine	Silver Lake Reservoir				6E-03	
Chlorine	Reservoir No. 2				6E-03	
Chlorine	Rahway River				6E-03	
Methylmercury - Developmental Effects	Passaic River	3E-09	6E-08	5E-11		6E-08
Methylmercury - Developmental Effects	Silver Lake Reservoir	3E-09	1E-05	5E-11		1E-05
Methylmercury - Developmental Effects	Reservoir No. 2	3E-09	1E-06	5E-11		1E-06
Methylmercury - Developmental Effects	Rahway River	3E-09	3E-08	5E-11		4E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Passaic River	8E-10	2E-08	2E-11		2E-08
Methylmercury - Neurological Effects	Silver Lake Reservoir	8E-10	4E-06	2E-11		4E-06
Methylmercury - Neurological Effects	Reservoir No. 2	8E-10	5E-07	2E-11		5E-07
Methylmercury - Neurological Effects	Rahway River	8E-10	1E-08	2E-11		1E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Passaic River	1E-10	1E-09	5E-12	5E-11	1E-09
2,3,7,8-TCDD-TEQ	Silver Lake Reservoir	1E-10	2E-08	5E-12	5E-11	2E-08
2,3,7,8-TCDD-TEQ	Reservoir No. 2	1E-10	3E-09	5E-12	5E-11	3E-09
2,3,7,8-TCDD-TEQ	Rahway River	1E-10	3E-09	5E-12	5E-11	3E-09
Nickel	Passaic River				4E-11	
Nickel	Silver Lake Reservoir				4E-11	
Nickel	Reservoir No. 2				4E-11	
Nickel	Rahway River				4E-11	
Arsenic	Passaic River	1E-12	4E-14	4E-10	4E-11	4E-10
Arsenic	Silver Lake Reservoir	1E-12	8E-11	4E-10	4E-11	5E-10
Arsenic	Reservoir No. 2	1E-12	1E-11	4E-10	4E-11	4E-10
Arsenic	Rahway River	1E-12	2E-13	4E-10	4E-11	4E-10
Beryllium	Passaic River				4E-13	
Beryllium	Silver Lake Reservoir				4E-13	
Beryllium	Reservoir No. 2				4E-13	
Beryllium	Rahway River				4E-13	
Cadmium	Passaic River				3E-11	
Cadmium	Silver Lake Reservoir				3E-11	
Cadmium	Reservoir No. 2				3E-11	
Cadmium	Rahway River				3E-11	
Chromium VI	Passaic River				1E-09	
Chromium VI	Silver Lake Reservoir				1E-09	
Chromium VI	Reservoir No. 2				1E-09	
Chromium VI	Rahway River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Passaic River	2E-09	0E+00	3E-07	3E-05	3E-07
Manganese	Silver Lake Reservoir	2E-09	0E+00	3E-07	3E-05	3E-07
Manganese	Reservoir No. 2	2E-09	0E+00	3E-07	3E-05	3E-07
Manganese	Rahway River	2E-09	0E+00	3E-07	3E-05	3E-07
Mercury (elemental)	Passaic River				1E-08	
Mercury (elemental)	Silver Lake Reservoir				1E-08	
Mercury (elemental)	Reservoir No. 2				1E-08	
Mercury (elemental)	Rahway River				1E-08	
Mercury (divalent)	Passaic River	2E-08		3E-10		2E-08
Mercury (divalent)	Silver Lake Reservoir	2E-08		3E-10		2E-08
Mercury (divalent)	Reservoir No. 2	2E-08		3E-10		2E-08
Mercury (divalent)	Rahway River	2E-08		3E-10		2E-08
Nickel	Passaic River	5E-09	5E-11	2E-06		2E-06
Nickel	Silver Lake Reservoir	5E-09	1E-07	2E-06		2E-06
Nickel	Reservoir No. 2	5E-09	1E-08	2E-06		2E-06
Nickel	Rahway River	5E-09	2E-10	2E-06		2E-06
Silver	Passaic River	3E-11	0E+00	4E-07		4E-07
Silver	Silver Lake Reservoir	3E-11	0E+00	4E-07		4E-07
Silver	Reservoir No. 2	3E-11	0E+00	4E-07		4E-07
Silver	Rahway River	3E-11	0E+00	4E-07		4E-07
Thallium	Passaic River	2E-08	5E-09	2E-06		2E-06
Thallium	Silver Lake Reservoir	2E-08	1E-05	2E-06		1E-05
Thallium	Reservoir No. 2	2E-08	1E-06	2E-06		4E-06
Thallium	Rahway River	2E-08	2E-08	2E-06		2E-06

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Passaic River	5E-09	0E+00	2E-05		2E-05
Antimony	Silver Lake Reservoir	5E-09	0E+00	2E-05		2E-05
Antimony	Reservoir No. 2	5E-09	0E+00	2E-05		2E-05
Antimony	Rahway River	5E-09	0E+00	2E-05		2E-05
Arsenic	Passaic River	3E-08	8E-10	7E-06		7E-06
Arsenic	Silver Lake Reservoir	3E-08	1E-06	7E-06		9E-06
Arsenic	Reservoir No. 2	3E-08	2E-07	7E-06		7E-06
Arsenic	Rahway River	3E-08	4E-09	7E-06		7E-06
Barium	Passaic River	9E-09	0E+00	5E-08	7E-07	6E-08
Barium	Silver Lake Reservoir	9E-09	0E+00	5E-08	7E-07	6E-08
Barium	Reservoir No. 2	9E-09	0E+00	5E-08	7E-07	6E-08
Barium	Rahway River	9E-09	0E+00	5E-08	7E-07	6E-08
Beryllium	Passaic River	1E-09	1E-11	1E-08		1E-08
Beryllium	Silver Lake Reservoir	1E-09	1E-08	1E-08		3E-08
Beryllium	Reservoir No. 2	1E-09	9E-10	1E-08		1E-08
Beryllium	Rahway River	1E-09	6E-11	1E-08		1E-08
Cadmium	Passaic River	6E-08	2E-08	8E-06		8E-06
Cadmium	Silver Lake Reservoir	6E-08	4E-05	8E-06		5E-05
Cadmium	Reservoir No. 2	6E-08	5E-06	8E-06		1E-05
Cadmium	Rahway River	6E-08	1E-07	8E-06		8E-06
Chromium VI	Passaic River	1E-08	1E-10	6E-06		6E-06
Chromium VI	Silver Lake Reservoir	1E-08	2E-07	6E-06		6E-06
Chromium VI	Reservoir No. 2	1E-08	2E-08	6E-06		6E-06
Chromium VI	Rahway River	1E-08	5E-10	6E-06		6E-06
Chromium III	Passaic River	3E-09	7E-13	7E-11		3E-09
Chromium III	Silver Lake Reservoir	3E-09	5E-11	7E-11		3E-09
Chromium III	Reservoir No. 2	3E-09	2E-12	7E-11		3E-09
Chromium III	Rahway River	3E-09	3E-12	7E-11		3E-09
Cobalt	Passaic River	7E-10	0E+00	1E-07		1E-07
Cobalt	Silver Lake Reservoir	7E-10	0E+00	1E-07		1E-07
Cobalt	Reservoir No. 2	7E-10	0E+00	1E-07		1E-07
Cobalt	Rahway River	7E-10	0E+00	1E-07		1E-07
Hydrogen Chloride	Passaic River				1E-05	
Hydrogen Chloride	Silver Lake Reservoir				1E-05	
Hydrogen Chloride	Reservoir No. 2				1E-05	
Hydrogen Chloride	Rahway River				1E-05	
Selenium	Passaic River	6E-11	4E-09	9E-08		9E-08
Selenium	Silver Lake Reservoir	6E-11	7E-06	9E-08		7E-06
Selenium	Reservoir No. 2	6E-11	8E-07	9E-08		9E-07
Selenium	Rahway River	6E-11	2E-08	9E-08		1E-07
Chlorine	Passaic River				6E-03	
Chlorine	Silver Lake Reservoir				6E-03	
Chlorine	Reservoir No. 2				6E-03	
Chlorine	Rahway River				6E-03	
Methylmercury - Developmental Effects	Passaic River	1E-09	4E-08	3E-11		4E-08
Methylmercury - Developmental Effects	Silver Lake Reservoir	1E-09	9E-06	3E-11		9E-06
Methylmercury - Developmental Effects	Reservoir No. 2	1E-09	1E-06	3E-11		1E-06
Methylmercury - Developmental Effects	Rahway River	1E-09	2E-08	3E-11		3E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Passaic River	4E-10	1E-08	1E-11		1E-08
Methylmercury - Neurological Effects	Silver Lake Reservoir	4E-10	3E-06	1E-11		3E-06
Methylmercury - Neurological Effects	Reservoir No. 2	4E-10	3E-07	1E-11		3E-07
Methylmercury - Neurological Effects	Rahway River	4E-10	8E-09	1E-11		8E-09

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Passaic River	9E-11	2E-09	1E-11	7E-11	2E-09
2,3,7,8-TCDD-TEQ	Silver Lake Reservoir	9E-11	4E-08	1E-11	7E-11	4E-08
2,3,7,8-TCDD-TEQ	Reservoir No. 2	9E-11	6E-09	1E-11	7E-11	6E-09
2,3,7,8-TCDD-TEQ	Rahway River	9E-11	6E-09	1E-11	7E-11	6E-09
Nickel	Passaic River				6E-11	
Nickel	Silver Lake Reservoir				6E-11	
Nickel	Reservoir No. 2				6E-11	
Nickel	Rahway River				6E-11	
Arsenic	Passaic River	1E-12	8E-14	9E-10	6E-11	9E-10
Arsenic	Silver Lake Reservoir	1E-12	2E-10	9E-10	6E-11	1E-09
Arsenic	Reservoir No. 2	1E-12	2E-11	9E-10	6E-11	9E-10
Arsenic	Rahway River	1E-12	4E-13	9E-10	6E-11	9E-10
Beryllium	Passaic River				6E-13	
Beryllium	Silver Lake Reservoir				6E-13	
Beryllium	Reservoir No. 2				6E-13	
Beryllium	Rahway River				6E-13	
Cadmium	Passaic River				4E-11	
Cadmium	Silver Lake Reservoir				4E-11	
Cadmium	Reservoir No. 2				4E-11	
Cadmium	Rahway River				4E-11	
Chromium VI	Passaic River				2E-09	
Chromium VI	Silver Lake Reservoir				2E-09	
Chromium VI	Reservoir No. 2				2E-09	
Chromium VI	Rahway River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Passaic River	1E-09	0E+00	4E-07	3E-05	4E-07
Manganese	Silver Lake Reservoir	1E-09	0E+00	4E-07	3E-05	4E-07
Manganese	Reservoir No. 2	1E-09	0E+00	4E-07	3E-05	4E-07
Manganese	Rahway River	1E-09	0E+00	4E-07	3E-05	4E-07
Mercury (elemental)	Passaic River				1E-08	
Mercury (elemental)	Silver Lake Reservoir				1E-08	
Mercury (elemental)	Reservoir No. 2				1E-08	
Mercury (elemental)	Rahway River				1E-08	
Mercury (divalent)	Passaic River	9E-09		4E-10		9E-09
Mercury (divalent)	Silver Lake Reservoir	9E-09		4E-10		9E-09
Mercury (divalent)	Reservoir No. 2	9E-09		4E-10		9E-09
Mercury (divalent)	Rahway River	9E-09		4E-10		9E-09
Nickel	Passaic River	2E-09	5E-11	2E-06		2E-06
Nickel	Silver Lake Reservoir	2E-09	1E-07	2E-06		2E-06
Nickel	Reservoir No. 2	2E-09	1E-08	2E-06		2E-06
Nickel	Rahway River	2E-09	2E-10	2E-06		2E-06
Silver	Passaic River	1E-11	0E+00	5E-07		5E-07
Silver	Silver Lake Reservoir	1E-11	0E+00	5E-07		5E-07
Silver	Reservoir No. 2	1E-11	0E+00	5E-07		5E-07
Silver	Rahway River	1E-11	0E+00	5E-07		5E-07
Thallium	Passaic River	9E-09	5E-09	3E-06		3E-06
Thallium	Silver Lake Reservoir	9E-09	1E-05	3E-06		1E-05
Thallium	Reservoir No. 2	9E-09	1E-06	3E-06		4E-06
Thallium	Rahway River	9E-09	2E-08	3E-06		3E-06

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Passaic River	2E-09	0E+00	2E-05		2E-05
Antimony	Silver Lake Reservoir	2E-09	0E+00	2E-05		2E-05
Antimony	Reservoir No. 2	2E-09	0E+00	2E-05		2E-05
Antimony	Rahway River	2E-09	0E+00	2E-05		2E-05
Arsenic	Passaic River	1E-08	8E-10	8E-06		8E-06
Arsenic	Silver Lake Reservoir	1E-08	1E-06	8E-06		1E-05
Arsenic	Reservoir No. 2	1E-08	2E-07	8E-06		9E-06
Arsenic	Rahway River	1E-08	4E-09	8E-06		8E-06
Barium	Passaic River	4E-09	0E+00	6E-08	7E-07	6E-08
Barium	Silver Lake Reservoir	4E-09	0E+00	6E-08	7E-07	6E-08
Barium	Reservoir No. 2	4E-09	0E+00	6E-08	7E-07	6E-08
Barium	Rahway River	4E-09	0E+00	6E-08	7E-07	6E-08
Beryllium	Passaic River	6E-10	1E-11	1E-08		1E-08
Beryllium	Silver Lake Reservoir	6E-10	1E-08	1E-08		3E-08
Beryllium	Reservoir No. 2	6E-10	9E-10	1E-08		1E-08
Beryllium	Rahway River	6E-10	6E-11	1E-08		1E-08
Cadmium	Passaic River	2E-08	2E-08	9E-06		9E-06
Cadmium	Silver Lake Reservoir	2E-08	4E-05	9E-06		5E-05
Cadmium	Reservoir No. 2	2E-08	5E-06	9E-06		1E-05
Cadmium	Rahway River	2E-08	1E-07	9E-06		9E-06
Chromium VI	Passaic River	6E-09	1E-10	7E-06		7E-06
Chromium VI	Silver Lake Reservoir	6E-09	2E-07	7E-06		7E-06
Chromium VI	Reservoir No. 2	6E-09	2E-08	7E-06		7E-06
Chromium VI	Rahway River	6E-09	5E-10	7E-06		7E-06
Chromium III	Passaic River	1E-09	7E-13	8E-11		1E-09
Chromium III	Silver Lake Reservoir	1E-09	5E-11	8E-11		1E-09
Chromium III	Reservoir No. 2	1E-09	2E-12	8E-11		1E-09
Chromium III	Rahway River	1E-09	3E-12	8E-11		1E-09
Cobalt	Passaic River	3E-10	0E+00	1E-07		1E-07
Cobalt	Silver Lake Reservoir	3E-10	0E+00	1E-07		1E-07
Cobalt	Reservoir No. 2	3E-10	0E+00	1E-07		1E-07
Cobalt	Rahway River	3E-10	0E+00	1E-07		1E-07
Hydrogen Chloride	Passaic River				1E-05	
Hydrogen Chloride	Silver Lake Reservoir				1E-05	
Hydrogen Chloride	Reservoir No. 2				1E-05	
Hydrogen Chloride	Rahway River				1E-05	
Selenium	Passaic River	2E-11	4E-09	1E-07		1E-07
Selenium	Silver Lake Reservoir	2E-11	7E-06	1E-07		7E-06
Selenium	Reservoir No. 2	2E-11	8E-07	1E-07		9E-07
Selenium	Rahway River	2E-11	2E-08	1E-07		1E-07
Chlorine	Passaic River				6E-03	
Chlorine	Silver Lake Reservoir				6E-03	
Chlorine	Reservoir No. 2				6E-03	
Chlorine	Rahway River				6E-03	
Methylmercury - Developmental Effects	Passaic River	5E-10	4E-08	3E-11		4E-08
Methylmercury - Developmental Effects	Silver Lake Reservoir	5E-10	9E-06	3E-11		9E-06
Methylmercury - Developmental Effects	Reservoir No. 2	5E-10	1E-06	3E-11		1E-06
Methylmercury - Developmental Effects	Rahway River	5E-10	2E-08	3E-11		2E-08

Table IX-E16. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 725) - Sector 12

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Passaic River	2E-10	1E-08	1E-11		1E-08
Methylmercury - Neurological Effects	Silver Lake Reservoir	2E-10	3E-06	1E-11		3E-06
Methylmercury - Neurological Effects	Reservoir No. 2	2E-10	3E-07	1E-11		3E-07
Methylmercury - Neurological Effects	Rahway River	2E-10	8E-09	1E-11		8E-09

Table IX-E17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	2E-12	1E-12	4E-12	7E-10	8E-09	7E-11	4E-10	3E-10	4E-10		7E-12	1E-08
Nickel												7E-10	
Arsenic	3E-10	1E-10	6E-11	3E-10	1E-09	2E-09	7E-11			2E-09		5E-09	6E-09
Beryllium												2E-11	
Cadmium												1E-09	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-07	2E-07	8E-08	3E-07	6E-08	3E-06	4E-09			0E+00		6E-04	4E-06
Mercury (elemental)												1E-07	
Mercury (divalent)	NA	3E-07	7E-08	6E-07	9E-07	1E-05	2E-09						1E-05
Nickel	2E-07	1E-07	5E-08	3E-07	3E-06	3E-05	2E-07			4E-07			3E-05
Silver	4E-09	5E-08	1E-08	1E-07	8E-07	3E-04	3E-08			0E+00			3E-04
Thallium	1E-06	1E-07	6E-09	3E-07	3E-05	9E-05	3E-06			5E-05			2E-04
Antimony	7E-09	3E-08	7E-09	8E-08	1E-07	8E-07	5E-09			0E+00			1E-06
Arsenic	8E-06	4E-06	1E-06	9E-06	3E-05	5E-05	2E-06			5E-05			1E-04
Barium	6E-07	6E-08	1E-08	1E-07	3E-08	4E-06	4E-09			0E+00		1E-05	4E-06
Beryllium	2E-07	3E-09	5E-10	6E-09	3E-08	1E-09	8E-09			2E-08			2E-07
Cadmium	5E-06	5E-06	2E-06	9E-06	5E-07	2E-06	8E-08			3E-04			3E-04
Chromium VI	1E-08	5E-09	2E-09	1E-08	2E-07	3E-06	1E-08			2E-08			3E-06
Chromium III	2E-07	2E-09	1E-09	6E-09	1E-07	2E-06	5E-08			2E-11			2E-06
Cobalt	4E-08	8E-09	4E-11	2E-08	7E-07	4E-06	6E-08			0E+00			5E-06
Hydrogen Chloride												9E-05	
Selenium	1E-08	1E-08	8E-09	3E-08	3E-07	2E-05	9E-07			1E-04			2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	4E-08	1E-07	9E-09	9E-08	2E-07	3E-06	1E-10			2E-06			6E-06
Methylmercury - Neurological Effects	1E-08	3E-08	3E-09	3E-08	7E-08	1E-06	4E-11			7E-07			2E-06

Table IX-E17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-12	1E-12	1E-12	5E-12	1E-09	5E-09	6E-11	4E-10	3E-10	5E-10		8E-12	8E-09
Nickel												8E-10	
Arsenic	1E-10	1E-10	5E-11	4E-10	2E-09	1E-09	5E-11			2E-09		6E-09	6E-09
Beryllium												2E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-08	9E-08	6E-08	3E-07	7E-08	1E-06	3E-09			0E+00		6E-04	2E-06
Mercury (elemental)												1E-07	
Mercury (divalent)	NA	2E-07	5E-08	6E-07	1E-06	5E-06	9E-10						7E-06
Nickel	6E-08	7E-08	3E-08	3E-07	3E-06	1E-05	1E-07			3E-07			2E-05
Silver	9E-10	3E-08	8E-09	1E-07	1E-06	2E-04	2E-08			0E+00			2E-04
Thallium	3E-07	6E-08	4E-09	3E-07	4E-05	4E-05	2E-06			4E-05			1E-04
Antimony	2E-09	2E-08	5E-09	7E-08	2E-07	4E-07	3E-09			0E+00			6E-07
Arsenic	2E-06	2E-06	1E-06	8E-06	3E-05	2E-05	1E-06			4E-05			1E-04
Barium	2E-07	3E-08	1E-08	1E-07	3E-08	2E-06	3E-09			0E+00		1E-05	2E-06
Beryllium	5E-08	1E-09	3E-10	6E-09	3E-08	6E-10	5E-09			1E-08			1E-07
Cadmium	1E-06	3E-06	2E-06	9E-06	5E-07	8E-07	5E-08			2E-04			2E-04
Chromium VI	4E-09	3E-09	1E-09	1E-08	2E-07	1E-06	6E-09			2E-08			2E-06
Chromium III	5E-08	1E-09	1E-09	6E-09	2E-07	9E-07	3E-08			2E-11			1E-06
Cobalt	9E-09	5E-09	3E-11	2E-08	9E-07	2E-06	3E-08			0E+00			3E-06
Hydrogen Chloride												9E-05	
Selenium	3E-09	7E-09	5E-09	3E-08	3E-07	1E-05	5E-07			1E-04			1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	9E-09	5E-08	6E-09	9E-08	3E-07	2E-06	7E-11			2E-06			4E-06
Methylmercury - Neurological Effects	3E-09	2E-08	2E-09	3E-08	8E-08	5E-07	2E-11			5E-07			1E-06

Table IX-E17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-12	1E-12	7E-13	3E-12	5E-10	2E-09	4E-11	3E-10	2E-10	2E-10		5E-12	4E-09
Nickel												5E-10	
Arsenic	7E-11	8E-11	4E-11	2E-10	8E-10	6E-10	4E-11			1E-09		4E-09	3E-09
Beryllium												1E-11	
Cadmium												7E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-08	7E-08	4E-08	2E-07	3E-08	7E-07	2E-09			0E+00		6E-04	1E-06
Mercury (elemental)												1E-07	
Mercury (divalent)	8E-08	1E-07	3E-08	3E-07	5E-07	3E-06	6E-10			0E+00			4E-06
Nickel	3E-08	5E-08	2E-08	1E-07	2E-06	7E-06	6E-08			2E-07			9E-06
Silver	5E-10	2E-08	6E-09	7E-08	4E-07	7E-05	1E-08			0E+00			8E-05
Thallium	2E-07	4E-08	3E-09	1E-07	2E-05	2E-05	1E-06			2E-05			6E-05
Antimony	9E-10	1E-08	3E-09	4E-08	7E-08	2E-07	2E-09			0E+00			3E-07
Arsenic	1E-06	2E-06	7E-07	4E-06	1E-05	1E-05	6E-07			2E-05			5E-05
Barium	8E-08	2E-08	7E-09	6E-08	2E-08	8E-07	2E-09			0E+00		1E-05	1E-06
Beryllium	2E-08	1E-09	2E-10	3E-09	1E-08	3E-10	3E-09			7E-09			5E-08
Cadmium	6E-07	2E-06	1E-06	5E-06	2E-07	4E-07	3E-08			1E-04			1E-04
Chromium VI	2E-09	2E-09	8E-10	7E-09	9E-08	6E-07	4E-09			9E-09			8E-07
Chromium III	3E-08	9E-10	7E-10	3E-09	8E-08	4E-07	2E-08			1E-11			6E-07
Cobalt	5E-09	3E-09	2E-11	1E-08	4E-07	1E-06	2E-08			0E+00			1E-06
Hydrogen Chloride												9E-05	
Selenium	1E-09	5E-09	4E-09	2E-08	1E-07	5E-06	3E-07			6E-05			6E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	5E-09	4E-08	4E-09	5E-08	1E-07	7E-07	4E-11			9E-07			2E-06
Methylmercury - Neurological Effects	2E-09	1E-08	1E-09	2E-08	4E-08	2E-07	1E-11			3E-07			6E-07

Table IX-E17. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-12	2E-12	1E-12	4E-12	1E-09	2E-09	7E-11	4E-10	3E-10	5E-10		7E-12	4E-09
Nickel												8E-10	
Arsenic	5E-11	2E-10	7E-11	4E-10	2E-09	5E-10	6E-11			2E-09		6E-09	5E-09
Beryllium												2E-11	
Cadmium												1E-09	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	8E-09	9E-08	5E-08	2E-07	3E-08	3E-07	2E-09			0E+00		6E-04	6E-07
Mercury (elemental)												1E-07	
Mercury (divalent)	3E-08	2E-07	4E-08	3E-07	5E-07	1E-06	5E-10			0E+00			2E-06
Nickel	1E-08	7E-08	3E-08	1E-07	2E-06	3E-06	6E-08			2E-07			5E-06
Silver	2E-10	3E-08	7E-09	6E-08	5E-07	3E-05	1E-08			0E+00			3E-05
Thallium	7E-08	6E-08	3E-09	1E-07	2E-05	9E-06	1E-06			2E-05			5E-05
Antimony	4E-10	2E-08	4E-09	4E-08	8E-08	8E-08	2E-09			0E+00			2E-07
Arsenic	5E-07	2E-06	8E-07	4E-06	2E-05	5E-06	6E-07			2E-05			5E-05
Barium	3E-08	3E-08	8E-09	5E-08	2E-08	4E-07	1E-09			0E+00		1E-05	5E-07
Beryllium	1E-08	1E-09	3E-10	3E-09	2E-08	1E-10	3E-09			7E-09			4E-08
Cadmium	3E-07	3E-06	1E-06	4E-06	3E-07	2E-07	3E-08			1E-04			1E-04
Chromium VI	8E-10	3E-09	1E-09	6E-09	1E-07	3E-07	3E-09			1E-08			4E-07
Chromium III	1E-08	1E-09	8E-10	3E-09	9E-08	2E-07	2E-08			1E-11			3E-07
Cobalt	2E-09	5E-09	2E-11	9E-09	4E-07	4E-07	2E-08			0E+00			9E-07
Hydrogen Chloride												9E-05	
Selenium	6E-10	7E-09	4E-09	2E-08	2E-07	2E-06	3E-07			6E-05			7E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	2E-09	5E-08	5E-09	4E-08	1E-07	3E-07	4E-11			1E-06			2E-06
Methylmercury - Neurological Effects	7E-10	2E-08	2E-09	1E-08	4E-08	1E-07	1E-11			3E-07			5E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Newton Lake	2E-11	2E-10	2E-15	7E-12	2E-10
2,3,7,8-TCDD-TEQ	Big Timber Creek	2E-11	1E-10	2E-15	7E-12	1E-10
2,3,7,8-TCDD-TEQ	Darby Creek	2E-11	2E-10	2E-15	7E-12	2E-10
2,3,7,8-TCDD-TEQ	Schuylkill River	2E-11	4E-12	2E-15	7E-12	3E-11
Nickel	Newton Lake				7E-10	
Nickel	Big Timber Creek				7E-10	
Nickel	Darby Creek				7E-10	
Nickel	Schuylkill River				7E-10	
Arsenic	Newton Lake	3E-10	3E-11	2E-12	5E-09	4E-10
Arsenic	Big Timber Creek	3E-10	7E-12	2E-12	5E-09	3E-10
Arsenic	Darby Creek	3E-10	1E-11	2E-12	5E-09	4E-10
Arsenic	Schuylkill River	3E-10	3E-13	2E-12	5E-09	3E-10
Beryllium	Newton Lake				2E-11	
Beryllium	Big Timber Creek				2E-11	
Beryllium	Darby Creek				2E-11	
Beryllium	Schuylkill River				2E-11	
Cadmium	Newton Lake				1E-09	
Cadmium	Big Timber Creek				1E-09	
Cadmium	Darby Creek				1E-09	
Cadmium	Schuylkill River				1E-09	
Chromium VI	Newton Lake				6E-10	
Chromium VI	Big Timber Creek				6E-10	
Chromium VI	Darby Creek				6E-10	
Chromium VI	Schuylkill River				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Newton Lake	1E-07	0E+00	4E-10	6E-04	1E-07
Manganese	Big Timber Creek	1E-07	0E+00	4E-10	6E-04	1E-07
Manganese	Darby Creek	1E-07	0E+00	4E-10	6E-04	1E-07
Manganese	Schuylkill River	1E-07	0E+00	4E-10	6E-04	1E-07
Mercury (elemental)	Newton Lake				1E-07	
Mercury (elemental)	Big Timber Creek				1E-07	
Mercury (elemental)	Darby Creek				1E-07	
Mercury (elemental)	Schuylkill River				1E-07	
Mercury (divalent)	Newton Lake	6E-07		2E-10		6E-07
Mercury (divalent)	Big Timber Creek	6E-07		2E-10		6E-07
Mercury (divalent)	Darby Creek	6E-07		2E-10		6E-07
Mercury (divalent)	Schuylkill River	6E-07		2E-10		6E-07
Nickel	Newton Lake	2E-07	6E-09	2E-09		2E-07
Nickel	Big Timber Creek	2E-07	1E-09	2E-09		2E-07
Nickel	Darby Creek	2E-07	3E-09	2E-09		2E-07
Nickel	Schuylkill River	2E-07	5E-11	2E-09		2E-07
Silver	Newton Lake	4E-09	0E+00	1E-09		5E-09
Silver	Big Timber Creek	4E-09	0E+00	1E-09		5E-09
Silver	Darby Creek	4E-09	0E+00	1E-09		5E-09
Silver	Schuylkill River	4E-09	0E+00	1E-09		5E-09
Thallium	Newton Lake	1E-06	8E-07	4E-09		2E-06
Thallium	Big Timber Creek	1E-06	2E-07	4E-09		1E-06
Thallium	Darby Creek	1E-06	4E-07	4E-09		2E-06
Thallium	Schuylkill River	1E-06	7E-09	4E-09		1E-06

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Newton Lake	7E-09	0E+00	7E-10		8E-09
Antimony	Big Timber Creek	7E-09	0E+00	7E-10		8E-09
Antimony	Darby Creek	7E-09	0E+00	7E-10		8E-09
Antimony	Schuylkill River	7E-09	0E+00	7E-10		8E-09
Arsenic	Newton Lake	8E-06	7E-07	6E-08		9E-06
Arsenic	Big Timber Creek	8E-06	2E-07	6E-08		9E-06
Arsenic	Darby Creek	8E-06	4E-07	6E-08		9E-06
Arsenic	Schuylkill River	8E-06	6E-09	6E-08		9E-06
Barium	Newton Lake	6E-07	0E+00	1E-10	1E-05	6E-07
Barium	Big Timber Creek	6E-07	0E+00	1E-10	1E-05	6E-07
Barium	Darby Creek	6E-07	0E+00	1E-10	1E-05	6E-07
Barium	Schuylkill River	6E-07	0E+00	1E-10	1E-05	6E-07
Beryllium	Newton Lake	2E-07	2E-09	4E-11		2E-07
Beryllium	Big Timber Creek	2E-07	5E-10	4E-11		2E-07
Beryllium	Darby Creek	2E-07	1E-09	4E-11		2E-07
Beryllium	Schuylkill River	2E-07	2E-11	4E-11		2E-07
Cadmium	Newton Lake	5E-06	5E-06	2E-08		1E-05
Cadmium	Big Timber Creek	5E-06	1E-06	2E-08		6E-06
Cadmium	Darby Creek	5E-06	3E-06	2E-08		7E-06
Cadmium	Schuylkill River	5E-06	5E-08	2E-08		5E-06
Chromium VI	Newton Lake	1E-08	3E-10	2E-10		1E-08
Chromium VI	Big Timber Creek	1E-08	8E-11	2E-10		1E-08
Chromium VI	Darby Creek	1E-08	2E-10	2E-10		1E-08
Chromium VI	Schuylkill River	1E-08	3E-12	2E-10		1E-08
Chromium III	Newton Lake	2E-07	9E-12	4E-13		2E-07
Chromium III	Big Timber Creek	2E-07	1E-11	4E-13		2E-07
Chromium III	Darby Creek	2E-07	2E-11	4E-13		2E-07
Chromium III	Schuylkill River	2E-07	7E-13	4E-13		2E-07
Cobalt	Newton Lake	4E-08	0E+00	4E-13		4E-08
Cobalt	Big Timber Creek	4E-08	0E+00	4E-13		4E-08
Cobalt	Darby Creek	4E-08	0E+00	4E-13		4E-08
Cobalt	Schuylkill River	4E-08	0E+00	4E-13		4E-08
Hydrogen Chloride	Newton Lake				9E-05	
Hydrogen Chloride	Big Timber Creek				9E-05	
Hydrogen Chloride	Darby Creek				9E-05	
Hydrogen Chloride	Schuylkill River				9E-05	
Selenium	Newton Lake	1E-08	2E-06	4E-10		2E-06
Selenium	Big Timber Creek	1E-08	5E-07	4E-10		5E-07
Selenium	Darby Creek	1E-08	1E-06	4E-10		1E-06
Selenium	Schuylkill River	1E-08	2E-08	4E-10		3E-08
Chlorine	Newton Lake				1E-04	
Chlorine	Big Timber Creek				1E-04	
Chlorine	Darby Creek				1E-04	
Chlorine	Schuylkill River				1E-04	
Methylmercury - Developmental Effects	Newton Lake	4E-08	1E-05	3E-12		1E-05
Methylmercury - Developmental Effects	Big Timber Creek	4E-08	2E-06	3E-12		3E-06
Methylmercury - Developmental Effects	Darby Creek	4E-08	5E-06	3E-12		5E-06
Methylmercury - Developmental Effects	Schuylkill River	4E-08	4E-07	3E-12		5E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Newton Lake	1E-08	5E-06	9E-13		5E-06
Methylmercury - Neurological Effects	Big Timber Creek	1E-08	8E-07	9E-13		8E-07
Methylmercury - Neurological Effects	Darby Creek	1E-08	2E-06	9E-13		2E-06
Methylmercury - Neurological Effects	Schuylkill River	1E-08	1E-07	9E-13		2E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Newton Lake	8E-12	3E-10	2E-15	8E-12	3E-10
2,3,7,8-TCDD-TEQ	Big Timber Creek	8E-12	2E-10	2E-15	8E-12	2E-10
2,3,7,8-TCDD-TEQ	Darby Creek	8E-12	2E-10	2E-15	8E-12	2E-10
2,3,7,8-TCDD-TEQ	Schuylkill River	8E-12	6E-12	2E-15	8E-12	1E-11
Nickel	Newton Lake				8E-10	
Nickel	Big Timber Creek				8E-10	
Nickel	Darby Creek				8E-10	
Nickel	Schuylkill River				8E-10	
Arsenic	Newton Lake	1E-10	4E-11	2E-12	6E-09	2E-10
Arsenic	Big Timber Creek	1E-10	9E-12	2E-12	6E-09	1E-10
Arsenic	Darby Creek	1E-10	2E-11	2E-12	6E-09	1E-10
Arsenic	Schuylkill River	1E-10	3E-13	2E-12	6E-09	1E-10
Beryllium	Newton Lake				2E-11	
Beryllium	Big Timber Creek				2E-11	
Beryllium	Darby Creek				2E-11	
Beryllium	Schuylkill River				2E-11	
Cadmium	Newton Lake				1E-09	
Cadmium	Big Timber Creek				1E-09	
Cadmium	Darby Creek				1E-09	
Cadmium	Schuylkill River				1E-09	
Chromium VI	Newton Lake				7E-10	
Chromium VI	Big Timber Creek				7E-10	
Chromium VI	Darby Creek				7E-10	
Chromium VI	Schuylkill River				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Newton Lake	4E-08	0E+00	2E-10	6E-04	4E-08
Manganese	Big Timber Creek	4E-08	0E+00	2E-10	6E-04	4E-08
Manganese	Darby Creek	4E-08	0E+00	2E-10	6E-04	4E-08
Manganese	Schuylkill River	4E-08	0E+00	2E-10	6E-04	4E-08
Mercury (elemental)	Newton Lake				1E-07	
Mercury (elemental)	Big Timber Creek				1E-07	
Mercury (elemental)	Darby Creek				1E-07	
Mercury (elemental)	Schuylkill River				1E-07	
Mercury (divalent)	Newton Lake	2E-07		1E-10		2E-07
Mercury (divalent)	Big Timber Creek	2E-07		1E-10		2E-07
Mercury (divalent)	Darby Creek	2E-07		1E-10		2E-07
Mercury (divalent)	Schuylkill River	2E-07		1E-10		2E-07
Nickel	Newton Lake	6E-08	6E-09	1E-09		7E-08
Nickel	Big Timber Creek	6E-08	1E-09	1E-09		6E-08
Nickel	Darby Creek	6E-08	3E-09	1E-09		6E-08
Nickel	Schuylkill River	6E-08	5E-11	1E-09		6E-08
Silver	Newton Lake	9E-10	0E+00	8E-10		2E-09
Silver	Big Timber Creek	9E-10	0E+00	8E-10		2E-09
Silver	Darby Creek	9E-10	0E+00	8E-10		2E-09
Silver	Schuylkill River	9E-10	0E+00	8E-10		2E-09
Thallium	Newton Lake	3E-07	8E-07	2E-09		1E-06
Thallium	Big Timber Creek	3E-07	2E-07	2E-09		5E-07
Thallium	Darby Creek	3E-07	4E-07	2E-09		7E-07
Thallium	Schuylkill River	3E-07	7E-09	2E-09		3E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Newton Lake	2E-09	0E+00	4E-10		2E-09
Antimony	Big Timber Creek	2E-09	0E+00	4E-10		2E-09
Antimony	Darby Creek	2E-09	0E+00	4E-10		2E-09
Antimony	Schuylkill River	2E-09	0E+00	4E-10		2E-09
Arsenic	Newton Lake	2E-06	7E-07	3E-08		3E-06
Arsenic	Big Timber Creek	2E-06	2E-07	3E-08		2E-06
Arsenic	Darby Creek	2E-06	4E-07	3E-08		3E-06
Arsenic	Schuylkill River	2E-06	6E-09	3E-08		2E-06
Barium	Newton Lake	2E-07	0E+00	6E-11	1E-05	2E-07
Barium	Big Timber Creek	2E-07	0E+00	6E-11	1E-05	2E-07
Barium	Darby Creek	2E-07	0E+00	6E-11	1E-05	2E-07
Barium	Schuylkill River	2E-07	0E+00	6E-11	1E-05	2E-07
Beryllium	Newton Lake	5E-08	2E-09	2E-11		5E-08
Beryllium	Big Timber Creek	5E-08	5E-10	2E-11		5E-08
Beryllium	Darby Creek	5E-08	1E-09	2E-11		5E-08
Beryllium	Schuylkill River	5E-08	2E-11	2E-11		5E-08
Cadmium	Newton Lake	1E-06	5E-06	9E-09		6E-06
Cadmium	Big Timber Creek	1E-06	1E-06	9E-09		2E-06
Cadmium	Darby Creek	1E-06	3E-06	9E-09		4E-06
Cadmium	Schuylkill River	1E-06	5E-08	9E-09		1E-06
Chromium VI	Newton Lake	4E-09	3E-10	9E-11		4E-09
Chromium VI	Big Timber Creek	4E-09	8E-11	9E-11		4E-09
Chromium VI	Darby Creek	4E-09	2E-10	9E-11		4E-09
Chromium VI	Schuylkill River	4E-09	3E-12	9E-11		4E-09
Chromium III	Newton Lake	5E-08	9E-12	2E-13		5E-08
Chromium III	Big Timber Creek	5E-08	1E-11	2E-13		5E-08
Chromium III	Darby Creek	5E-08	2E-11	2E-13		5E-08
Chromium III	Schuylkill River	5E-08	7E-13	2E-13		5E-08
Cobalt	Newton Lake	9E-09	0E+00	2E-13		9E-09
Cobalt	Big Timber Creek	9E-09	0E+00	2E-13		9E-09
Cobalt	Darby Creek	9E-09	0E+00	2E-13		9E-09
Cobalt	Schuylkill River	9E-09	0E+00	2E-13		9E-09
Hydrogen Chloride	Newton Lake				9E-05	
Hydrogen Chloride	Big Timber Creek				9E-05	
Hydrogen Chloride	Darby Creek				9E-05	
Hydrogen Chloride	Schuylkill River				9E-05	
Selenium	Newton Lake	3E-09	2E-06	2E-10		2E-06
Selenium	Big Timber Creek	3E-09	5E-07	2E-10		5E-07
Selenium	Darby Creek	3E-09	1E-06	2E-10		1E-06
Selenium	Schuylkill River	3E-09	2E-08	2E-10		2E-08
Chlorine	Newton Lake				1E-04	
Chlorine	Big Timber Creek				1E-04	
Chlorine	Darby Creek				1E-04	
Chlorine	Schuylkill River				1E-04	
Methylmercury - Developmental Effects	Newton Lake	9E-09	1E-05	2E-12		1E-05
Methylmercury - Developmental Effects	Big Timber Creek	9E-09	2E-06	2E-12		2E-06
Methylmercury - Developmental Effects	Darby Creek	9E-09	5E-06	2E-12		5E-06
Methylmercury - Developmental Effects	Schuylkill River	9E-09	4E-07	2E-12		4E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Newton Lake	3E-09	5E-06	5E-13		5E-06
Methylmercury - Neurological Effects	Big Timber Creek	3E-09	8E-07	5E-13		8E-07
Methylmercury - Neurological Effects	Darby Creek	3E-09	2E-06	5E-13		2E-06
Methylmercury - Neurological Effects	Schuylkill River	3E-09	1E-07	5E-13		1E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Newton Lake	4E-12	2E-10	1E-15	5E-12	2E-10
2,3,7,8-TCDD-TEQ	Big Timber Creek	4E-12	1E-10	1E-15	5E-12	1E-10
2,3,7,8-TCDD-TEQ	Darby Creek	4E-12	2E-10	1E-15	5E-12	2E-10
2,3,7,8-TCDD-TEQ	Schuylkill River	4E-12	4E-12	1E-15	5E-12	9E-12
Nickel	Newton Lake				5E-10	
Nickel	Big Timber Creek				5E-10	
Nickel	Darby Creek				5E-10	
Nickel	Schuylkill River				5E-10	
Arsenic	Newton Lake	7E-11	3E-11	1E-12	4E-09	1E-10
Arsenic	Big Timber Creek	7E-11	7E-12	1E-12	4E-09	7E-11
Arsenic	Darby Creek	7E-11	1E-11	1E-12	4E-09	8E-11
Arsenic	Schuylkill River	7E-11	3E-13	1E-12	4E-09	7E-11
Beryllium	Newton Lake				1E-11	
Beryllium	Big Timber Creek				1E-11	
Beryllium	Darby Creek				1E-11	
Beryllium	Schuylkill River				1E-11	
Cadmium	Newton Lake				7E-10	
Cadmium	Big Timber Creek				7E-10	
Cadmium	Darby Creek				7E-10	
Cadmium	Schuylkill River				7E-10	
Chromium VI	Newton Lake				5E-10	
Chromium VI	Big Timber Creek				5E-10	
Chromium VI	Darby Creek				5E-10	
Chromium VI	Schuylkill River				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Newton Lake	2E-08	0E+00	2E-10	6E-04	2E-08
Manganese	Big Timber Creek	2E-08	0E+00	2E-10	6E-04	2E-08
Manganese	Darby Creek	2E-08	0E+00	2E-10	6E-04	2E-08
Manganese	Schuylkill River	2E-08	0E+00	2E-10	6E-04	2E-08
Mercury (elemental)	Newton Lake				1E-07	
Mercury (elemental)	Big Timber Creek				1E-07	
Mercury (elemental)	Darby Creek				1E-07	
Mercury (elemental)	Schuylkill River				1E-07	
Mercury (divalent)	Newton Lake	8E-08		6E-11		8E-08
Mercury (divalent)	Big Timber Creek	8E-08		6E-11		8E-08
Mercury (divalent)	Darby Creek	8E-08		6E-11		8E-08
Mercury (divalent)	Schuylkill River	8E-08		6E-11		8E-08
Nickel	Newton Lake	3E-08	4E-09	8E-10		4E-08
Nickel	Big Timber Creek	3E-08	1E-09	8E-10		3E-08
Nickel	Darby Creek	3E-08	2E-09	8E-10		3E-08
Nickel	Schuylkill River	3E-08	4E-11	8E-10		3E-08
Silver	Newton Lake	5E-10	0E+00	5E-10		1E-09
Silver	Big Timber Creek	5E-10	0E+00	5E-10		1E-09
Silver	Darby Creek	5E-10	0E+00	5E-10		1E-09
Silver	Schuylkill River	5E-10	0E+00	5E-10		1E-09
Thallium	Newton Lake	2E-07	6E-07	1E-09		7E-07
Thallium	Big Timber Creek	2E-07	1E-07	1E-09		3E-07
Thallium	Darby Creek	2E-07	3E-07	1E-09		5E-07
Thallium	Schuylkill River	2E-07	5E-09	1E-09		2E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Newton Lake	9E-10	0E+00	2E-10		1E-09
Antimony	Big Timber Creek	9E-10	0E+00	2E-10		1E-09
Antimony	Darby Creek	9E-10	0E+00	2E-10		1E-09
Antimony	Schuylkill River	9E-10	0E+00	2E-10		1E-09
Arsenic	Newton Lake	1E-06	5E-07	2E-08		2E-06
Arsenic	Big Timber Creek	1E-06	1E-07	2E-08		1E-06
Arsenic	Darby Creek	1E-06	3E-07	2E-08		1E-06
Arsenic	Schuylkill River	1E-06	5E-09	2E-08		1E-06
Barium	Newton Lake	8E-08	0E+00	4E-11	1E-05	8E-08
Barium	Big Timber Creek	8E-08	0E+00	4E-11	1E-05	8E-08
Barium	Darby Creek	8E-08	0E+00	4E-11	1E-05	8E-08
Barium	Schuylkill River	8E-08	0E+00	4E-11	1E-05	8E-08
Beryllium	Newton Lake	2E-08	1E-09	1E-11		3E-08
Beryllium	Big Timber Creek	2E-08	4E-10	1E-11		2E-08
Beryllium	Darby Creek	2E-08	8E-10	1E-11		3E-08
Beryllium	Schuylkill River	2E-08	2E-11	1E-11		2E-08
Cadmium	Newton Lake	6E-07	4E-06	6E-09		4E-06
Cadmium	Big Timber Creek	6E-07	9E-07	6E-09		2E-06
Cadmium	Darby Creek	6E-07	2E-06	6E-09		3E-06
Cadmium	Schuylkill River	6E-07	3E-08	6E-09		7E-07
Chromium VI	Newton Lake	2E-09	2E-10	6E-11		2E-09
Chromium VI	Big Timber Creek	2E-09	5E-11	6E-11		2E-09
Chromium VI	Darby Creek	2E-09	1E-10	6E-11		2E-09
Chromium VI	Schuylkill River	2E-09	2E-12	6E-11		2E-09
Chromium III	Newton Lake	3E-08	6E-12	2E-13		3E-08
Chromium III	Big Timber Creek	3E-08	8E-12	2E-13		3E-08
Chromium III	Darby Creek	3E-08	1E-11	2E-13		3E-08
Chromium III	Schuylkill River	3E-08	5E-13	2E-13		3E-08
Cobalt	Newton Lake	5E-09	0E+00	6E-11		5E-09
Cobalt	Big Timber Creek	5E-09	0E+00	6E-11		5E-09
Cobalt	Darby Creek	5E-09	0E+00	6E-11		5E-09
Cobalt	Schuylkill River	5E-09	0E+00	6E-11		5E-09
Hydrogen Chloride	Newton Lake				9E-05	
Hydrogen Chloride	Big Timber Creek				9E-05	
Hydrogen Chloride	Darby Creek				9E-05	
Hydrogen Chloride	Schuylkill River				9E-05	
Selenium	Newton Lake	1E-09	1E-06	2E-10		1E-06
Selenium	Big Timber Creek	1E-09	3E-07	2E-10		3E-07
Selenium	Darby Creek	1E-09	7E-07	2E-10		7E-07
Selenium	Schuylkill River	1E-09	1E-08	2E-10		1E-08
Chlorine	Newton Lake				1E-04	
Chlorine	Big Timber Creek				1E-04	
Chlorine	Darby Creek				1E-04	
Chlorine	Schuylkill River				1E-04	
Methylmercury - Developmental Effects	Newton Lake	5E-09	1E-05	1E-12		1E-05
Methylmercury - Developmental Effects	Big Timber Creek	5E-09	2E-06	1E-12		2E-06
Methylmercury - Developmental Effects	Darby Creek	5E-09	4E-06	1E-12		4E-06
Methylmercury - Developmental Effects	Schuylkill River	5E-09	3E-07	1E-12		3E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Newton Lake	2E-09	3E-06	3E-13		3E-06
Methylmercury - Neurological Effects	Big Timber Creek	2E-09	6E-07	3E-13		6E-07
Methylmercury - Neurological Effects	Darby Creek	2E-09	1E-06	3E-13		1E-06
Methylmercury - Neurological Effects	Schuylkill River	2E-09	1E-07	3E-13		1E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Newton Lake	3E-12	4E-10	2E-15	7E-12	4E-10
2,3,7,8-TCDD-TEQ	Big Timber Creek	3E-12	2E-10	2E-15	7E-12	2E-10
2,3,7,8-TCDD-TEQ	Darby Creek	3E-12	3E-10	2E-15	7E-12	3E-10
2,3,7,8-TCDD-TEQ	Schuylkill River	3E-12	8E-12	2E-15	7E-12	1E-11
Nickel	Newton Lake				8E-10	
Nickel	Big Timber Creek				8E-10	
Nickel	Darby Creek				8E-10	
Nickel	Schuylkill River				8E-10	
Arsenic	Newton Lake	5E-11	5E-11	3E-12	6E-09	1E-10
Arsenic	Big Timber Creek	5E-11	1E-11	3E-12	6E-09	7E-11
Arsenic	Darby Creek	5E-11	3E-11	3E-12	6E-09	8E-11
Arsenic	Schuylkill River	5E-11	5E-13	3E-12	6E-09	5E-11
Beryllium	Newton Lake				2E-11	
Beryllium	Big Timber Creek				2E-11	
Beryllium	Darby Creek				2E-11	
Beryllium	Schuylkill River				2E-11	
Cadmium	Newton Lake				1E-09	
Cadmium	Big Timber Creek				1E-09	
Cadmium	Darby Creek				1E-09	
Cadmium	Schuylkill River				1E-09	
Chromium VI	Newton Lake				7E-10	
Chromium VI	Big Timber Creek				7E-10	
Chromium VI	Darby Creek				7E-10	
Chromium VI	Schuylkill River				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Newton Lake	8E-09	0E+00	2E-10	6E-04	8E-09
Manganese	Big Timber Creek	8E-09	0E+00	2E-10	6E-04	8E-09
Manganese	Darby Creek	8E-09	0E+00	2E-10	6E-04	8E-09
Manganese	Schuylkill River	8E-09	0E+00	2E-10	6E-04	8E-09
Mercury (elemental)	Newton Lake				1E-07	
Mercury (elemental)	Big Timber Creek				1E-07	
Mercury (elemental)	Darby Creek				1E-07	
Mercury (elemental)	Schuylkill River				1E-07	
Mercury (divalent)	Newton Lake	3E-08		7E-11		3E-08
Mercury (divalent)	Big Timber Creek	3E-08		7E-11		3E-08
Mercury (divalent)	Darby Creek	3E-08		7E-11		3E-08
Mercury (divalent)	Schuylkill River	3E-08		7E-11		3E-08
Nickel	Newton Lake	1E-08	4E-09	1E-09		2E-08
Nickel	Big Timber Creek	1E-08	1E-09	1E-09		1E-08
Nickel	Darby Creek	1E-08	2E-09	1E-09		2E-08
Nickel	Schuylkill River	1E-08	4E-11	1E-09		1E-08
Silver	Newton Lake	2E-10	0E+00	6E-10		8E-10
Silver	Big Timber Creek	2E-10	0E+00	6E-10		8E-10
Silver	Darby Creek	2E-10	0E+00	6E-10		8E-10
Silver	Schuylkill River	2E-10	0E+00	6E-10		8E-10
Thallium	Newton Lake	7E-08	6E-07	1E-09		6E-07
Thallium	Big Timber Creek	7E-08	1E-07	1E-09		2E-07
Thallium	Darby Creek	7E-08	3E-07	1E-09		4E-07
Thallium	Schuylkill River	7E-08	5E-09	1E-09		7E-08

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Newton Lake	4E-10	0E+00	3E-10		7E-10
Antimony	Big Timber Creek	4E-10	0E+00	3E-10		7E-10
Antimony	Darby Creek	4E-10	0E+00	3E-10		7E-10
Antimony	Schuylkill River	4E-10	0E+00	3E-10		7E-10
Arsenic	Newton Lake	5E-07	5E-07	3E-08		1E-06
Arsenic	Big Timber Creek	5E-07	1E-07	3E-08		6E-07
Arsenic	Darby Creek	5E-07	3E-07	3E-08		8E-07
Arsenic	Schuylkill River	5E-07	5E-09	3E-08		5E-07
Barium	Newton Lake	3E-08	0E+00	4E-11	1E-05	3E-08
Barium	Big Timber Creek	3E-08	0E+00	4E-11	1E-05	3E-08
Barium	Darby Creek	3E-08	0E+00	4E-11	1E-05	3E-08
Barium	Schuylkill River	3E-08	0E+00	4E-11	1E-05	3E-08
Beryllium	Newton Lake	1E-08	1E-09	2E-11		1E-08
Beryllium	Big Timber Creek	1E-08	4E-10	2E-11		1E-08
Beryllium	Darby Creek	1E-08	8E-10	2E-11		1E-08
Beryllium	Schuylkill River	1E-08	2E-11	2E-11		1E-08
Cadmium	Newton Lake	3E-07	4E-06	7E-09		4E-06
Cadmium	Big Timber Creek	3E-07	9E-07	7E-09		1E-06
Cadmium	Darby Creek	3E-07	2E-06	7E-09		2E-06
Cadmium	Schuylkill River	3E-07	3E-08	7E-09		3E-07
Chromium VI	Newton Lake	8E-10	2E-10	7E-11		1E-09
Chromium VI	Big Timber Creek	8E-10	5E-11	7E-11		9E-10
Chromium VI	Darby Creek	8E-10	1E-10	7E-11		1E-09
Chromium VI	Schuylkill River	8E-10	2E-12	7E-11		9E-10
Chromium III	Newton Lake	1E-08	6E-12	2E-13		1E-08
Chromium III	Big Timber Creek	1E-08	8E-12	2E-13		1E-08
Chromium III	Darby Creek	1E-08	1E-11	2E-13		1E-08
Chromium III	Schuylkill River	1E-08	5E-13	2E-13		1E-08
Cobalt	Newton Lake	2E-09	0E+00	7E-11		2E-09
Cobalt	Big Timber Creek	2E-09	0E+00	7E-11		2E-09
Cobalt	Darby Creek	2E-09	0E+00	7E-11		2E-09
Cobalt	Schuylkill River	2E-09	0E+00	7E-11		2E-09
Hydrogen Chloride	Newton Lake				9E-05	
Hydrogen Chloride	Big Timber Creek				9E-05	
Hydrogen Chloride	Darby Creek				9E-05	
Hydrogen Chloride	Schuylkill River				9E-05	
Selenium	Newton Lake	6E-10	1E-06	2E-10		1E-06
Selenium	Big Timber Creek	6E-10	3E-07	2E-10		3E-07
Selenium	Darby Creek	6E-10	7E-07	2E-10		7E-07
Selenium	Schuylkill River	6E-10	1E-08	2E-10		1E-08
Chlorine	Newton Lake				1E-04	
Chlorine	Big Timber Creek				1E-04	
Chlorine	Darby Creek				1E-04	
Chlorine	Schuylkill River				1E-04	
Methylmercury - Developmental Effects	Newton Lake	2E-09	1E-05	1E-12		1E-05
Methylmercury - Developmental Effects	Big Timber Creek	2E-09	2E-06	1E-12		2E-06
Methylmercury - Developmental Effects	Darby Creek	2E-09	4E-06	1E-12		4E-06
Methylmercury - Developmental Effects	Schuylkill River	2E-09	3E-07	1E-12		3E-07

Table IX-E18. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 824) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Newton Lake	7E-10	3E-06	4E-13		3E-06
Methylmercury - Neurological Effects	Big Timber Creek	7E-10	6E-07	4E-13		6E-07
Methylmercury - Neurological Effects	Darby Creek	7E-10	1E-06	4E-13		1E-06
Methylmercury - Neurological Effects	Schuylkill River	7E-10	1E-07	4E-13		1E-07

Table IX-E19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	6E-11	5E-11	1E-10	3E-08	3E-07	3E-09	2E-08	1E-08	8E-09		2E-10	4E-07
Nickel												4E-12	
Arsenic	7E-11	3E-11	1E-11	7E-11	2E-10	3E-10	1E-11			4E-10		2E-09	1E-09
Beryllium												6E-11	
Cadmium												3E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	9E-09	3E-08	5E-09	2E-07	4E-10			0E+00		7E-05	3E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	9E-06	2E-06	2E-05	3E-05	3E-04	5E-08						4E-04
Nickel	6E-10	4E-10	2E-10	1E-09	1E-08	1E-07	5E-10			1E-09			1E-07
Silver	3E-11	4E-10	9E-11	1E-09	7E-09	3E-06	3E-10			0E+00			3E-06
Thallium	5E-08	5E-09	3E-10	1E-08	1E-06	4E-06	1E-07			2E-06			8E-06
Antimony	6E-08	2E-07	6E-08	6E-07	1E-06	6E-06	4E-08			0E+00			8E-06
Arsenic	2E-06	8E-07	4E-07	2E-06	5E-06	8E-06	3E-07			9E-06			3E-05
Barium	1E-07	1E-08	4E-09	3E-08	7E-09	9E-07	1E-09			0E+00		4E-06	1E-06
Beryllium	5E-07	6E-09	1E-09	1E-08	6E-08	3E-09	2E-08			2E-08			6E-07
Cadmium	8E-07	1E-06	5E-07	2E-06	9E-08	3E-07	1E-08			3E-05			4E-05
Chromium VI	3E-08	1E-08	4E-09	3E-08	4E-07	6E-06	2E-08			4E-08			7E-06
Chromium III	4E-08	4E-10	3E-10	1E-09	3E-08	3E-07	9E-09			2E-12			4E-07
Cobalt	3E-09	8E-10	4E-12	2E-09	6E-08	4E-07	5E-09			0E+00			4E-07
Hydrogen Chloride												4E-06	
Selenium	6E-09	6E-09	4E-09	2E-08	1E-07	1E-05	4E-07			7E-05			8E-05
Chlorine												3E-06	
Methylmercury - Developmental Effects	1E-06	3E-06	3E-07	3E-06	7E-06	1E-04	4E-09			2E-04			3E-04
Methylmercury - Neurological Effects	4E-07	1E-06	9E-08	1E-06	2E-06	3E-05	1E-09			7E-05			1E-04

Table IX-E19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	5E-11	4E-11	2E-10	5E-08	2E-07	3E-09	2E-08	2E-08	9E-09		2E-10	3E-07
Nickel												4E-12	
Arsenic	2E-11	2E-11	1E-11	1E-10	3E-10	2E-10	1E-11			4E-10		2E-09	1E-09
Beryllium												7E-11	
Cadmium												3E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	3E-09	9E-09	6E-09	3E-08	6E-09	1E-07	2E-10			0E+00		7E-05	2E-07
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	5E-06	1E-06	2E-05	3E-05	2E-04	3E-08						2E-04
Nickel	2E-10	2E-10	1E-10	9E-10	1E-08	5E-08	3E-10			8E-10			6E-08
Silver	7E-12	2E-10	6E-11	1E-09	9E-09	1E-06	2E-10			0E+00			1E-06
Thallium	1E-08	3E-09	2E-10	1E-08	2E-06	2E-06	8E-08			1E-06			5E-06
Antimony	1E-08	1E-07	4E-08	6E-07	1E-06	3E-06	2E-08			0E+00			5E-06
Arsenic	5E-07	5E-07	3E-07	2E-06	6E-06	4E-06	2E-07			7E-06			2E-05
Barium	4E-08	8E-09	3E-09	3E-08	8E-09	4E-07	6E-10			0E+00		4E-06	5E-07
Beryllium	1E-07	3E-09	9E-10	1E-08	8E-08	1E-09	1E-08			1E-08			2E-07
Cadmium	2E-07	6E-07	4E-07	2E-06	1E-07	2E-07	9E-09			3E-05			3E-05
Chromium VI	7E-09	6E-09	3E-09	3E-08	5E-07	3E-06	1E-08			3E-08			4E-06
Chromium III	1E-08	2E-10	2E-10	9E-10	3E-08	2E-07	6E-09			1E-12			2E-07
Cobalt	7E-10	4E-10	3E-12	2E-09	8E-08	2E-07	3E-09			0E+00			3E-07
Hydrogen Chloride												4E-06	
Selenium	2E-09	3E-09	3E-09	2E-08	1E-07	6E-06	3E-07			5E-05			6E-05
Chlorine												3E-06	
Methylmercury - Developmental Effects	3E-07	2E-06	2E-07	3E-06	8E-06	5E-05	2E-09			2E-04			2E-04
Methylmercury - Neurological Effects	1E-07	6E-07	7E-08	1E-06	3E-06	2E-05	7E-10			5E-05			8E-05

Table IX-E19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	4E-11	3E-11	9E-11	2E-08	1E-07	2E-09	1E-08	8E-09	5E-09		2E-10	2E-07
Nickel												3E-12	
Arsenic	1E-11	2E-11	1E-11	5E-11	1E-10	1E-10	7E-12			2E-10		1E-09	6E-10
Beryllium												4E-11	
Cadmium												2E-10	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	7E-09	4E-09	2E-08	3E-09	6E-08	1E-10			0E+00		7E-05	9E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	3E-06	4E-06	1E-06	1E-05	1E-05	7E-05	2E-08			0E+00			1E-04
Nickel	9E-11	2E-10	8E-11	5E-10	5E-09	2E-08	2E-10			4E-10			3E-08
Silver	4E-12	2E-10	4E-11	6E-10	4E-09	7E-07	1E-10			0E+00			7E-07
Thallium	7E-09	2E-09	2E-10	7E-09	8E-07	1E-06	5E-08			6E-07			2E-06
Antimony	8E-09	1E-07	3E-08	3E-07	5E-07	1E-06	2E-08			0E+00			2E-06
Arsenic	2E-07	4E-07	2E-07	1E-06	3E-06	2E-06	1E-07			4E-06			1E-05
Barium	2E-08	6E-09	2E-09	1E-08	4E-09	2E-07	4E-10			0E+00		4E-06	2E-07
Beryllium	6E-08	3E-09	6E-10	8E-09	3E-08	6E-10	8E-09			6E-09			1E-07
Cadmium	1E-07	5E-07	3E-07	1E-06	5E-08	7E-08	6E-09			1E-05			2E-05
Chromium VI	4E-09	4E-09	2E-09	1E-08	2E-07	1E-06	8E-09			2E-08			2E-06
Chromium III	5E-09	2E-10	1E-10	5E-10	1E-08	7E-08	4E-09			6E-13			1E-07
Cobalt	4E-10	3E-10	2E-12	9E-10	3E-08	9E-08	2E-09			0E+00			1E-07
Hydrogen Chloride												4E-06	
Selenium	8E-10	3E-09	2E-09	9E-09	7E-08	3E-06	2E-07			3E-05			3E-05
Chlorine												3E-06	
Methylmercury - Developmental Effects	2E-07	1E-06	1E-07	2E-06	4E-06	2E-05	1E-09			9E-05			1E-04
Methylmercury - Neurological Effects	5E-08	4E-07	5E-08	5E-07	1E-06	8E-06	5E-10			3E-05			4E-05

Table IX-E19. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	9E-11	6E-11	2E-10	5E-08	9E-08	3E-09	2E-08	1E-08	1E-08		2E-10	2E-07
Nickel												4E-12	
Arsenic	1E-11	5E-11	2E-11	9E-11	3E-10	9E-11	1E-11			4E-10		2E-09	1E-09
Beryllium												6E-11	
Cadmium												3E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-10	1E-08	5E-09	2E-08	3E-09	2E-08	1E-10			0E+00		7E-05	6E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	1E-06	5E-06	1E-06	9E-06	2E-05	3E-05	2E-08			0E+00			6E-05
Nickel	4E-11	2E-10	9E-11	5E-10	6E-09	1E-08	2E-10			5E-10			2E-08
Silver	1E-12	2E-10	5E-11	5E-10	4E-09	3E-07	9E-11			0E+00			3E-07
Thallium	3E-09	3E-09	2E-10	7E-09	9E-07	4E-07	5E-08			7E-07			2E-06
Antimony	3E-09	1E-07	3E-08	3E-07	6E-07	6E-07	1E-08			0E+00			2E-06
Arsenic	1E-07	5E-07	2E-07	9E-07	3E-06	8E-07	1E-07			4E-06			9E-06
Barium	8E-09	8E-09	2E-09	1E-08	4E-09	9E-08	4E-10			0E+00		4E-06	1E-07
Beryllium	3E-08	3E-09	7E-10	7E-09	4E-08	3E-10	7E-09			7E-09			9E-08
Cadmium	4E-08	7E-07	3E-07	1E-06	5E-08	3E-08	5E-09			1E-05			2E-05
Chromium VI	1E-09	6E-09	2E-09	1E-08	2E-07	6E-07	7E-09			2E-08			9E-07
Chromium III	2E-09	2E-10	2E-10	5E-10	2E-08	3E-08	3E-09			7E-13			5E-08
Cobalt	1E-10	4E-10	2E-12	9E-10	4E-08	4E-08	2E-09			0E+00			8E-08
Hydrogen Chloride												4E-06	
Selenium	3E-10	3E-09	2E-09	8E-09	8E-08	1E-06	1E-07			3E-05			3E-05
Chlorine												3E-06	
Methylmercury - Developmental Effects	6E-08	2E-06	2E-07	1E-06	4E-06	1E-05	1E-09			1E-04			1E-04
Methylmercury - Neurological Effects	2E-08	6E-07	5E-08	5E-07	1E-06	3E-06	4E-10			3E-05			4E-05

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Pascagoula River	1E-09	7E-11	0E+00	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Escatawpa River	1E-09	2E-09	0E+00	2E-10	3E-09
Nickel	Pascagoula River				4E-12	
Nickel	Escatawpa River				4E-12	
Arsenic	Pascagoula River	7E-11	5E-14	0E+00	2E-09	7E-11
Arsenic	Escatawpa River	7E-11	1E-12	0E+00	2E-09	7E-11
Beryllium	Pascagoula River				6E-11	
Beryllium	Escatawpa River				6E-11	
Cadmium	Pascagoula River				3E-10	
Cadmium	Escatawpa River				3E-10	
Chromium VI	Pascagoula River				2E-09	
Chromium VI	Escatawpa River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Pascagoula River	1E-08	0E+00	0E+00	7E-05	1E-08
Manganese	Escatawpa River	1E-08	0E+00	0E+00	7E-05	1E-08
Mercury (elemental)	Pascagoula River				4E-06	
Mercury (elemental)	Escatawpa River				4E-06	
Mercury (divalent)	Pascagoula River	2E-05		0E+00		2E-05
Mercury (divalent)	Escatawpa River	2E-05		0E+00		2E-05
Nickel	Pascagoula River	6E-10	2E-13	0E+00		6E-10
Nickel	Escatawpa River	6E-10	4E-12	0E+00		6E-10
Silver	Pascagoula River	3E-11	0E+00	0E+00		3E-11
Silver	Escatawpa River	3E-11	0E+00	0E+00		3E-11
Thallium	Pascagoula River	5E-08	3E-10	0E+00		5E-08
Thallium	Escatawpa River	5E-08	8E-09	0E+00		6E-08
Antimony	Pascagoula River	6E-08	0E+00	0E+00		6E-08
Antimony	Escatawpa River	6E-08	0E+00	0E+00		6E-08
Arsenic	Pascagoula River	2E-06	1E-09	0E+00		2E-06
Arsenic	Escatawpa River	2E-06	4E-08	0E+00		2E-06
Barium	Pascagoula River	1E-07	0E+00	0E+00	4E-06	1E-07
Barium	Escatawpa River	1E-07	0E+00	0E+00	4E-06	1E-07
Beryllium	Pascagoula River	5E-07	3E-11	0E+00		5E-07
Beryllium	Escatawpa River	5E-07	9E-10	0E+00		5E-07
Cadmium	Pascagoula River	8E-07	8E-09	0E+00		8E-07
Cadmium	Escatawpa River	8E-07	2E-07	0E+00		1E-06
Chromium VI	Pascagoula River	3E-08	5E-12	0E+00		3E-08
Chromium VI	Escatawpa River	3E-08	1E-10	0E+00		3E-08
Chromium III	Pascagoula River	4E-08	5E-14	0E+00		4E-08
Chromium III	Escatawpa River	4E-08	2E-12	0E+00		4E-08
Cobalt	Pascagoula River	3E-09	0E+00	0E+00		3E-09
Cobalt	Escatawpa River	3E-09	0E+00	0E+00		3E-09
Hydrogen Chloride	Pascagoula River				4E-06	
Hydrogen Chloride	Escatawpa River				4E-06	
Selenium	Pascagoula River	6E-09	9E-09	0E+00		2E-08
Selenium	Escatawpa River	6E-09	3E-07	0E+00		3E-07
Chlorine	Pascagoula River				3E-06	
Chlorine	Escatawpa River				3E-06	
Methylmercury - Developmental Effects	Pascagoula River	1E-06	9E-06	0E+00		1E-05
Methylmercury - Developmental Effects	Escatawpa River	1E-06	1E-04	0E+00		1E-04

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Pascagoula River	4E-07	3E-06	0E+00		3E-06
Methylmercury - Neurological Effects	Escatawpa River	4E-07	4E-05	0E+00		4E-05

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Pascagoula River	4E-10	9E-11	0E+00	2E-10	5E-10
2,3,7,8-TCDD-TEQ	Escatawpa River	4E-10	3E-09	0E+00	2E-10	3E-09
Nickel	Pascagoula River				4E-12	
Nickel	Escatawpa River				4E-12	
Arsenic	Pascagoula River	2E-11	7E-14	0E+00	2E-09	2E-11
Arsenic	Escatawpa River	2E-11	2E-12	0E+00	2E-09	3E-11
Beryllium	Pascagoula River				7E-11	
Beryllium	Escatawpa River				7E-11	
Cadmium	Pascagoula River				3E-10	
Cadmium	Escatawpa River				3E-10	
Chromium VI	Pascagoula River				2E-09	
Chromium VI	Escatawpa River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Pascagoula River	3E-09	0E+00	0E+00	7E-05	3E-09
Manganese	Escatawpa River	3E-09	0E+00	0E+00	7E-05	3E-09
Mercury (elemental)	Pascagoula River				4E-06	
Mercury (elemental)	Escatawpa River				4E-06	
Mercury (divalent)	Pascagoula River	5E-06		0E+00		5E-06
Mercury (divalent)	Escatawpa River	5E-06		0E+00		5E-06
Nickel	Pascagoula River	2E-10	2E-13	0E+00		2E-10
Nickel	Escatawpa River	2E-10	4E-12	0E+00		2E-10
Silver	Pascagoula River	7E-12	0E+00	0E+00		7E-12
Silver	Escatawpa River	7E-12	0E+00	0E+00		7E-12
Thallium	Pascagoula River	1E-08	3E-10	0E+00		1E-08
Thallium	Escatawpa River	1E-08	8E-09	0E+00		2E-08
Antimony	Pascagoula River	1E-08	0E+00	0E+00		1E-08
Antimony	Escatawpa River	1E-08	0E+00	0E+00		1E-08
Arsenic	Pascagoula River	5E-07	1E-09	0E+00		5E-07
Arsenic	Escatawpa River	5E-07	4E-08	0E+00		5E-07
Barium	Pascagoula River	4E-08	0E+00	0E+00	4E-06	4E-08
Barium	Escatawpa River	4E-08	0E+00	0E+00	4E-06	4E-08
Beryllium	Pascagoula River	1E-07	3E-11	0E+00		1E-07
Beryllium	Escatawpa River	1E-07	9E-10	0E+00		1E-07
Cadmium	Pascagoula River	2E-07	8E-09	0E+00		2E-07
Cadmium	Escatawpa River	2E-07	2E-07	0E+00		4E-07
Chromium VI	Pascagoula River	7E-09	5E-12	0E+00		7E-09
Chromium VI	Escatawpa River	7E-09	1E-10	0E+00		7E-09
Chromium III	Pascagoula River	1E-08	5E-14	0E+00		1E-08
Chromium III	Escatawpa River	1E-08	2E-12	0E+00		1E-08
Cobalt	Pascagoula River	7E-10	0E+00	0E+00		7E-10
Cobalt	Escatawpa River	7E-10	0E+00	0E+00		7E-10
Hydrogen Chloride	Pascagoula River				4E-06	
Hydrogen Chloride	Escatawpa River				4E-06	
Selenium	Pascagoula River	2E-09	9E-09	0E+00		1E-08
Selenium	Escatawpa River	2E-09	3E-07	0E+00		3E-07
Chlorine	Pascagoula River				3E-06	
Chlorine	Escatawpa River				3E-06	
Methylmercury - Developmental Effects	Pascagoula River	3E-07	9E-06	0E+00		9E-06
Methylmercury - Developmental Effects	Escatawpa River	3E-07	1E-04	0E+00		1E-04

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Pascagoula River	1E-07	3E-06	0E+00		3E-06
Methylmercury - Neurological Effects	Escatawpa River	1E-07	4E-05	0E+00		4E-05

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Pascagoula River	2E-10	7E-11	0E+00	2E-10	3E-10
2,3,7,8-TCDD-TEQ	Escatawpa River	2E-10	2E-09	0E+00	2E-10	2E-09
Nickel	Pascagoula River				3E-12	
Nickel	Escatawpa River				3E-12	
Arsenic	Pascagoula River	1E-11	5E-14	0E+00	1E-09	1E-11
Arsenic	Escatawpa River	1E-11	1E-12	0E+00	1E-09	1E-11
Beryllium	Pascagoula River				4E-11	
Beryllium	Escatawpa River				4E-11	
Cadmium	Pascagoula River				2E-10	
Cadmium	Escatawpa River				2E-10	
Chromium VI	Pascagoula River				1E-09	
Chromium VI	Escatawpa River				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Pascagoula River	1E-09	0E+00	0E+00	7E-05	1E-09
Manganese	Escatawpa River	1E-09	0E+00	0E+00	7E-05	1E-09
Mercury (elemental)	Pascagoula River				4E-06	
Mercury (elemental)	Escatawpa River				4E-06	
Mercury (divalent)	Pascagoula River	3E-06		0E+00		3E-06
Mercury (divalent)	Escatawpa River	3E-06		0E+00		3E-06
Nickel	Pascagoula River	9E-11	1E-13	0E+00		9E-11
Nickel	Escatawpa River	9E-11	3E-12	0E+00		9E-11
Silver	Pascagoula River	4E-12	0E+00	0E+00		4E-12
Silver	Escatawpa River	4E-12	0E+00	0E+00		4E-12
Thallium	Pascagoula River	7E-09	2E-10	0E+00		7E-09
Thallium	Escatawpa River	7E-09	6E-09	0E+00		1E-08
Antimony	Pascagoula River	8E-09	0E+00	0E+00		8E-09
Antimony	Escatawpa River	8E-09	0E+00	0E+00		8E-09
Arsenic	Pascagoula River	2E-07	9E-10	0E+00		2E-07
Arsenic	Escatawpa River	2E-07	3E-08	0E+00		3E-07
Barium	Pascagoula River	2E-08	0E+00	0E+00	4E-06	2E-08
Barium	Escatawpa River	2E-08	0E+00	0E+00	4E-06	2E-08
Beryllium	Pascagoula River	6E-08	2E-11	0E+00		6E-08
Beryllium	Escatawpa River	6E-08	6E-10	0E+00		6E-08
Cadmium	Pascagoula River	1E-07	5E-09	0E+00		1E-07
Cadmium	Escatawpa River	1E-07	2E-07	0E+00		3E-07
Chromium VI	Pascagoula River	4E-09	4E-12	0E+00		4E-09
Chromium VI	Escatawpa River	4E-09	1E-10	0E+00		4E-09
Chromium III	Pascagoula River	5E-09	4E-14	0E+00		5E-09
Chromium III	Escatawpa River	5E-09	1E-12	0E+00		5E-09
Cobalt	Pascagoula River	4E-10	0E+00	0E+00		4E-10
Cobalt	Escatawpa River	4E-10	0E+00	0E+00		4E-10
Hydrogen Chloride	Pascagoula River				4E-06	
Hydrogen Chloride	Escatawpa River				4E-06	
Selenium	Pascagoula River	8E-10	7E-09	0E+00		7E-09
Selenium	Escatawpa River	8E-10	2E-07	0E+00		2E-07
Chlorine	Pascagoula River				3E-06	
Chlorine	Escatawpa River				3E-06	
Methylmercury - Developmental Effects	Pascagoula River	2E-07	6E-06	0E+00		6E-06
Methylmercury - Developmental Effects	Escatawpa River	2E-07	9E-05	0E+00		1E-04

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Pascagoula River	5E-08	2E-06	0E+00		2E-06
Methylmercury - Neurological Effects	Escatawpa River	5E-08	3E-05	0E+00		3E-05

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Pascagoula River	1E-10	1E-10	0E+00	2E-10	3E-10
2,3,7,8-TCDD-TEQ	Escatawpa River	1E-10	4E-09	0E+00	2E-10	4E-09
Nickel	Pascagoula River				4E-12	
Nickel	Escatawpa River				4E-12	
Arsenic	Pascagoula River	1E-11	1E-13	0E+00	2E-09	1E-11
Arsenic	Escatawpa River	1E-11	3E-12	0E+00	2E-09	1E-11
Beryllium	Pascagoula River				6E-11	
Beryllium	Escatawpa River				6E-11	
Cadmium	Pascagoula River				3E-10	
Cadmium	Escatawpa River				3E-10	
Chromium VI	Pascagoula River				2E-09	
Chromium VI	Escatawpa River				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Pascagoula River	6E-10	0E+00	0E+00	7E-05	6E-10
Manganese	Escatawpa River	6E-10	0E+00	0E+00	7E-05	6E-10
Mercury (elemental)	Pascagoula River				4E-06	
Mercury (elemental)	Escatawpa River				4E-06	
Mercury (divalent)	Pascagoula River	1E-06		0E+00		1E-06
Mercury (divalent)	Escatawpa River	1E-06		0E+00		1E-06
Nickel	Pascagoula River	4E-11	1E-13	0E+00		4E-11
Nickel	Escatawpa River	4E-11	3E-12	0E+00		4E-11
Silver	Pascagoula River	1E-12	0E+00	0E+00		1E-12
Silver	Escatawpa River	1E-12	0E+00	0E+00		1E-12
Thallium	Pascagoula River	3E-09	2E-10	0E+00		3E-09
Thallium	Escatawpa River	3E-09	6E-09	0E+00		8E-09
Antimony	Pascagoula River	3E-09	0E+00	0E+00		3E-09
Antimony	Escatawpa River	3E-09	0E+00	0E+00		3E-09
Arsenic	Pascagoula River	1E-07	9E-10	0E+00		1E-07
Arsenic	Escatawpa River	1E-07	3E-08	0E+00		1E-07
Barium	Pascagoula River	8E-09	0E+00	0E+00	4E-06	8E-09
Barium	Escatawpa River	8E-09	0E+00	0E+00	4E-06	8E-09
Beryllium	Pascagoula River	3E-08	2E-11	0E+00		3E-08
Beryllium	Escatawpa River	3E-08	6E-10	0E+00		3E-08
Cadmium	Pascagoula River	4E-08	5E-09	0E+00		5E-08
Cadmium	Escatawpa River	4E-08	2E-07	0E+00		2E-07
Chromium VI	Pascagoula River	1E-09	4E-12	0E+00		1E-09
Chromium VI	Escatawpa River	1E-09	1E-10	0E+00		2E-09
Chromium III	Pascagoula River	2E-09	4E-14	0E+00		2E-09
Chromium III	Escatawpa River	2E-09	1E-12	0E+00		2E-09
Cobalt	Pascagoula River	1E-10	0E+00	0E+00		1E-10
Cobalt	Escatawpa River	1E-10	0E+00	0E+00		1E-10
Hydrogen Chloride	Pascagoula River				4E-06	
Hydrogen Chloride	Escatawpa River				4E-06	
Selenium	Pascagoula River	3E-10	7E-09	0E+00		7E-09
Selenium	Escatawpa River	3E-10	2E-07	0E+00		2E-07
Chlorine	Pascagoula River				3E-06	
Chlorine	Escatawpa River				3E-06	
Methylmercury - Developmental Effects	Pascagoula River	6E-08	6E-06	0E+00		6E-06
Methylmercury - Developmental Effects	Escatawpa River	6E-08	9E-05	0E+00		1E-04

Table IX-E20. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 904) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Methylmercury - Neurological Effects	Pascagoula River	2E-08	2E-06	0E+00		2E-06
Methylmercury - Neurological Effects	Escatawpa River	2E-08	3E-05	0E+00		3E-05

Table IX-E21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	1E-10	5E-11	3E-10	6E-08	7E-07	5E-09	2E-08	1E-08	2E-08		6E-10	8E-07
Nickel												5E-12	
Arsenic	2E-12	9E-13	4E-13	2E-12	6E-12	1E-11	4E-13			2E-11		8E-11	4E-11
Beryllium												5E-12	
Cadmium												1E-09	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-09	8E-09	4E-09	2E-08	3E-09	1E-07	2E-10			0E+00		7E-05	2E-07
Mercury (elemental)												8E-05	
Mercury (divalent)	NA	2E-04	2E-07	4E-04	2E-04	3E-03	8E-08						4E-03
Nickel	7E-10	3E-10	1E-10	7E-10	7E-09	7E-08	4E-10			2E-09			8E-08
Silver	4E-11	4E-10	1E-10	1E-09	7E-09	3E-06	3E-10			0E+00			3E-06
Thallium	1E-05	8E-07	5E-08	2E-06	2E-04	7E-04	3E-05			6E-04			2E-03
Antimony	2E-10	7E-10	2E-10	2E-09	3E-09	2E-08	1E-10			0E+00			2E-08
Arsenic	6E-08	2E-08	1E-08	5E-08	1E-07	3E-07	1E-08			5E-07			1E-06
Barium	3E-08	3E-09	7E-10	5E-09	1E-09	2E-07	2E-10			0E+00		1E-06	2E-07
Beryllium	2E-08	2E-10	4E-11	6E-10	3E-09	1E-10	8E-10			2E-09			2E-08
Cadmium	2E-06	2E-06	1E-06	4E-06	2E-07	7E-07	4E-08			2E-04			2E-04
Chromium VI	4E-08	1E-08	5E-09	3E-08	4E-07	7E-06	3E-08			1E-07			8E-06
Chromium III	2E-08	2E-10	1E-10	6E-10	1E-08	2E-07	5E-09			3E-12			2E-07
Cobalt	2E-09	4E-10	2E-12	1E-09	4E-08	2E-07	3E-09			0E+00			2E-07
Hydrogen Chloride												2E-03	
Selenium	2E-08	2E-08	1E-08	5E-08	4E-07	3E-05	1E-06			4E-04			4E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	1E-07	7E-05	3E-08	7E-05	1E-04	2E-03	3E-08			1E-04			3E-03
Methylmercury - Neurological Effects	4E-08	2E-05	9E-09	2E-05	5E-05	7E-04	9E-09			5E-05			9E-04

Table IX-E21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	9E-11	4E-11	3E-10	1E-07	5E-07	4E-09	2E-08	1E-08	2E-08		6E-10	6E-07
Nickel												5E-12	
Arsenic	9E-13	7E-13	3E-13	3E-12	9E-12	7E-12	3E-13			2E-11		9E-11	4E-11
Beryllium												5E-12	
Cadmium												1E-09	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	5E-09	3E-09	2E-08	3E-09	7E-08	1E-10			0E+00		7E-05	1E-07
Mercury (elemental)												8E-05	
Mercury (divalent)	NA	1E-04	1E-07	4E-04	2E-04	1E-03	5E-08						2E-03
Nickel	2E-10	2E-10	9E-11	7E-10	9E-09	4E-08	3E-10			1E-09			5E-08
Silver	1E-11	2E-10	8E-11	1E-09	8E-09	1E-06	2E-10			0E+00			1E-06
Thallium	3E-06	4E-07	3E-08	2E-06	3E-04	3E-04	2E-05			4E-04			1E-03
Antimony	5E-11	4E-10	1E-10	2E-09	3E-09	8E-09	7E-11			0E+00			1E-08
Arsenic	2E-08	1E-08	7E-09	5E-08	2E-07	1E-07	6E-09			4E-07			8E-07
Barium	7E-09	1E-09	5E-10	5E-09	1E-09	8E-08	1E-10			0E+00		1E-06	9E-08
Beryllium	4E-09	1E-10	3E-11	6E-10	3E-09	5E-11	5E-10			1E-09			1E-08
Cadmium	6E-07	1E-06	7E-07	4E-06	2E-07	4E-07	2E-08			1E-04			1E-04
Chromium VI	1E-08	6E-09	3E-09	3E-08	5E-07	3E-06	2E-08			7E-08			4E-06
Chromium III	5E-09	1E-10	1E-10	6E-10	2E-08	9E-08	3E-09			2E-12			1E-07
Cobalt	5E-10	2E-10	2E-12	1E-09	4E-08	1E-07	2E-09			0E+00			1E-07
Hydrogen Chloride												2E-03	
Selenium	5E-09	1E-08	1E-08	5E-08	5E-07	2E-05	8E-07			3E-04			3E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	3E-08	4E-05	2E-08	7E-05	2E-04	1E-03	2E-08			1E-04			2E-03
Methylmercury - Neurological Effects	9E-09	1E-05	6E-09	2E-05	6E-05	4E-04	5E-09			3E-05			5E-04

Table IX-E21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	7E-11	3E-11	2E-10	5E-08	2E-07	3E-09	1E-08	7E-09	9E-09		4E-10	3E-07
Nickel												3E-12	
Arsenic	5E-13	5E-13	2E-13	1E-12	4E-12	3E-12	2E-13			1E-11		6E-11	2E-11
Beryllium												3E-12	
Cadmium												7E-10	
Chromium VI												3E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-09	4E-09	2E-09	8E-09	2E-09	3E-08	9E-11			0E+00		7E-05	5E-08
Mercury (elemental)												8E-05	
Mercury (divalent)	2E-07	9E-05	1E-07	2E-04	1E-04	6E-04	3E-08			0E+00			1E-03
Nickel	9E-11	1E-10	6E-11	4E-10	4E-09	2E-08	2E-10			7E-10			2E-08
Silver	5E-12	2E-10	6E-11	6E-10	4E-09	6E-07	1E-10			0E+00			6E-07
Thallium	1E-06	3E-07	2E-08	1E-06	1E-04	2E-04	1E-05			2E-04			5E-04
Antimony	2E-11	3E-10	9E-11	9E-10	1E-09	4E-09	4E-11			0E+00			7E-09
Arsenic	8E-09	1E-08	5E-09	3E-08	8E-08	6E-08	4E-09			2E-07			4E-07
Barium	4E-09	1E-09	3E-10	3E-09	7E-10	4E-08	7E-11			0E+00		1E-06	4E-08
Beryllium	2E-09	1E-10	2E-11	3E-10	1E-09	2E-11	3E-10			7E-10			5E-09
Cadmium	3E-07	9E-07	5E-07	2E-06	1E-07	2E-07	1E-08			7E-05			7E-05
Chromium VI	6E-09	5E-09	2E-09	2E-08	2E-07	2E-06	1E-08			4E-08			2E-06
Chromium III	3E-09	9E-11	7E-11	3E-10	8E-09	4E-08	2E-09			1E-12			6E-08
Cobalt	3E-10	2E-10	1E-12	5E-10	2E-08	5E-08	1E-09			0E+00			7E-08
Hydrogen Chloride												2E-03	
Selenium	3E-09	8E-09	7E-09	3E-08	2E-07	8E-06	5E-07			2E-04			2E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	1E-08	3E-05	1E-08	4E-05	8E-05	5E-04	1E-08			6E-05			7E-04
Methylmercury - Neurological Effects	5E-09	1E-05	4E-09	1E-05	3E-05	2E-04	3E-09			2E-05			2E-04

Table IX-E21. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	2E-10	6E-11	3E-10	1E-07	2E-07	4E-09	2E-08	1E-08	2E-08		6E-10	3E-07
Nickel												5E-12	
Arsenic	4E-13	1E-12	5E-13	2E-12	1E-11	3E-12	4E-13			2E-11		8E-11	4E-11
Beryllium												5E-12	
Cadmium												1E-09	
Chromium VI												4E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-10	5E-09	2E-09	8E-09	2E-09	1E-08	8E-11			0E+00		7E-05	3E-08
Mercury (elemental)												8E-05	
Mercury (divalent)	1E-07	1E-04	1E-07	2E-04	1E-04	3E-04	3E-08			0E+00			7E-04
Nickel	4E-11	2E-10	7E-11	4E-10	4E-09	7E-09	1E-10			8E-10			1E-08
Silver	2E-12	3E-10	7E-11	5E-10	4E-09	3E-07	9E-11			0E+00			3E-07
Thallium	6E-07	4E-07	3E-08	1E-06	1E-04	7E-05	9E-06			3E-04			5E-04
Antimony	1E-11	4E-10	1E-10	8E-10	2E-09	2E-09	4E-11			0E+00			5E-09
Arsenic	3E-09	1E-08	5E-09	3E-08	9E-08	3E-08	4E-09			2E-07			4E-07
Barium	1E-09	1E-09	4E-10	2E-09	8E-10	2E-08	6E-11			0E+00		1E-06	2E-08
Beryllium	9E-10	1E-10	2E-11	3E-10	2E-09	1E-11	3E-10			7E-10			4E-09
Cadmium	1E-07	1E-06	6E-07	2E-06	1E-07	7E-08	1E-08			8E-05			8E-05
Chromium VI	2E-09	7E-09	3E-09	2E-08	3E-07	7E-07	9E-09			4E-08			1E-06
Chromium III	1E-09	1E-10	8E-11	3E-10	9E-09	2E-08	2E-09			1E-12			3E-08
Cobalt	1E-10	2E-10	1E-12	5E-10	2E-08	2E-08	1E-09			0E+00			4E-08
Hydrogen Chloride												2E-03	
Selenium	1E-09	1E-08	8E-09	2E-08	2E-07	3E-06	5E-07			2E-04			2E-04
Chlorine												8E-03	
Methylmercury - Developmental Effects	6E-09	4E-05	1E-08	3E-05	9E-05	2E-04	9E-09			6E-05			5E-04
Methylmercury - Neurological Effects	2E-09	1E-05	5E-09	1E-05	3E-05	8E-05	3E-09			2E-05			2E-04

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-09	7E-11	0E+00	6E-10	1E-09
2,3,7,8-TCDD-TEQ	Copperas Creek	1E-09	4E-09	0E+00	6E-10	5E-09
2,3,7,8-TCDD-TEQ	Eliza Creek	1E-09	2E-09	0E+00	6E-10	3E-09
2,3,7,8-TCDD-TEQ	Muscatine Slough	1E-09	1E-08	0E+00	6E-10	1E-08
Nickel	Mississippi River				5E-12	
Nickel	Copperas Creek				5E-12	
Nickel	Eliza Creek				5E-12	
Nickel	Muscatine Slough				5E-12	
Arsenic	Mississippi River	2E-12	2E-15	0E+00	8E-11	2E-12
Arsenic	Copperas Creek	2E-12	7E-14	0E+00	8E-11	2E-12
Arsenic	Eliza Creek	2E-12	5E-14	0E+00	8E-11	2E-12
Arsenic	Muscatine Slough	2E-12	9E-11	0E+00	8E-11	9E-11
Beryllium	Mississippi River				5E-12	
Beryllium	Copperas Creek				5E-12	
Beryllium	Eliza Creek				5E-12	
Beryllium	Muscatine Slough				5E-12	
Cadmium	Mississippi River				1E-09	
Cadmium	Copperas Creek				1E-09	
Cadmium	Eliza Creek				1E-09	
Cadmium	Muscatine Slough				1E-09	
Chromium VI	Mississippi River				4E-09	
Chromium VI	Copperas Creek				4E-09	
Chromium VI	Eliza Creek				4E-09	
Chromium VI	Muscatine Slough				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	8E-09	0E+00	0E+00	7E-05	8E-09
Manganese	Copperas Creek	8E-09	0E+00	0E+00	7E-05	8E-09
Manganese	Eliza Creek	8E-09	0E+00	0E+00	7E-05	8E-09
Manganese	Muscatine Slough	8E-09	0E+00	0E+00	7E-05	8E-09
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Copperas Creek				8E-05	
Mercury (elemental)	Eliza Creek				8E-05	
Mercury (elemental)	Muscatine Slough				8E-05	
Mercury (divalent)	Mississippi River	2E-06		0E+00		2E-06
Mercury (divalent)	Copperas Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Eliza Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Muscatine Slough	2E-06		0E+00		2E-06
Nickel	Mississippi River	7E-10	2E-13	0E+00		7E-10
Nickel	Copperas Creek	7E-10	6E-12	0E+00		7E-10
Nickel	Eliza Creek	7E-10	4E-12	0E+00		7E-10
Nickel	Muscatine Slough	7E-10	1E-08	0E+00		1E-08
Silver	Mississippi River	4E-11	0E+00	0E+00		4E-11
Silver	Copperas Creek	4E-11	0E+00	0E+00		4E-11
Silver	Eliza Creek	4E-11	0E+00	0E+00		4E-11
Silver	Muscatine Slough	4E-11	0E+00	0E+00		4E-11
Thallium	Mississippi River	1E-05	8E-08	0E+00		1E-05
Thallium	Copperas Creek	1E-05	3E-06	0E+00		1E-05
Thallium	Eliza Creek	1E-05	2E-06	0E+00		1E-05
Thallium	Muscatine Slough	1E-05	1E-03	0E+00		1E-03

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	2E-10	0E+00	0E+00		2E-10
Antimony	Copperas Creek	2E-10	0E+00	0E+00		2E-10
Antimony	Eliza Creek	2E-10	0E+00	0E+00		2E-10
Antimony	Muscatine Slough	2E-10	0E+00	0E+00		2E-10
Arsenic	Mississippi River	6E-08	6E-11	0E+00		6E-08
Arsenic	Copperas Creek	6E-08	2E-09	0E+00		6E-08
Arsenic	Eliza Creek	6E-08	1E-09	0E+00		6E-08
Arsenic	Muscatine Slough	6E-08	2E-06	0E+00		2E-06
Barium	Mississippi River	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	Copperas Creek	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	Eliza Creek	3E-08	0E+00	0E+00	1E-06	3E-08
Barium	Muscatine Slough	3E-08	0E+00	0E+00	1E-06	3E-08
Beryllium	Mississippi River	2E-08	3E-12	0E+00		2E-08
Beryllium	Copperas Creek	2E-08	2E-10	0E+00		2E-08
Beryllium	Eliza Creek	2E-08	1E-10	0E+00		2E-08
Beryllium	Muscatine Slough	2E-08	1E-09	0E+00		2E-08
Cadmium	Mississippi River	2E-06	3E-08	0E+00		2E-06
Cadmium	Copperas Creek	2E-06	1E-06	0E+00		3E-06
Cadmium	Eliza Creek	2E-06	6E-07	0E+00		3E-06
Cadmium	Muscatine Slough	2E-06	3E-04	0E+00		3E-04
Chromium VI	Mississippi River	4E-08	1E-11	0E+00		4E-08
Chromium VI	Copperas Creek	4E-08	3E-10	0E+00		4E-08
Chromium VI	Eliza Creek	4E-08	2E-10	0E+00		4E-08
Chromium VI	Muscatine Slough	4E-08	6E-07	0E+00		7E-07
Chromium III	Mississippi River	2E-08	9E-14	0E+00		2E-08
Chromium III	Copperas Creek	2E-08	5E-12	0E+00		2E-08
Chromium III	Eliza Creek	2E-08	4E-12	0E+00		2E-08
Chromium III	Muscatine Slough	2E-08	9E-12	0E+00		2E-08
Cobalt	Mississippi River	2E-09	0E+00	0E+00		2E-09
Cobalt	Copperas Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Eliza Creek	2E-09	0E+00	0E+00		2E-09
Cobalt	Muscatine Slough	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Mississippi River				2E-03	
Hydrogen Chloride	Copperas Creek				2E-03	
Hydrogen Chloride	Eliza Creek				2E-03	
Hydrogen Chloride	Muscatine Slough				2E-03	
Selenium	Mississippi River	2E-08	4E-08	0E+00		6E-08
Selenium	Copperas Creek	2E-08	1E-06	0E+00		1E-06
Selenium	Eliza Creek	2E-08	8E-07	0E+00		8E-07
Selenium	Muscatine Slough	2E-08	8E-03	0E+00		8E-03
Chlorine	Mississippi River				8E-03	
Chlorine	Copperas Creek				8E-03	
Chlorine	Eliza Creek				8E-03	
Chlorine	Muscatine Slough				8E-03	
Methylmercury - Developmental Effects	Mississippi River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Copperas Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Eliza Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Muscatine Slough	1E-07	0E+00	0E+00		1E-07

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	4E-08	0E+00	0E+00		4E-08
Methylmercury - Neurological Effects	Copperas Creek	4E-08	0E+00	0E+00		4E-08
Methylmercury - Neurological Effects	Eliza Creek	4E-08	0E+00	0E+00		4E-08
Methylmercury - Neurological Effects	Muscatine Slough	4E-08	0E+00	0E+00		4E-08

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	4E-10	9E-11	0E+00	6E-10	5E-10
2,3,7,8-TCDD-TEQ	Copperas Creek	4E-10	5E-09	0E+00	6E-10	5E-09
2,3,7,8-TCDD-TEQ	Eliza Creek	4E-10	3E-09	0E+00	6E-10	4E-09
2,3,7,8-TCDD-TEQ	Muscatine Slough	4E-10	2E-08	0E+00	6E-10	2E-08
Nickel	Mississippi River				5E-12	
Nickel	Copperas Creek				5E-12	
Nickel	Eliza Creek				5E-12	
Nickel	Muscatine Slough				5E-12	
Arsenic	Mississippi River	9E-13	3E-15	0E+00	9E-11	9E-13
Arsenic	Copperas Creek	9E-13	1E-13	0E+00	9E-11	9E-13
Arsenic	Eliza Creek	9E-13	6E-14	0E+00	9E-11	9E-13
Arsenic	Muscatine Slough	9E-13	1E-10	0E+00	9E-11	1E-10
Beryllium	Mississippi River				5E-12	
Beryllium	Copperas Creek				5E-12	
Beryllium	Eliza Creek				5E-12	
Beryllium	Muscatine Slough				5E-12	
Cadmium	Mississippi River				1E-09	
Cadmium	Copperas Creek				1E-09	
Cadmium	Eliza Creek				1E-09	
Cadmium	Muscatine Slough				1E-09	
Chromium VI	Mississippi River				4E-09	
Chromium VI	Copperas Creek				4E-09	
Chromium VI	Eliza Creek				4E-09	
Chromium VI	Muscatine Slough				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-09	0E+00	0E+00	7E-05	2E-09
Manganese	Copperas Creek	2E-09	0E+00	0E+00	7E-05	2E-09
Manganese	Eliza Creek	2E-09	0E+00	0E+00	7E-05	2E-09
Manganese	Muscatine Slough	2E-09	0E+00	0E+00	7E-05	2E-09
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Copperas Creek				8E-05	
Mercury (elemental)	Eliza Creek				8E-05	
Mercury (elemental)	Muscatine Slough				8E-05	
Mercury (divalent)	Mississippi River	5E-07		0E+00		5E-07
Mercury (divalent)	Copperas Creek	5E-07		0E+00		5E-07
Mercury (divalent)	Eliza Creek	5E-07		0E+00		5E-07
Mercury (divalent)	Muscatine Slough	5E-07		0E+00		5E-07
Nickel	Mississippi River	2E-10	2E-13	0E+00		2E-10
Nickel	Copperas Creek	2E-10	6E-12	0E+00		2E-10
Nickel	Eliza Creek	2E-10	4E-12	0E+00		2E-10
Nickel	Muscatine Slough	2E-10	1E-08	0E+00		1E-08
Silver	Mississippi River	1E-11	0E+00	0E+00		1E-11
Silver	Copperas Creek	1E-11	0E+00	0E+00		1E-11
Silver	Eliza Creek	1E-11	0E+00	0E+00		1E-11
Silver	Muscatine Slough	1E-11	0E+00	0E+00		1E-11
Thallium	Mississippi River	3E-06	8E-08	0E+00		3E-06
Thallium	Copperas Creek	3E-06	3E-06	0E+00		6E-06
Thallium	Eliza Creek	3E-06	2E-06	0E+00		5E-06
Thallium	Muscatine Slough	3E-06	1E-03	0E+00		1E-03

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	5E-11	0E+00	0E+00		5E-11
Antimony	Copperas Creek	5E-11	0E+00	0E+00		5E-11
Antimony	Eliza Creek	5E-11	0E+00	0E+00		5E-11
Antimony	Muscatine Slough	5E-11	0E+00	0E+00		5E-11
Arsenic	Mississippi River	2E-08	6E-11	0E+00		2E-08
Arsenic	Copperas Creek	2E-08	2E-09	0E+00		2E-08
Arsenic	Eliza Creek	2E-08	1E-09	0E+00		2E-08
Arsenic	Muscatine Slough	2E-08	2E-06	0E+00		2E-06
Barium	Mississippi River	7E-09	0E+00	0E+00	1E-06	7E-09
Barium	Copperas Creek	7E-09	0E+00	0E+00	1E-06	7E-09
Barium	Eliza Creek	7E-09	0E+00	0E+00	1E-06	7E-09
Barium	Muscatine Slough	7E-09	0E+00	0E+00	1E-06	7E-09
Beryllium	Mississippi River	4E-09	3E-12	0E+00		4E-09
Beryllium	Copperas Creek	4E-09	2E-10	0E+00		5E-09
Beryllium	Eliza Creek	4E-09	1E-10	0E+00		5E-09
Beryllium	Muscatine Slough	4E-09	1E-09	0E+00		6E-09
Cadmium	Mississippi River	6E-07	3E-08	0E+00		6E-07
Cadmium	Copperas Creek	6E-07	1E-06	0E+00		2E-06
Cadmium	Eliza Creek	6E-07	6E-07	0E+00		1E-06
Cadmium	Muscatine Slough	6E-07	3E-04	0E+00		3E-04
Chromium VI	Mississippi River	1E-08	1E-11	0E+00		1E-08
Chromium VI	Copperas Creek	1E-08	3E-10	0E+00		1E-08
Chromium VI	Eliza Creek	1E-08	2E-10	0E+00		1E-08
Chromium VI	Muscatine Slough	1E-08	6E-07	0E+00		6E-07
Chromium III	Mississippi River	5E-09	9E-14	0E+00		5E-09
Chromium III	Copperas Creek	5E-09	5E-12	0E+00		5E-09
Chromium III	Eliza Creek	5E-09	4E-12	0E+00		5E-09
Chromium III	Muscatine Slough	5E-09	9E-12	0E+00		5E-09
Cobalt	Mississippi River	5E-10	0E+00	0E+00		5E-10
Cobalt	Copperas Creek	5E-10	0E+00	0E+00		5E-10
Cobalt	Eliza Creek	5E-10	0E+00	0E+00		5E-10
Cobalt	Muscatine Slough	5E-10	0E+00	0E+00		5E-10
Hydrogen Chloride	Mississippi River				2E-03	
Hydrogen Chloride	Copperas Creek				2E-03	
Hydrogen Chloride	Eliza Creek				2E-03	
Hydrogen Chloride	Muscatine Slough				2E-03	
Selenium	Mississippi River	5E-09	4E-08	0E+00		5E-08
Selenium	Copperas Creek	5E-09	1E-06	0E+00		1E-06
Selenium	Eliza Creek	5E-09	8E-07	0E+00		8E-07
Selenium	Muscatine Slough	5E-09	8E-03	0E+00		8E-03
Chlorine	Mississippi River				8E-03	
Chlorine	Copperas Creek				8E-03	
Chlorine	Eliza Creek				8E-03	
Chlorine	Muscatine Slough				8E-03	
Methylmercury - Developmental Effects	Mississippi River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Copperas Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Eliza Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Muscatine Slough	3E-08	0E+00	0E+00		3E-08

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	9E-09	0E+00	0E+00		9E-09
Methylmercury - Neurological Effects	Copperas Creek	9E-09	0E+00	0E+00		9E-09
Methylmercury - Neurological Effects	Eliza Creek	9E-09	0E+00	0E+00		9E-09
Methylmercury - Neurological Effects	Muscatine Slough	9E-09	0E+00	0E+00		9E-09

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-10	7E-11	0E+00	4E-10	3E-10
2,3,7,8-TCDD-TEQ	Copperas Creek	2E-10	4E-09	0E+00	4E-10	4E-09
2,3,7,8-TCDD-TEQ	Eliza Creek	2E-10	2E-09	0E+00	4E-10	2E-09
2,3,7,8-TCDD-TEQ	Muscatine Slough	2E-10	1E-08	0E+00	4E-10	1E-08
Nickel	Mississippi River				3E-12	
Nickel	Copperas Creek				3E-12	
Nickel	Eliza Creek				3E-12	
Nickel	Muscatine Slough				3E-12	
Arsenic	Mississippi River	5E-13	2E-15	0E+00	6E-11	5E-13
Arsenic	Copperas Creek	5E-13	7E-14	0E+00	6E-11	5E-13
Arsenic	Eliza Creek	5E-13	5E-14	0E+00	6E-11	5E-13
Arsenic	Muscatine Slough	5E-13	9E-11	0E+00	6E-11	9E-11
Beryllium	Mississippi River				3E-12	
Beryllium	Copperas Creek				3E-12	
Beryllium	Eliza Creek				3E-12	
Beryllium	Muscatine Slough				3E-12	
Cadmium	Mississippi River				7E-10	
Cadmium	Copperas Creek				7E-10	
Cadmium	Eliza Creek				7E-10	
Cadmium	Muscatine Slough				7E-10	
Chromium VI	Mississippi River				3E-09	
Chromium VI	Copperas Creek				3E-09	
Chromium VI	Eliza Creek				3E-09	
Chromium VI	Muscatine Slough				3E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-09	0E+00	0E+00	7E-05	1E-09
Manganese	Copperas Creek	1E-09	0E+00	0E+00	7E-05	1E-09
Manganese	Eliza Creek	1E-09	0E+00	0E+00	7E-05	1E-09
Manganese	Muscatine Slough	1E-09	0E+00	0E+00	7E-05	1E-09
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Copperas Creek				8E-05	
Mercury (elemental)	Eliza Creek				8E-05	
Mercury (elemental)	Muscatine Slough				8E-05	
Mercury (divalent)	Mississippi River	2E-07		0E+00		2E-07
Mercury (divalent)	Copperas Creek	2E-07		0E+00		2E-07
Mercury (divalent)	Eliza Creek	2E-07		0E+00		2E-07
Mercury (divalent)	Muscatine Slough	2E-07		0E+00		2E-07
Nickel	Mississippi River	9E-11	1E-13	0E+00		9E-11
Nickel	Copperas Creek	9E-11	5E-12	0E+00		1E-10
Nickel	Eliza Creek	9E-11	3E-12	0E+00		9E-11
Nickel	Muscatine Slough	9E-11	8E-09	0E+00		8E-09
Silver	Mississippi River	5E-12	0E+00	0E+00		5E-12
Silver	Copperas Creek	5E-12	0E+00	0E+00		5E-12
Silver	Eliza Creek	5E-12	0E+00	0E+00		5E-12
Silver	Muscatine Slough	5E-12	0E+00	0E+00		5E-12
Thallium	Mississippi River	1E-06	6E-08	0E+00		2E-06
Thallium	Copperas Creek	1E-06	2E-06	0E+00		3E-06
Thallium	Eliza Creek	1E-06	1E-06	0E+00		3E-06
Thallium	Muscatine Slough	1E-06	1E-03	0E+00		1E-03

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	2E-11	0E+00	0E+00		2E-11
Antimony	Copperas Creek	2E-11	0E+00	0E+00		2E-11
Antimony	Eliza Creek	2E-11	0E+00	0E+00		2E-11
Antimony	Muscatine Slough	2E-11	0E+00	0E+00		2E-11
Arsenic	Mississippi River	8E-09	4E-11	0E+00		8E-09
Arsenic	Copperas Creek	8E-09	1E-09	0E+00		9E-09
Arsenic	Eliza Creek	8E-09	8E-10	0E+00		9E-09
Arsenic	Muscatine Slough	8E-09	2E-06	0E+00		2E-06
Barium	Mississippi River	4E-09	0E+00	0E+00	1E-06	4E-09
Barium	Copperas Creek	4E-09	0E+00	0E+00	1E-06	4E-09
Barium	Eliza Creek	4E-09	0E+00	0E+00	1E-06	4E-09
Barium	Muscatine Slough	4E-09	0E+00	0E+00	1E-06	4E-09
Beryllium	Mississippi River	2E-09	2E-12	0E+00		2E-09
Beryllium	Copperas Creek	2E-09	1E-10	0E+00		2E-09
Beryllium	Eliza Creek	2E-09	8E-11	0E+00		2E-09
Beryllium	Muscatine Slough	2E-09	9E-10	0E+00		3E-09
Cadmium	Mississippi River	3E-07	2E-08	0E+00		3E-07
Cadmium	Copperas Creek	3E-07	7E-07	0E+00		1E-06
Cadmium	Eliza Creek	3E-07	5E-07	0E+00		8E-07
Cadmium	Muscatine Slough	3E-07	2E-04	0E+00		2E-04
Chromium VI	Mississippi River	6E-09	7E-12	0E+00		6E-09
Chromium VI	Copperas Creek	6E-09	2E-10	0E+00		6E-09
Chromium VI	Eliza Creek	6E-09	2E-10	0E+00		6E-09
Chromium VI	Muscatine Slough	6E-09	4E-07	0E+00		5E-07
Chromium III	Mississippi River	3E-09	6E-14	0E+00		3E-09
Chromium III	Copperas Creek	3E-09	4E-12	0E+00		3E-09
Chromium III	Eliza Creek	3E-09	3E-12	0E+00		3E-09
Chromium III	Muscatine Slough	3E-09	6E-12	0E+00		3E-09
Cobalt	Mississippi River	3E-10	0E+00	0E+00		3E-10
Cobalt	Copperas Creek	3E-10	0E+00	0E+00		3E-10
Cobalt	Eliza Creek	3E-10	0E+00	0E+00		3E-10
Cobalt	Muscatine Slough	3E-10	0E+00	0E+00		3E-10
Hydrogen Chloride	Mississippi River				2E-03	
Hydrogen Chloride	Copperas Creek				2E-03	
Hydrogen Chloride	Eliza Creek				2E-03	
Hydrogen Chloride	Muscatine Slough				2E-03	
Selenium	Mississippi River	3E-09	3E-08	0E+00		3E-08
Selenium	Copperas Creek	3E-09	9E-07	0E+00		9E-07
Selenium	Eliza Creek	3E-09	6E-07	0E+00		6E-07
Selenium	Muscatine Slough	3E-09	6E-03	0E+00		6E-03
Chlorine	Mississippi River				8E-03	
Chlorine	Copperas Creek				8E-03	
Chlorine	Eliza Creek				8E-03	
Chlorine	Muscatine Slough				8E-03	
Methylmercury - Developmental Effects	Mississippi River	1E-08	0E+00	0E+00		1E-08
Methylmercury - Developmental Effects	Copperas Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Developmental Effects	Eliza Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Developmental Effects	Muscatine Slough	1E-08	0E+00	0E+00		1E-08

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	5E-09	0E+00	0E+00		5E-09
Methylmercury - Neurological Effects	Copperas Creek	5E-09	0E+00	0E+00		5E-09
Methylmercury - Neurological Effects	Eliza Creek	5E-09	0E+00	0E+00		5E-09
Methylmercury - Neurological Effects	Muscatine Slough	5E-09	0E+00	0E+00		5E-09

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-10	1E-10	0E+00	6E-10	3E-10
2,3,7,8-TCDD-TEQ	Copperas Creek	2E-10	6E-09	0E+00	6E-10	6E-09
2,3,7,8-TCDD-TEQ	Eliza Creek	2E-10	4E-09	0E+00	6E-10	4E-09
2,3,7,8-TCDD-TEQ	Muscatine Slough	2E-10	2E-08	0E+00	6E-10	2E-08
Nickel	Mississippi River				5E-12	
Nickel	Copperas Creek				5E-12	
Nickel	Eliza Creek				5E-12	
Nickel	Muscatine Slough				5E-12	
Arsenic	Mississippi River	4E-13	4E-15	0E+00	8E-11	4E-13
Arsenic	Copperas Creek	4E-13	1E-13	0E+00	8E-11	5E-13
Arsenic	Eliza Creek	4E-13	9E-14	0E+00	8E-11	4E-13
Arsenic	Muscatine Slough	4E-13	2E-10	0E+00	8E-11	2E-10
Beryllium	Mississippi River				5E-12	
Beryllium	Copperas Creek				5E-12	
Beryllium	Eliza Creek				5E-12	
Beryllium	Muscatine Slough				5E-12	
Cadmium	Mississippi River				1E-09	
Cadmium	Copperas Creek				1E-09	
Cadmium	Eliza Creek				1E-09	
Cadmium	Muscatine Slough				1E-09	
Chromium VI	Mississippi River				4E-09	
Chromium VI	Copperas Creek				4E-09	
Chromium VI	Eliza Creek				4E-09	
Chromium VI	Muscatine Slough				4E-09	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	4E-10	0E+00	0E+00	7E-05	4E-10
Manganese	Copperas Creek	4E-10	0E+00	0E+00	7E-05	4E-10
Manganese	Eliza Creek	4E-10	0E+00	0E+00	7E-05	4E-10
Manganese	Muscatine Slough	4E-10	0E+00	0E+00	7E-05	4E-10
Mercury (elemental)	Mississippi River				8E-05	
Mercury (elemental)	Copperas Creek				8E-05	
Mercury (elemental)	Eliza Creek				8E-05	
Mercury (elemental)	Muscatine Slough				8E-05	
Mercury (divalent)	Mississippi River	1E-07		0E+00		1E-07
Mercury (divalent)	Copperas Creek	1E-07		0E+00		1E-07
Mercury (divalent)	Eliza Creek	1E-07		0E+00		1E-07
Mercury (divalent)	Muscatine Slough	1E-07		0E+00		1E-07
Nickel	Mississippi River	4E-11	1E-13	0E+00		4E-11
Nickel	Copperas Creek	4E-11	5E-12	0E+00		4E-11
Nickel	Eliza Creek	4E-11	3E-12	0E+00		4E-11
Nickel	Muscatine Slough	4E-11	8E-09	0E+00		8E-09
Silver	Mississippi River	2E-12	0E+00	0E+00		2E-12
Silver	Copperas Creek	2E-12	0E+00	0E+00		2E-12
Silver	Eliza Creek	2E-12	0E+00	0E+00		2E-12
Silver	Muscatine Slough	2E-12	0E+00	0E+00		2E-12
Thallium	Mississippi River	6E-07	6E-08	0E+00		7E-07
Thallium	Copperas Creek	6E-07	2E-06	0E+00		3E-06
Thallium	Eliza Creek	6E-07	1E-06	0E+00		2E-06
Thallium	Muscatine Slough	6E-07	1E-03	0E+00		1E-03

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-11	0E+00	0E+00		1E-11
Antimony	Copperas Creek	1E-11	0E+00	0E+00		1E-11
Antimony	Eliza Creek	1E-11	0E+00	0E+00		1E-11
Antimony	Muscatine Slough	1E-11	0E+00	0E+00		1E-11
Arsenic	Mississippi River	3E-09	4E-11	0E+00		3E-09
Arsenic	Copperas Creek	3E-09	1E-09	0E+00		5E-09
Arsenic	Eliza Creek	3E-09	8E-10	0E+00		4E-09
Arsenic	Muscatine Slough	3E-09	2E-06	0E+00		2E-06
Barium	Mississippi River	1E-09	0E+00	0E+00	1E-06	1E-09
Barium	Copperas Creek	1E-09	0E+00	0E+00	1E-06	1E-09
Barium	Eliza Creek	1E-09	0E+00	0E+00	1E-06	1E-09
Barium	Muscatine Slough	1E-09	0E+00	0E+00	1E-06	1E-09
Beryllium	Mississippi River	9E-10	2E-12	0E+00		9E-10
Beryllium	Copperas Creek	9E-10	1E-10	0E+00		1E-09
Beryllium	Eliza Creek	9E-10	8E-11	0E+00		1E-09
Beryllium	Muscatine Slough	9E-10	9E-10	0E+00		2E-09
Cadmium	Mississippi River	1E-07	2E-08	0E+00		1E-07
Cadmium	Copperas Creek	1E-07	7E-07	0E+00		8E-07
Cadmium	Eliza Creek	1E-07	5E-07	0E+00		6E-07
Cadmium	Muscatine Slough	1E-07	2E-04	0E+00		2E-04
Chromium VI	Mississippi River	2E-09	7E-12	0E+00		2E-09
Chromium VI	Copperas Creek	2E-09	2E-10	0E+00		3E-09
Chromium VI	Eliza Creek	2E-09	2E-10	0E+00		2E-09
Chromium VI	Muscatine Slough	2E-09	4E-07	0E+00		5E-07
Chromium III	Mississippi River	1E-09	6E-14	0E+00		1E-09
Chromium III	Copperas Creek	1E-09	4E-12	0E+00		1E-09
Chromium III	Eliza Creek	1E-09	3E-12	0E+00		1E-09
Chromium III	Muscatine Slough	1E-09	6E-12	0E+00		1E-09
Cobalt	Mississippi River	1E-10	0E+00	0E+00		1E-10
Cobalt	Copperas Creek	1E-10	0E+00	0E+00		1E-10
Cobalt	Eliza Creek	1E-10	0E+00	0E+00		1E-10
Cobalt	Muscatine Slough	1E-10	0E+00	0E+00		1E-10
Hydrogen Chloride	Mississippi River				2E-03	
Hydrogen Chloride	Copperas Creek				2E-03	
Hydrogen Chloride	Eliza Creek				2E-03	
Hydrogen Chloride	Muscatine Slough				2E-03	
Selenium	Mississippi River	1E-09	3E-08	0E+00		3E-08
Selenium	Copperas Creek	1E-09	9E-07	0E+00		9E-07
Selenium	Eliza Creek	1E-09	6E-07	0E+00		6E-07
Selenium	Muscatine Slough	1E-09	6E-03	0E+00		6E-03
Chlorine	Mississippi River				8E-03	
Chlorine	Copperas Creek				8E-03	
Chlorine	Eliza Creek				8E-03	
Chlorine	Muscatine Slough				8E-03	
Methylmercury - Developmental Effects	Mississippi River	6E-09	0E+00	0E+00		6E-09
Methylmercury - Developmental Effects	Copperas Creek	6E-09	0E+00	0E+00		6E-09
Methylmercury - Developmental Effects	Eliza Creek	6E-09	0E+00	0E+00		6E-09
Methylmercury - Developmental Effects	Muscatine Slough	6E-09	0E+00	0E+00		6E-09

Table IX-E22. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number 906) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-09	0E+00	0E+00		2E-09
Methylmercury - Neurological Effects	Copperas Creek	2E-09	0E+00	0E+00		2E-09
Methylmercury - Neurological Effects	Eliza Creek	2E-09	0E+00	0E+00		2E-09
Methylmercury - Neurological Effects	Muscatine Slough	2E-09	0E+00	0E+00		2E-09

Table IX-E23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-12	1E-12	3E-13	2E-12	6E-10	6E-09	4E-11	2E-10	8E-11	4E-11	5E-18	6E-12	7E-09
Nickel												3E-12	
Arsenic	3E-14	1E-14	5E-15	3E-14	9E-14	2E-13	6E-15			2E-13	1E-17	4E-12	5E-13
Beryllium												4E-13	
Cadmium												1E-11	
Chromium VI												7E-11	
	Noncarcinogenic Chemicals												
Manganese	2E-10	3E-10	2E-10	6E-10	1E-10	5E-09	7E-12			0E+00	4E-14	8E-06	6E-09
Mercury (elemental)												2E-09	
Mercury (divalent)	NA	8E-09	5E-08	2E-08	2E-07	2E-06	1E-09				8E-13		2E-06
Nickel	1E-10	6E-11	2E-11	2E-10	2E-09	2E-08	9E-11			2E-10	6E-14		2E-08
Silver	5E-12	8E-11	2E-11	2E-10	1E-09	6E-07	6E-11			0E+00	1E-13		6E-07
Thallium	3E-08	3E-09	2E-10	1E-08	1E-06	3E-06	9E-08			1E-06	6E-12		5E-06
Antimony	2E-10	1E-09	2E-10	3E-09	5E-09	3E-08	2E-10			0E+00	1E-12		4E-08
Arsenic	7E-10	3E-10	1E-10	8E-10	2E-09	4E-09	1E-10			4E-09	3E-13		1E-08
Barium	4E-09	4E-10	1E-10	9E-10	2E-10	3E-08	3E-11			0E+00	2E-14	6E-07	3E-08
Beryllium	5E-10	7E-12	1E-12	2E-11	7E-11	3E-12	2E-11			2E-11	3E-15		6E-10
Cadmium	6E-09	7E-09	4E-09	1E-08	6E-10	2E-09	1E-10			3E-07	1E-12		3E-07
Chromium VI	2E-10	7E-11	2E-11	2E-10	3E-09	4E-08	1E-10			3E-10	1E-13		5E-08
Chromium III	3E-10	4E-12	2E-12	9E-12	2E-10	3E-09	8E-11			1E-14	6E-18		4E-09
Cobalt	5E-11	2E-11	8E-14	4E-11	1E-09	8E-09	1E-10			0E+00	1E-14		9E-09
Hydrogen Chloride												1E-04	
Selenium	1E-10	1E-10	8E-11	4E-10	3E-09	3E-07	1E-08			2E-06	3E-13		2E-06
Chlorine												3E-05	
Methylmercury - Developmental Effects	2E-08	2E-09	6E-09	2E-09	2E-08	2E-07	6E-11			3E-06	3E-14		3E-06
Methylmercury - Neurological Effects	8E-09	7E-10	2E-09	8E-10	6E-09	5E-08	2E-11			1E-06	1E-14		1E-06

Table IX-E23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-12	9E-13	2E-13	3E-12	9E-10	4E-09	3E-11	2E-10	9E-11	4E-11	4E-18	7E-12	6E-09
Nickel												3E-12	
Arsenic	1E-14	1E-14	5E-15	4E-14	1E-13	1E-13	5E-15			2E-13	9E-18	4E-12	5E-13
Beryllium												4E-13	
Cadmium												1E-11	
Chromium VI												8E-11	
	Noncarcinogenic Chemicals												
Manganese	5E-11	2E-10	1E-10	6E-10	1E-10	2E-09	4E-12			0E+00	2E-14	8E-06	4E-09
Mercury (elemental)												2E-09	
Mercury (divalent)	NA	5E-09	3E-08	2E-08	3E-07	1E-06	6E-10				5E-13		1E-06
Nickel	3E-11	4E-11	2E-11	1E-10	2E-09	8E-09	5E-11			2E-10	3E-14		1E-08
Silver	1E-12	5E-11	1E-11	2E-10	2E-09	3E-07	3E-11			0E+00	7E-14		3E-07
Thallium	9E-09	2E-09	1E-10	9E-09	1E-06	2E-06	6E-08			9E-07	3E-12		4E-06
Antimony	6E-11	6E-10	2E-10	3E-09	6E-09	1E-08	1E-10			0E+00	7E-13		2E-08
Arsenic	2E-10	2E-10	1E-10	8E-10	3E-09	2E-09	8E-11			3E-09	2E-13		9E-09
Barium	1E-09	2E-10	8E-11	8E-10	3E-10	1E-08	2E-11			0E+00	1E-14	6E-07	2E-08
Beryllium	1E-10	4E-12	9E-13	2E-11	9E-11	2E-12	1E-11			1E-11	2E-15		3E-10
Cadmium	1E-09	4E-09	2E-09	1E-08	7E-10	1E-09	6E-11			2E-07	6E-13		2E-07
Chromium VI	5E-11	4E-11	2E-11	2E-10	3E-09	2E-08	8E-11			2E-10	6E-14		3E-08
Chromium III	8E-11	2E-12	2E-12	9E-12	3E-10	1E-09	5E-11			1E-14	3E-18		2E-09
Cobalt	1E-11	8E-12	5E-14	4E-11	2E-09	4E-09	6E-11			0E+00	8E-15		6E-09
Hydrogen Chloride												1E-04	
Selenium	3E-11	8E-11	6E-11	4E-10	4E-09	1E-07	7E-09			1E-06	2E-13		1E-06
Chlorine												3E-05	
Methylmercury - Developmental Effects	6E-09	1E-09	4E-09	2E-09	2E-08	8E-08	3E-11			2E-06	2E-14		3E-06
Methylmercury - Neurological Effects	2E-09	4E-10	1E-09	8E-10	7E-09	3E-08	1E-11			8E-07	6E-15		9E-07

Table IX-E23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-12	7E-13	2E-13	2E-12	4E-10	2E-09	2E-11	9E-11	5E-11	2E-11	2E-18	5E-12	3E-09
Nickel												2E-12	
Arsenic	5E-15	8E-15	3E-15	2E-14	7E-14	5E-14	3E-15			9E-14	6E-18	3E-12	3E-13
Beryllium												3E-13	
Cadmium												8E-12	
Chromium VI												5E-11	
	Noncarcinogenic Chemicals												
Manganese	3E-11	1E-10	8E-11	3E-10	5E-11	1E-09	3E-12			0E+00	1E-14	8E-06	2E-09
Mercury (elemental)												2E-09	
Mercury (divalent)	6E-08	3E-09	2E-08	9E-09	1E-07	4E-07	4E-10			0E+00	3E-13		7E-07
Nickel	1E-11	3E-11	1E-11	8E-11	9E-10	4E-09	3E-11			8E-11	2E-14		5E-09
Silver	7E-13	4E-11	8E-12	1E-10	8E-10	1E-07	2E-11			0E+00	4E-14		1E-07
Thallium	4E-09	1E-09	1E-10	5E-09	6E-07	7E-07	4E-08			5E-07	2E-12		2E-06
Antimony	3E-11	5E-10	1E-10	1E-09	3E-09	7E-09	7E-11			0E+00	5E-13		1E-08
Arsenic	9E-11	1E-10	7E-11	4E-10	1E-09	9E-10	5E-11			2E-09	1E-13		4E-09
Barium	6E-10	2E-10	6E-11	4E-10	1E-10	6E-09	1E-11			0E+00	8E-15	6E-07	8E-09
Beryllium	7E-11	3E-12	7E-13	9E-12	4E-11	7E-13	9E-12			7E-12	1E-15		1E-10
Cadmium	8E-10	3E-09	2E-09	7E-09	3E-10	5E-10	4E-11			1E-07	4E-13		1E-07
Chromium VI	2E-11	3E-11	1E-11	1E-10	1E-09	1E-08	5E-11			1E-10	4E-14		1E-08
Chromium III	4E-11	2E-12	1E-12	5E-12	1E-10	7E-10	3E-11			6E-15	2E-18		9E-10
Cobalt	7E-12	6E-12	4E-14	2E-11	7E-10	2E-09	4E-11			0E+00	5E-15		3E-09
Hydrogen Chloride												1E-04	
Selenium	2E-11	6E-11	4E-11	2E-10	2E-09	7E-08	4E-09			7E-07	1E-13		7E-07
Chlorine												3E-05	
Methylmercury - Developmental Effects	3E-09	8E-10	3E-09	1E-09	9E-09	4E-08	2E-11			1E-06	1E-14		1E-06
Methylmercury - Neurological Effects	1E-09	3E-10	1E-09	4E-10	3E-09	1E-08	8E-12			4E-07	4E-15		4E-07

Table IX-E23. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-13	2E-12	3E-13	3E-12	9E-10	2E-09	4E-11	2E-10	8E-11	5E-11	5E-18	7E-12	3E-09
Nickel												3E-12	
Arsenic	4E-15	2E-14	7E-15	4E-14	1E-13	4E-14	5E-15			2E-13	1E-17	4E-12	4E-13
Beryllium												4E-13	
Cadmium												1E-11	
Chromium VI												7E-11	
	Noncarcinogenic Chemicals												
Manganese	1E-11	2E-10	9E-11	3E-10	6E-11	5E-10	3E-12			0E+00	2E-14	8E-06	1E-09
Mercury (elemental)												2E-09	
Mercury (divalent)	2E-08	5E-09	3E-08	9E-09	1E-07	2E-07	3E-10			0E+00	4E-13		4E-07
Nickel	6E-12	4E-11	1E-11	7E-11	1E-09	2E-09	3E-11			9E-11	3E-14		3E-09
Silver	3E-13	5E-11	1E-11	1E-10	9E-10	6E-08	2E-11			0E+00	5E-14		6E-08
Thallium	2E-09	2E-09	1E-10	5E-09	6E-07	3E-07	3E-08			5E-07	2E-12		1E-06
Antimony	1E-11	6E-10	1E-10	1E-09	3E-09	3E-09	6E-11			0E+00	5E-13		8E-09
Arsenic	4E-11	2E-10	8E-11	4E-10	1E-09	4E-10	5E-11			2E-09	1E-13		4E-09
Barium	2E-10	3E-10	6E-11	4E-10	1E-10	3E-09	1E-11			0E+00	9E-15	6E-07	4E-09
Beryllium	3E-11	4E-12	8E-13	8E-12	5E-11	3E-13	8E-12			7E-12	1E-15		1E-10
Cadmium	3E-10	4E-09	2E-09	7E-09	4E-10	2E-10	3E-11			1E-07	5E-13		1E-07
Chromium VI	1E-11	4E-11	1E-11	9E-11	2E-09	4E-09	5E-11			1E-10	5E-14		6E-09
Chromium III	2E-11	2E-12	1E-12	4E-12	1E-10	3E-10	3E-11			6E-15	3E-18		5E-10
Cobalt	3E-12	9E-12	4E-14	2E-11	8E-10	8E-10	3E-11			0E+00	6E-15		2E-09
Hydrogen Chloride												1E-04	
Selenium	7E-12	8E-11	5E-11	2E-10	2E-09	3E-08	4E-09			7E-07	1E-13		8E-07
Chlorine												3E-05	
Methylmercury - Developmental Effects	1E-09	1E-09	3E-09	1E-09	1E-08	2E-08	2E-11			1E-06	1E-14		1E-06
Methylmercury - Neurological Effects	5E-10	4E-10	1E-09	4E-10	4E-09	5E-09	7E-12			5E-07	5E-15		5E-07

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	7E-12	9E-15	6E-17	6E-12	7E-12
2,3,7,8-TCDD-TEQ	New River	7E-12	3E-11	6E-17	6E-12	3E-11
2,3,7,8-TCDD-TEQ	Bayou Lafourche	7E-12	1E-13	6E-17	6E-12	7E-12
2,3,7,8-TCDD-TEQ	Bayou Conway	7E-12	2E-11	6E-17	6E-12	3E-11
Nickel	Mississippi River				3E-12	
Nickel	New River				3E-12	
Nickel	Bayou Lafourche				3E-12	
Nickel	Bayou Conway				3E-12	
Arsenic	Mississippi River	3E-14	1E-18	2E-16	4E-12	3E-14
Arsenic	New River	3E-14	1E-14	2E-16	4E-12	4E-14
Arsenic	Bayou Lafourche	3E-14	2E-17	2E-16	4E-12	3E-14
Arsenic	Bayou Conway	3E-14	8E-15	2E-16	4E-12	4E-14
Beryllium	Mississippi River				4E-13	
Beryllium	New River				4E-13	
Beryllium	Bayou Lafourche				4E-13	
Beryllium	Bayou Conway				4E-13	
Cadmium	Mississippi River				1E-11	
Cadmium	New River				1E-11	
Cadmium	Bayou Lafourche				1E-11	
Cadmium	Bayou Conway				1E-11	
Chromium VI	Mississippi River				7E-11	
Chromium VI	New River				7E-11	
Chromium VI	Bayou Lafourche				7E-11	
Chromium VI	Bayou Conway				7E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-10	0E+00	8E-13	8E-06	2E-10
Manganese	New River	2E-10	0E+00	8E-13	8E-06	2E-10
Manganese	Bayou Lafourche	2E-10	0E+00	8E-13	8E-06	2E-10
Manganese	Bayou Conway	2E-10	0E+00	8E-13	8E-06	2E-10
Mercury (elemental)	Mississippi River				2E-09	
Mercury (elemental)	New River				2E-09	
Mercury (elemental)	Bayou Lafourche				2E-09	
Mercury (elemental)	Bayou Conway				2E-09	
Mercury (divalent)	Mississippi River	4E-07		1E-11		4E-07
Mercury (divalent)	New River	4E-07		1E-11		4E-07
Mercury (divalent)	Bayou Lafourche	4E-07		1E-11		4E-07
Mercury (divalent)	Bayou Conway	4E-07		1E-11		4E-07
Nickel	Mississippi River	1E-10	1E-15	1E-12		1E-10
Nickel	New River	1E-10	2E-11	1E-12		1E-10
Nickel	Bayou Lafourche	1E-10	3E-14	1E-12		1E-10
Nickel	Bayou Conway	1E-10	1E-11	1E-12		1E-10
Silver	Mississippi River	5E-12	0E+00	2E-12		8E-12
Silver	New River	5E-12	0E+00	2E-12		8E-12
Silver	Bayou Lafourche	5E-12	0E+00	2E-12		8E-12
Silver	Bayou Conway	5E-12	0E+00	2E-12		8E-12
Thallium	Mississippi River	3E-08	1E-11	1E-10		3E-08
Thallium	New River	3E-08	1E-07	1E-10		2E-07
Thallium	Bayou Lafourche	3E-08	2E-10	1E-10		3E-08
Thallium	Bayou Conway	3E-08	8E-08	1E-10		1E-07

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	2E-10	0E+00	3E-11		3E-10
Antimony	New River	2E-10	0E+00	3E-11		3E-10
Antimony	Bayou Lafourche	2E-10	0E+00	3E-11		3E-10
Antimony	Bayou Conway	2E-10	0E+00	3E-11		3E-10
Arsenic	Mississippi River	7E-10	3E-14	6E-12		7E-10
Arsenic	New River	7E-10	3E-10	6E-12		1E-09
Arsenic	Bayou Lafourche	7E-10	6E-13	6E-12		7E-10
Arsenic	Bayou Conway	7E-10	2E-10	6E-12		9E-10
Barium	Mississippi River	4E-09	0E+00	4E-13	6E-07	4E-09
Barium	New River	4E-09	0E+00	4E-13	6E-07	4E-09
Barium	Bayou Lafourche	4E-09	0E+00	4E-13	6E-07	4E-09
Barium	Bayou Conway	4E-09	0E+00	4E-13	6E-07	4E-09
Beryllium	Mississippi River	5E-10	3E-15	6E-14		5E-10
Beryllium	New River	5E-10	2E-11	6E-14		5E-10
Beryllium	Bayou Lafourche	5E-10	6E-14	6E-14		5E-10
Beryllium	Bayou Conway	5E-10	1E-11	6E-14		5E-10
Cadmium	Mississippi River	6E-09	3E-12	2E-11		6E-09
Cadmium	New River	6E-09	4E-08	2E-11		4E-08
Cadmium	Bayou Lafourche	6E-09	6E-11	2E-11		6E-09
Cadmium	Bayou Conway	6E-09	2E-08	2E-11		3E-08
Chromium VI	Mississippi River	2E-10	2E-15	2E-12		2E-10
Chromium VI	New River	2E-10	2E-11	2E-12		2E-10
Chromium VI	Bayou Lafourche	2E-10	4E-14	2E-12		2E-10
Chromium VI	Bayou Conway	2E-10	1E-11	2E-12		2E-10
Chromium III	Mississippi River	3E-10	6E-17	1E-16		3E-10
Chromium III	New River	3E-10	3E-13	1E-16		3E-10
Chromium III	Bayou Lafourche	3E-10	9E-16	1E-16		3E-10
Chromium III	Bayou Conway	3E-10	2E-13	1E-16		3E-10
Cobalt	Mississippi River	5E-11	0E+00	1E-16		5E-11
Cobalt	New River	5E-11	0E+00	1E-16		5E-11
Cobalt	Bayou Lafourche	5E-11	0E+00	1E-16		5E-11
Cobalt	Bayou Conway	5E-11	0E+00	1E-16		5E-11
Hydrogen Chloride	Mississippi River				1E-04	
Hydrogen Chloride	New River				1E-04	
Hydrogen Chloride	Bayou Lafourche				1E-04	
Hydrogen Chloride	Bayou Conway				1E-04	
Selenium	Mississippi River	1E-10	1E-11	6E-12		1E-10
Selenium	New River	1E-10	1E-07	6E-12		1E-07
Selenium	Bayou Lafourche	1E-10	2E-10	6E-12		3E-10
Selenium	Bayou Conway	1E-10	7E-08	6E-12		7E-08
Chlorine	Mississippi River				3E-05	
Chlorine	New River				3E-05	
Chlorine	Bayou Lafourche				3E-05	
Chlorine	Bayou Conway				3E-05	
Methylmercury - Developmental Effects	Mississippi River	2E-08	5E-09	5E-13		3E-08
Methylmercury - Developmental Effects	New River	2E-08	8E-06	5E-13		8E-06
Methylmercury - Developmental Effects	Bayou Lafourche	2E-08	8E-08	5E-13		1E-07
Methylmercury - Developmental Effects	Bayou Conway	2E-08	8E-06	5E-13		8E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	8E-09	2E-09	2E-13		1E-08
Methylmercury - Neurological Effects	New River	8E-09	3E-06	2E-13		3E-06
Methylmercury - Neurological Effects	Bayou Lafourche	8E-09	3E-08	2E-13		3E-08
Methylmercury - Neurological Effects	Bayou Conway	8E-09	3E-06	2E-13		3E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-12	1E-14	4E-17	7E-12	2E-12
2,3,7,8-TCDD-TEQ	New River	2E-12	3E-11	4E-17	7E-12	4E-11
2,3,7,8-TCDD-TEQ	Bayou Lafourche	2E-12	2E-13	4E-17	7E-12	3E-12
2,3,7,8-TCDD-TEQ	Bayou Conway	2E-12	3E-11	4E-17	7E-12	3E-11
Nickel	Mississippi River				3E-12	
Nickel	New River				3E-12	
Nickel	Bayou Lafourche				3E-12	
Nickel	Bayou Conway				3E-12	
Arsenic	Mississippi River	1E-14	2E-18	2E-16	4E-12	1E-14
Arsenic	New River	1E-14	2E-14	2E-16	4E-12	3E-14
Arsenic	Bayou Lafourche	1E-14	3E-17	2E-16	4E-12	1E-14
Arsenic	Bayou Conway	1E-14	1E-14	2E-16	4E-12	2E-14
Beryllium	Mississippi River				4E-13	
Beryllium	New River				4E-13	
Beryllium	Bayou Lafourche				4E-13	
Beryllium	Bayou Conway				4E-13	
Cadmium	Mississippi River				1E-11	
Cadmium	New River				1E-11	
Cadmium	Bayou Lafourche				1E-11	
Cadmium	Bayou Conway				1E-11	
Chromium VI	Mississippi River				8E-11	
Chromium VI	New River				8E-11	
Chromium VI	Bayou Lafourche				8E-11	
Chromium VI	Bayou Conway				8E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	5E-11	0E+00	4E-13	8E-06	5E-11
Manganese	New River	5E-11	0E+00	4E-13	8E-06	5E-11
Manganese	Bayou Lafourche	5E-11	0E+00	4E-13	8E-06	5E-11
Manganese	Bayou Conway	5E-11	0E+00	4E-13	8E-06	5E-11
Mercury (elemental)	Mississippi River				2E-09	
Mercury (elemental)	New River				2E-09	
Mercury (elemental)	Bayou Lafourche				2E-09	
Mercury (elemental)	Bayou Conway				2E-09	
Mercury (divalent)	Mississippi River	1E-07		7E-12		1E-07
Mercury (divalent)	New River	1E-07		7E-12		1E-07
Mercury (divalent)	Bayou Lafourche	1E-07		7E-12		1E-07
Mercury (divalent)	Bayou Conway	1E-07		7E-12		1E-07
Nickel	Mississippi River	3E-11	1E-15	7E-13		3E-11
Nickel	New River	3E-11	2E-11	7E-13		4E-11
Nickel	Bayou Lafourche	3E-11	3E-14	7E-13		3E-11
Nickel	Bayou Conway	3E-11	1E-11	7E-13		4E-11
Silver	Mississippi River	1E-12	0E+00	1E-12		3E-12
Silver	New River	1E-12	0E+00	1E-12		3E-12
Silver	Bayou Lafourche	1E-12	0E+00	1E-12		3E-12
Silver	Bayou Conway	1E-12	0E+00	1E-12		3E-12
Thallium	Mississippi River	9E-09	1E-11	6E-11		9E-09
Thallium	New River	9E-09	1E-07	6E-11		1E-07
Thallium	Bayou Lafourche	9E-09	2E-10	6E-11		9E-09
Thallium	Bayou Conway	9E-09	8E-08	6E-11		9E-08

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	6E-11	0E+00	1E-11		7E-11
Antimony	New River	6E-11	0E+00	1E-11		7E-11
Antimony	Bayou Lafourche	6E-11	0E+00	1E-11		7E-11
Antimony	Bayou Conway	6E-11	0E+00	1E-11		7E-11
Arsenic	Mississippi River	2E-10	3E-14	3E-12		2E-10
Arsenic	New River	2E-10	3E-10	3E-12		5E-10
Arsenic	Bayou Lafourche	2E-10	6E-13	3E-12		2E-10
Arsenic	Bayou Conway	2E-10	2E-10	3E-12		4E-10
Barium	Mississippi River	1E-09	0E+00	2E-13	6E-07	1E-09
Barium	New River	1E-09	0E+00	2E-13	6E-07	1E-09
Barium	Bayou Lafourche	1E-09	0E+00	2E-13	6E-07	1E-09
Barium	Bayou Conway	1E-09	0E+00	2E-13	6E-07	1E-09
Beryllium	Mississippi River	1E-10	3E-15	3E-14		1E-10
Beryllium	New River	1E-10	2E-11	3E-14		2E-10
Beryllium	Bayou Lafourche	1E-10	6E-14	3E-14		1E-10
Beryllium	Bayou Conway	1E-10	1E-11	3E-14		1E-10
Cadmium	Mississippi River	1E-09	3E-12	1E-11		1E-09
Cadmium	New River	1E-09	4E-08	1E-11		4E-08
Cadmium	Bayou Lafourche	1E-09	6E-11	1E-11		2E-09
Cadmium	Bayou Conway	1E-09	2E-08	1E-11		2E-08
Chromium VI	Mississippi River	5E-11	2E-15	1E-12		5E-11
Chromium VI	New River	5E-11	2E-11	1E-12		7E-11
Chromium VI	Bayou Lafourche	5E-11	4E-14	1E-12		5E-11
Chromium VI	Bayou Conway	5E-11	1E-11	1E-12		6E-11
Chromium III	Mississippi River	8E-11	6E-17	5E-17		8E-11
Chromium III	New River	8E-11	3E-13	5E-17		8E-11
Chromium III	Bayou Lafourche	8E-11	9E-16	5E-17		8E-11
Chromium III	Bayou Conway	8E-11	2E-13	5E-17		8E-11
Cobalt	Mississippi River	1E-11	0E+00	5E-17		1E-11
Cobalt	New River	1E-11	0E+00	5E-17		1E-11
Cobalt	Bayou Lafourche	1E-11	0E+00	5E-17		1E-11
Cobalt	Bayou Conway	1E-11	0E+00	5E-17		1E-11
Hydrogen Chloride	Mississippi River				1E-04	
Hydrogen Chloride	New River				1E-04	
Hydrogen Chloride	Bayou Lafourche				1E-04	
Hydrogen Chloride	Bayou Conway				1E-04	
Selenium	Mississippi River	3E-11	1E-11	3E-12		4E-11
Selenium	New River	3E-11	1E-07	3E-12		1E-07
Selenium	Bayou Lafourche	3E-11	2E-10	3E-12		2E-10
Selenium	Bayou Conway	3E-11	7E-08	3E-12		7E-08
Chlorine	Mississippi River				3E-05	
Chlorine	New River				3E-05	
Chlorine	Bayou Lafourche				3E-05	
Chlorine	Bayou Conway				3E-05	
Methylmercury - Developmental Effects	Mississippi River	6E-09	5E-09	3E-13		1E-08
Methylmercury - Developmental Effects	New River	6E-09	8E-06	3E-13		8E-06
Methylmercury - Developmental Effects	Bayou Lafourche	6E-09	8E-08	3E-13		9E-08
Methylmercury - Developmental Effects	Bayou Conway	6E-09	8E-06	3E-13		8E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-09	2E-09	1E-13		4E-09
Methylmercury - Neurological Effects	New River	2E-09	3E-06	1E-13		3E-06
Methylmercury - Neurological Effects	Bayou Lafourche	2E-09	3E-08	1E-13		3E-08
Methylmercury - Neurological Effects	Bayou Conway	2E-09	3E-06	1E-13		3E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-12	9E-15	3E-17	5E-12	1E-12
2,3,7,8-TCDD-TEQ	New River	1E-12	2E-11	3E-17	5E-12	3E-11
2,3,7,8-TCDD-TEQ	Bayou Lafourche	1E-12	1E-13	3E-17	5E-12	1E-12
2,3,7,8-TCDD-TEQ	Bayou Conway	1E-12	2E-11	3E-17	5E-12	2E-11
Nickel	Mississippi River				2E-12	
Nickel	New River				2E-12	
Nickel	Bayou Lafourche				2E-12	
Nickel	Bayou Conway				2E-12	
Arsenic	Mississippi River	5E-15	1E-18	1E-16	3E-12	5E-15
Arsenic	New River	5E-15	1E-14	1E-16	3E-12	2E-14
Arsenic	Bayou Lafourche	5E-15	2E-17	1E-16	3E-12	5E-15
Arsenic	Bayou Conway	5E-15	8E-15	1E-16	3E-12	1E-14
Beryllium	Mississippi River				3E-13	
Beryllium	New River				3E-13	
Beryllium	Bayou Lafourche				3E-13	
Beryllium	Bayou Conway				3E-13	
Cadmium	Mississippi River				8E-12	
Cadmium	New River				8E-12	
Cadmium	Bayou Lafourche				8E-12	
Cadmium	Bayou Conway				8E-12	
Chromium VI	Mississippi River				5E-11	
Chromium VI	New River				5E-11	
Chromium VI	Bayou Lafourche				5E-11	
Chromium VI	Bayou Conway				5E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	3E-11	0E+00	3E-13	8E-06	3E-11
Manganese	New River	3E-11	0E+00	3E-13	8E-06	3E-11
Manganese	Bayou Lafourche	3E-11	0E+00	3E-13	8E-06	3E-11
Manganese	Bayou Conway	3E-11	0E+00	3E-13	8E-06	3E-11
Mercury (elemental)	Mississippi River				2E-09	
Mercury (elemental)	New River				2E-09	
Mercury (elemental)	Bayou Lafourche				2E-09	
Mercury (elemental)	Bayou Conway				2E-09	
Mercury (divalent)	Mississippi River	6E-08		4E-12		6E-08
Mercury (divalent)	New River	6E-08		4E-12		6E-08
Mercury (divalent)	Bayou Lafourche	6E-08		4E-12		6E-08
Mercury (divalent)	Bayou Conway	6E-08		4E-12		6E-08
Nickel	Mississippi River	1E-11	1E-15	4E-13		1E-11
Nickel	New River	1E-11	1E-11	4E-13		3E-11
Nickel	Bayou Lafourche	1E-11	2E-14	4E-13		1E-11
Nickel	Bayou Conway	1E-11	7E-12	4E-13		2E-11
Silver	Mississippi River	7E-13	0E+00	8E-13		2E-12
Silver	New River	7E-13	0E+00	8E-13		2E-12
Silver	Bayou Lafourche	7E-13	0E+00	8E-13		2E-12
Silver	Bayou Conway	7E-13	0E+00	8E-13		2E-12
Thallium	Mississippi River	4E-09	8E-12	4E-11		5E-09
Thallium	New River	4E-09	9E-08	4E-11		1E-07
Thallium	Bayou Lafourche	4E-09	2E-10	4E-11		5E-09
Thallium	Bayou Conway	4E-09	6E-08	4E-11		6E-08

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	3E-11	0E+00	9E-12		4E-11
Antimony	New River	3E-11	0E+00	9E-12		4E-11
Antimony	Bayou Lafourche	3E-11	0E+00	9E-12		4E-11
Antimony	Bayou Conway	3E-11	0E+00	9E-12		4E-11
Arsenic	Mississippi River	9E-11	2E-14	2E-12		9E-11
Arsenic	New River	9E-11	2E-10	2E-12		3E-10
Arsenic	Bayou Lafourche	9E-11	4E-13	2E-12		9E-11
Arsenic	Bayou Conway	9E-11	1E-10	2E-12		2E-10
Barium	Mississippi River	6E-10	0E+00	1E-13	6E-07	6E-10
Barium	New River	6E-10	0E+00	1E-13	6E-07	6E-10
Barium	Bayou Lafourche	6E-10	0E+00	1E-13	6E-07	6E-10
Barium	Bayou Conway	6E-10	0E+00	1E-13	6E-07	6E-10
Beryllium	Mississippi River	7E-11	2E-15	2E-14		7E-11
Beryllium	New River	7E-11	1E-11	2E-14		8E-11
Beryllium	Bayou Lafourche	7E-11	4E-14	2E-14		7E-11
Beryllium	Bayou Conway	7E-11	1E-11	2E-14		8E-11
Cadmium	Mississippi River	8E-10	2E-12	8E-12		8E-10
Cadmium	New River	8E-10	3E-08	8E-12		3E-08
Cadmium	Bayou Lafourche	8E-10	5E-11	8E-12		8E-10
Cadmium	Bayou Conway	8E-10	2E-08	8E-12		2E-08
Chromium VI	Mississippi River	2E-11	1E-15	8E-13		2E-11
Chromium VI	New River	2E-11	2E-11	8E-13		4E-11
Chromium VI	Bayou Lafourche	2E-11	3E-14	8E-13		2E-11
Chromium VI	Bayou Conway	2E-11	1E-11	8E-13		3E-11
Chromium III	Mississippi River	4E-11	4E-17	3E-17		4E-11
Chromium III	New River	4E-11	2E-13	3E-17		4E-11
Chromium III	Bayou Lafourche	4E-11	7E-16	3E-17		4E-11
Chromium III	Bayou Conway	4E-11	1E-13	3E-17		4E-11
Cobalt	Mississippi River	7E-12	0E+00	1E-13		8E-12
Cobalt	New River	7E-12	0E+00	1E-13		8E-12
Cobalt	Bayou Lafourche	7E-12	0E+00	1E-13		8E-12
Cobalt	Bayou Conway	7E-12	0E+00	1E-13		8E-12
Hydrogen Chloride	Mississippi River				1E-04	
Hydrogen Chloride	New River				1E-04	
Hydrogen Chloride	Bayou Lafourche				1E-04	
Hydrogen Chloride	Bayou Conway				1E-04	
Selenium	Mississippi River	2E-11	8E-12	2E-12		3E-11
Selenium	New River	2E-11	9E-08	2E-12		9E-08
Selenium	Bayou Lafourche	2E-11	2E-10	2E-12		2E-10
Selenium	Bayou Conway	2E-11	5E-08	2E-12		5E-08
Chlorine	Mississippi River				3E-05	
Chlorine	New River				3E-05	
Chlorine	Bayou Lafourche				3E-05	
Chlorine	Bayou Conway				3E-05	
Methylmercury - Developmental Effects	Mississippi River	3E-09	3E-09	2E-13		7E-09
Methylmercury - Developmental Effects	New River	3E-09	6E-06	2E-13		6E-06
Methylmercury - Developmental Effects	Bayou Lafourche	3E-09	6E-08	2E-13		6E-08
Methylmercury - Developmental Effects	Bayou Conway	3E-09	5E-06	2E-13		5E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	1E-09	1E-09	6E-14		2E-09
Methylmercury - Neurological Effects	New River	1E-09	2E-06	6E-14		2E-06
Methylmercury - Neurological Effects	Bayou Lafourche	1E-09	2E-08	6E-14		2E-08
Methylmercury - Neurological Effects	Bayou Conway	1E-09	2E-06	6E-14		2E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	9E-13	2E-14	6E-17	7E-12	9E-13
2,3,7,8-TCDD-TEQ	New River	9E-13	4E-11	6E-17	7E-12	5E-11
2,3,7,8-TCDD-TEQ	Bayou Lafourche	9E-13	2E-13	6E-17	7E-12	1E-12
2,3,7,8-TCDD-TEQ	Bayou Conway	9E-13	3E-11	6E-17	7E-12	3E-11
Nickel	Mississippi River				3E-12	
Nickel	New River				3E-12	
Nickel	Bayou Lafourche				3E-12	
Nickel	Bayou Conway				3E-12	
Arsenic	Mississippi River	4E-15	2E-18	3E-16	4E-12	4E-15
Arsenic	New River	4E-15	2E-14	3E-16	4E-12	3E-14
Arsenic	Bayou Lafourche	4E-15	4E-17	3E-16	4E-12	4E-15
Arsenic	Bayou Conway	4E-15	2E-14	3E-16	4E-12	2E-14
Beryllium	Mississippi River				4E-13	
Beryllium	New River				4E-13	
Beryllium	Bayou Lafourche				4E-13	
Beryllium	Bayou Conway				4E-13	
Cadmium	Mississippi River				1E-11	
Cadmium	New River				1E-11	
Cadmium	Bayou Lafourche				1E-11	
Cadmium	Bayou Conway				1E-11	
Chromium VI	Mississippi River				7E-11	
Chromium VI	New River				7E-11	
Chromium VI	Bayou Lafourche				7E-11	
Chromium VI	Bayou Conway				7E-11	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-11	0E+00	3E-13	8E-06	1E-11
Manganese	New River	1E-11	0E+00	3E-13	8E-06	1E-11
Manganese	Bayou Lafourche	1E-11	0E+00	3E-13	8E-06	1E-11
Manganese	Bayou Conway	1E-11	0E+00	3E-13	8E-06	1E-11
Mercury (elemental)	Mississippi River				2E-09	
Mercury (elemental)	New River				2E-09	
Mercury (elemental)	Bayou Lafourche				2E-09	
Mercury (elemental)	Bayou Conway				2E-09	
Mercury (divalent)	Mississippi River	2E-08		5E-12		2E-08
Mercury (divalent)	New River	2E-08		5E-12		2E-08
Mercury (divalent)	Bayou Lafourche	2E-08		5E-12		2E-08
Mercury (divalent)	Bayou Conway	2E-08		5E-12		2E-08
Nickel	Mississippi River	6E-12	1E-15	5E-13		6E-12
Nickel	New River	6E-12	1E-11	5E-13		2E-11
Nickel	Bayou Lafourche	6E-12	2E-14	5E-13		6E-12
Nickel	Bayou Conway	6E-12	7E-12	5E-13		1E-11
Silver	Mississippi River	3E-13	0E+00	1E-12		1E-12
Silver	New River	3E-13	0E+00	1E-12		1E-12
Silver	Bayou Lafourche	3E-13	0E+00	1E-12		1E-12
Silver	Bayou Conway	3E-13	0E+00	1E-12		1E-12
Thallium	Mississippi River	2E-09	8E-12	5E-11		2E-09
Thallium	New River	2E-09	9E-08	5E-11		9E-08
Thallium	Bayou Lafourche	2E-09	2E-10	5E-11		2E-09
Thallium	Bayou Conway	2E-09	6E-08	5E-11		6E-08

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-11	0E+00	1E-11		2E-11
Antimony	New River	1E-11	0E+00	1E-11		2E-11
Antimony	Bayou Lafourche	1E-11	0E+00	1E-11		2E-11
Antimony	Bayou Conway	1E-11	0E+00	1E-11		2E-11
Arsenic	Mississippi River	4E-11	2E-14	2E-12		4E-11
Arsenic	New River	4E-11	2E-10	2E-12		3E-10
Arsenic	Bayou Lafourche	4E-11	4E-13	2E-12		4E-11
Arsenic	Bayou Conway	4E-11	1E-10	2E-12		2E-10
Barium	Mississippi River	2E-10	0E+00	1E-13	6E-07	2E-10
Barium	New River	2E-10	0E+00	1E-13	6E-07	2E-10
Barium	Bayou Lafourche	2E-10	0E+00	1E-13	6E-07	2E-10
Barium	Bayou Conway	2E-10	0E+00	1E-13	6E-07	2E-10
Beryllium	Mississippi River	3E-11	2E-15	3E-14		3E-11
Beryllium	New River	3E-11	1E-11	3E-14		4E-11
Beryllium	Bayou Lafourche	3E-11	4E-14	3E-14		3E-11
Beryllium	Bayou Conway	3E-11	1E-11	3E-14		4E-11
Cadmium	Mississippi River	3E-10	2E-12	1E-11		3E-10
Cadmium	New River	3E-10	3E-08	1E-11		3E-08
Cadmium	Bayou Lafourche	3E-10	5E-11	1E-11		4E-10
Cadmium	Bayou Conway	3E-10	2E-08	1E-11		2E-08
Chromium VI	Mississippi River	1E-11	1E-15	9E-13		1E-11
Chromium VI	New River	1E-11	2E-11	9E-13		3E-11
Chromium VI	Bayou Lafourche	1E-11	3E-14	9E-13		1E-11
Chromium VI	Bayou Conway	1E-11	1E-11	9E-13		2E-11
Chromium III	Mississippi River	2E-11	4E-17	4E-17		2E-11
Chromium III	New River	2E-11	2E-13	4E-17		2E-11
Chromium III	Bayou Lafourche	2E-11	7E-16	4E-17		2E-11
Chromium III	Bayou Conway	2E-11	1E-13	4E-17		2E-11
Cobalt	Mississippi River	3E-12	0E+00	1E-13		3E-12
Cobalt	New River	3E-12	0E+00	1E-13		3E-12
Cobalt	Bayou Lafourche	3E-12	0E+00	1E-13		3E-12
Cobalt	Bayou Conway	3E-12	0E+00	1E-13		3E-12
Hydrogen Chloride	Mississippi River				1E-04	
Hydrogen Chloride	New River				1E-04	
Hydrogen Chloride	Bayou Lafourche				1E-04	
Hydrogen Chloride	Bayou Conway				1E-04	
Selenium	Mississippi River	7E-12	8E-12	2E-12		2E-11
Selenium	New River	7E-12	9E-08	2E-12		9E-08
Selenium	Bayou Lafourche	7E-12	2E-10	2E-12		2E-10
Selenium	Bayou Conway	7E-12	5E-08	2E-12		5E-08
Chlorine	Mississippi River				3E-05	
Chlorine	New River				3E-05	
Chlorine	Bayou Lafourche				3E-05	
Chlorine	Bayou Conway				3E-05	
Methylmercury - Developmental Effects	Mississippi River	1E-09	3E-09	2E-13		5E-09
Methylmercury - Developmental Effects	New River	1E-09	6E-06	2E-13		6E-06
Methylmercury - Developmental Effects	Bayou Lafourche	1E-09	6E-08	2E-13		6E-08
Methylmercury - Developmental Effects	Bayou Conway	1E-09	5E-06	2E-13		5E-06

Table IX-E24. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A14) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	5E-10	1E-09	8E-14		2E-09
Methylmercury - Neurological Effects	New River	5E-10	2E-06	8E-14		2E-06
Methylmercury - Neurological Effects	Bayou Lafourche	5E-10	2E-08	8E-14		2E-08
Methylmercury - Neurological Effects	Bayou Conway	5E-10	2E-06	8E-14		2E-06

Table IX-E25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-09	8E-10	3E-10	2E-09	4E-07	4E-06	3E-08	2E-07	9E-08	1E-07	9E-11	3E-09	5E-06
Nickel												5E-10	
Arsenic	1E-11	4E-12	2E-12	9E-12	3E-11	5E-11	2E-12			7E-11	1E-10	3E-10	3E-10
Beryllium												2E-11	
Cadmium												4E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	5E-08	6E-08	3E-08	1E-07	2E-08	1E-06	2E-09			0E+00	3E-07	4E-04	2E-06
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	5E-04	7E-07	9E-04	4E-04	6E-03	2E-07				2E-08		8E-03
Nickel	9E-08	4E-08	2E-08	1E-07	1E-06	1E-05	6E-08			2E-07	2E-06		1E-05
Silver	2E-09	2E-08	5E-09	6E-08	4E-07	1E-04	1E-08			0E+00	1E-06		1E-04
Thallium	2E-07	2E-08	1E-09	5E-08	6E-06	2E-05	6E-07			1E-05	1E-06		4E-05
Antimony	3E-09	1E-08	2E-09	3E-08	4E-08	3E-07	2E-09			0E+00	5E-07		8E-07
Arsenic	2E-07	1E-07	4E-08	2E-07	7E-07	1E-06	5E-08			2E-06	3E-06		8E-06
Barium	2E-06	2E-07	5E-08	4E-07	9E-08	1E-05	1E-08			0E+00	2E-07	7E-05	1E-05
Beryllium	9E-08	1E-09	2E-10	3E-09	1E-08	6E-10	4E-09			7E-09	2E-08		1E-07
Cadmium	1E-05	1E-05	5E-06	2E-05	1E-06	4E-06	2E-07			7E-04	7E-05		8E-04
Chromium VI	3E-07	9E-08	3E-08	2E-07	3E-06	5E-05	2E-07			5E-07	6E-06		6E-05
Chromium III	4E-07	4E-09	3E-09	1E-08	3E-07	4E-06	1E-07			4E-11	1E-10		4E-06
Cobalt	1E-08	3E-09	2E-11	7E-09	3E-07	1E-06	2E-08			0E+00	1E-07		2E-06
Hydrogen Chloride												9E-03	
Selenium	5E-08	5E-08	4E-08	1E-07	1E-06	1E-04	4E-06			7E-04	4E-06		8E-04
Chlorine												7E-03	
Methylmercury - Developmental Effects	4E-07	2E-04	1E-07	2E-04	3E-04	5E-03	6E-08			4E-04	1E-09		6E-03
Methylmercury - Neurological Effects	1E-07	5E-05	3E-08	5E-05	1E-04	2E-03	2E-08			1E-04	4E-10		2E-03

Table IX-E25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-09	6E-10	3E-10	2E-09	6E-07	3E-06	3E-08	2E-07	1E-07	1E-07	7E-11	3E-09	4E-06
Nickel												5E-10	
Arsenic	4E-12	3E-12	2E-12	1E-11	4E-11	3E-11	2E-12			7E-11	1E-10	3E-10	3E-10
Beryllium												2E-11	
Cadmium												4E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	3E-08	2E-08	1E-07	2E-08	5E-07	1E-09			0E+00	2E-07	4E-04	9E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	NA	3E-04	5E-07	9E-04	5E-04	3E-03	1E-07				1E-08		5E-03
Nickel	2E-08	2E-08	1E-08	1E-07	1E-06	5E-06	4E-08			1E-07	9E-07		8E-06
Silver	4E-10	1E-08	4E-09	5E-08	4E-07	7E-05	8E-09			0E+00	7E-07		7E-05
Thallium	6E-08	1E-08	8E-10	5E-08	7E-06	9E-06	4E-07			8E-06	8E-07		2E-05
Antimony	7E-10	6E-09	2E-09	3E-08	5E-08	1E-07	1E-09			0E+00	3E-07		5E-07
Arsenic	6E-08	6E-08	3E-08	2E-07	8E-07	6E-07	3E-08			1E-06	2E-06		5E-06
Barium	5E-07	1E-07	3E-08	3E-07	1E-07	5E-06	8E-09			0E+00	1E-07	7E-05	7E-06
Beryllium	2E-08	7E-10	2E-10	3E-09	2E-08	3E-10	3E-09			5E-09	1E-08		6E-08
Cadmium	3E-06	6E-06	4E-06	2E-05	1E-06	2E-06	1E-07			5E-04	4E-05		6E-04
Chromium VI	7E-08	5E-08	2E-08	2E-07	4E-06	3E-05	1E-07			4E-07	3E-06		3E-05
Chromium III	1E-07	2E-09	2E-09	1E-08	3E-07	2E-06	6E-08			3E-11	7E-11		2E-06
Cobalt	3E-09	2E-09	1E-11	7E-09	3E-07	8E-07	1E-08			0E+00	7E-08		1E-06
Hydrogen Chloride												9E-03	
Selenium	1E-08	3E-08	3E-08	1E-07	1E-06	5E-05	2E-06			6E-04	2E-06		6E-04
Chlorine												7E-03	
Methylmercury - Developmental Effects	1E-07	9E-05	7E-08	1E-04	4E-04	2E-03	3E-08			3E-04	7E-10		3E-03
Methylmercury - Neurological Effects	3E-08	3E-05	2E-08	5E-05	1E-04	8E-04	1E-08			9E-05	2E-10		1E-03

Table IX-E25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	5E-10	2E-10	1E-09	3E-07	1E-06	2E-08	1E-07	5E-08	6E-08	5E-11	2E-09	2E-06
Nickel												3E-10	
Arsenic	2E-12	2E-12	1E-12	7E-12	2E-11	2E-11	1E-12			4E-11	7E-11	2E-10	2E-10
Beryllium												1E-11	
Cadmium												3E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-09	3E-08	2E-08	6E-08	1E-08	2E-07	6E-10			0E+00	1E-07	4E-04	5E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	9E-07	2E-04	4E-07	5E-04	2E-04	1E-03	7E-08			0E+00	8E-09		2E-03
Nickel	1E-08	2E-08	9E-09	5E-08	6E-07	2E-06	2E-08			7E-08	6E-07		4E-06
Silver	2E-10	9E-09	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00	4E-07		3E-05
Thallium	3E-08	8E-09	6E-10	3E-08	3E-06	4E-06	2E-07			4E-06	5E-07		1E-05
Antimony	3E-10	5E-09	1E-09	1E-08	2E-08	6E-08	7E-10			0E+00	2E-07		3E-07
Arsenic	3E-08	5E-08	2E-08	1E-07	4E-07	3E-07	2E-08			7E-07	1E-06		3E-06
Barium	2E-07	8E-08	2E-08	2E-07	5E-08	2E-06	5E-09			0E+00	8E-08	7E-05	3E-06
Beryllium	1E-08	5E-10	1E-10	2E-09	7E-09	1E-10	2E-09			3E-09	7E-09		3E-08
Cadmium	1E-06	5E-06	3E-06	1E-05	6E-07	8E-07	7E-08			3E-04	3E-05		3E-04
Chromium VI	4E-08	4E-08	2E-08	1E-07	2E-06	1E-05	7E-08			2E-07	2E-06		2E-05
Chromium III	5E-08	2E-09	1E-09	6E-09	2E-07	8E-07	4E-08			2E-11	5E-11		1E-06
Cobalt	2E-09	1E-09	8E-12	4E-09	1E-07	3E-07	8E-09			0E+00	4E-08		5E-07
Hydrogen Chloride												9E-03	
Selenium	7E-09	2E-08	2E-08	7E-08	6E-07	2E-05	1E-06			3E-04	1E-06		3E-04
Chlorine												7E-03	
Methylmercury - Developmental Effects	5E-08	7E-05	5E-08	8E-05	2E-04	1E-03	2E-08			1E-04	5E-10		2E-03
Methylmercury - Neurological Effects	2E-08	2E-05	2E-08	3E-05	6E-05	4E-04	7E-09			5E-05	2E-10		5E-04

Table IX-E25. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	1E-09	4E-10	2E-09	6E-07	1E-06	3E-08	2E-07	9E-08	1E-07	1E-10	3E-09	2E-06
Nickel												5E-10	
Arsenic	1E-12	6E-12	2E-12	1E-11	5E-11	1E-11	2E-12			8E-11	2E-10	3E-10	3E-10
Beryllium												2E-11	
Cadmium												4E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-09	4E-08	2E-08	6E-08	1E-08	1E-07	6E-10			0E+00	1E-07	4E-04	4E-07
Mercury (elemental)												2E-04	
Mercury (divalent)	4E-07	3E-04	4E-07	4E-04	2E-04	6E-04	6E-08			0E+00	9E-09		2E-03
Nickel	5E-09	3E-08	1E-08	5E-08	6E-07	1E-06	2E-08			8E-08	7E-07		3E-06
Silver	9E-11	1E-08	3E-09	3E-08	2E-07	1E-05	4E-09			0E+00	5E-07		2E-05
Thallium	1E-08	1E-08	6E-10	3E-08	4E-06	2E-06	2E-07			5E-06	6E-07		1E-05
Antimony	1E-10	6E-09	1E-09	1E-08	3E-08	3E-08	6E-10			0E+00	2E-07		3E-07
Arsenic	1E-08	6E-08	2E-08	1E-07	4E-07	1E-07	2E-08			7E-07	1E-06		3E-06
Barium	1E-07	1E-07	3E-08	2E-07	5E-08	1E-06	4E-09			0E+00	9E-08	7E-05	2E-06
Beryllium	5E-09	7E-10	1E-10	2E-09	8E-09	6E-11	1E-09			3E-09	8E-09		3E-08
Cadmium	6E-07	6E-06	3E-06	1E-05	6E-07	4E-07	6E-08			3E-04	3E-05		3E-04
Chromium VI	2E-08	5E-08	2E-08	1E-07	2E-06	5E-06	6E-08			2E-07	2E-06		1E-05
Chromium III	2E-08	2E-09	2E-09	5E-09	2E-07	4E-07	3E-08			2E-11	5E-11		6E-07
Cobalt	7E-10	2E-09	9E-12	3E-09	2E-07	2E-07	7E-09			0E+00	5E-08		4E-07
Hydrogen Chloride												9E-03	
Selenium	3E-09	3E-08	2E-08	7E-08	7E-07	1E-05	1E-06			3E-04	2E-06		3E-04
Chlorine												7E-03	
Methylmercury - Developmental Effects	2E-08	9E-05	5E-08	7E-05	2E-04	5E-04	2E-08			2E-04	5E-10		1E-03
Methylmercury - Neurological Effects	7E-09	3E-05	2E-08	2E-05	7E-05	2E-04	6E-09			5E-05	2E-10		3E-04

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Creek (includes Sulfur Spring Creek)	7E-09	2E-07	9E-11	3E-09	2E-07
2,3,7,8-TCDD-TEQ	Carter Creek	7E-09	3E-09	9E-11	3E-09	1E-08
2,3,7,8-TCDD-TEQ	Dota Creek	7E-09	4E-09	9E-11	3E-09	1E-08
Nickel	Big Creek (includes Sulfur Spring Creek)				5E-10	
Nickel	Carter Creek				5E-10	
Nickel	Dota Creek				5E-10	
Arsenic	Big Creek (includes Sulfur Spring Creek)	1E-11	1E-11	1E-10	3E-10	2E-10
Arsenic	Carter Creek	1E-11	2E-13	1E-10	3E-10	1E-10
Arsenic	Dota Creek	1E-11	1E-13	1E-10	3E-10	1E-10
Beryllium	Big Creek (includes Sulfur Spring Creek)				2E-11	
Beryllium	Carter Creek				2E-11	
Beryllium	Dota Creek				2E-11	
Cadmium	Big Creek (includes Sulfur Spring Creek)				4E-09	
Cadmium	Carter Creek				4E-09	
Cadmium	Dota Creek				4E-09	
Chromium VI	Big Creek (includes Sulfur Spring Creek)				2E-08	
Chromium VI	Carter Creek				2E-08	
Chromium VI	Dota Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Big Creek (includes Sulfur Spring Creek)	5E-08	0E+00	3E-07	4E-04	4E-07
Manganese	Carter Creek	5E-08	0E+00	3E-07	4E-04	4E-07
Manganese	Dota Creek	5E-08	0E+00	3E-07	4E-04	4E-07
Mercury (elemental)	Big Creek (includes Sulfur Spring Creek)				2E-04	
Mercury (elemental)	Carter Creek				2E-04	
Mercury (elemental)	Dota Creek				2E-04	
Mercury (divalent)	Big Creek (includes Sulfur Spring Creek)	6E-06		2E-08		6E-06
Mercury (divalent)	Carter Creek	6E-06		2E-08		6E-06
Mercury (divalent)	Dota Creek	6E-06		2E-08		6E-06
Nickel	Big Creek (includes Sulfur Spring Creek)	9E-08	4E-08	2E-06		2E-06
Nickel	Carter Creek	9E-08	4E-10	2E-06		2E-06
Nickel	Dota Creek	9E-08	3E-10	2E-06		2E-06
Silver	Big Creek (includes Sulfur Spring Creek)	2E-09	0E+00	1E-06		1E-06
Silver	Carter Creek	2E-09	0E+00	1E-06		1E-06
Silver	Dota Creek	2E-09	0E+00	1E-06		1E-06
Thallium	Big Creek (includes Sulfur Spring Creek)	2E-07	3E-06	1E-06		4E-06
Thallium	Carter Creek	2E-07	3E-08	1E-06		2E-06
Thallium	Dota Creek	2E-07	2E-08	1E-06		2E-06
Antimony	Big Creek (includes Sulfur Spring Creek)	3E-09	0E+00	5E-07		5E-07
Antimony	Carter Creek	3E-09	0E+00	5E-07		5E-07
Antimony	Dota Creek	3E-09	0E+00	5E-07		5E-07
Arsenic	Big Creek (includes Sulfur Spring Creek)	2E-07	4E-07	3E-06		4E-06
Arsenic	Carter Creek	2E-07	4E-09	3E-06		4E-06
Arsenic	Dota Creek	2E-07	3E-09	3E-06		4E-06
Barium	Big Creek (includes Sulfur Spring Creek)	2E-06	0E+00	2E-07	7E-05	2E-06
Barium	Carter Creek	2E-06	0E+00	2E-07	7E-05	2E-06
Barium	Dota Creek	2E-06	0E+00	2E-07	7E-05	2E-06
Beryllium	Big Creek (includes Sulfur Spring Creek)	9E-08	2E-08	2E-08		1E-07
Beryllium	Carter Creek	9E-08	3E-10	2E-08		1E-07
Beryllium	Dota Creek	9E-08	3E-10	2E-08		1E-07

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Creek (includes Sulfur Spring Creek)	1E-05	2E-04	7E-05		3E-04
Cadmium	Carter Creek	1E-05	2E-06	7E-05		9E-05
Cadmium	Dota Creek	1E-05	2E-06	7E-05		9E-05
Chromium VI	Big Creek (includes Sulfur Spring Creek)	3E-07	1E-07	6E-06		6E-06
Chromium VI	Carter Creek	3E-07	1E-09	6E-06		6E-06
Chromium VI	Dota Creek	3E-07	8E-10	6E-06		6E-06
Chromium III	Big Creek (includes Sulfur Spring Creek)	4E-07	2E-09	1E-10		4E-07
Chromium III	Carter Creek	4E-07	3E-11	1E-10		4E-07
Chromium III	Dota Creek	4E-07	4E-11	1E-10		4E-07
Cobalt	Big Creek (includes Sulfur Spring Creek)	1E-08	0E+00	1E-10		1E-08
Cobalt	Carter Creek	1E-08	0E+00	1E-10		1E-08
Cobalt	Dota Creek	1E-08	0E+00	1E-10		1E-08
Hydrogen Chloride	Big Creek (includes Sulfur Spring Creek)				9E-03	
Hydrogen Chloride	Carter Creek				9E-03	
Hydrogen Chloride	Dota Creek				9E-03	
Selenium	Big Creek (includes Sulfur Spring Creek)	5E-08	1E-04	4E-06		1E-04
Selenium	Carter Creek	5E-08	2E-06	4E-06		5E-06
Selenium	Dota Creek	5E-08	1E-06	4E-06		5E-06
Chlorine	Big Creek (includes Sulfur Spring Creek)				7E-03	
Chlorine	Carter Creek				7E-03	
Chlorine	Dota Creek				7E-03	
Methylmercury - Developmental Effects	Big Creek (includes Sulfur Spring Creek)	4E-07	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Carter Creek	4E-07	5E-06	1E-09		6E-06
Methylmercury - Developmental Effects	Dota Creek	4E-07	6E-06	1E-09		7E-06
Methylmercury - Neurological Effects	Big Creek (includes Sulfur Spring Creek)	1E-07	6E-05	4E-10		6E-05
Methylmercury - Neurological Effects	Carter Creek	1E-07	2E-06	4E-10		2E-06
Methylmercury - Neurological Effects	Dota Creek	1E-07	2E-06	4E-10		2E-06

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Creek (includes Sulfur Spring Creek)	3E-09	3E-07	7E-11	3E-09	3E-07
2,3,7,8-TCDD-TEQ	Carter Creek	3E-09	4E-09	7E-11	3E-09	7E-09
2,3,7,8-TCDD-TEQ	Dota Creek	3E-09	5E-09	7E-11	3E-09	8E-09
Nickel	Big Creek (includes Sulfur Spring Creek)				5E-10	
Nickel	Carter Creek				5E-10	
Nickel	Dota Creek				5E-10	
Arsenic	Big Creek (includes Sulfur Spring Creek)	4E-12	2E-11	1E-10	3E-10	1E-10
Arsenic	Carter Creek	4E-12	2E-13	1E-10	3E-10	1E-10
Arsenic	Dota Creek	4E-12	1E-13	1E-10	3E-10	1E-10
Beryllium	Big Creek (includes Sulfur Spring Creek)				2E-11	
Beryllium	Carter Creek				2E-11	
Beryllium	Dota Creek				2E-11	
Cadmium	Big Creek (includes Sulfur Spring Creek)				4E-09	
Cadmium	Carter Creek				4E-09	
Cadmium	Dota Creek				4E-09	
Chromium VI	Big Creek (includes Sulfur Spring Creek)				2E-08	
Chromium VI	Carter Creek				2E-08	
Chromium VI	Dota Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Big Creek (includes Sulfur Spring Creek)	1E-08	0E+00	2E-07	4E-04	2E-07
Manganese	Carter Creek	1E-08	0E+00	2E-07	4E-04	2E-07
Manganese	Dota Creek	1E-08	0E+00	2E-07	4E-04	2E-07
Mercury (elemental)	Big Creek (includes Sulfur Spring Creek)				2E-04	
Mercury (elemental)	Carter Creek				2E-04	
Mercury (elemental)	Dota Creek				2E-04	
Mercury (divalent)	Big Creek (includes Sulfur Spring Creek)	2E-06		1E-08		2E-06
Mercury (divalent)	Carter Creek	2E-06		1E-08		2E-06
Mercury (divalent)	Dota Creek	2E-06		1E-08		2E-06
Nickel	Big Creek (includes Sulfur Spring Creek)	2E-08	4E-08	9E-07		1E-06
Nickel	Carter Creek	2E-08	4E-10	9E-07		9E-07
Nickel	Dota Creek	2E-08	3E-10	9E-07		9E-07
Silver	Big Creek (includes Sulfur Spring Creek)	4E-10	0E+00	7E-07		7E-07
Silver	Carter Creek	4E-10	0E+00	7E-07		7E-07
Silver	Dota Creek	4E-10	0E+00	7E-07		7E-07
Thallium	Big Creek (includes Sulfur Spring Creek)	6E-08	3E-06	8E-07		4E-06
Thallium	Carter Creek	6E-08	3E-08	8E-07		9E-07
Thallium	Dota Creek	6E-08	2E-08	8E-07		9E-07
Antimony	Big Creek (includes Sulfur Spring Creek)	7E-10	0E+00	3E-07		3E-07
Antimony	Carter Creek	7E-10	0E+00	3E-07		3E-07
Antimony	Dota Creek	7E-10	0E+00	3E-07		3E-07
Arsenic	Big Creek (includes Sulfur Spring Creek)	6E-08	4E-07	2E-06		2E-06
Arsenic	Carter Creek	6E-08	4E-09	2E-06		2E-06
Arsenic	Dota Creek	6E-08	3E-09	2E-06		2E-06
Barium	Big Creek (includes Sulfur Spring Creek)	5E-07	0E+00	1E-07	7E-05	6E-07
Barium	Carter Creek	5E-07	0E+00	1E-07	7E-05	6E-07
Barium	Dota Creek	5E-07	0E+00	1E-07	7E-05	6E-07
Beryllium	Big Creek (includes Sulfur Spring Creek)	2E-08	2E-08	1E-08		5E-08
Beryllium	Carter Creek	2E-08	3E-10	1E-08		3E-08
Beryllium	Dota Creek	2E-08	3E-10	1E-08		3E-08

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Creek (includes Sulfur Spring Creek)	3E-06	2E-04	4E-05		3E-04
Cadmium	Carter Creek	3E-06	2E-06	4E-05		5E-05
Cadmium	Dota Creek	3E-06	2E-06	4E-05		5E-05
Chromium VI	Big Creek (includes Sulfur Spring Creek)	7E-08	1E-07	3E-06		3E-06
Chromium VI	Carter Creek	7E-08	1E-09	3E-06		3E-06
Chromium VI	Dota Creek	7E-08	8E-10	3E-06		3E-06
Chromium III	Big Creek (includes Sulfur Spring Creek)	1E-07	2E-09	7E-11		1E-07
Chromium III	Carter Creek	1E-07	3E-11	7E-11		1E-07
Chromium III	Dota Creek	1E-07	4E-11	7E-11		1E-07
Cobalt	Big Creek (includes Sulfur Spring Creek)	3E-09	0E+00	7E-11		4E-09
Cobalt	Carter Creek	3E-09	0E+00	7E-11		4E-09
Cobalt	Dota Creek	3E-09	0E+00	7E-11		4E-09
Hydrogen Chloride	Big Creek (includes Sulfur Spring Creek)				9E-03	
Hydrogen Chloride	Carter Creek				9E-03	
Hydrogen Chloride	Dota Creek				9E-03	
Selenium	Big Creek (includes Sulfur Spring Creek)	1E-08	1E-04	2E-06		1E-04
Selenium	Carter Creek	1E-08	2E-06	2E-06		4E-06
Selenium	Dota Creek	1E-08	1E-06	2E-06		3E-06
Chlorine	Big Creek (includes Sulfur Spring Creek)				7E-03	
Chlorine	Carter Creek				7E-03	
Chlorine	Dota Creek				7E-03	
Methylmercury - Developmental Effects	Big Creek (includes Sulfur Spring Creek)	1E-07	2E-04	7E-10		2E-04
Methylmercury - Developmental Effects	Carter Creek	1E-07	5E-06	7E-10		5E-06
Methylmercury - Developmental Effects	Dota Creek	1E-07	6E-06	7E-10		6E-06
Methylmercury - Neurological Effects	Big Creek (includes Sulfur Spring Creek)	3E-08	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Carter Creek	3E-08	2E-06	2E-10		2E-06
Methylmercury - Neurological Effects	Dota Creek	3E-08	2E-06	2E-10		2E-06

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Creek (includes Sulfur Spring Creek)	1E-09	2E-07	5E-11	2E-09	2E-07
2,3,7,8-TCDD-TEQ	Carter Creek	1E-09	3E-09	5E-11	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Dota Creek	1E-09	4E-09	5E-11	2E-09	5E-09
Nickel	Big Creek (includes Sulfur Spring Creek)				3E-10	
Nickel	Carter Creek				3E-10	
Nickel	Dota Creek				3E-10	
Arsenic	Big Creek (includes Sulfur Spring Creek)	2E-12	1E-11	7E-11	2E-10	8E-11
Arsenic	Carter Creek	2E-12	2E-13	7E-11	2E-10	7E-11
Arsenic	Dota Creek	2E-12	1E-13	7E-11	2E-10	7E-11
Beryllium	Big Creek (includes Sulfur Spring Creek)				1E-11	
Beryllium	Carter Creek				1E-11	
Beryllium	Dota Creek				1E-11	
Cadmium	Big Creek (includes Sulfur Spring Creek)				3E-09	
Cadmium	Carter Creek				3E-09	
Cadmium	Dota Creek				3E-09	
Chromium VI	Big Creek (includes Sulfur Spring Creek)				2E-08	
Chromium VI	Carter Creek				2E-08	
Chromium VI	Dota Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Big Creek (includes Sulfur Spring Creek)	7E-09	0E+00	1E-07	4E-04	1E-07
Manganese	Carter Creek	7E-09	0E+00	1E-07	4E-04	1E-07
Manganese	Dota Creek	7E-09	0E+00	1E-07	4E-04	1E-07
Mercury (elemental)	Big Creek (includes Sulfur Spring Creek)				2E-04	
Mercury (elemental)	Carter Creek				2E-04	
Mercury (elemental)	Dota Creek				2E-04	
Mercury (divalent)	Big Creek (includes Sulfur Spring Creek)	9E-07		8E-09		9E-07
Mercury (divalent)	Carter Creek	9E-07		8E-09		9E-07
Mercury (divalent)	Dota Creek	9E-07		8E-09		9E-07
Nickel	Big Creek (includes Sulfur Spring Creek)	1E-08	3E-08	6E-07		6E-07
Nickel	Carter Creek	1E-08	3E-10	6E-07		6E-07
Nickel	Dota Creek	1E-08	2E-10	6E-07		6E-07
Silver	Big Creek (includes Sulfur Spring Creek)	2E-10	0E+00	4E-07		4E-07
Silver	Carter Creek	2E-10	0E+00	4E-07		4E-07
Silver	Dota Creek	2E-10	0E+00	4E-07		4E-07
Thallium	Big Creek (includes Sulfur Spring Creek)	3E-08	2E-06	5E-07		3E-06
Thallium	Carter Creek	3E-08	2E-08	5E-07		6E-07
Thallium	Dota Creek	3E-08	2E-08	5E-07		5E-07
Antimony	Big Creek (includes Sulfur Spring Creek)	3E-10	0E+00	2E-07		2E-07
Antimony	Carter Creek	3E-10	0E+00	2E-07		2E-07
Antimony	Dota Creek	3E-10	0E+00	2E-07		2E-07
Arsenic	Big Creek (includes Sulfur Spring Creek)	3E-08	3E-07	1E-06		2E-06
Arsenic	Carter Creek	3E-08	3E-09	1E-06		1E-06
Arsenic	Dota Creek	3E-08	2E-09	1E-06		1E-06
Barium	Big Creek (includes Sulfur Spring Creek)	2E-07	0E+00	8E-08	7E-05	3E-07
Barium	Carter Creek	2E-07	0E+00	8E-08	7E-05	3E-07
Barium	Dota Creek	2E-07	0E+00	8E-08	7E-05	3E-07
Beryllium	Big Creek (includes Sulfur Spring Creek)	1E-08	1E-08	7E-09		3E-08
Beryllium	Carter Creek	1E-08	2E-10	7E-09		2E-08
Beryllium	Dota Creek	1E-08	2E-10	7E-09		2E-08

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Creek (includes Sulfur Spring Creek)	1E-06	2E-04	3E-05		2E-04
Cadmium	Carter Creek	1E-06	2E-06	3E-05		3E-05
Cadmium	Dota Creek	1E-06	1E-06	3E-05		3E-05
Chromium VI	Big Creek (includes Sulfur Spring Creek)	4E-08	8E-08	2E-06		2E-06
Chromium VI	Carter Creek	4E-08	8E-10	2E-06		2E-06
Chromium VI	Dota Creek	4E-08	6E-10	2E-06		2E-06
Chromium III	Big Creek (includes Sulfur Spring Creek)	5E-08	1E-09	5E-11		5E-08
Chromium III	Carter Creek	5E-08	2E-11	5E-11		5E-08
Chromium III	Dota Creek	5E-08	3E-11	5E-11		5E-08
Cobalt	Big Creek (includes Sulfur Spring Creek)	2E-09	0E+00	4E-08		5E-08
Cobalt	Carter Creek	2E-09	0E+00	4E-08		5E-08
Cobalt	Dota Creek	2E-09	0E+00	4E-08		5E-08
Hydrogen Chloride	Big Creek (includes Sulfur Spring Creek)				9E-03	
Hydrogen Chloride	Carter Creek				9E-03	
Hydrogen Chloride	Dota Creek				9E-03	
Selenium	Big Creek (includes Sulfur Spring Creek)	7E-09	1E-04	1E-06		1E-04
Selenium	Carter Creek	7E-09	1E-06	1E-06		2E-06
Selenium	Dota Creek	7E-09	8E-07	1E-06		2E-06
Chlorine	Big Creek (includes Sulfur Spring Creek)				7E-03	
Chlorine	Carter Creek				7E-03	
Chlorine	Dota Creek				7E-03	
Methylmercury - Developmental Effects	Big Creek (includes Sulfur Spring Creek)	5E-08	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Carter Creek	5E-08	4E-06	5E-10		4E-06
Methylmercury - Developmental Effects	Dota Creek	5E-08	5E-06	5E-10		5E-06
Methylmercury - Neurological Effects	Big Creek (includes Sulfur Spring Creek)	2E-08	4E-05	2E-10		4E-05
Methylmercury - Neurological Effects	Carter Creek	2E-08	1E-06	2E-10		1E-06
Methylmercury - Neurological Effects	Dota Creek	2E-08	2E-06	2E-10		2E-06

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Big Creek (includes Sulfur Spring Creek)	1E-09	4E-07	1E-10	3E-09	4E-07
2,3,7,8-TCDD-TEQ	Carter Creek	1E-09	6E-09	1E-10	3E-09	7E-09
2,3,7,8-TCDD-TEQ	Dota Creek	1E-09	7E-09	1E-10	3E-09	8E-09
Nickel	Big Creek (includes Sulfur Spring Creek)				5E-10	
Nickel	Carter Creek				5E-10	
Nickel	Dota Creek				5E-10	
Arsenic	Big Creek (includes Sulfur Spring Creek)	1E-12	3E-11	2E-10	3E-10	2E-10
Arsenic	Carter Creek	1E-12	3E-13	2E-10	3E-10	2E-10
Arsenic	Dota Creek	1E-12	2E-13	2E-10	3E-10	2E-10
Beryllium	Big Creek (includes Sulfur Spring Creek)				2E-11	
Beryllium	Carter Creek				2E-11	
Beryllium	Dota Creek				2E-11	
Cadmium	Big Creek (includes Sulfur Spring Creek)				4E-09	
Cadmium	Carter Creek				4E-09	
Cadmium	Dota Creek				4E-09	
Chromium VI	Big Creek (includes Sulfur Spring Creek)				2E-08	
Chromium VI	Carter Creek				2E-08	
Chromium VI	Dota Creek				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Big Creek (includes Sulfur Spring Creek)	3E-09	0E+00	1E-07	4E-04	1E-07
Manganese	Carter Creek	3E-09	0E+00	1E-07	4E-04	1E-07
Manganese	Dota Creek	3E-09	0E+00	1E-07	4E-04	1E-07
Mercury (elemental)	Big Creek (includes Sulfur Spring Creek)				2E-04	
Mercury (elemental)	Carter Creek				2E-04	
Mercury (elemental)	Dota Creek				2E-04	
Mercury (divalent)	Big Creek (includes Sulfur Spring Creek)	4E-07		9E-09		4E-07
Mercury (divalent)	Carter Creek	4E-07		9E-09		4E-07
Mercury (divalent)	Dota Creek	4E-07		9E-09		4E-07
Nickel	Big Creek (includes Sulfur Spring Creek)	5E-09	3E-08	7E-07		7E-07
Nickel	Carter Creek	5E-09	3E-10	7E-07		7E-07
Nickel	Dota Creek	5E-09	2E-10	7E-07		7E-07
Silver	Big Creek (includes Sulfur Spring Creek)	9E-11	0E+00	5E-07		5E-07
Silver	Carter Creek	9E-11	0E+00	5E-07		5E-07
Silver	Dota Creek	9E-11	0E+00	5E-07		5E-07
Thallium	Big Creek (includes Sulfur Spring Creek)	1E-08	2E-06	6E-07		3E-06
Thallium	Carter Creek	1E-08	2E-08	6E-07		6E-07
Thallium	Dota Creek	1E-08	2E-08	6E-07		6E-07
Antimony	Big Creek (includes Sulfur Spring Creek)	1E-10	0E+00	2E-07		2E-07
Antimony	Carter Creek	1E-10	0E+00	2E-07		2E-07
Antimony	Dota Creek	1E-10	0E+00	2E-07		2E-07
Arsenic	Big Creek (includes Sulfur Spring Creek)	1E-08	3E-07	1E-06		2E-06
Arsenic	Carter Creek	1E-08	3E-09	1E-06		1E-06
Arsenic	Dota Creek	1E-08	2E-09	1E-06		1E-06
Barium	Big Creek (includes Sulfur Spring Creek)	1E-07	0E+00	9E-08	7E-05	2E-07
Barium	Carter Creek	1E-07	0E+00	9E-08	7E-05	2E-07
Barium	Dota Creek	1E-07	0E+00	9E-08	7E-05	2E-07
Beryllium	Big Creek (includes Sulfur Spring Creek)	5E-09	1E-08	8E-09		3E-08
Beryllium	Carter Creek	5E-09	2E-10	8E-09		1E-08
Beryllium	Dota Creek	5E-09	2E-10	8E-09		1E-08

Table IX-E26. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A26) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Big Creek (includes Sulfur Spring Creek)	6E-07	2E-04	3E-05		2E-04
Cadmium	Carter Creek	6E-07	2E-06	3E-05		3E-05
Cadmium	Dota Creek	6E-07	1E-06	3E-05		3E-05
Chromium VI	Big Creek (includes Sulfur Spring Creek)	2E-08	8E-08	2E-06		3E-06
Chromium VI	Carter Creek	2E-08	8E-10	2E-06		2E-06
Chromium VI	Dota Creek	2E-08	6E-10	2E-06		2E-06
Chromium III	Big Creek (includes Sulfur Spring Creek)	2E-08	1E-09	5E-11		2E-08
Chromium III	Carter Creek	2E-08	2E-11	5E-11		2E-08
Chromium III	Dota Creek	2E-08	3E-11	5E-11		2E-08
Cobalt	Big Creek (includes Sulfur Spring Creek)	7E-10	0E+00	5E-08		5E-08
Cobalt	Carter Creek	7E-10	0E+00	5E-08		5E-08
Cobalt	Dota Creek	7E-10	0E+00	5E-08		5E-08
Hydrogen Chloride	Big Creek (includes Sulfur Spring Creek)				9E-03	
Hydrogen Chloride	Carter Creek				9E-03	
Hydrogen Chloride	Dota Creek				9E-03	
Selenium	Big Creek (includes Sulfur Spring Creek)	3E-09	1E-04	2E-06		1E-04
Selenium	Carter Creek	3E-09	1E-06	2E-06		3E-06
Selenium	Dota Creek	3E-09	8E-07	2E-06		2E-06
Chlorine	Big Creek (includes Sulfur Spring Creek)				7E-03	
Chlorine	Carter Creek				7E-03	
Chlorine	Dota Creek				7E-03	
Methylmercury - Developmental Effects	Big Creek (includes Sulfur Spring Creek)	2E-08	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Carter Creek	2E-08	4E-06	5E-10		4E-06
Methylmercury - Developmental Effects	Dota Creek	2E-08	5E-06	5E-10		5E-06
Methylmercury - Neurological Effects	Big Creek (includes Sulfur Spring Creek)	7E-09	4E-05	2E-10		4E-05
Methylmercury - Neurological Effects	Carter Creek	7E-09	1E-06	2E-10		1E-06
Methylmercury - Neurological Effects	Dota Creek	7E-09	2E-06	2E-10		2E-06

Table IX-E27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	5E-10	2E-10	1E-09	3E-07	3E-06	2E-08	1E-07	6E-08	6E-08		1E-09	3E-06
Nickel												5E-11	
Arsenic	2E-10	1E-10	4E-11	2E-10	7E-10	1E-09	4E-11			2E-09		6E-09	4E-09
Beryllium												5E-10	
Cadmium												4E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	7E-08	3E-07	5E-08	2E-06	4E-09			0E+00		8E-04	3E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	5E-06	3E-05	1E-05	2E-04	1E-03	7E-07						2E-03
Nickel	1E-08	5E-09	2E-09	1E-08	1E-07	1E-06	7E-09			2E-08			1E-06
Silver	3E-09	4E-08	1E-08	1E-07	7E-07	3E-04	2E-08			0E+00			3E-04
Thallium	2E-04	1E-05	8E-07	4E-05	4E-03	1E-02	4E-04			7E-03			2E-02
Antimony	1E-08	5E-08	1E-08	1E-07	2E-07	1E-06	9E-09			0E+00			2E-06
Arsenic	6E-06	3E-06	1E-06	6E-06	2E-05	3E-05	1E-06			4E-05			1E-04
Barium	3E-07	3E-08	7E-09	5E-08	1E-08	2E-06	2E-09			0E+00		1E-05	2E-06
Beryllium	3E-06	4E-08	7E-09	9E-08	4E-07	2E-08	1E-07			2E-07			4E-06
Cadmium	1E-06	1E-06	6E-07	2E-06	1E-07	4E-07	2E-08			7E-05			8E-05
Chromium VI	1E-07	5E-08	2E-08	1E-07	2E-06	3E-05	1E-07			3E-07			3E-05
Chromium III	1E-07	2E-09	1E-09	4E-09	1E-07	1E-06	3E-08			1E-11			2E-06
Cobalt	3E-08	7E-09	4E-11	2E-08	6E-07	4E-06	5E-08			0E+00			4E-06
Hydrogen Chloride												2E-04	
Selenium	1E-09	1E-09	9E-10	4E-09	3E-08	3E-06	1E-07			2E-05			2E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	2E-05	1E-06	5E-06	2E-06	1E-05	1E-04	4E-08			1E-02			1E-02
Methylmercury - Neurological Effects	6E-06	4E-07	2E-06	5E-07	4E-06	4E-05	1E-08			3E-03			3E-03

Table IX-E27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	4E-10	2E-10	1E-09	4E-07	2E-06	2E-08	1E-07	7E-08	6E-08		2E-09	3E-06
Nickel												6E-11	
Arsenic	8E-11	7E-11	4E-11	3E-10	1E-09	8E-10	4E-11			2E-09		7E-09	4E-09
Beryllium												6E-10	
Cadmium												5E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	8E-08	5E-08	3E-07	6E-08	1E-06	2E-09			0E+00		8E-04	2E-06
Mercury (elemental)												1E-06	
Mercury (divalent)	NA	3E-06	2E-05	1E-05	2E-04	7E-04	4E-07						1E-03
Nickel	3E-09	3E-09	1E-09	1E-08	2E-07	6E-07	4E-09			2E-08			8E-07
Silver	8E-10	2E-08	7E-09	1E-07	8E-07	1E-04	1E-08			0E+00			1E-04
Thallium	4E-05	8E-06	5E-07	4E-05	5E-03	6E-03	3E-04			5E-03			2E-02
Antimony	3E-09	3E-08	8E-09	1E-07	3E-07	7E-07	5E-09			0E+00			1E-06
Arsenic	1E-06	1E-06	7E-07	6E-06	2E-05	1E-05	7E-07			3E-05			7E-05
Barium	7E-08	1E-08	5E-09	5E-08	2E-08	8E-07	1E-09			0E+00		1E-05	1E-06
Beryllium	7E-07	2E-08	5E-09	9E-08	5E-07	8E-09	8E-08			1E-07			2E-06
Cadmium	3E-07	7E-07	4E-07	2E-06	1E-07	2E-07	1E-08			6E-05			6E-05
Chromium VI	4E-08	3E-08	1E-08	1E-07	2E-06	1E-05	6E-08			2E-07			2E-05
Chromium III	3E-08	9E-10	7E-10	4E-09	1E-07	6E-07	2E-08			1E-11			8E-07
Cobalt	8E-09	4E-09	3E-11	2E-08	7E-07	2E-06	3E-08			0E+00			3E-06
Hydrogen Chloride												2E-04	
Selenium	3E-10	8E-10	6E-10	4E-09	3E-08	1E-06	6E-08			2E-05			2E-05
Chlorine												2E-04	
Methylmercury - Developmental Effects	5E-06	7E-07	3E-06	1E-06	1E-05	6E-05	3E-08			7E-03			7E-03
Methylmercury - Neurological Effects	2E-06	2E-07	1E-06	5E-07	5E-06	2E-05	9E-09			2E-03			2E-03

Table IX-E27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-10	3E-10	1E-10	7E-10	2E-07	9E-07	1E-08	7E-08	4E-08	3E-08		1E-09	1E-06
Nickel												4E-11	
Arsenic	4E-11	6E-11	3E-11	2E-10	5E-10	4E-10	2E-11			9E-10		4E-09	2E-09
Beryllium												4E-10	
Cadmium												3E-10	
Chromium VI												8E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	4E-08	1E-07	3E-08	6E-07	1E-09			0E+00		8E-04	8E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	4E-05	2E-06	2E-05	6E-06	9E-05	3E-04	3E-07			0E+00			5E-04
Nickel	1E-09	2E-09	1E-09	6E-09	7E-08	3E-07	3E-09			9E-09			4E-07
Silver	4E-10	2E-08	5E-09	5E-08	4E-07	6E-05	1E-08			0E+00			6E-05
Thallium	2E-05	6E-06	4E-07	2E-05	2E-03	3E-03	2E-04			3E-03			8E-03
Antimony	2E-09	2E-08	6E-09	7E-08	1E-07	3E-07	3E-09			0E+00			5E-07
Arsenic	8E-07	1E-06	5E-07	3E-06	9E-06	7E-06	4E-07			2E-05			4E-05
Barium	4E-08	1E-08	3E-09	3E-08	7E-09	4E-07	7E-10			0E+00		1E-05	5E-07
Beryllium	4E-07	2E-08	3E-09	5E-08	2E-07	4E-09	5E-08			7E-08			8E-07
Cadmium	2E-07	5E-07	3E-07	1E-06	6E-08	1E-07	8E-09			3E-05			3E-05
Chromium VI	2E-08	2E-08	9E-09	7E-08	9E-07	6E-06	4E-08			1E-07			8E-06
Chromium III	2E-08	7E-10	5E-10	2E-09	6E-08	3E-07	1E-08			5E-12			4E-07
Cobalt	4E-09	3E-09	2E-11	9E-09	3E-07	8E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												2E-04	
Selenium	2E-10	6E-10	5E-10	2E-09	2E-08	6E-07	4E-08			8E-06			9E-06
Chlorine												2E-04	
Methylmercury - Developmental Effects	3E-06	5E-07	2E-06	8E-07	7E-06	3E-05	2E-08			4E-03			4E-03
Methylmercury - Neurological Effects	8E-07	2E-07	8E-07	3E-07	2E-06	9E-06	6E-09			1E-03			1E-03

Table IX-E27. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-10	8E-10	2E-10	1E-09	4E-07	8E-07	2E-08	1E-07	6E-08	7E-08		2E-09	1E-06
Nickel												6E-11	
Arsenic	3E-11	1E-10	5E-11	3E-10	1E-09	3E-10	4E-11			2E-09		7E-09	4E-09
Beryllium												5E-10	
Cadmium												5E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-09	8E-08	4E-08	1E-07	3E-08	2E-07	1E-09			0E+00		8E-04	5E-07
Mercury (elemental)												1E-06	
Mercury (divalent)	2E-05	3E-06	2E-05	6E-06	1E-04	1E-04	2E-07			0E+00			3E-04
Nickel	6E-10	3E-09	1E-09	6E-09	8E-08	1E-07	2E-09			1E-08			2E-07
Silver	2E-10	2E-08	5E-09	5E-08	4E-07	3E-05	8E-09			0E+00			3E-05
Thallium	9E-06	8E-06	4E-07	2E-05	3E-03	1E-03	1E-04			3E-03			7E-03
Antimony	7E-10	3E-08	7E-09	6E-08	1E-07	1E-07	3E-09			0E+00			4E-07
Arsenic	3E-07	1E-06	6E-07	3E-06	1E-05	3E-06	4E-07			2E-05			4E-05
Barium	1E-08	2E-08	4E-09	2E-08	8E-09	2E-07	6E-10			0E+00		1E-05	2E-07
Beryllium	1E-07	2E-08	4E-09	5E-08	2E-07	2E-09	4E-08			8E-08			6E-07
Cadmium	7E-08	7E-07	3E-07	1E-06	7E-08	4E-08	7E-09			3E-05			4E-05
Chromium VI	8E-09	3E-08	1E-08	6E-08	1E-06	3E-06	3E-08			1E-07			4E-06
Chromium III	7E-09	9E-10	6E-10	2E-09	6E-08	1E-07	1E-08			6E-12			2E-07
Cobalt	2E-09	4E-09	2E-11	8E-09	4E-07	4E-07	2E-08			0E+00			8E-07
Hydrogen Chloride												2E-04	
Selenium	7E-11	8E-10	5E-10	2E-09	2E-08	3E-07	3E-08			9E-06			9E-06
Chlorine												2E-04	
Methylmercury - Developmental Effects	1E-06	7E-07	3E-06	7E-07	8E-06	1E-05	1E-08			4E-03			4E-03
Methylmercury - Neurological Effects	3E-07	2E-07	9E-07	2E-07	3E-06	4E-06	5E-09			1E-03			1E-03

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Nottaway River	5E-09	2E-08	0E+00	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Chowan River	5E-09	2E-09	0E+00	1E-09	7E-09
2,3,7,8-TCDD-TEQ	Nottaway Swamp (a creek)	5E-09	1E-07	0E+00	1E-09	1E-07
Nickel	Nottaway River				5E-11	
Nickel	Chowan River				5E-11	
Nickel	Nottaway Swamp (a creek)				5E-11	
Arsenic	Nottaway River	2E-10	8E-12	0E+00	6E-09	2E-10
Arsenic	Chowan River	2E-10	1E-12	0E+00	6E-09	2E-10
Arsenic	Nottaway Swamp (a creek)	2E-10	6E-11	0E+00	6E-09	3E-10
Beryllium	Nottaway River				5E-10	
Beryllium	Chowan River				5E-10	
Beryllium	Nottaway Swamp (a creek)				5E-10	
Cadmium	Nottaway River				4E-10	
Cadmium	Chowan River				4E-10	
Cadmium	Nottaway Swamp (a creek)				4E-10	
Chromium VI	Nottaway River				1E-08	
Chromium VI	Chowan River				1E-08	
Chromium VI	Nottaway Swamp (a creek)				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Nottaway River	1E-07	0E+00	0E+00	8E-04	1E-07
Manganese	Chowan River	1E-07	0E+00	0E+00	8E-04	1E-07
Manganese	Nottaway Swamp (a creek)	1E-07	0E+00	0E+00	8E-04	1E-07
Mercury (elemental)	Nottaway River				1E-06	
Mercury (elemental)	Chowan River				1E-06	
Mercury (elemental)	Nottaway Swamp (a creek)				1E-06	
Mercury (divalent)	Nottaway River	3E-04		0E+00		3E-04
Mercury (divalent)	Chowan River	3E-04		0E+00		3E-04
Mercury (divalent)	Nottaway Swamp (a creek)	3E-04		0E+00		3E-04
Nickel	Nottaway River	1E-08	1E-10	0E+00		1E-08
Nickel	Chowan River	1E-08	2E-11	0E+00		1E-08
Nickel	Nottaway Swamp (a creek)	1E-08	9E-10	0E+00		1E-08
Silver	Nottaway River	3E-09	0E+00	0E+00		3E-09
Silver	Chowan River	3E-09	0E+00	0E+00		3E-09
Silver	Nottaway Swamp (a creek)	3E-09	0E+00	0E+00		3E-09
Thallium	Nottaway River	2E-04	4E-05	0E+00		2E-04
Thallium	Chowan River	2E-04	8E-06	0E+00		2E-04
Thallium	Nottaway Swamp (a creek)	2E-04	4E-04	0E+00		5E-04
Antimony	Nottaway River	1E-08	0E+00	0E+00		1E-08
Antimony	Chowan River	1E-08	0E+00	0E+00		1E-08
Antimony	Nottaway Swamp (a creek)	1E-08	0E+00	0E+00		1E-08
Arsenic	Nottaway River	6E-06	2E-07	0E+00		6E-06
Arsenic	Chowan River	6E-06	3E-08	0E+00		6E-06
Arsenic	Nottaway Swamp (a creek)	6E-06	2E-06	0E+00		7E-06
Barium	Nottaway River	3E-07	0E+00	0E+00	1E-05	3E-07
Barium	Chowan River	3E-07	0E+00	0E+00	1E-05	3E-07
Barium	Nottaway Swamp (a creek)	3E-07	0E+00	0E+00	1E-05	3E-07
Beryllium	Nottaway River	3E-06	9E-09	0E+00		3E-06
Beryllium	Chowan River	3E-06	1E-09	0E+00		3E-06
Beryllium	Nottaway Swamp (a creek)	3E-06	8E-08	0E+00		3E-06

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Nottaway River	1E-06	5E-07	0E+00		2E-06
Cadmium	Chowan River	1E-06	9E-08	0E+00		1E-06
Cadmium	Nottaway Swamp (a creek)	1E-06	4E-06	0E+00		6E-06
Chromium VI	Nottaway River	1E-07	1E-09	0E+00		1E-07
Chromium VI	Chowan River	1E-07	2E-10	0E+00		1E-07
Chromium VI	Nottaway Swamp (a creek)	1E-07	1E-08	0E+00		2E-07
Chromium III	Nottaway River	1E-07	1E-11	0E+00		1E-07
Chromium III	Chowan River	1E-07	1E-12	0E+00		1E-07
Chromium III	Nottaway Swamp (a creek)	1E-07	9E-11	0E+00		1E-07
Cobalt	Nottaway River	3E-08	0E+00	0E+00		3E-08
Cobalt	Chowan River	3E-08	0E+00	0E+00		3E-08
Cobalt	Nottaway Swamp (a creek)	3E-08	0E+00	0E+00		3E-08
Hydrogen Chloride	Nottaway River				2E-04	
Hydrogen Chloride	Chowan River				2E-04	
Hydrogen Chloride	Nottaway Swamp (a creek)				2E-04	
Selenium	Nottaway River	1E-09	9E-08	0E+00		9E-08
Selenium	Chowan River	1E-09	2E-08	0E+00		2E-08
Selenium	Nottaway Swamp (a creek)	1E-09	7E-07	0E+00		7E-07
Chlorine	Nottaway River				2E-04	
Chlorine	Chowan River				2E-04	
Chlorine	Nottaway Swamp (a creek)				2E-04	
Methylmercury - Developmental Effects	Nottaway River	2E-05	7E-03	0E+00		7E-03
Methylmercury - Developmental Effects	Chowan River	2E-05	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Nottaway Swamp (a creek)	2E-05	5E-02	0E+00		5E-02
Methylmercury - Neurological Effects	Nottaway River	6E-06	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Chowan River	6E-06	8E-04	0E+00		8E-04
Methylmercury - Neurological Effects	Nottaway Swamp (a creek)	6E-06	2E-02	0E+00		2E-02

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Nottaway River	2E-09	2E-08	0E+00	2E-09	2E-08
2,3,7,8-TCDD-TEQ	Chowan River	2E-09	3E-09	0E+00	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Nottaway Swamp (a creek)	2E-09	2E-07	0E+00	2E-09	2E-07
Nickel	Nottaway River				6E-11	
Nickel	Chowan River				6E-11	
Nickel	Nottaway Swamp (a creek)				6E-11	
Arsenic	Nottaway River	8E-11	1E-11	0E+00	7E-09	9E-11
Arsenic	Chowan River	8E-11	2E-12	0E+00	7E-09	8E-11
Arsenic	Nottaway Swamp (a creek)	8E-11	9E-11	0E+00	7E-09	2E-10
Beryllium	Nottaway River				6E-10	
Beryllium	Chowan River				6E-10	
Beryllium	Nottaway Swamp (a creek)				6E-10	
Cadmium	Nottaway River				5E-10	
Cadmium	Chowan River				5E-10	
Cadmium	Nottaway Swamp (a creek)				5E-10	
Chromium VI	Nottaway River				1E-08	
Chromium VI	Chowan River				1E-08	
Chromium VI	Nottaway Swamp (a creek)				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Nottaway River	3E-08	0E+00	0E+00	8E-04	3E-08
Manganese	Chowan River	3E-08	0E+00	0E+00	8E-04	3E-08
Manganese	Nottaway Swamp (a creek)	3E-08	0E+00	0E+00	8E-04	3E-08
Mercury (elemental)	Nottaway River				1E-06	
Mercury (elemental)	Chowan River				1E-06	
Mercury (elemental)	Nottaway Swamp (a creek)				1E-06	
Mercury (divalent)	Nottaway River	8E-05		0E+00		8E-05
Mercury (divalent)	Chowan River	8E-05		0E+00		8E-05
Mercury (divalent)	Nottaway Swamp (a creek)	8E-05		0E+00		8E-05
Nickel	Nottaway River	3E-09	1E-10	0E+00		3E-09
Nickel	Chowan River	3E-09	2E-11	0E+00		3E-09
Nickel	Nottaway Swamp (a creek)	3E-09	9E-10	0E+00		4E-09
Silver	Nottaway River	8E-10	0E+00	0E+00		8E-10
Silver	Chowan River	8E-10	0E+00	0E+00		8E-10
Silver	Nottaway Swamp (a creek)	8E-10	0E+00	0E+00		8E-10
Thallium	Nottaway River	4E-05	4E-05	0E+00		9E-05
Thallium	Chowan River	4E-05	8E-06	0E+00		5E-05
Thallium	Nottaway Swamp (a creek)	4E-05	4E-04	0E+00		4E-04
Antimony	Nottaway River	3E-09	0E+00	0E+00		3E-09
Antimony	Chowan River	3E-09	0E+00	0E+00		3E-09
Antimony	Nottaway Swamp (a creek)	3E-09	0E+00	0E+00		3E-09
Arsenic	Nottaway River	1E-06	2E-07	0E+00		2E-06
Arsenic	Chowan River	1E-06	3E-08	0E+00		2E-06
Arsenic	Nottaway Swamp (a creek)	1E-06	2E-06	0E+00		3E-06
Barium	Nottaway River	7E-08	0E+00	0E+00	1E-05	7E-08
Barium	Chowan River	7E-08	0E+00	0E+00	1E-05	7E-08
Barium	Nottaway Swamp (a creek)	7E-08	0E+00	0E+00	1E-05	7E-08
Beryllium	Nottaway River	7E-07	9E-09	0E+00		7E-07
Beryllium	Chowan River	7E-07	1E-09	0E+00		7E-07
Beryllium	Nottaway Swamp (a creek)	7E-07	8E-08	0E+00		8E-07

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Nottaway River	3E-07	5E-07	0E+00		8E-07
Cadmium	Chowan River	3E-07	9E-08	0E+00		4E-07
Cadmium	Nottaway Swamp (a creek)	3E-07	4E-06	0E+00		5E-06
Chromium VI	Nottaway River	4E-08	1E-09	0E+00		4E-08
Chromium VI	Chowan River	4E-08	2E-10	0E+00		4E-08
Chromium VI	Nottaway Swamp (a creek)	4E-08	1E-08	0E+00		5E-08
Chromium III	Nottaway River	3E-08	1E-11	0E+00		3E-08
Chromium III	Chowan River	3E-08	1E-12	0E+00		3E-08
Chromium III	Nottaway Swamp (a creek)	3E-08	9E-11	0E+00		3E-08
Cobalt	Nottaway River	8E-09	0E+00	0E+00		8E-09
Cobalt	Chowan River	8E-09	0E+00	0E+00		8E-09
Cobalt	Nottaway Swamp (a creek)	8E-09	0E+00	0E+00		8E-09
Hydrogen Chloride	Nottaway River				2E-04	
Hydrogen Chloride	Chowan River				2E-04	
Hydrogen Chloride	Nottaway Swamp (a creek)				2E-04	
Selenium	Nottaway River	3E-10	9E-08	0E+00		9E-08
Selenium	Chowan River	3E-10	2E-08	0E+00		2E-08
Selenium	Nottaway Swamp (a creek)	3E-10	7E-07	0E+00		7E-07
Chlorine	Nottaway River				2E-04	
Chlorine	Chowan River				2E-04	
Chlorine	Nottaway Swamp (a creek)				2E-04	
Methylmercury - Developmental Effects	Nottaway River	5E-06	7E-03	0E+00		7E-03
Methylmercury - Developmental Effects	Chowan River	5E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Nottaway Swamp (a creek)	5E-06	5E-02	0E+00		5E-02
Methylmercury - Neurological Effects	Nottaway River	2E-06	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Chowan River	2E-06	8E-04	0E+00		8E-04
Methylmercury - Neurological Effects	Nottaway Swamp (a creek)	2E-06	2E-02	0E+00		2E-02

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Nottaway River	9E-10	2E-08	0E+00	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Chowan River	9E-10	2E-09	0E+00	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Nottaway Swamp (a creek)	9E-10	1E-07	0E+00	1E-09	1E-07
Nickel	Nottaway River				4E-11	
Nickel	Chowan River				4E-11	
Nickel	Nottaway Swamp (a creek)				4E-11	
Arsenic	Nottaway River	4E-11	8E-12	0E+00	4E-09	5E-11
Arsenic	Chowan River	4E-11	1E-12	0E+00	4E-09	5E-11
Arsenic	Nottaway Swamp (a creek)	4E-11	6E-11	0E+00	4E-09	1E-10
Beryllium	Nottaway River				4E-10	
Beryllium	Chowan River				4E-10	
Beryllium	Nottaway Swamp (a creek)				4E-10	
Cadmium	Nottaway River				3E-10	
Cadmium	Chowan River				3E-10	
Cadmium	Nottaway Swamp (a creek)				3E-10	
Chromium VI	Nottaway River				8E-09	
Chromium VI	Chowan River				8E-09	
Chromium VI	Nottaway Swamp (a creek)				8E-09	
	Noncarcinogenic Chemicals					
Manganese	Nottaway River	2E-08	0E+00	0E+00	8E-04	2E-08
Manganese	Chowan River	2E-08	0E+00	0E+00	8E-04	2E-08
Manganese	Nottaway Swamp (a creek)	2E-08	0E+00	0E+00	8E-04	2E-08
Mercury (elemental)	Nottaway River				1E-06	
Mercury (elemental)	Chowan River				1E-06	
Mercury (elemental)	Nottaway Swamp (a creek)				1E-06	
Mercury (divalent)	Nottaway River	4E-05		0E+00		4E-05
Mercury (divalent)	Chowan River	4E-05		0E+00		4E-05
Mercury (divalent)	Nottaway Swamp (a creek)	4E-05		0E+00		4E-05
Nickel	Nottaway River	1E-09	8E-11	0E+00		1E-09
Nickel	Chowan River	1E-09	1E-11	0E+00		1E-09
Nickel	Nottaway Swamp (a creek)	1E-09	6E-10	0E+00		2E-09
Silver	Nottaway River	4E-10	0E+00	0E+00		4E-10
Silver	Chowan River	4E-10	0E+00	0E+00		4E-10
Silver	Nottaway Swamp (a creek)	4E-10	0E+00	0E+00		4E-10
Thallium	Nottaway River	2E-05	3E-05	0E+00		5E-05
Thallium	Chowan River	2E-05	5E-06	0E+00		3E-05
Thallium	Nottaway Swamp (a creek)	2E-05	3E-04	0E+00		3E-04
Antimony	Nottaway River	2E-09	0E+00	0E+00		2E-09
Antimony	Chowan River	2E-09	0E+00	0E+00		2E-09
Antimony	Nottaway Swamp (a creek)	2E-09	0E+00	0E+00		2E-09
Arsenic	Nottaway River	8E-07	1E-07	0E+00		9E-07
Arsenic	Chowan River	8E-07	2E-08	0E+00		8E-07
Arsenic	Nottaway Swamp (a creek)	8E-07	1E-06	0E+00		2E-06
Barium	Nottaway River	4E-08	0E+00	0E+00	1E-05	4E-08
Barium	Chowan River	4E-08	0E+00	0E+00	1E-05	4E-08
Barium	Nottaway Swamp (a creek)	4E-08	0E+00	0E+00	1E-05	4E-08
Beryllium	Nottaway River	4E-07	7E-09	0E+00		4E-07
Beryllium	Chowan River	4E-07	1E-09	0E+00		4E-07
Beryllium	Nottaway Swamp (a creek)	4E-07	6E-08	0E+00		4E-07

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Nottaway River	2E-07	4E-07	0E+00		5E-07
Cadmium	Chowan River	2E-07	7E-08	0E+00		2E-07
Cadmium	Nottaway Swamp (a creek)	2E-07	3E-06	0E+00		3E-06
Chromium VI	Nottaway River	2E-08	9E-10	0E+00		2E-08
Chromium VI	Chowan River	2E-08	2E-10	0E+00		2E-08
Chromium VI	Nottaway Swamp (a creek)	2E-08	8E-09	0E+00		3E-08
Chromium III	Nottaway River	2E-08	7E-12	0E+00		2E-08
Chromium III	Chowan River	2E-08	1E-12	0E+00		2E-08
Chromium III	Nottaway Swamp (a creek)	2E-08	7E-11	0E+00		2E-08
Cobalt	Nottaway River	4E-09	0E+00	0E+00		4E-09
Cobalt	Chowan River	4E-09	0E+00	0E+00		4E-09
Cobalt	Nottaway Swamp (a creek)	4E-09	0E+00	0E+00		4E-09
Hydrogen Chloride	Nottaway River				2E-04	
Hydrogen Chloride	Chowan River				2E-04	
Hydrogen Chloride	Nottaway Swamp (a creek)				2E-04	
Selenium	Nottaway River	2E-10	6E-08	0E+00		6E-08
Selenium	Chowan River	2E-10	1E-08	0E+00		1E-08
Selenium	Nottaway Swamp (a creek)	2E-10	5E-07	0E+00		5E-07
Chlorine	Nottaway River				2E-04	
Chlorine	Chowan River				2E-04	
Chlorine	Nottaway Swamp (a creek)				2E-04	
Methylmercury - Developmental Effects	Nottaway River	3E-06	5E-03	0E+00		5E-03
Methylmercury - Developmental Effects	Chowan River	3E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Nottaway Swamp (a creek)	3E-06	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Nottaway River	8E-07	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Chowan River	8E-07	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Nottaway Swamp (a creek)	8E-07	1E-02	0E+00		1E-02

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Nottaway River	6E-10	3E-08	0E+00	2E-09	3E-08
2,3,7,8-TCDD-TEQ	Chowan River	6E-10	4E-09	0E+00	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Nottaway Swamp (a creek)	6E-10	2E-07	0E+00	2E-09	2E-07
Nickel	Nottaway River				6E-11	
Nickel	Chowan River				6E-11	
Nickel	Nottaway Swamp (a creek)				6E-11	
Arsenic	Nottaway River	3E-11	1E-11	0E+00	7E-09	5E-11
Arsenic	Chowan River	3E-11	3E-12	0E+00	7E-09	4E-11
Arsenic	Nottaway Swamp (a creek)	3E-11	1E-10	0E+00	7E-09	2E-10
Beryllium	Nottaway River				5E-10	
Beryllium	Chowan River				5E-10	
Beryllium	Nottaway Swamp (a creek)				5E-10	
Cadmium	Nottaway River				5E-10	
Cadmium	Chowan River				5E-10	
Cadmium	Nottaway Swamp (a creek)				5E-10	
Chromium VI	Nottaway River				1E-08	
Chromium VI	Chowan River				1E-08	
Chromium VI	Nottaway Swamp (a creek)				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Nottaway River	6E-09	0E+00	0E+00	8E-04	6E-09
Manganese	Chowan River	6E-09	0E+00	0E+00	8E-04	6E-09
Manganese	Nottaway Swamp (a creek)	6E-09	0E+00	0E+00	8E-04	6E-09
Mercury (elemental)	Nottaway River				1E-06	
Mercury (elemental)	Chowan River				1E-06	
Mercury (elemental)	Nottaway Swamp (a creek)				1E-06	
Mercury (divalent)	Nottaway River	2E-05		0E+00		2E-05
Mercury (divalent)	Chowan River	2E-05		0E+00		2E-05
Mercury (divalent)	Nottaway Swamp (a creek)	2E-05		0E+00		2E-05
Nickel	Nottaway River	6E-10	8E-11	0E+00		6E-10
Nickel	Chowan River	6E-10	1E-11	0E+00		6E-10
Nickel	Nottaway Swamp (a creek)	6E-10	6E-10	0E+00		1E-09
Silver	Nottaway River	2E-10	0E+00	0E+00		2E-10
Silver	Chowan River	2E-10	0E+00	0E+00		2E-10
Silver	Nottaway Swamp (a creek)	2E-10	0E+00	0E+00		2E-10
Thallium	Nottaway River	9E-06	3E-05	0E+00		4E-05
Thallium	Chowan River	9E-06	5E-06	0E+00		1E-05
Thallium	Nottaway Swamp (a creek)	9E-06	3E-04	0E+00		3E-04
Antimony	Nottaway River	7E-10	0E+00	0E+00		7E-10
Antimony	Chowan River	7E-10	0E+00	0E+00		7E-10
Antimony	Nottaway Swamp (a creek)	7E-10	0E+00	0E+00		7E-10
Arsenic	Nottaway River	3E-07	1E-07	0E+00		5E-07
Arsenic	Chowan River	3E-07	2E-08	0E+00		3E-07
Arsenic	Nottaway Swamp (a creek)	3E-07	1E-06	0E+00		1E-06
Barium	Nottaway River	1E-08	0E+00	0E+00	1E-05	1E-08
Barium	Chowan River	1E-08	0E+00	0E+00	1E-05	1E-08
Barium	Nottaway Swamp (a creek)	1E-08	0E+00	0E+00	1E-05	1E-08
Beryllium	Nottaway River	1E-07	7E-09	0E+00		2E-07
Beryllium	Chowan River	1E-07	1E-09	0E+00		1E-07
Beryllium	Nottaway Swamp (a creek)	1E-07	6E-08	0E+00		2E-07

Table IX-E28. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A31) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Nottaway River	7E-08	4E-07	0E+00		4E-07
Cadmium	Chowan River	7E-08	7E-08	0E+00		1E-07
Cadmium	Nottaway Swamp (a creek)	7E-08	3E-06	0E+00		3E-06
Chromium VI	Nottaway River	8E-09	9E-10	0E+00		9E-09
Chromium VI	Chowan River	8E-09	2E-10	0E+00		8E-09
Chromium VI	Nottaway Swamp (a creek)	8E-09	8E-09	0E+00		2E-08
Chromium III	Nottaway River	7E-09	7E-12	0E+00		7E-09
Chromium III	Chowan River	7E-09	1E-12	0E+00		7E-09
Chromium III	Nottaway Swamp (a creek)	7E-09	7E-11	0E+00		7E-09
Cobalt	Nottaway River	2E-09	0E+00	0E+00		2E-09
Cobalt	Chowan River	2E-09	0E+00	0E+00		2E-09
Cobalt	Nottaway Swamp (a creek)	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Nottaway River				2E-04	
Hydrogen Chloride	Chowan River				2E-04	
Hydrogen Chloride	Nottaway Swamp (a creek)				2E-04	
Selenium	Nottaway River	7E-11	6E-08	0E+00		6E-08
Selenium	Chowan River	7E-11	1E-08	0E+00		1E-08
Selenium	Nottaway Swamp (a creek)	7E-11	5E-07	0E+00		5E-07
Chlorine	Nottaway River				2E-04	
Chlorine	Chowan River				2E-04	
Chlorine	Nottaway Swamp (a creek)				2E-04	
Methylmercury - Developmental Effects	Nottaway River	1E-06	5E-03	0E+00		5E-03
Methylmercury - Developmental Effects	Chowan River	1E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Nottaway Swamp (a creek)	1E-06	3E-02	0E+00		3E-02
Methylmercury - Neurological Effects	Nottaway River	3E-07	2E-03	0E+00		2E-03
Methylmercury - Neurological Effects	Chowan River	3E-07	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Nottaway Swamp (a creek)	3E-07	1E-02	0E+00		1E-02

Table IX-E29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	5E-11	2E-11	1E-10	2E-08	2E-07	2E-09	9E-09	5E-09	5E-09		3E-10	3E-07
Nickel												1E-11	
Arsenic	5E-11	2E-11	9E-12	5E-11	2E-10	3E-10	1E-11			5E-10		4E-09	1E-09
Beryllium												1E-11	
Cadmium												3E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	1E-08	7E-09	3E-08	4E-09	2E-07	4E-10			0E+00		2E-04	3E-07
Mercury (elemental)												8E-06	
Mercury (divalent)	NA	2E-05	2E-06	4E-05	3E-05	4E-04	5E-08						5E-04
Nickel	9E-10	5E-10	2E-10	1E-09	1E-08	1E-07	7E-10			3E-09			1E-07
Silver	1E-09	1E-08	3E-09	4E-08	2E-07	1E-04	9E-09			0E+00			1E-04
Thallium	1E-05	1E-06	7E-08	4E-06	4E-04	1E-03	4E-05			7E-04			2E-03
Antimony	6E-08	3E-07	6E-08	6E-07	1E-06	6E-06	4E-08			0E+00			8E-06
Arsenic	1E-06	6E-07	3E-07	1E-06	4E-06	7E-06	3E-07			1E-05			3E-05
Barium	2E-08	2E-09	5E-10	4E-09	9E-10	1E-07	1E-10			0E+00		2E-06	1E-07
Beryllium	2E-08	3E-10	6E-11	7E-10	3E-09	1E-10	1E-09			1E-09			3E-08
Cadmium	3E-07	3E-07	2E-07	6E-07	3E-08	1E-07	5E-09			2E-05			2E-05
Chromium VI	9E-08	3E-08	1E-08	8E-08	1E-06	2E-05	6E-08			2E-07			2E-05
Chromium III	5E-08	6E-10	4E-10	1E-09	4E-08	5E-07	1E-08			4E-12			6E-07
Cobalt	3E-09	7E-10	3E-12	2E-09	6E-08	3E-07	4E-09			0E+00			4E-07
Hydrogen Chloride												3E-03	
Selenium	6E-09	6E-09	4E-09	2E-08	1E-07	1E-05	5E-07			1E-04			1E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-06	7E-06	2E-07	7E-06	1E-05	2E-04	5E-09			2E-04			4E-04
Methylmercury - Neurological Effects	3E-07	2E-06	8E-08	2E-06	5E-06	7E-05	2E-09			5E-05			1E-04

Table IX-E29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-10	4E-11	2E-11	1E-10	3E-08	2E-07	2E-09	9E-09	6E-09	5E-09		4E-10	2E-07
Nickel												2E-11	
Arsenic	2E-11	2E-11	9E-12	7E-11	3E-10	2E-10	9E-12			5E-10		5E-09	1E-09
Beryllium												1E-11	
Cadmium												3E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-09	8E-09	5E-09	3E-08	5E-09	1E-07	2E-10			0E+00		2E-04	2E-07
Mercury (elemental)												8E-06	
Mercury (divalent)	NA	1E-05	1E-06	4E-05	4E-05	2E-04	3E-08						3E-04
Nickel	2E-10	3E-10	1E-10	1E-09	1E-08	6E-08	4E-10			2E-09			8E-08
Silver	3E-10	8E-09	2E-09	4E-08	3E-07	5E-05	5E-09			0E+00			5E-05
Thallium	4E-06	7E-07	5E-08	3E-06	5E-04	6E-04	2E-05			6E-04			2E-03
Antimony	2E-08	1E-07	4E-08	6E-07	1E-06	3E-06	3E-08			0E+00			5E-06
Arsenic	4E-07	3E-07	2E-07	1E-06	5E-06	3E-06	2E-07			9E-06			2E-05
Barium	5E-09	1E-09	3E-10	4E-09	1E-09	6E-08	8E-11			0E+00		2E-06	7E-08
Beryllium	5E-09	2E-10	4E-11	7E-10	4E-09	6E-11	6E-10			9E-10			1E-08
Cadmium	7E-08	2E-07	1E-07	6E-07	3E-08	5E-08	3E-09			1E-05			1E-05
Chromium VI	2E-08	2E-08	7E-09	8E-08	1E-06	9E-06	4E-08			2E-07			1E-05
Chromium III	1E-08	3E-10	3E-10	1E-09	4E-08	2E-07	8E-09			3E-12			3E-07
Cobalt	7E-10	4E-10	2E-12	2E-09	7E-08	2E-07	3E-09			0E+00			2E-07
Hydrogen Chloride												3E-03	
Selenium	2E-09	4E-09	3E-09	2E-08	2E-07	6E-06	3E-07			9E-05			1E-04
Chlorine												2E-03	
Methylmercury - Developmental Effects	3E-07	4E-06	2E-07	7E-06	2E-05	1E-04	3E-09			1E-04			3E-04
Methylmercury - Neurological Effects	8E-08	1E-06	6E-08	2E-06	6E-06	4E-05	9E-10			4E-05			9E-05

Table IX-E29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-11	3E-11	1E-11	7E-11	2E-08	7E-08	1E-09	5E-09	3E-09	3E-09		2E-10	1E-07
Nickel												1E-11	
Arsenic	1E-11	1E-11	6E-12	4E-11	1E-10	9E-11	6E-12			3E-10		3E-09	5E-10
Beryllium												8E-12	
Cadmium												2E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-09	6E-09	4E-09	1E-08	2E-09	5E-08	1E-10			0E+00		2E-04	8E-08
Mercury (elemental)												8E-06	
Mercury (divalent)	2E-06	9E-06	9E-07	2E-05	2E-05	9E-05	2E-08			0E+00			1E-04
Nickel	1E-10	2E-10	1E-10	6E-10	6E-09	3E-08	3E-10			1E-09			4E-08
Silver	1E-10	6E-09	2E-09	2E-08	1E-07	2E-05	4E-09			0E+00			2E-05
Thallium	2E-06	5E-07	4E-08	2E-06	2E-04	3E-04	2E-05			3E-04			8E-04
Antimony	8E-09	1E-07	3E-08	3E-07	6E-07	1E-06	2E-08			0E+00			3E-06
Arsenic	2E-07	3E-07	1E-07	7E-07	2E-06	2E-06	1E-07			5E-06			1E-05
Barium	3E-09	8E-10	2E-10	2E-09	5E-10	3E-08	6E-11			0E+00		2E-06	3E-08
Beryllium	3E-09	1E-10	3E-11	4E-10	2E-09	3E-11	4E-10			5E-10			6E-09
Cadmium	4E-08	1E-07	7E-08	3E-07	2E-08	2E-08	2E-09			7E-06			8E-06
Chromium VI	1E-08	1E-08	5E-09	4E-08	6E-07	4E-06	2E-08			8E-08			5E-06
Chromium III	7E-09	2E-10	2E-10	7E-10	2E-08	1E-07	5E-09			2E-12			1E-07
Cobalt	4E-10	3E-10	2E-12	8E-10	3E-08	8E-08	2E-09			0E+00			1E-07
Hydrogen Chloride												3E-03	
Selenium	8E-10	3E-09	2E-09	9E-09	7E-08	3E-06	2E-07			5E-05			5E-05
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-07	3E-06	1E-07	3E-06	8E-06	5E-05	2E-09			7E-05			1E-04
Methylmercury - Neurological Effects	4E-08	1E-06	4E-08	1E-06	3E-06	2E-05	6E-10			2E-05			4E-05

Table IX-E29. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-11	8E-11	2E-11	1E-10	3E-08	6E-08	2E-09	9E-09	5E-09	6E-09		4E-10	1E-07
Nickel												2E-11	
Arsenic	8E-12	3E-11	1E-11	6E-11	3E-10	7E-11	9E-12			5E-10		4E-09	1E-09
Beryllium												1E-11	
Cadmium												3E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-10	8E-09	4E-09	1E-08	3E-09	2E-08	1E-10			0E+00		2E-04	5E-08
Mercury (elemental)												8E-06	
Mercury (divalent)	9E-07	1E-05	1E-06	2E-05	2E-05	4E-05	2E-08			0E+00			9E-05
Nickel	5E-11	3E-10	1E-10	6E-10	7E-09	1E-08	2E-10			1E-09			2E-08
Silver	6E-11	8E-09	2E-09	2E-08	1E-07	1E-05	3E-09			0E+00			1E-05
Thallium	8E-07	7E-07	4E-08	2E-06	2E-04	1E-04	1E-05			3E-04			7E-04
Antimony	3E-09	2E-07	3E-08	3E-07	6E-07	6E-07	1E-08			0E+00			2E-06
Arsenic	8E-08	4E-07	1E-07	7E-07	2E-06	7E-07	9E-08			5E-06			9E-06
Barium	1E-09	1E-09	3E-10	2E-09	6E-10	1E-08	5E-11			0E+00		2E-06	2E-08
Beryllium	1E-09	2E-10	3E-11	3E-10	2E-09	1E-11	3E-10			6E-10			5E-09
Cadmium	2E-08	2E-07	9E-08	3E-07	2E-08	1E-08	2E-09			8E-06			9E-06
Chromium VI	5E-09	2E-08	6E-09	4E-08	7E-07	2E-06	2E-08			9E-08			3E-06
Chromium III	3E-09	3E-10	2E-10	7E-10	2E-08	5E-08	4E-09			2E-12			8E-08
Cobalt	2E-10	4E-10	2E-12	8E-10	3E-08	3E-08	1E-09			0E+00			7E-08
Hydrogen Chloride												3E-03	
Selenium	3E-10	4E-09	2E-09	9E-09	8E-08	1E-06	2E-07			5E-05			6E-05
Chlorine												2E-03	
Methylmercury - Developmental Effects	5E-08	4E-06	1E-07	3E-06	9E-06	2E-05	2E-09			7E-05			1E-04
Methylmercury - Neurological Effects	2E-08	1E-06	5E-08	1E-06	3E-06	7E-06	5E-10			2E-05			4E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	5E-10	5E-09	3E-12	3E-10	6E-09
2,3,7,8-TCDD-TEQ	Highlands Reservoir	5E-10	1E-09	3E-12	3E-10	2E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	5E-10	6E-09	3E-12	3E-10	6E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	5E-10	3E-09	3E-12	3E-10	3E-09
Nickel	Sheldon Reservoir				1E-11	
Nickel	Highlands Reservoir				1E-11	
Nickel	Buffalo Bayou				1E-11	
Nickel	Greens Bayou				1E-11	
Arsenic	Sheldon Reservoir	5E-11	6E-11	1E-10	4E-09	2E-10
Arsenic	Highlands Reservoir	5E-11	9E-12	1E-10	4E-09	2E-10
Arsenic	Buffalo Bayou	5E-11	1E-11	1E-10	4E-09	2E-10
Arsenic	Greens Bayou	5E-11	7E-12	1E-10	4E-09	2E-10
Beryllium	Sheldon Reservoir				1E-11	
Beryllium	Highlands Reservoir				1E-11	
Beryllium	Buffalo Bayou				1E-11	
Beryllium	Greens Bayou				1E-11	
Cadmium	Sheldon Reservoir				3E-10	
Cadmium	Highlands Reservoir				3E-10	
Cadmium	Buffalo Bayou				3E-10	
Cadmium	Greens Bayou				3E-10	
Chromium VI	Sheldon Reservoir				2E-08	
Chromium VI	Highlands Reservoir				2E-08	
Chromium VI	Buffalo Bayou				2E-08	
Chromium VI	Greens Bayou				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	1E-08	0E+00	1E-08	2E-04	2E-08
Manganese	Highlands Reservoir	1E-08	0E+00	1E-08	2E-04	2E-08
Manganese	Buffalo Bayou	1E-08	0E+00	1E-08	2E-04	2E-08
Manganese	Greens Bayou	1E-08	0E+00	1E-08	2E-04	2E-08
Mercury (elemental)	Sheldon Reservoir				8E-06	
Mercury (elemental)	Highlands Reservoir				8E-06	
Mercury (elemental)	Buffalo Bayou				8E-06	
Mercury (elemental)	Greens Bayou				8E-06	
Mercury (divalent)	Sheldon Reservoir	2E-05		2E-07		2E-05
Mercury (divalent)	Highlands Reservoir	2E-05		2E-07		2E-05
Mercury (divalent)	Buffalo Bayou	2E-05		2E-07		2E-05
Mercury (divalent)	Greens Bayou	2E-05		2E-07		2E-05
Nickel	Sheldon Reservoir	9E-10	3E-10	3E-09		4E-09
Nickel	Highlands Reservoir	9E-10	5E-11	3E-09		4E-09
Nickel	Buffalo Bayou	9E-10	7E-11	3E-09		4E-09
Nickel	Greens Bayou	9E-10	4E-11	3E-09		4E-09
Silver	Sheldon Reservoir	1E-09	0E+00	1E-07		1E-07
Silver	Highlands Reservoir	1E-09	0E+00	1E-07		1E-07
Silver	Buffalo Bayou	1E-09	0E+00	1E-07		1E-07
Silver	Greens Bayou	1E-09	0E+00	1E-07		1E-07
Thallium	Sheldon Reservoir	1E-05	1E-04	1E-05		1E-04
Thallium	Highlands Reservoir	1E-05	2E-05	1E-05		5E-05
Thallium	Buffalo Bayou	1E-05	3E-05	1E-05		5E-05
Thallium	Greens Bayou	1E-05	1E-05	1E-05		4E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	6E-08	0E+00	2E-06		2E-06
Antimony	Highlands Reservoir	6E-08	0E+00	2E-06		2E-06
Antimony	Buffalo Bayou	6E-08	0E+00	2E-06		2E-06
Antimony	Greens Bayou	6E-08	0E+00	2E-06		2E-06
Arsenic	Sheldon Reservoir	1E-06	1E-06	3E-06		6E-06
Arsenic	Highlands Reservoir	1E-06	2E-07	3E-06		5E-06
Arsenic	Buffalo Bayou	1E-06	3E-07	3E-06		5E-06
Arsenic	Greens Bayou	1E-06	2E-07	3E-06		5E-06
Barium	Sheldon Reservoir	2E-08	0E+00	7E-10	2E-06	2E-08
Barium	Highlands Reservoir	2E-08	0E+00	7E-10	2E-06	2E-08
Barium	Buffalo Bayou	2E-08	0E+00	7E-10	2E-06	2E-08
Barium	Greens Bayou	2E-08	0E+00	7E-10	2E-06	2E-08
Beryllium	Sheldon Reservoir	2E-08	4E-09	1E-09		3E-08
Beryllium	Highlands Reservoir	2E-08	6E-10	1E-09		2E-08
Beryllium	Buffalo Bayou	2E-08	7E-10	1E-09		2E-08
Beryllium	Greens Bayou	2E-08	4E-10	1E-09		2E-08
Cadmium	Sheldon Reservoir	3E-07	4E-06	3E-07		4E-06
Cadmium	Highlands Reservoir	3E-07	6E-07	3E-07		1E-06
Cadmium	Buffalo Bayou	3E-07	9E-07	3E-07		1E-06
Cadmium	Greens Bayou	3E-07	5E-07	3E-07		1E-06
Chromium VI	Sheldon Reservoir	9E-08	2E-08	3E-07		4E-07
Chromium VI	Highlands Reservoir	9E-08	4E-09	3E-07		4E-07
Chromium VI	Buffalo Bayou	9E-08	5E-09	3E-07		4E-07
Chromium VI	Greens Bayou	9E-08	3E-09	3E-07		4E-07
Chromium III	Sheldon Reservoir	5E-08	2E-10	1E-11		5E-08
Chromium III	Highlands Reservoir	5E-08	3E-11	1E-11		5E-08
Chromium III	Buffalo Bayou	5E-08	4E-11	1E-11		5E-08
Chromium III	Greens Bayou	5E-08	2E-11	1E-11		5E-08
Cobalt	Sheldon Reservoir	3E-09	0E+00	1E-11		3E-09
Cobalt	Highlands Reservoir	3E-09	0E+00	1E-11		3E-09
Cobalt	Buffalo Bayou	3E-09	0E+00	1E-11		3E-09
Cobalt	Greens Bayou	3E-09	0E+00	1E-11		3E-09
Hydrogen Chloride	Sheldon Reservoir				3E-03	
Hydrogen Chloride	Highlands Reservoir				3E-03	
Hydrogen Chloride	Buffalo Bayou				3E-03	
Hydrogen Chloride	Greens Bayou				3E-03	
Selenium	Sheldon Reservoir	6E-09	1E-05	8E-08		1E-05
Selenium	Highlands Reservoir	6E-09	2E-06	8E-08		2E-06
Selenium	Buffalo Bayou	6E-09	3E-06	8E-08		3E-06
Selenium	Greens Bayou	6E-09	2E-06	8E-08		2E-06
Chlorine	Sheldon Reservoir				2E-03	
Chlorine	Highlands Reservoir				2E-03	
Chlorine	Buffalo Bayou				2E-03	
Chlorine	Greens Bayou				2E-03	
Methylmercury - Developmental Effects	Sheldon Reservoir	1E-06	1E-04	1E-09		1E-04
Methylmercury - Developmental Effects	Highlands Reservoir	1E-06	6E-05	1E-09		6E-05
Methylmercury - Developmental Effects	Buffalo Bayou	1E-06	2E-04	1E-09		2E-04
Methylmercury - Developmental Effects	Greens Bayou	1E-06	1E-04	1E-09		1E-04

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	3E-07	5E-05	4E-10		5E-05
Methylmercury - Neurological Effects	Highlands Reservoir	3E-07	2E-05	4E-10		2E-05
Methylmercury - Neurological Effects	Buffalo Bayou	3E-07	6E-05	4E-10		6E-05
Methylmercury - Neurological Effects	Greens Bayou	3E-07	4E-05	4E-10		4E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	2E-10	7E-09	2E-12	4E-10	7E-09
2,3,7,8-TCDD-TEQ	Highlands Reservoir	2E-10	2E-09	2E-12	4E-10	2E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	2E-10	8E-09	2E-12	4E-10	8E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	2E-10	4E-09	2E-12	4E-10	4E-09
Nickel	Sheldon Reservoir				2E-11	
Nickel	Highlands Reservoir				2E-11	
Nickel	Buffalo Bayou				2E-11	
Nickel	Greens Bayou				2E-11	
Arsenic	Sheldon Reservoir	2E-11	8E-11	9E-11	5E-09	2E-10
Arsenic	Highlands Reservoir	2E-11	1E-11	9E-11	5E-09	1E-10
Arsenic	Buffalo Bayou	2E-11	2E-11	9E-11	5E-09	1E-10
Arsenic	Greens Bayou	2E-11	9E-12	9E-11	5E-09	1E-10
Beryllium	Sheldon Reservoir				1E-11	
Beryllium	Highlands Reservoir				1E-11	
Beryllium	Buffalo Bayou				1E-11	
Beryllium	Greens Bayou				1E-11	
Cadmium	Sheldon Reservoir				3E-10	
Cadmium	Highlands Reservoir				3E-10	
Cadmium	Buffalo Bayou				3E-10	
Cadmium	Greens Bayou				3E-10	
Chromium VI	Sheldon Reservoir				2E-08	
Chromium VI	Highlands Reservoir				2E-08	
Chromium VI	Buffalo Bayou				2E-08	
Chromium VI	Greens Bayou				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	3E-09	0E+00	6E-09	2E-04	8E-09
Manganese	Highlands Reservoir	3E-09	0E+00	6E-09	2E-04	8E-09
Manganese	Buffalo Bayou	3E-09	0E+00	6E-09	2E-04	8E-09
Manganese	Greens Bayou	3E-09	0E+00	6E-09	2E-04	8E-09
Mercury (elemental)	Sheldon Reservoir				8E-06	
Mercury (elemental)	Highlands Reservoir				8E-06	
Mercury (elemental)	Buffalo Bayou				8E-06	
Mercury (elemental)	Greens Bayou				8E-06	
Mercury (divalent)	Sheldon Reservoir	4E-06		1E-07		4E-06
Mercury (divalent)	Highlands Reservoir	4E-06		1E-07		4E-06
Mercury (divalent)	Buffalo Bayou	4E-06		1E-07		4E-06
Mercury (divalent)	Greens Bayou	4E-06		1E-07		4E-06
Nickel	Sheldon Reservoir	2E-10	3E-10	2E-09		2E-09
Nickel	Highlands Reservoir	2E-10	5E-11	2E-09		2E-09
Nickel	Buffalo Bayou	2E-10	7E-11	2E-09		2E-09
Nickel	Greens Bayou	2E-10	4E-11	2E-09		2E-09
Silver	Sheldon Reservoir	3E-10	0E+00	7E-08		7E-08
Silver	Highlands Reservoir	3E-10	0E+00	7E-08		7E-08
Silver	Buffalo Bayou	3E-10	0E+00	7E-08		7E-08
Silver	Greens Bayou	3E-10	0E+00	7E-08		7E-08
Thallium	Sheldon Reservoir	4E-06	1E-04	7E-06		1E-04
Thallium	Highlands Reservoir	4E-06	2E-05	7E-06		3E-05
Thallium	Buffalo Bayou	4E-06	3E-05	7E-06		4E-05
Thallium	Greens Bayou	4E-06	1E-05	7E-06		3E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	2E-08	0E+00	1E-06		1E-06
Antimony	Highlands Reservoir	2E-08	0E+00	1E-06		1E-06
Antimony	Buffalo Bayou	2E-08	0E+00	1E-06		1E-06
Antimony	Greens Bayou	2E-08	0E+00	1E-06		1E-06
Arsenic	Sheldon Reservoir	4E-07	1E-06	2E-06		3E-06
Arsenic	Highlands Reservoir	4E-07	2E-07	2E-06		2E-06
Arsenic	Buffalo Bayou	4E-07	3E-07	2E-06		2E-06
Arsenic	Greens Bayou	4E-07	2E-07	2E-06		2E-06
Barium	Sheldon Reservoir	5E-09	0E+00	4E-10	2E-06	5E-09
Barium	Highlands Reservoir	5E-09	0E+00	4E-10	2E-06	5E-09
Barium	Buffalo Bayou	5E-09	0E+00	4E-10	2E-06	5E-09
Barium	Greens Bayou	5E-09	0E+00	4E-10	2E-06	5E-09
Beryllium	Sheldon Reservoir	5E-09	4E-09	5E-10		1E-08
Beryllium	Highlands Reservoir	5E-09	6E-10	5E-10		7E-09
Beryllium	Buffalo Bayou	5E-09	7E-10	5E-10		7E-09
Beryllium	Greens Bayou	5E-09	4E-10	5E-10		6E-09
Cadmium	Sheldon Reservoir	7E-08	4E-06	2E-07		4E-06
Cadmium	Highlands Reservoir	7E-08	6E-07	2E-07		8E-07
Cadmium	Buffalo Bayou	7E-08	9E-07	2E-07		1E-06
Cadmium	Greens Bayou	7E-08	5E-07	2E-07		7E-07
Chromium VI	Sheldon Reservoir	2E-08	2E-08	2E-07		2E-07
Chromium VI	Highlands Reservoir	2E-08	4E-09	2E-07		2E-07
Chromium VI	Buffalo Bayou	2E-08	5E-09	2E-07		2E-07
Chromium VI	Greens Bayou	2E-08	3E-09	2E-07		2E-07
Chromium III	Sheldon Reservoir	1E-08	2E-10	6E-12		1E-08
Chromium III	Highlands Reservoir	1E-08	3E-11	6E-12		1E-08
Chromium III	Buffalo Bayou	1E-08	4E-11	6E-12		1E-08
Chromium III	Greens Bayou	1E-08	2E-11	6E-12		1E-08
Cobalt	Sheldon Reservoir	7E-10	0E+00	6E-12		7E-10
Cobalt	Highlands Reservoir	7E-10	0E+00	6E-12		7E-10
Cobalt	Buffalo Bayou	7E-10	0E+00	6E-12		7E-10
Cobalt	Greens Bayou	7E-10	0E+00	6E-12		7E-10
Hydrogen Chloride	Sheldon Reservoir				3E-03	
Hydrogen Chloride	Highlands Reservoir				3E-03	
Hydrogen Chloride	Buffalo Bayou				3E-03	
Hydrogen Chloride	Greens Bayou				3E-03	
Selenium	Sheldon Reservoir	2E-09	1E-05	4E-08		1E-05
Selenium	Highlands Reservoir	2E-09	2E-06	4E-08		2E-06
Selenium	Buffalo Bayou	2E-09	3E-06	4E-08		3E-06
Selenium	Greens Bayou	2E-09	2E-06	4E-08		2E-06
Chlorine	Sheldon Reservoir				2E-03	
Chlorine	Highlands Reservoir				2E-03	
Chlorine	Buffalo Bayou				2E-03	
Chlorine	Greens Bayou				2E-03	
Methylmercury - Developmental Effects	Sheldon Reservoir	3E-07	1E-04	6E-10		1E-04
Methylmercury - Developmental Effects	Highlands Reservoir	3E-07	6E-05	6E-10		6E-05
Methylmercury - Developmental Effects	Buffalo Bayou	3E-07	2E-04	6E-10		2E-04
Methylmercury - Developmental Effects	Greens Bayou	3E-07	1E-04	6E-10		1E-04

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	8E-08	5E-05	2E-10		5E-05
Methylmercury - Neurological Effects	Highlands Reservoir	8E-08	2E-05	2E-10		2E-05
Methylmercury - Neurological Effects	Buffalo Bayou	8E-08	6E-05	2E-10		6E-05
Methylmercury - Neurological Effects	Greens Bayou	8E-08	4E-05	2E-10		4E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	9E-11	5E-09	1E-12	2E-10	5E-09
2,3,7,8-TCDD-TEQ	Highlands Reservoir	9E-11	1E-09	1E-12	2E-10	1E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	9E-11	6E-09	1E-12	2E-10	6E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	9E-11	3E-09	1E-12	2E-10	3E-09
Nickel	Sheldon Reservoir				1E-11	
Nickel	Highlands Reservoir				1E-11	
Nickel	Buffalo Bayou				1E-11	
Nickel	Greens Bayou				1E-11	
Arsenic	Sheldon Reservoir	1E-11	6E-11	6E-11	3E-09	1E-10
Arsenic	Highlands Reservoir	1E-11	9E-12	6E-11	3E-09	8E-11
Arsenic	Buffalo Bayou	1E-11	1E-11	6E-11	3E-09	9E-11
Arsenic	Greens Bayou	1E-11	7E-12	6E-11	3E-09	8E-11
Beryllium	Sheldon Reservoir				8E-12	
Beryllium	Highlands Reservoir				8E-12	
Beryllium	Buffalo Bayou				8E-12	
Beryllium	Greens Bayou				8E-12	
Cadmium	Sheldon Reservoir				2E-10	
Cadmium	Highlands Reservoir				2E-10	
Cadmium	Buffalo Bayou				2E-10	
Cadmium	Greens Bayou				2E-10	
Chromium VI	Sheldon Reservoir				1E-08	
Chromium VI	Highlands Reservoir				1E-08	
Chromium VI	Buffalo Bayou				1E-08	
Chromium VI	Greens Bayou				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	1E-09	0E+00	4E-09	2E-04	5E-09
Manganese	Highlands Reservoir	1E-09	0E+00	4E-09	2E-04	5E-09
Manganese	Buffalo Bayou	1E-09	0E+00	4E-09	2E-04	5E-09
Manganese	Greens Bayou	1E-09	0E+00	4E-09	2E-04	5E-09
Mercury (elemental)	Sheldon Reservoir				8E-06	
Mercury (elemental)	Highlands Reservoir				8E-06	
Mercury (elemental)	Buffalo Bayou				8E-06	
Mercury (elemental)	Greens Bayou				8E-06	
Mercury (divalent)	Sheldon Reservoir	2E-06		8E-08		2E-06
Mercury (divalent)	Highlands Reservoir	2E-06		8E-08		2E-06
Mercury (divalent)	Buffalo Bayou	2E-06		8E-08		2E-06
Mercury (divalent)	Greens Bayou	2E-06		8E-08		2E-06
Nickel	Sheldon Reservoir	1E-10	2E-10	1E-09		1E-09
Nickel	Highlands Reservoir	1E-10	3E-11	1E-09		1E-09
Nickel	Buffalo Bayou	1E-10	5E-11	1E-09		1E-09
Nickel	Greens Bayou	1E-10	3E-11	1E-09		1E-09
Silver	Sheldon Reservoir	1E-10	0E+00	5E-08		5E-08
Silver	Highlands Reservoir	1E-10	0E+00	5E-08		5E-08
Silver	Buffalo Bayou	1E-10	0E+00	5E-08		5E-08
Silver	Greens Bayou	1E-10	0E+00	5E-08		5E-08
Thallium	Sheldon Reservoir	2E-06	9E-05	5E-06		9E-05
Thallium	Highlands Reservoir	2E-06	1E-05	5E-06		2E-05
Thallium	Buffalo Bayou	2E-06	2E-05	5E-06		3E-05
Thallium	Greens Bayou	2E-06	1E-05	5E-06		2E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	8E-09	0E+00	7E-07		7E-07
Antimony	Highlands Reservoir	8E-09	0E+00	7E-07		7E-07
Antimony	Buffalo Bayou	8E-09	0E+00	7E-07		7E-07
Antimony	Greens Bayou	8E-09	0E+00	7E-07		7E-07
Arsenic	Sheldon Reservoir	2E-07	1E-06	1E-06		2E-06
Arsenic	Highlands Reservoir	2E-07	2E-07	1E-06		1E-06
Arsenic	Buffalo Bayou	2E-07	2E-07	1E-06		2E-06
Arsenic	Greens Bayou	2E-07	1E-07	1E-06		1E-06
Barium	Sheldon Reservoir	3E-09	0E+00	2E-10	2E-06	3E-09
Barium	Highlands Reservoir	3E-09	0E+00	2E-10	2E-06	3E-09
Barium	Buffalo Bayou	3E-09	0E+00	2E-10	2E-06	3E-09
Barium	Greens Bayou	3E-09	0E+00	2E-10	2E-06	3E-09
Beryllium	Sheldon Reservoir	3E-09	3E-09	3E-10		6E-09
Beryllium	Highlands Reservoir	3E-09	4E-10	3E-10		4E-09
Beryllium	Buffalo Bayou	3E-09	5E-10	3E-10		4E-09
Beryllium	Greens Bayou	3E-09	3E-10	3E-10		4E-09
Cadmium	Sheldon Reservoir	4E-08	3E-06	1E-07		3E-06
Cadmium	Highlands Reservoir	4E-08	4E-07	1E-07		6E-07
Cadmium	Buffalo Bayou	4E-08	6E-07	1E-07		8E-07
Cadmium	Greens Bayou	4E-08	3E-07	1E-07		5E-07
Chromium VI	Sheldon Reservoir	1E-08	2E-08	1E-07		1E-07
Chromium VI	Highlands Reservoir	1E-08	3E-09	1E-07		1E-07
Chromium VI	Buffalo Bayou	1E-08	4E-09	1E-07		1E-07
Chromium VI	Greens Bayou	1E-08	2E-09	1E-07		1E-07
Chromium III	Sheldon Reservoir	7E-09	2E-10	4E-12		7E-09
Chromium III	Highlands Reservoir	7E-09	2E-11	4E-12		7E-09
Chromium III	Buffalo Bayou	7E-09	3E-11	4E-12		7E-09
Chromium III	Greens Bayou	7E-09	2E-11	4E-12		7E-09
Cobalt	Sheldon Reservoir	4E-10	0E+00	1E-09		2E-09
Cobalt	Highlands Reservoir	4E-10	0E+00	1E-09		2E-09
Cobalt	Buffalo Bayou	4E-10	0E+00	1E-09		2E-09
Cobalt	Greens Bayou	4E-10	0E+00	1E-09		2E-09
Hydrogen Chloride	Sheldon Reservoir				3E-03	
Hydrogen Chloride	Highlands Reservoir				3E-03	
Hydrogen Chloride	Buffalo Bayou				3E-03	
Hydrogen Chloride	Greens Bayou				3E-03	
Selenium	Sheldon Reservoir	8E-10	9E-06	3E-08		9E-06
Selenium	Highlands Reservoir	8E-10	1E-06	3E-08		1E-06
Selenium	Buffalo Bayou	8E-10	2E-06	3E-08		2E-06
Selenium	Greens Bayou	8E-10	1E-06	3E-08		1E-06
Chlorine	Sheldon Reservoir				2E-03	
Chlorine	Highlands Reservoir				2E-03	
Chlorine	Buffalo Bayou				2E-03	
Chlorine	Greens Bayou				2E-03	
Methylmercury - Developmental Effects	Sheldon Reservoir	1E-07	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Highlands Reservoir	1E-07	4E-05	4E-10		4E-05
Methylmercury - Developmental Effects	Buffalo Bayou	1E-07	1E-04	4E-10		1E-04
Methylmercury - Developmental Effects	Greens Bayou	1E-07	8E-05	4E-10		8E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	4E-08	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Highlands Reservoir	4E-08	1E-05	1E-10		1E-05
Methylmercury - Neurological Effects	Buffalo Bayou	4E-08	4E-05	1E-10		4E-05
Methylmercury - Neurological Effects	Greens Bayou	4E-08	3E-05	1E-10		3E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	6E-11	1E-08	3E-12	4E-10	1E-08
2,3,7,8-TCDD-TEQ	Highlands Reservoir	6E-11	3E-09	3E-12	4E-10	3E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	6E-11	1E-08	3E-12	4E-10	1E-08
2,3,7,8-TCDD-TEQ	Greens Bayou	6E-11	6E-09	3E-12	4E-10	6E-09
Nickel	Sheldon Reservoir				2E-11	
Nickel	Highlands Reservoir				2E-11	
Nickel	Buffalo Bayou				2E-11	
Nickel	Greens Bayou				2E-11	
Arsenic	Sheldon Reservoir	8E-12	1E-10	1E-10	4E-09	3E-10
Arsenic	Highlands Reservoir	8E-12	2E-11	1E-10	4E-09	2E-10
Arsenic	Buffalo Bayou	8E-12	2E-11	1E-10	4E-09	2E-10
Arsenic	Greens Bayou	8E-12	1E-11	1E-10	4E-09	2E-10
Beryllium	Sheldon Reservoir				1E-11	
Beryllium	Highlands Reservoir				1E-11	
Beryllium	Buffalo Bayou				1E-11	
Beryllium	Greens Bayou				1E-11	
Cadmium	Sheldon Reservoir				3E-10	
Cadmium	Highlands Reservoir				3E-10	
Cadmium	Buffalo Bayou				3E-10	
Cadmium	Greens Bayou				3E-10	
Chromium VI	Sheldon Reservoir				2E-08	
Chromium VI	Highlands Reservoir				2E-08	
Chromium VI	Buffalo Bayou				2E-08	
Chromium VI	Greens Bayou				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	6E-10	0E+00	4E-09	2E-04	5E-09
Manganese	Highlands Reservoir	6E-10	0E+00	4E-09	2E-04	5E-09
Manganese	Buffalo Bayou	6E-10	0E+00	4E-09	2E-04	5E-09
Manganese	Greens Bayou	6E-10	0E+00	4E-09	2E-04	5E-09
Mercury (elemental)	Sheldon Reservoir				8E-06	
Mercury (elemental)	Highlands Reservoir				8E-06	
Mercury (elemental)	Buffalo Bayou				8E-06	
Mercury (elemental)	Greens Bayou				8E-06	
Mercury (divalent)	Sheldon Reservoir	9E-07		1E-07		1E-06
Mercury (divalent)	Highlands Reservoir	9E-07		1E-07		1E-06
Mercury (divalent)	Buffalo Bayou	9E-07		1E-07		1E-06
Mercury (divalent)	Greens Bayou	9E-07		1E-07		1E-06
Nickel	Sheldon Reservoir	5E-11	2E-10	1E-09		1E-09
Nickel	Highlands Reservoir	5E-11	3E-11	1E-09		1E-09
Nickel	Buffalo Bayou	5E-11	5E-11	1E-09		1E-09
Nickel	Greens Bayou	5E-11	3E-11	1E-09		1E-09
Silver	Sheldon Reservoir	6E-11	0E+00	5E-08		5E-08
Silver	Highlands Reservoir	6E-11	0E+00	5E-08		5E-08
Silver	Buffalo Bayou	6E-11	0E+00	5E-08		5E-08
Silver	Greens Bayou	6E-11	0E+00	5E-08		5E-08
Thallium	Sheldon Reservoir	8E-07	9E-05	6E-06		9E-05
Thallium	Highlands Reservoir	8E-07	1E-05	6E-06		2E-05
Thallium	Buffalo Bayou	8E-07	2E-05	6E-06		3E-05
Thallium	Greens Bayou	8E-07	1E-05	6E-06		2E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	3E-09	0E+00	8E-07		8E-07
Antimony	Highlands Reservoir	3E-09	0E+00	8E-07		8E-07
Antimony	Buffalo Bayou	3E-09	0E+00	8E-07		8E-07
Antimony	Greens Bayou	3E-09	0E+00	8E-07		8E-07
Arsenic	Sheldon Reservoir	8E-08	1E-06	1E-06		2E-06
Arsenic	Highlands Reservoir	8E-08	2E-07	1E-06		2E-06
Arsenic	Buffalo Bayou	8E-08	2E-07	1E-06		2E-06
Arsenic	Greens Bayou	8E-08	1E-07	1E-06		1E-06
Barium	Sheldon Reservoir	1E-09	0E+00	3E-10	2E-06	1E-09
Barium	Highlands Reservoir	1E-09	0E+00	3E-10	2E-06	1E-09
Barium	Buffalo Bayou	1E-09	0E+00	3E-10	2E-06	1E-09
Barium	Greens Bayou	1E-09	0E+00	3E-10	2E-06	1E-09
Beryllium	Sheldon Reservoir	1E-09	3E-09	4E-10		5E-09
Beryllium	Highlands Reservoir	1E-09	4E-10	4E-10		2E-09
Beryllium	Buffalo Bayou	1E-09	5E-10	4E-10		2E-09
Beryllium	Greens Bayou	1E-09	3E-10	4E-10		2E-09
Cadmium	Sheldon Reservoir	2E-08	3E-06	1E-07		3E-06
Cadmium	Highlands Reservoir	2E-08	4E-07	1E-07		6E-07
Cadmium	Buffalo Bayou	2E-08	6E-07	1E-07		8E-07
Cadmium	Greens Bayou	2E-08	3E-07	1E-07		5E-07
Chromium VI	Sheldon Reservoir	5E-09	2E-08	1E-07		1E-07
Chromium VI	Highlands Reservoir	5E-09	3E-09	1E-07		1E-07
Chromium VI	Buffalo Bayou	5E-09	4E-09	1E-07		1E-07
Chromium VI	Greens Bayou	5E-09	2E-09	1E-07		1E-07
Chromium III	Sheldon Reservoir	3E-09	2E-10	4E-12		3E-09
Chromium III	Highlands Reservoir	3E-09	2E-11	4E-12		3E-09
Chromium III	Buffalo Bayou	3E-09	3E-11	4E-12		3E-09
Chromium III	Greens Bayou	3E-09	2E-11	4E-12		3E-09
Cobalt	Sheldon Reservoir	2E-10	0E+00	2E-09		2E-09
Cobalt	Highlands Reservoir	2E-10	0E+00	2E-09		2E-09
Cobalt	Buffalo Bayou	2E-10	0E+00	2E-09		2E-09
Cobalt	Greens Bayou	2E-10	0E+00	2E-09		2E-09
Hydrogen Chloride	Sheldon Reservoir				3E-03	
Hydrogen Chloride	Highlands Reservoir				3E-03	
Hydrogen Chloride	Buffalo Bayou				3E-03	
Hydrogen Chloride	Greens Bayou				3E-03	
Selenium	Sheldon Reservoir	3E-10	9E-06	3E-08		9E-06
Selenium	Highlands Reservoir	3E-10	1E-06	3E-08		1E-06
Selenium	Buffalo Bayou	3E-10	2E-06	3E-08		2E-06
Selenium	Greens Bayou	3E-10	1E-06	3E-08		1E-06
Chlorine	Sheldon Reservoir				2E-03	
Chlorine	Highlands Reservoir				2E-03	
Chlorine	Buffalo Bayou				2E-03	
Chlorine	Greens Bayou				2E-03	
Methylmercury - Developmental Effects	Sheldon Reservoir	5E-08	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Highlands Reservoir	5E-08	4E-05	5E-10		4E-05
Methylmercury - Developmental Effects	Buffalo Bayou	5E-08	1E-04	5E-10		1E-04
Methylmercury - Developmental Effects	Greens Bayou	5E-08	8E-05	5E-10		8E-05

Table IX-E30. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A45) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	2E-08	3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	Highlands Reservoir	2E-08	1E-05	2E-10		1E-05
Methylmercury - Neurological Effects	Buffalo Bayou	2E-08	4E-05	2E-10		4E-05
Methylmercury - Neurological Effects	Greens Bayou	2E-08	3E-05	2E-10		3E-05

Table IX-E31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	2E-10	8E-11	4E-10	1E-07	1E-06	1E-08	4E-08	3E-08	5E-08	2E-14	1E-09	1E-06
Nickel												7E-11	
Arsenic	4E-10	2E-10	7E-11	4E-10	1E-09	2E-09	7E-11			3E-09	5E-12	2E-08	7E-09
Beryllium												1E-10	
Cadmium												2E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-08	8E-08	4E-08	2E-07	3E-08	1E-06	2E-09			0E+00	4E-10	1E-03	2E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	1E-03	1E-06	3E-03	1E-03	2E-02	5E-07						2E-02
Nickel	6E-09	3E-09	1E-09	7E-09	7E-08	7E-07	4E-09			1E-08	1E-10		8E-07
Silver	2E-09	2E-08	6E-09	6E-08	4E-07	2E-04	1E-08			0E+00	1E-09		2E-04
Thallium	3E-07	3E-08	1E-09	7E-08	8E-06	2E-05	8E-07			1E-05	2E-09		5E-05
Antimony	8E-08	3E-07	7E-08	8E-07	1E-06	8E-06	5E-08			0E+00	1E-08		1E-05
Arsenic	1E-05	4E-06	2E-06	1E-05	3E-05	5E-05	2E-06			6E-05	1E-07		2E-04
Barium	3E-07	3E-08	7E-09	6E-08	1E-08	2E-06	2E-09			0E+00	6E-12	2E-05	2E-06
Beryllium	3E-07	5E-09	9E-10	1E-08	5E-08	2E-09	2E-08			4E-08	1E-11		5E-07
Cadmium	3E-06	3E-06	1E-06	6E-06	3E-07	9E-07	5E-08			2E-04	2E-08		2E-04
Chromium VI	2E-07	8E-08	3E-08	2E-07	3E-06	5E-05	2E-07			4E-07	5E-09		5E-05
Chromium III	3E-07	4E-09	2E-09	1E-08	3E-07	3E-06	8E-08			5E-11	2E-14		4E-06
Cobalt	2E-08	4E-09	2E-11	9E-09	3E-07	2E-06	3E-08			0E+00	1E-10		2E-06
Hydrogen Chloride												6E-04	
Selenium	5E-09	5E-09	4E-09	1E-08	1E-07	9E-06	4E-07			7E-05	4E-10		8E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	5E-07	5E-04	1E-07	4E-04	9E-04	1E-02	2E-07			7E-04			2E-02
Methylmercury - Neurological Effects	2E-07	2E-04	4E-08	1E-04	3E-04	5E-03	5E-08			2E-04			5E-03

Table IX-E31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-10	2E-10	7E-11	6E-10	2E-07	8E-07	8E-09	4E-08	3E-08	5E-08	2E-14	1E-09	1E-06
Nickel												8E-11	
Arsenic	1E-10	1E-10	6E-11	5E-10	2E-09	1E-09	6E-11			3E-09	4E-12	3E-08	7E-09
Beryllium												2E-10	
Cadmium												2E-09	
Chromium VI												5E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	4E-08	3E-08	2E-07	3E-08	7E-07	1E-09			0E+00	2E-10	1E-03	1E-06
Mercury (elemental)												5E-04	
Mercury (divalent)	NA	7E-04	7E-07	3E-03	1E-03	8E-03	3E-07						1E-02
Nickel	2E-09	2E-09	8E-10	7E-09	8E-08	3E-07	2E-09			9E-09	6E-11		5E-07
Silver	5E-10	1E-08	4E-09	6E-08	4E-07	8E-05	8E-09			0E+00	7E-10		8E-05
Thallium	8E-08	1E-08	1E-09	7E-08	9E-06	1E-05	5E-07			1E-05	9E-10		3E-05
Antimony	2E-08	2E-07	5E-08	8E-07	2E-06	4E-06	3E-08			0E+00	7E-09		6E-06
Arsenic	3E-06	2E-06	1E-06	9E-06	3E-05	2E-05	1E-06			5E-05	7E-08		1E-04
Barium	7E-08	2E-08	5E-09	5E-08	2E-08	9E-07	1E-09			0E+00	3E-12	2E-05	1E-06
Beryllium	9E-08	3E-09	6E-10	1E-08	6E-08	1E-09	1E-08			3E-08	8E-12		2E-07
Cadmium	7E-07	2E-06	9E-07	5E-06	3E-07	5E-07	3E-08			1E-04	8E-09		2E-04
Chromium VI	6E-08	4E-08	2E-08	2E-07	3E-06	2E-05	1E-07			3E-07	3E-09		3E-05
Chromium III	8E-08	2E-09	2E-09	9E-09	3E-07	2E-06	5E-08			4E-11	9E-15		2E-06
Cobalt	5E-09	2E-09	1E-11	9E-09	4E-07	1E-06	2E-08			0E+00	8E-11		1E-06
Hydrogen Chloride												6E-04	
Selenium	1E-09	3E-09	2E-09	1E-08	1E-07	5E-06	2E-07			5E-05	2E-10		6E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	1E-07	3E-04	9E-08	4E-04	1E-03	7E-03	1E-07			5E-04			9E-03
Methylmercury - Neurological Effects	5E-08	8E-05	3E-08	1E-04	4E-04	2E-03	3E-08			2E-04			3E-03

Table IX-E31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-10	1E-10	5E-11	3E-10	8E-08	4E-07	5E-09	2E-08	2E-08	3E-08	1E-14	9E-10	5E-07
Nickel												5E-11	
Arsenic	8E-11	1E-10	4E-11	3E-10	8E-10	6E-10	4E-11			1E-09	3E-12	2E-08	3E-09
Beryllium												1E-10	
Cadmium												2E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	9E-09	3E-08	2E-08	8E-08	1E-08	3E-07	8E-10			0E+00	1E-10	1E-03	5E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	1E-06	6E-04	5E-07	1E-03	6E-04	4E-03	2E-07			0E+00			6E-03
Nickel	8E-10	1E-09	6E-10	4E-09	4E-08	2E-07	2E-09			5E-09	4E-11		2E-07
Silver	2E-10	1E-08	3E-09	3E-08	2E-07	3E-05	5E-09			0E+00	4E-10		3E-05
Thallium	4E-08	1E-08	7E-10	4E-08	4E-06	5E-06	3E-07			6E-06	6E-10		2E-05
Antimony	1E-08	1E-07	4E-08	4E-07	7E-07	2E-06	2E-08			0E+00	5E-09		3E-06
Arsenic	1E-06	2E-06	9E-07	5E-06	1E-05	1E-05	7E-07			3E-05	4E-08		6E-05
Barium	4E-08	1E-08	4E-09	3E-08	7E-09	4E-07	8E-10			0E+00	2E-12	2E-05	5E-07
Beryllium	5E-08	2E-09	4E-10	6E-09	3E-08	5E-10	6E-09			2E-08	5E-12		1E-07
Cadmium	4E-07	1E-06	7E-07	3E-06	1E-07	2E-07	2E-08			7E-05	5E-09		8E-05
Chromium VI	3E-08	3E-08	1E-08	1E-07	2E-06	1E-05	6E-08			2E-07	2E-09		1E-05
Chromium III	4E-08	2E-09	1E-09	5E-09	1E-07	7E-07	3E-08			2E-11	6E-15		9E-07
Cobalt	2E-09	2E-09	1E-11	5E-09	2E-07	5E-07	1E-08			0E+00	5E-11		7E-07
Hydrogen Chloride												6E-04	
Selenium	7E-10	2E-09	2E-09	7E-09	6E-08	2E-06	1E-07			3E-05	1E-10		3E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	7E-08	2E-04	7E-08	2E-04	5E-04	3E-03	6E-08			3E-04			4E-03
Methylmercury - Neurological Effects	2E-08	7E-05	2E-08	7E-05	2E-04	1E-03	2E-08			9E-05			1E-03

Table IX-E31. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	3E-10	1E-10	5E-10	2E-07	3E-07	9E-09	4E-08	3E-08	5E-08	2E-14	1E-09	6E-07
Nickel												7E-11	
Arsenic	6E-11	2E-10	8E-11	4E-10	2E-09	5E-10	7E-11			3E-09	6E-12	2E-08	6E-09
Beryllium												2E-10	
Cadmium												2E-09	
Chromium VI												4E-08	
	Noncarcinogenic Chemicals												
Manganese	4E-09	5E-08	2E-08	7E-08	2E-08	1E-07	7E-10			0E+00	1E-10	1E-03	3E-07
Mercury (elemental)												5E-04	
Mercury (divalent)	5E-07	8E-04	6E-07	1E-03	7E-04	2E-03	2E-07			0E+00			4E-03
Nickel	3E-10	2E-09	7E-10	3E-09	4E-08	7E-08	1E-09			5E-09	4E-11		1E-07
Silver	1E-10	1E-08	3E-09	3E-08	2E-07	2E-05	5E-09			0E+00	5E-10		2E-05
Thallium	2E-08	1E-08	8E-10	3E-08	5E-06	2E-06	3E-07			6E-06	6E-10		1E-05
Antimony	4E-09	2E-07	4E-08	4E-07	8E-07	8E-07	2E-08			0E+00	5E-09		2E-06
Arsenic	6E-07	2E-06	1E-06	5E-06	2E-05	5E-06	6E-07			3E-05	5E-08		6E-05
Barium	2E-08	2E-08	4E-09	3E-08	8E-09	2E-07	7E-10			0E+00	3E-12	2E-05	2E-07
Beryllium	2E-08	3E-09	5E-10	6E-09	3E-08	2E-10	6E-09			2E-08	6E-12		8E-08
Cadmium	2E-07	2E-06	8E-07	3E-06	2E-07	9E-08	2E-08			8E-05	6E-09		9E-05
Chromium VI	1E-08	4E-08	2E-08	1E-07	2E-06	5E-06	5E-08			2E-07	2E-09		7E-06
Chromium III	2E-08	2E-09	1E-09	5E-09	2E-07	3E-07	3E-08			2E-11	7E-15		5E-07
Cobalt	1E-09	2E-09	1E-11	4E-09	2E-07	2E-07	9E-09			0E+00	6E-11		4E-07
Hydrogen Chloride												6E-04	
Selenium	3E-10	3E-09	2E-09	7E-09	6E-08	9E-07	1E-07			3E-05	1E-10		3E-05
Chlorine												1E-02	
Methylmercury - Developmental Effects	3E-08	3E-04	7E-08	2E-04	6E-04	1E-03	5E-08			3E-04			3E-03
Methylmercury - Neurological Effects	1E-08	9E-05	2E-08	7E-05	2E-04	5E-04	2E-08			1E-04			9E-04

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	2E-09	5E-11	9E-13	1E-09	2E-09
2,3,7,8-TCDD-TEQ	Middle Island Creek	2E-09	2E-09	9E-13	1E-09	4E-09
2,3,7,8-TCDD-TEQ	Little Muskingum River	2E-09	1E-09	9E-13	1E-09	4E-09
Nickel	Ohio River				7E-11	
Nickel	Middle Island Creek				7E-11	
Nickel	Little Muskingum River				7E-11	
Arsenic	Ohio River	4E-10	5E-13	2E-10	2E-08	6E-10
Arsenic	Middle Island Creek	4E-10	2E-11	2E-10	2E-08	6E-10
Arsenic	Little Muskingum River	4E-10	1E-11	2E-10	2E-08	6E-10
Beryllium	Ohio River				1E-10	
Beryllium	Middle Island Creek				1E-10	
Beryllium	Little Muskingum River				1E-10	
Cadmium	Ohio River				2E-09	
Cadmium	Middle Island Creek				2E-09	
Cadmium	Little Muskingum River				2E-09	
Chromium VI	Ohio River				4E-08	
Chromium VI	Middle Island Creek				4E-08	
Chromium VI	Little Muskingum River				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	7E-08	0E+00	1E-08	1E-03	8E-08
Manganese	Middle Island Creek	7E-08	0E+00	1E-08	1E-03	8E-08
Manganese	Little Muskingum River	7E-08	0E+00	1E-08	1E-03	8E-08
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Middle Island Creek				5E-04	
Mercury (elemental)	Little Muskingum River				5E-04	
Mercury (divalent)	Ohio River	9E-06		0E+00		9E-06
Mercury (divalent)	Middle Island Creek	9E-06		0E+00		9E-06
Mercury (divalent)	Little Muskingum River	9E-06		0E+00		9E-06
Nickel	Ohio River	6E-09	2E-12	4E-09		1E-08
Nickel	Middle Island Creek	6E-09	9E-11	4E-09		1E-08
Nickel	Little Muskingum River	6E-09	5E-11	4E-09		1E-08
Silver	Ohio River	2E-09	0E+00	5E-08		5E-08
Silver	Middle Island Creek	2E-09	0E+00	5E-08		5E-08
Silver	Little Muskingum River	2E-09	0E+00	5E-08		5E-08
Thallium	Ohio River	3E-07	3E-09	6E-08		4E-07
Thallium	Middle Island Creek	3E-07	1E-07	6E-08		5E-07
Thallium	Little Muskingum River	3E-07	8E-08	6E-08		5E-07
Antimony	Ohio River	8E-08	0E+00	5E-07		6E-07
Antimony	Middle Island Creek	8E-08	0E+00	5E-07		6E-07
Antimony	Little Muskingum River	8E-08	0E+00	5E-07		6E-07
Arsenic	Ohio River	1E-05	1E-08	5E-06		1E-05
Arsenic	Middle Island Creek	1E-05	5E-07	5E-06		2E-05
Arsenic	Little Muskingum River	1E-05	3E-07	5E-06		2E-05
Barium	Ohio River	3E-07	0E+00	2E-10	2E-05	3E-07
Barium	Middle Island Creek	3E-07	0E+00	2E-10	2E-05	3E-07
Barium	Little Muskingum River	3E-07	0E+00	2E-10	2E-05	3E-07
Beryllium	Ohio River	3E-07	6E-11	6E-10		3E-07
Beryllium	Middle Island Creek	3E-07	3E-09	6E-10		3E-07
Beryllium	Little Muskingum River	3E-07	1E-09	6E-10		3E-07

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ohio River	3E-06	5E-08	6E-07		3E-06
Cadmium	Middle Island Creek	3E-06	2E-06	6E-07		5E-06
Cadmium	Little Muskingum River	3E-06	1E-06	6E-07		4E-06
Chromium VI	Ohio River	2E-07	9E-11	2E-07		4E-07
Chromium VI	Middle Island Creek	2E-07	3E-09	2E-07		4E-07
Chromium VI	Little Muskingum River	2E-07	2E-09	2E-07		4E-07
Chromium III	Ohio River	3E-07	1E-12	7E-13		3E-07
Chromium III	Middle Island Creek	3E-07	7E-11	7E-13		3E-07
Chromium III	Little Muskingum River	3E-07	3E-11	7E-13		3E-07
Cobalt	Ohio River	2E-08	0E+00	7E-13		2E-08
Cobalt	Middle Island Creek	2E-08	0E+00	7E-13		2E-08
Cobalt	Little Muskingum River	2E-08	0E+00	7E-13		2E-08
Hydrogen Chloride	Ohio River				6E-04	
Hydrogen Chloride	Middle Island Creek				6E-04	
Hydrogen Chloride	Little Muskingum River				6E-04	
Selenium	Ohio River	5E-09	1E-08	1E-08		3E-08
Selenium	Middle Island Creek	5E-09	5E-07	1E-08		5E-07
Selenium	Little Muskingum River	5E-09	3E-07	1E-08		3E-07
Chlorine	Ohio River				1E-02	
Chlorine	Middle Island Creek				1E-02	
Chlorine	Little Muskingum River				1E-02	
Methylmercury - Developmental Effects	Ohio River	5E-07	0E+00	0E+00		5E-07
Methylmercury - Developmental Effects	Middle Island Creek	5E-07	0E+00	0E+00		5E-07
Methylmercury - Developmental Effects	Little Muskingum River	5E-07	0E+00	0E+00		5E-07
Methylmercury - Neurological Effects	Ohio River	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Middle Island Creek	2E-07	0E+00	0E+00		2E-07
Methylmercury - Neurological Effects	Little Muskingum River	2E-07	0E+00	0E+00		2E-07

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	8E-10	6E-11	7E-13	1E-09	8E-10
2,3,7,8-TCDD-TEQ	Middle Island Creek	8E-10	3E-09	7E-13	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Little Muskingum River	8E-10	2E-09	7E-13	1E-09	3E-09
Nickel	Ohio River				8E-11	
Nickel	Middle Island Creek				8E-11	
Nickel	Little Muskingum River				8E-11	
Arsenic	Ohio River	1E-10	7E-13	1E-10	3E-08	3E-10
Arsenic	Middle Island Creek	1E-10	3E-11	1E-10	3E-08	3E-10
Arsenic	Little Muskingum River	1E-10	2E-11	1E-10	3E-08	3E-10
Beryllium	Ohio River				2E-10	
Beryllium	Middle Island Creek				2E-10	
Beryllium	Little Muskingum River				2E-10	
Cadmium	Ohio River				2E-09	
Cadmium	Middle Island Creek				2E-09	
Cadmium	Little Muskingum River				2E-09	
Chromium VI	Ohio River				5E-08	
Chromium VI	Middle Island Creek				5E-08	
Chromium VI	Little Muskingum River				5E-08	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	2E-08	0E+00	7E-09	1E-03	2E-08
Manganese	Middle Island Creek	2E-08	0E+00	7E-09	1E-03	2E-08
Manganese	Little Muskingum River	2E-08	0E+00	7E-09	1E-03	2E-08
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Middle Island Creek				5E-04	
Mercury (elemental)	Little Muskingum River				5E-04	
Mercury (divalent)	Ohio River	2E-06		0E+00		2E-06
Mercury (divalent)	Middle Island Creek	2E-06		0E+00		2E-06
Mercury (divalent)	Little Muskingum River	2E-06		0E+00		2E-06
Nickel	Ohio River	2E-09	2E-12	2E-09		4E-09
Nickel	Middle Island Creek	2E-09	9E-11	2E-09		4E-09
Nickel	Little Muskingum River	2E-09	5E-11	2E-09		4E-09
Silver	Ohio River	5E-10	0E+00	3E-08		3E-08
Silver	Middle Island Creek	5E-10	0E+00	3E-08		3E-08
Silver	Little Muskingum River	5E-10	0E+00	3E-08		3E-08
Thallium	Ohio River	8E-08	3E-09	3E-08		1E-07
Thallium	Middle Island Creek	8E-08	1E-07	3E-08		2E-07
Thallium	Little Muskingum River	8E-08	8E-08	3E-08		2E-07
Antimony	Ohio River	2E-08	0E+00	3E-07		3E-07
Antimony	Middle Island Creek	2E-08	0E+00	3E-07		3E-07
Antimony	Little Muskingum River	2E-08	0E+00	3E-07		3E-07
Arsenic	Ohio River	3E-06	1E-08	3E-06		5E-06
Arsenic	Middle Island Creek	3E-06	5E-07	3E-06		6E-06
Arsenic	Little Muskingum River	3E-06	3E-07	3E-06		6E-06
Barium	Ohio River	7E-08	0E+00	1E-10	2E-05	7E-08
Barium	Middle Island Creek	7E-08	0E+00	1E-10	2E-05	7E-08
Barium	Little Muskingum River	7E-08	0E+00	1E-10	2E-05	7E-08
Beryllium	Ohio River	9E-08	6E-11	3E-10		9E-08
Beryllium	Middle Island Creek	9E-08	3E-09	3E-10		9E-08
Beryllium	Little Muskingum River	9E-08	1E-09	3E-10		9E-08

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ohio River	7E-07	5E-08	3E-07		1E-06
Cadmium	Middle Island Creek	7E-07	2E-06	3E-07		3E-06
Cadmium	Little Muskingum River	7E-07	1E-06	3E-07		2E-06
Chromium VI	Ohio River	6E-08	9E-11	1E-07		2E-07
Chromium VI	Middle Island Creek	6E-08	3E-09	1E-07		2E-07
Chromium VI	Little Muskingum River	6E-08	2E-09	1E-07		2E-07
Chromium III	Ohio River	8E-08	1E-12	4E-13		8E-08
Chromium III	Middle Island Creek	8E-08	7E-11	4E-13		8E-08
Chromium III	Little Muskingum River	8E-08	3E-11	4E-13		8E-08
Cobalt	Ohio River	5E-09	0E+00	4E-13		5E-09
Cobalt	Middle Island Creek	5E-09	0E+00	4E-13		5E-09
Cobalt	Little Muskingum River	5E-09	0E+00	4E-13		5E-09
Hydrogen Chloride	Ohio River				6E-04	
Hydrogen Chloride	Middle Island Creek				6E-04	
Hydrogen Chloride	Little Muskingum River				6E-04	
Selenium	Ohio River	1E-09	1E-08	7E-09		2E-08
Selenium	Middle Island Creek	1E-09	5E-07	7E-09		5E-07
Selenium	Little Muskingum River	1E-09	3E-07	7E-09		3E-07
Chlorine	Ohio River				1E-02	
Chlorine	Middle Island Creek				1E-02	
Chlorine	Little Muskingum River				1E-02	
Methylmercury - Developmental Effects	Ohio River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Middle Island Creek	1E-07	0E+00	0E+00		1E-07
Methylmercury - Developmental Effects	Little Muskingum River	1E-07	0E+00	0E+00		1E-07
Methylmercury - Neurological Effects	Ohio River	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Middle Island Creek	5E-08	0E+00	0E+00		5E-08
Methylmercury - Neurological Effects	Little Muskingum River	5E-08	0E+00	0E+00		5E-08

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	4E-10	5E-11	4E-13	9E-10	5E-10
2,3,7,8-TCDD-TEQ	Middle Island Creek	4E-10	2E-09	4E-13	9E-10	2E-09
2,3,7,8-TCDD-TEQ	Little Muskingum River	4E-10	1E-09	4E-13	9E-10	2E-09
Nickel	Ohio River				5E-11	
Nickel	Middle Island Creek				5E-11	
Nickel	Little Muskingum River				5E-11	
Arsenic	Ohio River	8E-11	5E-13	9E-11	2E-08	2E-10
Arsenic	Middle Island Creek	8E-11	2E-11	9E-11	2E-08	2E-10
Arsenic	Little Muskingum River	8E-11	1E-11	9E-11	2E-08	2E-10
Beryllium	Ohio River				1E-10	
Beryllium	Middle Island Creek				1E-10	
Beryllium	Little Muskingum River				1E-10	
Cadmium	Ohio River				2E-09	
Cadmium	Middle Island Creek				2E-09	
Cadmium	Little Muskingum River				2E-09	
Chromium VI	Ohio River				3E-08	
Chromium VI	Middle Island Creek				3E-08	
Chromium VI	Little Muskingum River				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	9E-09	0E+00	5E-09	1E-03	1E-08
Manganese	Middle Island Creek	9E-09	0E+00	5E-09	1E-03	1E-08
Manganese	Little Muskingum River	9E-09	0E+00	5E-09	1E-03	1E-08
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Middle Island Creek				5E-04	
Mercury (elemental)	Little Muskingum River				5E-04	
Mercury (divalent)	Ohio River	1E-06		0E+00		1E-06
Mercury (divalent)	Middle Island Creek	1E-06		0E+00		1E-06
Mercury (divalent)	Little Muskingum River	1E-06		0E+00		1E-06
Nickel	Ohio River	8E-10	2E-12	1E-09		2E-09
Nickel	Middle Island Creek	8E-10	7E-11	1E-09		2E-09
Nickel	Little Muskingum River	8E-10	4E-11	1E-09		2E-09
Silver	Ohio River	2E-10	0E+00	2E-08		2E-08
Silver	Middle Island Creek	2E-10	0E+00	2E-08		2E-08
Silver	Little Muskingum River	2E-10	0E+00	2E-08		2E-08
Thallium	Ohio River	4E-08	2E-09	2E-08		7E-08
Thallium	Middle Island Creek	4E-08	9E-08	2E-08		2E-07
Thallium	Little Muskingum River	4E-08	5E-08	2E-08		1E-07
Antimony	Ohio River	1E-08	0E+00	2E-07		2E-07
Antimony	Middle Island Creek	1E-08	0E+00	2E-07		2E-07
Antimony	Little Muskingum River	1E-08	0E+00	2E-07		2E-07
Arsenic	Ohio River	1E-06	1E-08	2E-06		3E-06
Arsenic	Middle Island Creek	1E-06	4E-07	2E-06		3E-06
Arsenic	Little Muskingum River	1E-06	2E-07	2E-06		3E-06
Barium	Ohio River	4E-08	0E+00	9E-11	2E-05	4E-08
Barium	Middle Island Creek	4E-08	0E+00	9E-11	2E-05	4E-08
Barium	Little Muskingum River	4E-08	0E+00	9E-11	2E-05	4E-08
Beryllium	Ohio River	5E-08	4E-11	2E-10		5E-08
Beryllium	Middle Island Creek	5E-08	2E-09	2E-10		5E-08
Beryllium	Little Muskingum River	5E-08	1E-09	2E-10		5E-08

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ohio River	4E-07	4E-08	2E-07		6E-07
Cadmium	Middle Island Creek	4E-07	1E-06	2E-07		2E-06
Cadmium	Little Muskingum River	4E-07	8E-07	2E-07		1E-06
Chromium VI	Ohio River	3E-08	6E-11	6E-08		1E-07
Chromium VI	Middle Island Creek	3E-08	2E-09	6E-08		1E-07
Chromium VI	Little Muskingum River	3E-08	1E-09	6E-08		1E-07
Chromium III	Ohio River	4E-08	1E-12	2E-13		4E-08
Chromium III	Middle Island Creek	4E-08	5E-11	2E-13		4E-08
Chromium III	Little Muskingum River	4E-08	2E-11	2E-13		4E-08
Cobalt	Ohio River	2E-09	0E+00	2E-09		4E-09
Cobalt	Middle Island Creek	2E-09	0E+00	2E-09		4E-09
Cobalt	Little Muskingum River	2E-09	0E+00	2E-09		4E-09
Hydrogen Chloride	Ohio River				6E-04	
Hydrogen Chloride	Middle Island Creek				6E-04	
Hydrogen Chloride	Little Muskingum River				6E-04	
Selenium	Ohio River	7E-10	1E-08	5E-09		2E-08
Selenium	Middle Island Creek	7E-10	4E-07	5E-09		4E-07
Selenium	Little Muskingum River	7E-10	2E-07	5E-09		2E-07
Chlorine	Ohio River				1E-02	
Chlorine	Middle Island Creek				1E-02	
Chlorine	Little Muskingum River				1E-02	
Methylmercury - Developmental Effects	Ohio River	7E-08	0E+00	0E+00		7E-08
Methylmercury - Developmental Effects	Middle Island Creek	7E-08	0E+00	0E+00		7E-08
Methylmercury - Developmental Effects	Little Muskingum River	7E-08	0E+00	0E+00		7E-08
Methylmercury - Neurological Effects	Ohio River	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Middle Island Creek	2E-08	0E+00	0E+00		2E-08
Methylmercury - Neurological Effects	Little Muskingum River	2E-08	0E+00	0E+00		2E-08

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Ohio River	3E-10	8E-11	9E-13	1E-09	4E-10
2,3,7,8-TCDD-TEQ	Middle Island Creek	3E-10	3E-09	9E-13	1E-09	3E-09
2,3,7,8-TCDD-TEQ	Little Muskingum River	3E-10	2E-09	9E-13	1E-09	3E-09
Nickel	Ohio River				7E-11	
Nickel	Middle Island Creek				7E-11	
Nickel	Little Muskingum River				7E-11	
Arsenic	Ohio River	6E-11	1E-12	2E-10	2E-08	3E-10
Arsenic	Middle Island Creek	6E-11	4E-11	2E-10	2E-08	3E-10
Arsenic	Little Muskingum River	6E-11	2E-11	2E-10	2E-08	3E-10
Beryllium	Ohio River				2E-10	
Beryllium	Middle Island Creek				2E-10	
Beryllium	Little Muskingum River				2E-10	
Cadmium	Ohio River				2E-09	
Cadmium	Middle Island Creek				2E-09	
Cadmium	Little Muskingum River				2E-09	
Chromium VI	Ohio River				4E-08	
Chromium VI	Middle Island Creek				4E-08	
Chromium VI	Little Muskingum River				4E-08	
	Noncarcinogenic Chemicals					
Manganese	Ohio River	4E-09	0E+00	6E-09	1E-03	9E-09
Manganese	Middle Island Creek	4E-09	0E+00	6E-09	1E-03	9E-09
Manganese	Little Muskingum River	4E-09	0E+00	6E-09	1E-03	9E-09
Mercury (elemental)	Ohio River				5E-04	
Mercury (elemental)	Middle Island Creek				5E-04	
Mercury (elemental)	Little Muskingum River				5E-04	
Mercury (divalent)	Ohio River	5E-07		0E+00		5E-07
Mercury (divalent)	Middle Island Creek	5E-07		0E+00		5E-07
Mercury (divalent)	Little Muskingum River	5E-07		0E+00		5E-07
Nickel	Ohio River	3E-10	2E-12	2E-09		2E-09
Nickel	Middle Island Creek	3E-10	7E-11	2E-09		2E-09
Nickel	Little Muskingum River	3E-10	4E-11	2E-09		2E-09
Silver	Ohio River	1E-10	0E+00	2E-08		2E-08
Silver	Middle Island Creek	1E-10	0E+00	2E-08		2E-08
Silver	Little Muskingum River	1E-10	0E+00	2E-08		2E-08
Thallium	Ohio River	2E-08	2E-09	2E-08		4E-08
Thallium	Middle Island Creek	2E-08	9E-08	2E-08		1E-07
Thallium	Little Muskingum River	2E-08	5E-08	2E-08		1E-07
Antimony	Ohio River	4E-09	0E+00	2E-07		2E-07
Antimony	Middle Island Creek	4E-09	0E+00	2E-07		2E-07
Antimony	Little Muskingum River	4E-09	0E+00	2E-07		2E-07
Arsenic	Ohio River	6E-07	1E-08	2E-06		3E-06
Arsenic	Middle Island Creek	6E-07	4E-07	2E-06		3E-06
Arsenic	Little Muskingum River	6E-07	2E-07	2E-06		3E-06
Barium	Ohio River	2E-08	0E+00	1E-10	2E-05	2E-08
Barium	Middle Island Creek	2E-08	0E+00	1E-10	2E-05	2E-08
Barium	Little Muskingum River	2E-08	0E+00	1E-10	2E-05	2E-08
Beryllium	Ohio River	2E-08	4E-11	2E-10		2E-08
Beryllium	Middle Island Creek	2E-08	2E-09	2E-10		2E-08
Beryllium	Little Muskingum River	2E-08	1E-09	2E-10		2E-08

Table IX-E32. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A46) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Ohio River	2E-07	4E-08	2E-07		4E-07
Cadmium	Middle Island Creek	2E-07	1E-06	2E-07		2E-06
Cadmium	Little Muskingum River	2E-07	8E-07	2E-07		1E-06
Chromium VI	Ohio River	1E-08	6E-11	7E-08		9E-08
Chromium VI	Middle Island Creek	1E-08	2E-09	7E-08		9E-08
Chromium VI	Little Muskingum River	1E-08	1E-09	7E-08		9E-08
Chromium III	Ohio River	2E-08	1E-12	3E-13		2E-08
Chromium III	Middle Island Creek	2E-08	5E-11	3E-13		2E-08
Chromium III	Little Muskingum River	2E-08	2E-11	3E-13		2E-08
Cobalt	Ohio River	1E-09	0E+00	2E-09		3E-09
Cobalt	Middle Island Creek	1E-09	0E+00	2E-09		3E-09
Cobalt	Little Muskingum River	1E-09	0E+00	2E-09		3E-09
Hydrogen Chloride	Ohio River				6E-04	
Hydrogen Chloride	Middle Island Creek				6E-04	
Hydrogen Chloride	Little Muskingum River				6E-04	
Selenium	Ohio River	3E-10	1E-08	6E-09		2E-08
Selenium	Middle Island Creek	3E-10	4E-07	6E-09		4E-07
Selenium	Little Muskingum River	3E-10	2E-07	6E-09		2E-07
Chlorine	Ohio River				1E-02	
Chlorine	Middle Island Creek				1E-02	
Chlorine	Little Muskingum River				1E-02	
Methylmercury - Developmental Effects	Ohio River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Middle Island Creek	3E-08	0E+00	0E+00		3E-08
Methylmercury - Developmental Effects	Little Muskingum River	3E-08	0E+00	0E+00		3E-08
Methylmercury - Neurological Effects	Ohio River	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Middle Island Creek	1E-08	0E+00	0E+00		1E-08
Methylmercury - Neurological Effects	Little Muskingum River	1E-08	0E+00	0E+00		1E-08

Table IX-E33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-11	1E-11	3E-12	2E-11	6E-09	7E-08	5E-10	1E-09	9E-10	2E-09		8E-11	8E-08
Nickel												1E-11	
Arsenic	1E-10	4E-11	2E-11	9E-11	3E-10	5E-10	2E-11			1E-09		8E-09	2E-09
Beryllium												7E-12	
Cadmium												1E-10	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-09	1E-09	7E-10	3E-09	4E-10	2E-08	4E-11			0E+00		3E-05	3E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	2E-08	2E-05	8E-06	1E-04	4E-09						2E-04
Nickel	6E-10	3E-10	1E-10	7E-10	7E-09	7E-08	4E-10			2E-09			8E-08
Silver	1E-10	1E-09	4E-10	4E-09	2E-08	9E-06	9E-10			0E+00			9E-06
Thallium	2E-06	1E-07	7E-09	3E-07	4E-05	1E-04	4E-06			9E-05			2E-04
Antimony	6E-11	2E-10	6E-11	6E-10	1E-09	6E-09	4E-11			0E+00			8E-09
Arsenic	2E-06	1E-06	4E-07	2E-06	7E-06	1E-05	5E-07			3E-05			5E-05
Barium	5E-10	5E-11	1E-11	1E-10	2E-11	3E-09	4E-12			0E+00		7E-08	4E-09
Beryllium	1E-08	1E-10	3E-11	4E-10	2E-09	7E-11	5E-10			8E-10			1E-08
Cadmium	1E-07	1E-07	5E-08	2E-07	9E-09	3E-08	2E-09			7E-06			8E-06
Chromium VI	9E-10	3E-10	1E-10	8E-10	1E-08	2E-07	6E-10			3E-09			2E-07
Chromium III	1E-09	1E-11	8E-12	3E-11	9E-10	1E-08	3E-10			1E-13			1E-08
Cobalt	3E-10	6E-11	3E-13	2E-10	6E-09	3E-08	5E-10			0E+00			4E-08
Hydrogen Chloride												8E-04	
Selenium	2E-10	2E-10	1E-10	6E-10	4E-09	4E-07	1E-08			5E-06			6E-06
Chlorine												3E-03	
Methylmercury - Developmental Effects	1E-08	3E-06	3E-09	3E-06	7E-06	1E-04	1E-09			3E-06			1E-04
Methylmercury - Neurological Effects	3E-09	1E-06	8E-10	1E-06	2E-06	3E-05	4E-10			8E-07			4E-05

Table IX-E33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-11	9E-12	3E-12	3E-11	1E-08	5E-08	4E-10	1E-09	1E-09	2E-09		9E-11	6E-08
Nickel												1E-11	
Arsenic	4E-11	3E-11	1E-11	1E-10	4E-10	3E-10	1E-11			1E-09		1E-08	2E-09
Beryllium												8E-12	
Cadmium												1E-10	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-10	7E-10	5E-10	2E-09	5E-10	1E-08	2E-11			0E+00		3E-05	2E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	6E-06	1E-08	2E-05	1E-05	6E-05	2E-09						1E-04
Nickel	2E-10	2E-10	8E-11	7E-10	8E-09	3E-08	2E-10			2E-09			4E-08
Silver	3E-11	8E-10	3E-10	4E-09	3E-08	5E-06	5E-10			0E+00			5E-06
Thallium	4E-07	7E-08	5E-09	3E-07	5E-05	5E-05	2E-06			7E-05			2E-04
Antimony	2E-11	1E-10	4E-11	6E-10	1E-09	3E-09	2E-11			0E+00			5E-09
Arsenic	6E-07	6E-07	3E-07	2E-06	8E-06	6E-06	3E-07			2E-05			4E-05
Barium	1E-10	3E-11	9E-12	9E-11	3E-11	2E-09	2E-12			0E+00		7E-08	2E-09
Beryllium	3E-09	8E-11	2E-11	4E-10	2E-09	3E-11	3E-10			6E-10			6E-09
Cadmium	3E-08	6E-08	3E-08	2E-07	1E-08	2E-08	1E-09			6E-06			6E-06
Chromium VI	2E-10	2E-10	7E-11	7E-10	1E-08	8E-08	3E-10			2E-09			1E-07
Chromium III	3E-10	7E-12	6E-12	3E-11	1E-09	5E-09	2E-10			8E-14			7E-09
Cobalt	8E-11	4E-11	2E-13	2E-10	7E-09	2E-08	3E-10			0E+00			2E-08
Hydrogen Chloride												8E-04	
Selenium	5E-11	1E-10	1E-10	5E-10	5E-09	2E-07	9E-09			4E-06			4E-06
Chlorine												3E-03	
Methylmercury - Developmental Effects	3E-09	2E-06	2E-09	3E-06	8E-06	5E-05	7E-10			2E-06			7E-05
Methylmercury - Neurological Effects	9E-10	6E-07	6E-10	1E-06	3E-06	2E-05	2E-10			6E-07			2E-05

Table IX-E33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	7E-12	2E-12	2E-11	5E-09	2E-08	3E-10	9E-10	5E-10	9E-10		6E-11	3E-08
Nickel												7E-12	
Arsenic	2E-11	2E-11	1E-11	6E-11	2E-10	2E-10	1E-11			6E-10		6E-09	1E-09
Beryllium												5E-12	
Cadmium												9E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-10	6E-10	3E-10	1E-09	2E-10	5E-09	1E-11			0E+00		3E-05	8E-09
Mercury (elemental)												4E-06	
Mercury (divalent)	2E-08	4E-06	9E-09	1E-05	5E-06	3E-05	1E-09			0E+00			5E-05
Nickel	8E-11	1E-10	6E-11	3E-10	4E-09	2E-08	2E-10			8E-10			2E-08
Silver	2E-11	6E-10	2E-10	2E-09	1E-08	2E-06	3E-10			0E+00			2E-06
Thallium	2E-07	5E-08	4E-09	2E-07	2E-05	2E-05	2E-06			4E-05			9E-05
Antimony	8E-12	1E-10	3E-11	3E-10	5E-10	1E-09	2E-11			0E+00			2E-09
Arsenic	3E-07	4E-07	2E-07	1E-06	4E-06	3E-06	2E-07			1E-05			2E-05
Barium	7E-11	2E-11	6E-12	5E-11	1E-11	7E-10	1E-12			0E+00		7E-08	9E-10
Beryllium	1E-09	6E-11	1E-11	2E-10	9E-10	2E-11	2E-10			3E-10			3E-09
Cadmium	1E-08	4E-08	2E-08	1E-07	5E-09	8E-09	6E-10			3E-06			3E-06
Chromium VI	1E-10	1E-10	5E-11	4E-10	5E-09	4E-08	2E-10			1E-09			4E-08
Chromium III	2E-10	6E-12	4E-12	2E-11	5E-10	3E-09	1E-10			4E-14			3E-09
Cobalt	4E-11	3E-11	2E-13	8E-11	3E-09	7E-09	2E-10			0E+00			1E-08
Hydrogen Chloride												8E-04	
Selenium	3E-11	8E-11	7E-11	3E-10	2E-09	8E-08	6E-09			2E-06			2E-06
Chlorine												3E-03	
Methylmercury - Developmental Effects	1E-09	1E-06	1E-09	2E-06	4E-06	2E-05	5E-10			1E-06			3E-05
Methylmercury - Neurological Effects	5E-10	5E-07	4E-10	6E-07	1E-06	8E-06	2E-10			3E-07			1E-05

Table IX-E33. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-11	2E-11	4E-12	3E-11	1E-08	2E-08	4E-10	1E-09	9E-10	2E-09		8E-11	3E-08
Nickel												1E-11	
Arsenic	1E-11	5E-11	2E-11	1E-10	4E-10	1E-10	2E-11			1E-09		9E-09	2E-09
Beryllium												8E-12	
Cadmium												1E-10	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	6E-11	8E-10	4E-10	1E-09	3E-10	2E-09	1E-11			0E+00		3E-05	5E-09
Mercury (elemental)												4E-06	
Mercury (divalent)	9E-09	6E-06	1E-08	9E-06	5E-06	1E-05	1E-09			0E+00			3E-05
Nickel	3E-11	2E-10	7E-11	3E-10	4E-09	7E-09	1E-10			9E-10			1E-08
Silver	6E-12	8E-10	2E-10	2E-09	1E-08	1E-06	3E-10			0E+00			1E-06
Thallium	9E-08	7E-08	4E-09	2E-07	2E-05	1E-05	1E-06			4E-05			8E-05
Antimony	3E-12	1E-10	3E-11	3E-10	6E-10	6E-10	1E-11			0E+00			2E-09
Arsenic	1E-07	6E-07	2E-07	1E-06	4E-06	1E-06	2E-07			1E-05			2E-05
Barium	3E-11	3E-11	7E-12	5E-11	1E-11	3E-10	1E-12			0E+00		7E-08	4E-10
Beryllium	6E-10	9E-11	2E-11	2E-10	1E-09	7E-12	2E-10			3E-10			2E-09
Cadmium	6E-09	6E-08	3E-08	9E-08	6E-09	3E-09	6E-10			3E-06			3E-06
Chromium VI	5E-11	2E-10	6E-11	4E-10	6E-09	2E-08	2E-10			1E-09			2E-08
Chromium III	6E-11	8E-12	5E-12	2E-11	5E-10	1E-09	1E-10			5E-14			2E-09
Cobalt	2E-11	4E-11	2E-13	7E-11	3E-09	3E-09	2E-10			0E+00			7E-09
Hydrogen Chloride												8E-04	
Selenium	1E-11	1E-10	8E-11	3E-10	3E-09	4E-08	5E-09			2E-06			2E-06
Chlorine												3E-03	
Methylmercury - Developmental Effects	6E-10	2E-06	1E-09	2E-06	4E-06	1E-05	4E-10			1E-06			2E-05
Methylmercury - Neurological Effects	2E-10	6E-07	5E-10	5E-07	1E-06	3E-06	1E-10			4E-07			6E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney River	8E-11	1E-10	9E-13	8E-11	2E-10
2,3,7,8-TCDD-TEQ	Sand Creek	8E-11	9E-10	9E-13	8E-11	9E-10
2,3,7,8-TCDD-TEQ	Lake Hudson	8E-11	2E-09	9E-13	8E-11	2E-09
2,3,7,8-TCDD-TEQ	Bar-Dew Lake	8E-11	2E-09	9E-13	8E-11	2E-09
Nickel	Caney River				1E-11	
Nickel	Sand Creek				1E-11	
Nickel	Lake Hudson				1E-11	
Nickel	Bar-Dew Lake				1E-11	
Arsenic	Caney River	1E-10	4E-12	5E-10	8E-09	6E-10
Arsenic	Sand Creek	1E-10	3E-11	5E-10	8E-09	6E-10
Arsenic	Lake Hudson	1E-10	5E-11	5E-10	8E-09	6E-10
Arsenic	Bar-Dew Lake	1E-10	8E-11	5E-10	8E-09	7E-10
Beryllium	Caney River				7E-12	
Beryllium	Sand Creek				7E-12	
Beryllium	Lake Hudson				7E-12	
Beryllium	Bar-Dew Lake				7E-12	
Cadmium	Caney River				1E-10	
Cadmium	Sand Creek				1E-10	
Cadmium	Lake Hudson				1E-10	
Cadmium	Bar-Dew Lake				1E-10	
Chromium VI	Caney River				2E-10	
Chromium VI	Sand Creek				2E-10	
Chromium VI	Lake Hudson				2E-10	
Chromium VI	Bar-Dew Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Caney River	1E-09	0E+00	3E-09	3E-05	4E-09
Manganese	Sand Creek	1E-09	0E+00	3E-09	3E-05	4E-09
Manganese	Lake Hudson	1E-09	0E+00	3E-09	3E-05	4E-09
Manganese	Bar-Dew Lake	1E-09	0E+00	3E-09	3E-05	4E-09
Mercury (elemental)	Caney River				4E-06	
Mercury (elemental)	Sand Creek				4E-06	
Mercury (elemental)	Lake Hudson				4E-06	
Mercury (elemental)	Bar-Dew Lake				4E-06	
Mercury (divalent)	Caney River	2E-07		5E-10		2E-07
Mercury (divalent)	Sand Creek	2E-07		5E-10		2E-07
Mercury (divalent)	Lake Hudson	2E-07		5E-10		2E-07
Mercury (divalent)	Bar-Dew Lake	2E-07		5E-10		2E-07
Nickel	Caney River	6E-10	7E-12	4E-09		5E-09
Nickel	Sand Creek	6E-10	6E-11	4E-09		5E-09
Nickel	Lake Hudson	6E-10	1E-10	4E-09		5E-09
Nickel	Bar-Dew Lake	6E-10	2E-10	4E-09		5E-09
Silver	Caney River	1E-10	0E+00	3E-08		3E-08
Silver	Sand Creek	1E-10	0E+00	3E-08		3E-08
Silver	Lake Hudson	1E-10	0E+00	3E-08		3E-08
Silver	Bar-Dew Lake	1E-10	0E+00	3E-08		3E-08
Thallium	Caney River	2E-06	5E-07	3E-06		5E-06
Thallium	Sand Creek	2E-06	4E-06	3E-06		9E-06
Thallium	Lake Hudson	2E-06	7E-06	3E-06		1E-05
Thallium	Bar-Dew Lake	2E-06	1E-05	3E-06		2E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney River	6E-11	0E+00	4E-09		4E-09
Antimony	Sand Creek	6E-11	0E+00	4E-09		4E-09
Antimony	Lake Hudson	6E-11	0E+00	4E-09		4E-09
Antimony	Bar-Dew Lake	6E-11	0E+00	4E-09		4E-09
Arsenic	Caney River	2E-06	1E-07	1E-05		1E-05
Arsenic	Sand Creek	2E-06	8E-07	1E-05		2E-05
Arsenic	Lake Hudson	2E-06	1E-06	1E-05		2E-05
Arsenic	Bar-Dew Lake	2E-06	2E-06	1E-05		2E-05
Barium	Caney River	5E-10	0E+00	2E-11	7E-08	5E-10
Barium	Sand Creek	5E-10	0E+00	2E-11	7E-08	5E-10
Barium	Lake Hudson	5E-10	0E+00	2E-11	7E-08	5E-10
Barium	Bar-Dew Lake	5E-10	0E+00	2E-11	7E-08	5E-10
Beryllium	Caney River	1E-08	9E-11	8E-10		1E-08
Beryllium	Sand Creek	1E-08	7E-10	8E-10		1E-08
Beryllium	Lake Hudson	1E-08	6E-10	8E-10		1E-08
Beryllium	Bar-Dew Lake	1E-08	8E-10	8E-10		1E-08
Cadmium	Caney River	1E-07	5E-08	2E-07		4E-07
Cadmium	Sand Creek	1E-07	5E-07	2E-07		8E-07
Cadmium	Lake Hudson	1E-07	7E-07	2E-07		1E-06
Cadmium	Bar-Dew Lake	1E-07	1E-06	2E-07		1E-06
Chromium VI	Caney River	9E-10	1E-11	7E-09		8E-09
Chromium VI	Sand Creek	9E-10	8E-11	7E-09		8E-09
Chromium VI	Lake Hudson	9E-10	1E-10	7E-09		8E-09
Chromium VI	Bar-Dew Lake	9E-10	2E-10	7E-09		8E-09
Chromium III	Caney River	1E-09	3E-13	1E-13		1E-09
Chromium III	Sand Creek	1E-09	2E-12	1E-13		1E-09
Chromium III	Lake Hudson	1E-09	6E-13	1E-13		1E-09
Chromium III	Bar-Dew Lake	1E-09	8E-13	1E-13		1E-09
Cobalt	Caney River	3E-10	0E+00	1E-13		3E-10
Cobalt	Sand Creek	3E-10	0E+00	1E-13		3E-10
Cobalt	Lake Hudson	3E-10	0E+00	1E-13		3E-10
Cobalt	Bar-Dew Lake	3E-10	0E+00	1E-13		3E-10
Hydrogen Chloride	Caney River				8E-04	
Hydrogen Chloride	Sand Creek				8E-04	
Hydrogen Chloride	Lake Hudson				8E-04	
Hydrogen Chloride	Bar-Dew Lake				8E-04	
Selenium	Caney River	2E-10	2E-08	6E-09		2E-08
Selenium	Sand Creek	2E-10	1E-07	6E-09		1E-07
Selenium	Lake Hudson	2E-10	2E-07	6E-09		2E-07
Selenium	Bar-Dew Lake	2E-10	3E-07	6E-09		3E-07
Chlorine	Caney River				3E-03	
Chlorine	Sand Creek				3E-03	
Chlorine	Lake Hudson				3E-03	
Chlorine	Bar-Dew Lake				3E-03	
Methylmercury - Developmental Effects	Caney River	1E-08	6E-07	6E-11		7E-07
Methylmercury - Developmental Effects	Sand Creek	1E-08	2E-06	6E-11		2E-06
Methylmercury - Developmental Effects	Lake Hudson	1E-08	8E-06	6E-11		8E-06
Methylmercury - Developmental Effects	Bar-Dew Lake	1E-08	1E-05	6E-11		1E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney River	3E-09	2E-07	2E-11		2E-07
Methylmercury - Neurological Effects	Sand Creek	3E-09	7E-07	2E-11		7E-07
Methylmercury - Neurological Effects	Lake Hudson	3E-09	3E-06	2E-11		3E-06
Methylmercury - Neurological Effects	Bar-Dew Lake	3E-09	5E-06	2E-11		5E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney River	3E-11	2E-10	7E-13	9E-11	2E-10
2,3,7,8-TCDD-TEQ	Sand Creek	3E-11	1E-09	7E-13	9E-11	1E-09
2,3,7,8-TCDD-TEQ	Lake Hudson	3E-11	3E-09	7E-13	9E-11	3E-09
2,3,7,8-TCDD-TEQ	Bar-Dew Lake	3E-11	2E-09	7E-13	9E-11	2E-09
Nickel	Caney River				1E-11	
Nickel	Sand Creek				1E-11	
Nickel	Lake Hudson				1E-11	
Nickel	Bar-Dew Lake				1E-11	
Arsenic	Caney River	4E-11	5E-12	4E-10	1E-08	4E-10
Arsenic	Sand Creek	4E-11	5E-11	4E-10	1E-08	5E-10
Arsenic	Lake Hudson	4E-11	7E-11	4E-10	1E-08	5E-10
Arsenic	Bar-Dew Lake	4E-11	1E-10	4E-10	1E-08	5E-10
Beryllium	Caney River				8E-12	
Beryllium	Sand Creek				8E-12	
Beryllium	Lake Hudson				8E-12	
Beryllium	Bar-Dew Lake				8E-12	
Cadmium	Caney River				1E-10	
Cadmium	Sand Creek				1E-10	
Cadmium	Lake Hudson				1E-10	
Cadmium	Bar-Dew Lake				1E-10	
Chromium VI	Caney River				3E-10	
Chromium VI	Sand Creek				3E-10	
Chromium VI	Lake Hudson				3E-10	
Chromium VI	Bar-Dew Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Caney River	3E-10	0E+00	1E-09	3E-05	2E-09
Manganese	Sand Creek	3E-10	0E+00	1E-09	3E-05	2E-09
Manganese	Lake Hudson	3E-10	0E+00	1E-09	3E-05	2E-09
Manganese	Bar-Dew Lake	3E-10	0E+00	1E-09	3E-05	2E-09
Mercury (elemental)	Caney River				4E-06	
Mercury (elemental)	Sand Creek				4E-06	
Mercury (elemental)	Lake Hudson				4E-06	
Mercury (elemental)	Bar-Dew Lake				4E-06	
Mercury (divalent)	Caney River	4E-08		3E-10		4E-08
Mercury (divalent)	Sand Creek	4E-08		3E-10		4E-08
Mercury (divalent)	Lake Hudson	4E-08		3E-10		4E-08
Mercury (divalent)	Bar-Dew Lake	4E-08		3E-10		4E-08
Nickel	Caney River	2E-10	7E-12	2E-09		2E-09
Nickel	Sand Creek	2E-10	6E-11	2E-09		3E-09
Nickel	Lake Hudson	2E-10	1E-10	2E-09		3E-09
Nickel	Bar-Dew Lake	2E-10	2E-10	2E-09		3E-09
Silver	Caney River	3E-11	0E+00	2E-08		2E-08
Silver	Sand Creek	3E-11	0E+00	2E-08		2E-08
Silver	Lake Hudson	3E-11	0E+00	2E-08		2E-08
Silver	Bar-Dew Lake	3E-11	0E+00	2E-08		2E-08
Thallium	Caney River	4E-07	5E-07	2E-06		3E-06
Thallium	Sand Creek	4E-07	4E-06	2E-06		7E-06
Thallium	Lake Hudson	4E-07	7E-06	2E-06		9E-06
Thallium	Bar-Dew Lake	4E-07	1E-05	2E-06		1E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney River	2E-11	0E+00	2E-09		2E-09
Antimony	Sand Creek	2E-11	0E+00	2E-09		2E-09
Antimony	Lake Hudson	2E-11	0E+00	2E-09		2E-09
Antimony	Bar-Dew Lake	2E-11	0E+00	2E-09		2E-09
Arsenic	Caney River	6E-07	1E-07	7E-06		8E-06
Arsenic	Sand Creek	6E-07	8E-07	7E-06		8E-06
Arsenic	Lake Hudson	6E-07	1E-06	7E-06		9E-06
Arsenic	Bar-Dew Lake	6E-07	2E-06	7E-06		1E-05
Barium	Caney River	1E-10	0E+00	1E-11	7E-08	1E-10
Barium	Sand Creek	1E-10	0E+00	1E-11	7E-08	1E-10
Barium	Lake Hudson	1E-10	0E+00	1E-11	7E-08	1E-10
Barium	Bar-Dew Lake	1E-10	0E+00	1E-11	7E-08	1E-10
Beryllium	Caney River	3E-09	9E-11	4E-10		3E-09
Beryllium	Sand Creek	3E-09	7E-10	4E-10		4E-09
Beryllium	Lake Hudson	3E-09	6E-10	4E-10		4E-09
Beryllium	Bar-Dew Lake	3E-09	8E-10	4E-10		4E-09
Cadmium	Caney River	3E-08	5E-08	1E-07		2E-07
Cadmium	Sand Creek	3E-08	5E-07	1E-07		6E-07
Cadmium	Lake Hudson	3E-08	7E-07	1E-07		9E-07
Cadmium	Bar-Dew Lake	3E-08	1E-06	1E-07		1E-06
Chromium VI	Caney River	2E-10	1E-11	4E-09		4E-09
Chromium VI	Sand Creek	2E-10	8E-11	4E-09		4E-09
Chromium VI	Lake Hudson	2E-10	1E-10	4E-09		4E-09
Chromium VI	Bar-Dew Lake	2E-10	2E-10	4E-09		4E-09
Chromium III	Caney River	3E-10	3E-13	8E-14		3E-10
Chromium III	Sand Creek	3E-10	2E-12	8E-14		3E-10
Chromium III	Lake Hudson	3E-10	6E-13	8E-14		3E-10
Chromium III	Bar-Dew Lake	3E-10	8E-13	8E-14		3E-10
Cobalt	Caney River	8E-11	0E+00	8E-14		8E-11
Cobalt	Sand Creek	8E-11	0E+00	8E-14		8E-11
Cobalt	Lake Hudson	8E-11	0E+00	8E-14		8E-11
Cobalt	Bar-Dew Lake	8E-11	0E+00	8E-14		8E-11
Hydrogen Chloride	Caney River				8E-04	
Hydrogen Chloride	Sand Creek				8E-04	
Hydrogen Chloride	Lake Hudson				8E-04	
Hydrogen Chloride	Bar-Dew Lake				8E-04	
Selenium	Caney River	5E-11	2E-08	3E-09		2E-08
Selenium	Sand Creek	5E-11	1E-07	3E-09		1E-07
Selenium	Lake Hudson	5E-11	2E-07	3E-09		2E-07
Selenium	Bar-Dew Lake	5E-11	3E-07	3E-09		3E-07
Chlorine	Caney River				3E-03	
Chlorine	Sand Creek				3E-03	
Chlorine	Lake Hudson				3E-03	
Chlorine	Bar-Dew Lake				3E-03	
Methylmercury - Developmental Effects	Caney River	3E-09	6E-07	3E-11		7E-07
Methylmercury - Developmental Effects	Sand Creek	3E-09	2E-06	3E-11		2E-06
Methylmercury - Developmental Effects	Lake Hudson	3E-09	8E-06	3E-11		8E-06
Methylmercury - Developmental Effects	Bar-Dew Lake	3E-09	1E-05	3E-11		1E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney River	9E-10	2E-07	1E-11		2E-07
Methylmercury - Neurological Effects	Sand Creek	9E-10	7E-07	1E-11		7E-07
Methylmercury - Neurological Effects	Lake Hudson	9E-10	3E-06	1E-11		3E-06
Methylmercury - Neurological Effects	Bar-Dew Lake	9E-10	5E-06	1E-11		5E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney River	1E-11	1E-10	4E-13	6E-11	1E-10
2,3,7,8-TCDD-TEQ	Sand Creek	1E-11	9E-10	4E-13	6E-11	9E-10
2,3,7,8-TCDD-TEQ	Lake Hudson	1E-11	2E-09	4E-13	6E-11	2E-09
2,3,7,8-TCDD-TEQ	Bar-Dew Lake	1E-11	2E-09	4E-13	6E-11	2E-09
Nickel	Caney River				7E-12	
Nickel	Sand Creek				7E-12	
Nickel	Lake Hudson				7E-12	
Nickel	Bar-Dew Lake				7E-12	
Arsenic	Caney River	2E-11	4E-12	3E-10	6E-09	3E-10
Arsenic	Sand Creek	2E-11	3E-11	3E-10	6E-09	3E-10
Arsenic	Lake Hudson	2E-11	5E-11	3E-10	6E-09	3E-10
Arsenic	Bar-Dew Lake	2E-11	8E-11	3E-10	6E-09	4E-10
Beryllium	Caney River				5E-12	
Beryllium	Sand Creek				5E-12	
Beryllium	Lake Hudson				5E-12	
Beryllium	Bar-Dew Lake				5E-12	
Cadmium	Caney River				9E-11	
Cadmium	Sand Creek				9E-11	
Cadmium	Lake Hudson				9E-11	
Cadmium	Bar-Dew Lake				9E-11	
Chromium VI	Caney River				2E-10	
Chromium VI	Sand Creek				2E-10	
Chromium VI	Lake Hudson				2E-10	
Chromium VI	Bar-Dew Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Caney River	2E-10	0E+00	9E-10	3E-05	1E-09
Manganese	Sand Creek	2E-10	0E+00	9E-10	3E-05	1E-09
Manganese	Lake Hudson	2E-10	0E+00	9E-10	3E-05	1E-09
Manganese	Bar-Dew Lake	2E-10	0E+00	9E-10	3E-05	1E-09
Mercury (elemental)	Caney River				4E-06	
Mercury (elemental)	Sand Creek				4E-06	
Mercury (elemental)	Lake Hudson				4E-06	
Mercury (elemental)	Bar-Dew Lake				4E-06	
Mercury (divalent)	Caney River	2E-08		2E-10		2E-08
Mercury (divalent)	Sand Creek	2E-08		2E-10		2E-08
Mercury (divalent)	Lake Hudson	2E-08		2E-10		2E-08
Mercury (divalent)	Bar-Dew Lake	2E-08		2E-10		2E-08
Nickel	Caney River	8E-11	5E-12	1E-09		2E-09
Nickel	Sand Creek	8E-11	5E-11	1E-09		2E-09
Nickel	Lake Hudson	8E-11	7E-11	1E-09		2E-09
Nickel	Bar-Dew Lake	8E-11	1E-10	1E-09		2E-09
Silver	Caney River	2E-11	0E+00	1E-08		1E-08
Silver	Sand Creek	2E-11	0E+00	1E-08		1E-08
Silver	Lake Hudson	2E-11	0E+00	1E-08		1E-08
Silver	Bar-Dew Lake	2E-11	0E+00	1E-08		1E-08
Thallium	Caney River	2E-07	4E-07	1E-06		2E-06
Thallium	Sand Creek	2E-07	3E-06	1E-06		5E-06
Thallium	Lake Hudson	2E-07	5E-06	1E-06		6E-06
Thallium	Bar-Dew Lake	2E-07	7E-06	1E-06		9E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney River	8E-12	0E+00	1E-09		1E-09
Antimony	Sand Creek	8E-12	0E+00	1E-09		1E-09
Antimony	Lake Hudson	8E-12	0E+00	1E-09		1E-09
Antimony	Bar-Dew Lake	8E-12	0E+00	1E-09		1E-09
Arsenic	Caney River	3E-07	7E-08	5E-06		5E-06
Arsenic	Sand Creek	3E-07	6E-07	5E-06		5E-06
Arsenic	Lake Hudson	3E-07	9E-07	5E-06		6E-06
Arsenic	Bar-Dew Lake	3E-07	1E-06	5E-06		6E-06
Barium	Caney River	7E-11	0E+00	8E-12	7E-08	8E-11
Barium	Sand Creek	7E-11	0E+00	8E-12	7E-08	8E-11
Barium	Lake Hudson	7E-11	0E+00	8E-12	7E-08	8E-11
Barium	Bar-Dew Lake	7E-11	0E+00	8E-12	7E-08	8E-11
Beryllium	Caney River	1E-09	7E-11	3E-10		2E-09
Beryllium	Sand Creek	1E-09	5E-10	3E-10		2E-09
Beryllium	Lake Hudson	1E-09	4E-10	3E-10		2E-09
Beryllium	Bar-Dew Lake	1E-09	6E-10	3E-10		2E-09
Cadmium	Caney River	1E-08	4E-08	9E-08		1E-07
Cadmium	Sand Creek	1E-08	3E-07	9E-08		4E-07
Cadmium	Lake Hudson	1E-08	5E-07	9E-08		6E-07
Cadmium	Bar-Dew Lake	1E-08	8E-07	9E-08		9E-07
Chromium VI	Caney River	1E-10	7E-12	3E-09		3E-09
Chromium VI	Sand Creek	1E-10	6E-11	3E-09		3E-09
Chromium VI	Lake Hudson	1E-10	9E-11	3E-09		3E-09
Chromium VI	Bar-Dew Lake	1E-10	1E-10	3E-09		3E-09
Chromium III	Caney River	2E-10	2E-13	5E-14		2E-10
Chromium III	Sand Creek	2E-10	1E-12	5E-14		2E-10
Chromium III	Lake Hudson	2E-10	4E-13	5E-14		2E-10
Chromium III	Bar-Dew Lake	2E-10	5E-13	5E-14		2E-10
Cobalt	Caney River	4E-11	0E+00	4E-10		4E-10
Cobalt	Sand Creek	4E-11	0E+00	4E-10		4E-10
Cobalt	Lake Hudson	4E-11	0E+00	4E-10		4E-10
Cobalt	Bar-Dew Lake	4E-11	0E+00	4E-10		4E-10
Hydrogen Chloride	Caney River				8E-04	
Hydrogen Chloride	Sand Creek				8E-04	
Hydrogen Chloride	Lake Hudson				8E-04	
Hydrogen Chloride	Bar-Dew Lake				8E-04	
Selenium	Caney River	3E-11	1E-08	2E-09		1E-08
Selenium	Sand Creek	3E-11	1E-07	2E-09		1E-07
Selenium	Lake Hudson	3E-11	2E-07	2E-09		2E-07
Selenium	Bar-Dew Lake	3E-11	2E-07	2E-09		2E-07
Chlorine	Caney River				3E-03	
Chlorine	Sand Creek				3E-03	
Chlorine	Lake Hudson				3E-03	
Chlorine	Bar-Dew Lake				3E-03	
Methylmercury - Developmental Effects	Caney River	1E-09	5E-07	2E-11		5E-07
Methylmercury - Developmental Effects	Sand Creek	1E-09	1E-06	2E-11		1E-06
Methylmercury - Developmental Effects	Lake Hudson	1E-09	6E-06	2E-11		6E-06
Methylmercury - Developmental Effects	Bar-Dew Lake	1E-09	1E-05	2E-11		1E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney River	5E-10	2E-07	7E-12		2E-07
Methylmercury - Neurological Effects	Sand Creek	5E-10	5E-07	7E-12		5E-07
Methylmercury - Neurological Effects	Lake Hudson	5E-10	2E-06	7E-12		2E-06
Methylmercury - Neurological Effects	Bar-Dew Lake	5E-10	3E-06	7E-12		3E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Caney River	1E-11	2E-10	9E-13	8E-11	2E-10
2,3,7,8-TCDD-TEQ	Sand Creek	1E-11	2E-09	9E-13	8E-11	2E-09
2,3,7,8-TCDD-TEQ	Lake Hudson	1E-11	3E-09	9E-13	8E-11	3E-09
2,3,7,8-TCDD-TEQ	Bar-Dew Lake	1E-11	3E-09	9E-13	8E-11	3E-09
Nickel	Caney River				1E-11	
Nickel	Sand Creek				1E-11	
Nickel	Lake Hudson				1E-11	
Nickel	Bar-Dew Lake				1E-11	
Arsenic	Caney River	1E-11	7E-12	6E-10	9E-09	6E-10
Arsenic	Sand Creek	1E-11	6E-11	6E-10	9E-09	6E-10
Arsenic	Lake Hudson	1E-11	1E-10	6E-10	9E-09	7E-10
Arsenic	Bar-Dew Lake	1E-11	2E-10	6E-10	9E-09	7E-10
Beryllium	Caney River				8E-12	
Beryllium	Sand Creek				8E-12	
Beryllium	Lake Hudson				8E-12	
Beryllium	Bar-Dew Lake				8E-12	
Cadmium	Caney River				1E-10	
Cadmium	Sand Creek				1E-10	
Cadmium	Lake Hudson				1E-10	
Cadmium	Bar-Dew Lake				1E-10	
Chromium VI	Caney River				2E-10	
Chromium VI	Sand Creek				2E-10	
Chromium VI	Lake Hudson				2E-10	
Chromium VI	Bar-Dew Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Caney River	6E-11	0E+00	1E-09	3E-05	1E-09
Manganese	Sand Creek	6E-11	0E+00	1E-09	3E-05	1E-09
Manganese	Lake Hudson	6E-11	0E+00	1E-09	3E-05	1E-09
Manganese	Bar-Dew Lake	6E-11	0E+00	1E-09	3E-05	1E-09
Mercury (elemental)	Caney River				4E-06	
Mercury (elemental)	Sand Creek				4E-06	
Mercury (elemental)	Lake Hudson				4E-06	
Mercury (elemental)	Bar-Dew Lake				4E-06	
Mercury (divalent)	Caney River	9E-09		2E-10		9E-09
Mercury (divalent)	Sand Creek	9E-09		2E-10		9E-09
Mercury (divalent)	Lake Hudson	9E-09		2E-10		9E-09
Mercury (divalent)	Bar-Dew Lake	9E-09		2E-10		9E-09
Nickel	Caney River	3E-11	5E-12	2E-09		2E-09
Nickel	Sand Creek	3E-11	5E-11	2E-09		2E-09
Nickel	Lake Hudson	3E-11	7E-11	2E-09		2E-09
Nickel	Bar-Dew Lake	3E-11	1E-10	2E-09		2E-09
Silver	Caney River	6E-12	0E+00	1E-08		1E-08
Silver	Sand Creek	6E-12	0E+00	1E-08		1E-08
Silver	Lake Hudson	6E-12	0E+00	1E-08		1E-08
Silver	Bar-Dew Lake	6E-12	0E+00	1E-08		1E-08
Thallium	Caney River	9E-08	4E-07	1E-06		2E-06
Thallium	Sand Creek	9E-08	3E-06	1E-06		5E-06
Thallium	Lake Hudson	9E-08	5E-06	1E-06		6E-06
Thallium	Bar-Dew Lake	9E-08	7E-06	1E-06		9E-06

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Caney River	3E-12	0E+00	2E-09		2E-09
Antimony	Sand Creek	3E-12	0E+00	2E-09		2E-09
Antimony	Lake Hudson	3E-12	0E+00	2E-09		2E-09
Antimony	Bar-Dew Lake	3E-12	0E+00	2E-09		2E-09
Arsenic	Caney River	1E-07	7E-08	5E-06		5E-06
Arsenic	Sand Creek	1E-07	6E-07	5E-06		6E-06
Arsenic	Lake Hudson	1E-07	9E-07	5E-06		6E-06
Arsenic	Bar-Dew Lake	1E-07	1E-06	5E-06		7E-06
Barium	Caney River	3E-11	0E+00	9E-12	7E-08	4E-11
Barium	Sand Creek	3E-11	0E+00	9E-12	7E-08	4E-11
Barium	Lake Hudson	3E-11	0E+00	9E-12	7E-08	4E-11
Barium	Bar-Dew Lake	3E-11	0E+00	9E-12	7E-08	4E-11
Beryllium	Caney River	6E-10	7E-11	3E-10		1E-09
Beryllium	Sand Creek	6E-10	5E-10	3E-10		1E-09
Beryllium	Lake Hudson	6E-10	4E-10	3E-10		1E-09
Beryllium	Bar-Dew Lake	6E-10	6E-10	3E-10		1E-09
Cadmium	Caney River	6E-09	4E-08	1E-07		2E-07
Cadmium	Sand Creek	6E-09	3E-07	1E-07		4E-07
Cadmium	Lake Hudson	6E-09	5E-07	1E-07		6E-07
Cadmium	Bar-Dew Lake	6E-09	8E-07	1E-07		9E-07
Chromium VI	Caney River	5E-11	7E-12	3E-09		3E-09
Chromium VI	Sand Creek	5E-11	6E-11	3E-09		3E-09
Chromium VI	Lake Hudson	5E-11	9E-11	3E-09		3E-09
Chromium VI	Bar-Dew Lake	5E-11	1E-10	3E-09		3E-09
Chromium III	Caney River	6E-11	2E-13	6E-14		6E-11
Chromium III	Sand Creek	6E-11	1E-12	6E-14		6E-11
Chromium III	Lake Hudson	6E-11	4E-13	6E-14		6E-11
Chromium III	Bar-Dew Lake	6E-11	5E-13	6E-14		6E-11
Cobalt	Caney River	2E-11	0E+00	4E-10		4E-10
Cobalt	Sand Creek	2E-11	0E+00	4E-10		4E-10
Cobalt	Lake Hudson	2E-11	0E+00	4E-10		4E-10
Cobalt	Bar-Dew Lake	2E-11	0E+00	4E-10		4E-10
Hydrogen Chloride	Caney River				8E-04	
Hydrogen Chloride	Sand Creek				8E-04	
Hydrogen Chloride	Lake Hudson				8E-04	
Hydrogen Chloride	Bar-Dew Lake				8E-04	
Selenium	Caney River	1E-11	1E-08	2E-09		1E-08
Selenium	Sand Creek	1E-11	1E-07	2E-09		1E-07
Selenium	Lake Hudson	1E-11	2E-07	2E-09		2E-07
Selenium	Bar-Dew Lake	1E-11	2E-07	2E-09		2E-07
Chlorine	Caney River				3E-03	
Chlorine	Sand Creek				3E-03	
Chlorine	Lake Hudson				3E-03	
Chlorine	Bar-Dew Lake				3E-03	
Methylmercury - Developmental Effects	Caney River	6E-10	5E-07	2E-11		5E-07
Methylmercury - Developmental Effects	Sand Creek	6E-10	1E-06	2E-11		1E-06
Methylmercury - Developmental Effects	Lake Hudson	6E-10	6E-06	2E-11		6E-06
Methylmercury - Developmental Effects	Bar-Dew Lake	6E-10	1E-05	2E-11		1E-05

Table IX-E34. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A47) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Caney River	2E-10	2E-07	8E-12		2E-07
Methylmercury - Neurological Effects	Sand Creek	2E-10	5E-07	8E-12		5E-07
Methylmercury - Neurological Effects	Lake Hudson	2E-10	2E-06	8E-12		2E-06
Methylmercury - Neurological Effects	Bar-Dew Lake	2E-10	3E-06	8E-12		3E-06

Table IX-E35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-09	3E-10	1E-10	6E-10	1E-07	1E-06	1E-08	7E-08	4E-08	5E-08		1E-09	2E-06
Nickel												8E-10	
Arsenic	5E-12	2E-12	7E-13	4E-12	1E-11	2E-11	9E-13			2E-11		1E-10	7E-11
Beryllium												3E-10	
Cadmium												4E-10	
Chromium VI												9E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-07	1E-07	6E-08	2E-07	4E-08	2E-06	4E-09			0E+00		7E-04	3E-06
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	4E-06	1E-08	8E-06	3E-06	5E-05	2E-09						7E-05
Nickel	2E-07	9E-08	4E-08	2E-07	2E-06	2E-05	1E-07			3E-07			2E-05
Silver	5E-10	7E-09	2E-09	2E-08	1E-07	4E-05	4E-09			0E+00			4E-05
Thallium	1E-06	9E-08	5E-09	3E-07	3E-05	8E-05	3E-06			5E-05			2E-04
Antimony	7E-07	3E-06	6E-07	7E-06	1E-05	6E-05	4E-07			0E+00			8E-05
Arsenic	1E-07	5E-08	2E-08	1E-07	3E-07	5E-07	2E-08			6E-07			2E-06
Barium	2E-07	2E-08	4E-09	3E-08	8E-09	1E-06	1E-09			0E+00		6E-06	1E-06
Beryllium	1E-06	2E-08	4E-09	5E-08	2E-07	9E-09	7E-08			2E-07			2E-06
Cadmium	1E-06	1E-06	6E-07	2E-06	1E-07	4E-07	2E-08			7E-05			8E-05
Chromium VI	1E-07	4E-08	2E-08	1E-07	1E-06	2E-05	9E-08			2E-07			3E-05
Chromium III	1E-07	1E-09	8E-10	3E-09	9E-08	1E-06	3E-08			2E-11			1E-06
Cobalt	3E-08	6E-09	3E-11	1E-08	5E-07	3E-06	5E-08			0E+00			4E-06
Hydrogen Chloride												7E-04	
Selenium	1E-09	1E-09	9E-10	3E-09	3E-08	2E-06	9E-08			1E-05			2E-05
Chlorine												6E-03	
Methylmercury - Developmental Effects	5E-09	1E-06	1E-09	1E-06	3E-06	4E-05	5E-10			1E-05			6E-05
Methylmercury - Neurological Effects	2E-09	4E-07	4E-10	4E-07	9E-07	1E-05	2E-10			3E-06			2E-05

Table IX-E35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	2E-10	1E-10	8E-10	2E-07	1E-06	1E-08	7E-08	4E-08	5E-08		1E-09	1E-06
Nickel												1E-09	
Arsenic	2E-12	1E-12	7E-13	5E-12	2E-11	2E-11	7E-13			3E-11		1E-10	7E-11
Beryllium												3E-10	
Cadmium												4E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-08	7E-08	4E-08	2E-07	5E-08	1E-06	2E-09			0E+00		7E-04	2E-06
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	2E-06	7E-09	8E-06	4E-06	3E-05	9E-10						4E-05
Nickel	5E-08	5E-08	3E-08	2E-07	3E-06	1E-05	8E-08			2E-07			1E-05
Silver	1E-10	4E-09	1E-09	2E-08	1E-07	2E-05	2E-09			0E+00			2E-05
Thallium	3E-07	5E-08	4E-09	2E-07	3E-05	4E-05	2E-06			3E-05			1E-04
Antimony	2E-07	2E-06	5E-07	6E-06	1E-05	3E-05	3E-07			0E+00			5E-05
Arsenic	3E-08	3E-08	1E-08	1E-07	4E-07	3E-07	1E-08			5E-07			1E-06
Barium	4E-08	9E-09	3E-09	3E-08	1E-08	5E-07	7E-10			0E+00		6E-06	6E-07
Beryllium	4E-07	1E-08	3E-09	5E-08	3E-07	5E-09	4E-08			1E-07			9E-07
Cadmium	3E-07	7E-07	4E-07	2E-06	1E-07	2E-07	1E-08			6E-05			6E-05
Chromium VI	4E-08	2E-08	1E-08	1E-07	2E-06	1E-05	5E-08			1E-07			1E-05
Chromium III	3E-08	7E-10	6E-10	3E-09	1E-07	5E-07	2E-08			2E-11			7E-07
Cobalt	8E-09	3E-09	2E-11	1E-08	6E-07	2E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												7E-04	
Selenium	3E-10	7E-10	6E-10	3E-09	3E-08	1E-06	5E-08			1E-05			1E-05
Chlorine												6E-03	
Methylmercury - Developmental Effects	1E-09	8E-07	9E-10	1E-06	3E-06	2E-05	3E-10			7E-06			3E-05
Methylmercury - Neurological Effects	5E-10	3E-07	3E-10	4E-07	1E-06	7E-06	1E-10			2E-06			1E-05

Table IX-E35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	2E-10	9E-11	4E-10	1E-07	5E-07	6E-09	4E-08	2E-08	3E-08		8E-10	6E-07
Nickel												6E-10	
Arsenic	9E-13	1E-12	5E-13	3E-12	9E-12	7E-12	5E-13			1E-11		8E-11	4E-11
Beryllium												2E-10	
Cadmium												3E-10	
Chromium VI												6E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-08	5E-08	3E-08	1E-07	2E-08	5E-07	1E-09			0E+00		7E-04	7E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	1E-08	2E-06	5E-09	4E-06	2E-06	1E-05	6E-10			0E+00			2E-05
Nickel	3E-08	4E-08	2E-08	1E-07	1E-06	5E-06	5E-08			1E-07			6E-06
Silver	7E-11	3E-09	9E-10	9E-09	6E-08	1E-05	2E-09			0E+00			1E-05
Thallium	2E-07	4E-08	3E-09	1E-07	2E-05	2E-05	1E-06			2E-05			5E-05
Antimony	9E-08	1E-06	3E-07	3E-06	6E-06	1E-05	2E-07			0E+00			3E-05
Arsenic	2E-08	2E-08	1E-08	6E-08	2E-07	1E-07	8E-09			2E-07			7E-07
Barium	2E-08	7E-09	2E-09	2E-08	4E-09	2E-07	5E-10			0E+00		6E-06	3E-07
Beryllium	2E-07	9E-09	2E-09	3E-08	1E-07	2E-09	3E-08			8E-08			5E-07
Cadmium	2E-07	5E-07	3E-07	1E-06	6E-08	1E-07	8E-09			3E-05			3E-05
Chromium VI	2E-08	2E-08	8E-09	6E-08	8E-07	6E-06	3E-08			8E-08			7E-06
Chromium III	2E-08	6E-10	4E-10	2E-09	5E-08	2E-07	1E-08			8E-12			3E-07
Cobalt	4E-09	3E-09	2E-11	7E-09	3E-07	7E-07	2E-08			0E+00			1E-06
Hydrogen Chloride												7E-04	
Selenium	2E-10	5E-10	5E-10	2E-09	1E-08	5E-07	4E-08			6E-06			6E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	7E-10	6E-07	6E-10	7E-07	1E-06	1E-05	2E-10			4E-06			2E-05
Methylmercury - Neurological Effects	2E-10	2E-07	2E-10	2E-07	5E-07	3E-06	6E-11			1E-06			5E-06

Table IX-E35. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-10	4E-10	2E-10	7E-10	2E-07	4E-07	1E-08	7E-08	4E-08	5E-08		1E-09	8E-07
Nickel												9E-10	
Arsenic	7E-13	3E-12	9E-13	5E-12	2E-11	6E-12	8E-13			3E-11		1E-10	7E-11
Beryllium												3E-10	
Cadmium												4E-10	
Chromium VI												9E-09	
	Noncarcinogenic Chemicals												
Manganese	6E-09	7E-08	4E-08	1E-07	3E-08	2E-07	1E-09			0E+00		7E-04	5E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	5E-09	2E-06	5E-09	4E-06	2E-06	5E-06	5E-10			0E+00			1E-05
Nickel	1E-08	5E-08	2E-08	1E-07	1E-06	2E-06	4E-08			1E-07			4E-06
Silver	3E-11	4E-09	1E-09	8E-09	6E-08	4E-06	1E-09			0E+00			4E-06
Thallium	7E-08	5E-08	3E-09	1E-07	2E-05	8E-06	1E-06			2E-05			5E-05
Antimony	4E-08	2E-06	4E-07	3E-06	6E-06	6E-06	1E-07			0E+00			2E-05
Arsenic	7E-09	3E-08	1E-08	5E-08	2E-07	6E-08	7E-09			3E-07			6E-07
Barium	9E-09	1E-08	2E-09	2E-08	5E-09	1E-07	4E-10			0E+00		6E-06	1E-07
Beryllium	8E-08	1E-08	2E-09	2E-08	1E-07	9E-10	2E-08			8E-08			4E-07
Cadmium	7E-08	7E-07	3E-07	1E-06	7E-08	4E-08	7E-09			3E-05			3E-05
Chromium VI	8E-09	2E-08	9E-09	5E-08	9E-07	2E-06	3E-08			9E-08			4E-06
Chromium III	6E-09	7E-10	5E-10	2E-09	5E-08	1E-07	1E-08			9E-12			2E-07
Cobalt	2E-09	3E-09	2E-11	7E-09	3E-07	3E-07	2E-08			0E+00			7E-07
Hydrogen Chloride												7E-04	
Selenium	7E-11	7E-10	5E-10	2E-09	2E-08	2E-07	3E-08			6E-06			7E-06
Chlorine												6E-03	
Methylmercury - Developmental Effects	3E-10	8E-07	7E-10	6E-07	2E-06	4E-06	2E-10			4E-06			1E-05
Methylmercury - Neurological Effects	1E-10	3E-07	2E-10	2E-07	6E-07	1E-06	5E-11			1E-06			4E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mohawk River	4E-09	4E-09	1E-11	1E-09	7E-09
2,3,7,8-TCDD-TEQ	Acplause Kill River	4E-09	2E-08	1E-11	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Stony Creek Reservoir	4E-09	9E-09	1E-11	1E-09	1E-08
2,3,7,8-TCDD-TEQ	Watervliet Reservoir	4E-09	2E-08	1E-11	1E-09	2E-08
Nickel	Mohawk River				8E-10	
Nickel	Acplause Kill River				8E-10	
Nickel	Stony Creek Reservoir				8E-10	
Nickel	Watervliet Reservoir				8E-10	
Arsenic	Mohawk River	5E-12	9E-14	8E-12	1E-10	1E-11
Arsenic	Acplause Kill River	5E-12	6E-13	8E-12	1E-10	1E-11
Arsenic	Stony Creek Reservoir	5E-12	4E-13	8E-12	1E-10	1E-11
Arsenic	Watervliet Reservoir	5E-12	9E-13	8E-12	1E-10	1E-11
Beryllium	Mohawk River				3E-10	
Beryllium	Acplause Kill River				3E-10	
Beryllium	Stony Creek Reservoir				3E-10	
Beryllium	Watervliet Reservoir				3E-10	
Cadmium	Mohawk River				4E-10	
Cadmium	Acplause Kill River				4E-10	
Cadmium	Stony Creek Reservoir				4E-10	
Cadmium	Watervliet Reservoir				4E-10	
Chromium VI	Mohawk River				9E-09	
Chromium VI	Acplause Kill River				9E-09	
Chromium VI	Stony Creek Reservoir				9E-09	
Chromium VI	Watervliet Reservoir				9E-09	
	Noncarcinogenic Chemicals					
Manganese	Mohawk River	1E-07	0E+00	9E-08	7E-04	2E-07
Manganese	Acplause Kill River	1E-07	0E+00	9E-08	7E-04	2E-07
Manganese	Stony Creek Reservoir	1E-07	0E+00	9E-08	7E-04	2E-07
Manganese	Watervliet Reservoir	1E-07	0E+00	9E-08	7E-04	2E-07
Mercury (elemental)	Mohawk River				2E-06	
Mercury (elemental)	Acplause Kill River				2E-06	
Mercury (elemental)	Stony Creek Reservoir				2E-06	
Mercury (elemental)	Watervliet Reservoir				2E-06	
Mercury (divalent)	Mohawk River	9E-08		4E-10		9E-08
Mercury (divalent)	Acplause Kill River	9E-08		4E-10		9E-08
Mercury (divalent)	Stony Creek Reservoir	9E-08		4E-10		9E-08
Mercury (divalent)	Watervliet Reservoir	9E-08		4E-10		9E-08
Nickel	Mohawk River	2E-07	1E-09	5E-07		7E-07
Nickel	Acplause Kill River	2E-07	7E-09	5E-07		7E-07
Nickel	Stony Creek Reservoir	2E-07	6E-09	5E-07		7E-07
Nickel	Watervliet Reservoir	2E-07	1E-08	5E-07		7E-07
Silver	Mohawk River	5E-10	0E+00	5E-08		5E-08
Silver	Acplause Kill River	5E-10	0E+00	5E-08		5E-08
Silver	Stony Creek Reservoir	5E-10	0E+00	5E-08		5E-08
Silver	Watervliet Reservoir	5E-10	0E+00	5E-08		5E-08
Thallium	Mohawk River	1E-06	2E-07	9E-07		2E-06
Thallium	Acplause Kill River	1E-06	1E-06	9E-07		3E-06
Thallium	Stony Creek Reservoir	1E-06	9E-07	9E-07		3E-06
Thallium	Watervliet Reservoir	1E-06	2E-06	9E-07		4E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mohawk River	7E-07	0E+00	2E-05		2E-05
Antimony	Acplause Kill River	7E-07	0E+00	2E-05		2E-05
Antimony	Stony Creek Reservoir	7E-07	0E+00	2E-05		2E-05
Antimony	Watervliet Reservoir	7E-07	0E+00	2E-05		2E-05
Arsenic	Mohawk River	1E-07	2E-09	2E-07		3E-07
Arsenic	Acplause Kill River	1E-07	1E-08	2E-07		3E-07
Arsenic	Stony Creek Reservoir	1E-07	1E-08	2E-07		3E-07
Arsenic	Watervliet Reservoir	1E-07	2E-08	2E-07		4E-07
Barium	Mohawk River	2E-07	0E+00	3E-09	6E-06	2E-07
Barium	Acplause Kill River	2E-07	0E+00	3E-09	6E-06	2E-07
Barium	Stony Creek Reservoir	2E-07	0E+00	3E-09	6E-06	2E-07
Barium	Watervliet Reservoir	2E-07	0E+00	3E-09	6E-06	2E-07
Beryllium	Mohawk River	1E-06	2E-09	3E-08		1E-06
Beryllium	Acplause Kill River	1E-06	2E-08	3E-08		1E-06
Beryllium	Stony Creek Reservoir	1E-06	1E-08	3E-08		1E-06
Beryllium	Watervliet Reservoir	1E-06	2E-08	3E-08		1E-06
Cadmium	Mohawk River	1E-06	3E-07	1E-06		3E-06
Cadmium	Acplause Kill River	1E-06	2E-06	1E-06		4E-06
Cadmium	Stony Creek Reservoir	1E-06	2E-06	1E-06		4E-06
Cadmium	Watervliet Reservoir	1E-06	3E-06	1E-06		6E-06
Chromium VI	Mohawk River	1E-07	7E-10	4E-07		5E-07
Chromium VI	Acplause Kill River	1E-07	4E-09	4E-07		5E-07
Chromium VI	Stony Creek Reservoir	1E-07	3E-09	4E-07		5E-07
Chromium VI	Watervliet Reservoir	1E-07	7E-09	4E-07		5E-07
Chromium III	Mohawk River	1E-07	4E-12	7E-12		1E-07
Chromium III	Acplause Kill River	1E-07	2E-11	7E-12		1E-07
Chromium III	Stony Creek Reservoir	1E-07	1E-12	7E-12		1E-07
Chromium III	Watervliet Reservoir	1E-07	3E-12	7E-12		1E-07
Cobalt	Mohawk River	3E-08	0E+00	7E-12		3E-08
Cobalt	Acplause Kill River	3E-08	0E+00	7E-12		3E-08
Cobalt	Stony Creek Reservoir	3E-08	0E+00	7E-12		3E-08
Cobalt	Watervliet Reservoir	3E-08	0E+00	7E-12		3E-08
Hydrogen Chloride	Mohawk River				7E-04	
Hydrogen Chloride	Acplause Kill River				7E-04	
Hydrogen Chloride	Stony Creek Reservoir				7E-04	
Hydrogen Chloride	Watervliet Reservoir				7E-04	
Selenium	Mohawk River	1E-09	5E-08	1E-08		6E-08
Selenium	Acplause Kill River	1E-09	3E-07	1E-08		3E-07
Selenium	Stony Creek Reservoir	1E-09	2E-07	1E-08		3E-07
Selenium	Watervliet Reservoir	1E-09	5E-07	1E-08		5E-07
Chlorine	Mohawk River				6E-03	
Chlorine	Acplause Kill River				6E-03	
Chlorine	Stony Creek Reservoir				6E-03	
Chlorine	Watervliet Reservoir				6E-03	
Methylmercury - Developmental Effects	Mohawk River	5E-09	8E-07	3E-11		8E-07
Methylmercury - Developmental Effects	Acplause Kill River	5E-09	5E-06	3E-11		5E-06
Methylmercury - Developmental Effects	Stony Creek Reservoir	5E-09	2E-06	3E-11		2E-06
Methylmercury - Developmental Effects	Watervliet Reservoir	5E-09	4E-06	3E-11		4E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mohawk River	2E-09	3E-07	9E-12		3E-07
Methylmercury - Neurological Effects	Acplause Kill River	2E-09	2E-06	9E-12		2E-06
Methylmercury - Neurological Effects	Stony Creek Reservoir	2E-09	5E-07	9E-12		5E-07
Methylmercury - Neurological Effects	Watervliet Reservoir	2E-09	1E-06	9E-12		1E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mohawk River	1E-09	5E-09	8E-12	1E-09	6E-09
2,3,7,8-TCDD-TEQ	Acplause Kill River	1E-09	3E-08	8E-12	1E-09	3E-08
2,3,7,8-TCDD-TEQ	Stony Creek Reservoir	1E-09	1E-08	8E-12	1E-09	1E-08
2,3,7,8-TCDD-TEQ	Watervliet Reservoir	1E-09	3E-08	8E-12	1E-09	3E-08
Nickel	Mohawk River				1E-09	
Nickel	Acplause Kill River				1E-09	
Nickel	Stony Creek Reservoir				1E-09	
Nickel	Watervliet Reservoir				1E-09	
Arsenic	Mohawk River	2E-12	1E-13	6E-12	1E-10	8E-12
Arsenic	Acplause Kill River	2E-12	8E-13	6E-12	1E-10	9E-12
Arsenic	Stony Creek Reservoir	2E-12	6E-13	6E-12	1E-10	9E-12
Arsenic	Watervliet Reservoir	2E-12	1E-12	6E-12	1E-10	9E-12
Beryllium	Mohawk River				3E-10	
Beryllium	Acplause Kill River				3E-10	
Beryllium	Stony Creek Reservoir				3E-10	
Beryllium	Watervliet Reservoir				3E-10	
Cadmium	Mohawk River				4E-10	
Cadmium	Acplause Kill River				4E-10	
Cadmium	Stony Creek Reservoir				4E-10	
Cadmium	Watervliet Reservoir				4E-10	
Chromium VI	Mohawk River				1E-08	
Chromium VI	Acplause Kill River				1E-08	
Chromium VI	Stony Creek Reservoir				1E-08	
Chromium VI	Watervliet Reservoir				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Mohawk River	3E-08	0E+00	5E-08	7E-04	8E-08
Manganese	Acplause Kill River	3E-08	0E+00	5E-08	7E-04	8E-08
Manganese	Stony Creek Reservoir	3E-08	0E+00	5E-08	7E-04	8E-08
Manganese	Watervliet Reservoir	3E-08	0E+00	5E-08	7E-04	8E-08
Mercury (elemental)	Mohawk River				2E-06	
Mercury (elemental)	Acplause Kill River				2E-06	
Mercury (elemental)	Stony Creek Reservoir				2E-06	
Mercury (elemental)	Watervliet Reservoir				2E-06	
Mercury (divalent)	Mohawk River	2E-08		2E-10		2E-08
Mercury (divalent)	Acplause Kill River	2E-08		2E-10		2E-08
Mercury (divalent)	Stony Creek Reservoir	2E-08		2E-10		2E-08
Mercury (divalent)	Watervliet Reservoir	2E-08		2E-10		2E-08
Nickel	Mohawk River	5E-08	1E-09	3E-07		3E-07
Nickel	Acplause Kill River	5E-08	7E-09	3E-07		3E-07
Nickel	Stony Creek Reservoir	5E-08	6E-09	3E-07		3E-07
Nickel	Watervliet Reservoir	5E-08	1E-08	3E-07		3E-07
Silver	Mohawk River	1E-10	0E+00	3E-08		3E-08
Silver	Acplause Kill River	1E-10	0E+00	3E-08		3E-08
Silver	Stony Creek Reservoir	1E-10	0E+00	3E-08		3E-08
Silver	Watervliet Reservoir	1E-10	0E+00	3E-08		3E-08
Thallium	Mohawk River	3E-07	2E-07	5E-07		1E-06
Thallium	Acplause Kill River	3E-07	1E-06	5E-07		2E-06
Thallium	Stony Creek Reservoir	3E-07	9E-07	5E-07		2E-06
Thallium	Watervliet Reservoir	3E-07	2E-06	5E-07		3E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mohawk River	2E-07	0E+00	9E-06		9E-06
Antimony	Acplause Kill River	2E-07	0E+00	9E-06		9E-06
Antimony	Stony Creek Reservoir	2E-07	0E+00	9E-06		9E-06
Antimony	Watervliet Reservoir	2E-07	0E+00	9E-06		9E-06
Arsenic	Mohawk River	3E-08	2E-09	1E-07		2E-07
Arsenic	Acplause Kill River	3E-08	1E-08	1E-07		2E-07
Arsenic	Stony Creek Reservoir	3E-08	1E-08	1E-07		2E-07
Arsenic	Watervliet Reservoir	3E-08	2E-08	1E-07		2E-07
Barium	Mohawk River	4E-08	0E+00	1E-09	6E-06	4E-08
Barium	Acplause Kill River	4E-08	0E+00	1E-09	6E-06	4E-08
Barium	Stony Creek Reservoir	4E-08	0E+00	1E-09	6E-06	4E-08
Barium	Watervliet Reservoir	4E-08	0E+00	1E-09	6E-06	4E-08
Beryllium	Mohawk River	4E-07	2E-09	2E-08		4E-07
Beryllium	Acplause Kill River	4E-07	2E-08	2E-08		4E-07
Beryllium	Stony Creek Reservoir	4E-07	1E-08	2E-08		4E-07
Beryllium	Watervliet Reservoir	4E-07	2E-08	2E-08		4E-07
Cadmium	Mohawk River	3E-07	3E-07	6E-07		1E-06
Cadmium	Acplause Kill River	3E-07	2E-06	6E-07		3E-06
Cadmium	Stony Creek Reservoir	3E-07	2E-06	6E-07		3E-06
Cadmium	Watervliet Reservoir	3E-07	3E-06	6E-07		4E-06
Chromium VI	Mohawk River	4E-08	7E-10	2E-07		3E-07
Chromium VI	Acplause Kill River	4E-08	4E-09	2E-07		3E-07
Chromium VI	Stony Creek Reservoir	4E-08	3E-09	2E-07		3E-07
Chromium VI	Watervliet Reservoir	4E-08	7E-09	2E-07		3E-07
Chromium III	Mohawk River	3E-08	4E-12	4E-12		3E-08
Chromium III	Acplause Kill River	3E-08	2E-11	4E-12		3E-08
Chromium III	Stony Creek Reservoir	3E-08	1E-12	4E-12		3E-08
Chromium III	Watervliet Reservoir	3E-08	3E-12	4E-12		3E-08
Cobalt	Mohawk River	8E-09	0E+00	4E-12		8E-09
Cobalt	Acplause Kill River	8E-09	0E+00	4E-12		8E-09
Cobalt	Stony Creek Reservoir	8E-09	0E+00	4E-12		8E-09
Cobalt	Watervliet Reservoir	8E-09	0E+00	4E-12		8E-09
Hydrogen Chloride	Mohawk River				7E-04	
Hydrogen Chloride	Acplause Kill River				7E-04	
Hydrogen Chloride	Stony Creek Reservoir				7E-04	
Hydrogen Chloride	Watervliet Reservoir				7E-04	
Selenium	Mohawk River	3E-10	5E-08	7E-09		6E-08
Selenium	Acplause Kill River	3E-10	3E-07	7E-09		3E-07
Selenium	Stony Creek Reservoir	3E-10	2E-07	7E-09		2E-07
Selenium	Watervliet Reservoir	3E-10	5E-07	7E-09		5E-07
Chlorine	Mohawk River				6E-03	
Chlorine	Acplause Kill River				6E-03	
Chlorine	Stony Creek Reservoir				6E-03	
Chlorine	Watervliet Reservoir				6E-03	
Methylmercury - Developmental Effects	Mohawk River	1E-09	8E-07	2E-11		8E-07
Methylmercury - Developmental Effects	Acplause Kill River	1E-09	5E-06	2E-11		5E-06
Methylmercury - Developmental Effects	Stony Creek Reservoir	1E-09	2E-06	2E-11		2E-06
Methylmercury - Developmental Effects	Watervliet Reservoir	1E-09	4E-06	2E-11		4E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mohawk River	5E-10	3E-07	5E-12		3E-07
Methylmercury - Neurological Effects	Acplause Kill River	5E-10	2E-06	5E-12		2E-06
Methylmercury - Neurological Effects	Stony Creek Reservoir	5E-10	5E-07	5E-12		5E-07
Methylmercury - Neurological Effects	Watervliet Reservoir	5E-10	1E-06	5E-12		1E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mohawk River	7E-10	4E-09	5E-12	8E-10	4E-09
2,3,7,8-TCDD-TEQ	Acplause Kill River	7E-10	2E-08	5E-12	8E-10	2E-08
2,3,7,8-TCDD-TEQ	Stony Creek Reservoir	7E-10	9E-09	5E-12	8E-10	9E-09
2,3,7,8-TCDD-TEQ	Watervliet Reservoir	7E-10	2E-08	5E-12	8E-10	2E-08
Nickel	Mohawk River				6E-10	
Nickel	Acplause Kill River				6E-10	
Nickel	Stony Creek Reservoir				6E-10	
Nickel	Watervliet Reservoir				6E-10	
Arsenic	Mohawk River	9E-13	9E-14	4E-12	8E-11	5E-12
Arsenic	Acplause Kill River	9E-13	6E-13	4E-12	8E-11	6E-12
Arsenic	Stony Creek Reservoir	9E-13	4E-13	4E-12	8E-11	6E-12
Arsenic	Watervliet Reservoir	9E-13	9E-13	4E-12	8E-11	6E-12
Beryllium	Mohawk River				2E-10	
Beryllium	Acplause Kill River				2E-10	
Beryllium	Stony Creek Reservoir				2E-10	
Beryllium	Watervliet Reservoir				2E-10	
Cadmium	Mohawk River				3E-10	
Cadmium	Acplause Kill River				3E-10	
Cadmium	Stony Creek Reservoir				3E-10	
Cadmium	Watervliet Reservoir				3E-10	
Chromium VI	Mohawk River				6E-09	
Chromium VI	Acplause Kill River				6E-09	
Chromium VI	Stony Creek Reservoir				6E-09	
Chromium VI	Watervliet Reservoir				6E-09	
	Noncarcinogenic Chemicals					
Manganese	Mohawk River	2E-08	0E+00	3E-08	7E-04	5E-08
Manganese	Acplause Kill River	2E-08	0E+00	3E-08	7E-04	5E-08
Manganese	Stony Creek Reservoir	2E-08	0E+00	3E-08	7E-04	5E-08
Manganese	Watervliet Reservoir	2E-08	0E+00	3E-08	7E-04	5E-08
Mercury (elemental)	Mohawk River				2E-06	
Mercury (elemental)	Acplause Kill River				2E-06	
Mercury (elemental)	Stony Creek Reservoir				2E-06	
Mercury (elemental)	Watervliet Reservoir				2E-06	
Mercury (divalent)	Mohawk River	1E-08		2E-10		1E-08
Mercury (divalent)	Acplause Kill River	1E-08		2E-10		1E-08
Mercury (divalent)	Stony Creek Reservoir	1E-08		2E-10		1E-08
Mercury (divalent)	Watervliet Reservoir	1E-08		2E-10		1E-08
Nickel	Mohawk River	3E-08	8E-10	2E-07		2E-07
Nickel	Acplause Kill River	3E-08	5E-09	2E-07		2E-07
Nickel	Stony Creek Reservoir	3E-08	4E-09	2E-07		2E-07
Nickel	Watervliet Reservoir	3E-08	8E-09	2E-07		2E-07
Silver	Mohawk River	7E-11	0E+00	2E-08		2E-08
Silver	Acplause Kill River	7E-11	0E+00	2E-08		2E-08
Silver	Stony Creek Reservoir	7E-11	0E+00	2E-08		2E-08
Silver	Watervliet Reservoir	7E-11	0E+00	2E-08		2E-08
Thallium	Mohawk River	2E-07	1E-07	3E-07		6E-07
Thallium	Acplause Kill River	2E-07	8E-07	3E-07		1E-06
Thallium	Stony Creek Reservoir	2E-07	6E-07	3E-07		1E-06
Thallium	Watervliet Reservoir	2E-07	1E-06	3E-07		2E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mohawk River	9E-08	0E+00	6E-06		6E-06
Antimony	Acplause Kill River	9E-08	0E+00	6E-06		6E-06
Antimony	Stony Creek Reservoir	9E-08	0E+00	6E-06		6E-06
Antimony	Watervliet Reservoir	9E-08	0E+00	6E-06		6E-06
Arsenic	Mohawk River	2E-08	2E-09	8E-08		9E-08
Arsenic	Acplause Kill River	2E-08	1E-08	8E-08		1E-07
Arsenic	Stony Creek Reservoir	2E-08	8E-09	8E-08		1E-07
Arsenic	Watervliet Reservoir	2E-08	2E-08	8E-08		1E-07
Barium	Mohawk River	2E-08	0E+00	9E-10	6E-06	2E-08
Barium	Acplause Kill River	2E-08	0E+00	9E-10	6E-06	2E-08
Barium	Stony Creek Reservoir	2E-08	0E+00	9E-10	6E-06	2E-08
Barium	Watervliet Reservoir	2E-08	0E+00	9E-10	6E-06	2E-08
Beryllium	Mohawk River	2E-07	2E-09	1E-08		2E-07
Beryllium	Acplause Kill River	2E-07	1E-08	1E-08		2E-07
Beryllium	Stony Creek Reservoir	2E-07	8E-09	1E-08		2E-07
Beryllium	Watervliet Reservoir	2E-07	1E-08	1E-08		2E-07
Cadmium	Mohawk River	2E-07	2E-07	4E-07		8E-07
Cadmium	Acplause Kill River	2E-07	1E-06	4E-07		2E-06
Cadmium	Stony Creek Reservoir	2E-07	1E-06	4E-07		2E-06
Cadmium	Watervliet Reservoir	2E-07	2E-06	4E-07		3E-06
Chromium VI	Mohawk River	2E-08	5E-10	1E-07		2E-07
Chromium VI	Acplause Kill River	2E-08	3E-09	1E-07		2E-07
Chromium VI	Stony Creek Reservoir	2E-08	2E-09	1E-07		2E-07
Chromium VI	Watervliet Reservoir	2E-08	5E-09	1E-07		2E-07
Chromium III	Mohawk River	2E-08	3E-12	3E-12		2E-08
Chromium III	Acplause Kill River	2E-08	1E-11	3E-12		2E-08
Chromium III	Stony Creek Reservoir	2E-08	1E-12	3E-12		2E-08
Chromium III	Watervliet Reservoir	2E-08	2E-12	3E-12		2E-08
Cobalt	Mohawk River	4E-09	0E+00	1E-08		2E-08
Cobalt	Acplause Kill River	4E-09	0E+00	1E-08		2E-08
Cobalt	Stony Creek Reservoir	4E-09	0E+00	1E-08		2E-08
Cobalt	Watervliet Reservoir	4E-09	0E+00	1E-08		2E-08
Hydrogen Chloride	Mohawk River				7E-04	
Hydrogen Chloride	Acplause Kill River				7E-04	
Hydrogen Chloride	Stony Creek Reservoir				7E-04	
Hydrogen Chloride	Watervliet Reservoir				7E-04	
Selenium	Mohawk River	2E-10	4E-08	5E-09		4E-08
Selenium	Acplause Kill River	2E-10	2E-07	5E-09		2E-07
Selenium	Stony Creek Reservoir	2E-10	2E-07	5E-09		2E-07
Selenium	Watervliet Reservoir	2E-10	3E-07	5E-09		3E-07
Chlorine	Mohawk River				6E-03	
Chlorine	Acplause Kill River				6E-03	
Chlorine	Stony Creek Reservoir				6E-03	
Chlorine	Watervliet Reservoir				6E-03	
Methylmercury - Developmental Effects	Mohawk River	7E-10	6E-07	1E-11		6E-07
Methylmercury - Developmental Effects	Acplause Kill River	7E-10	3E-06	1E-11		3E-06
Methylmercury - Developmental Effects	Stony Creek Reservoir	7E-10	1E-06	1E-11		1E-06
Methylmercury - Developmental Effects	Watervliet Reservoir	7E-10	3E-06	1E-11		3E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mohawk River	2E-10	2E-07	3E-12		2E-07
Methylmercury - Neurological Effects	Acplause Kill River	2E-10	1E-06	3E-12		1E-06
Methylmercury - Neurological Effects	Stony Creek Reservoir	2E-10	4E-07	3E-12		4E-07
Methylmercury - Neurological Effects	Watervliet Reservoir	2E-10	9E-07	3E-12		9E-07

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mohawk River	5E-10	6E-09	1E-11	1E-09	7E-09
2,3,7,8-TCDD-TEQ	Acplause Kill River	5E-10	4E-08	1E-11	1E-09	4E-08
2,3,7,8-TCDD-TEQ	Stony Creek Reservoir	5E-10	2E-08	1E-11	1E-09	2E-08
2,3,7,8-TCDD-TEQ	Watervliet Reservoir	5E-10	4E-08	1E-11	1E-09	4E-08
Nickel	Mohawk River				9E-10	
Nickel	Acplause Kill River				9E-10	
Nickel	Stony Creek Reservoir				9E-10	
Nickel	Watervliet Reservoir				9E-10	
Arsenic	Mohawk River	7E-13	2E-13	9E-12	1E-10	1E-11
Arsenic	Acplause Kill River	7E-13	1E-12	9E-12	1E-10	1E-11
Arsenic	Stony Creek Reservoir	7E-13	8E-13	9E-12	1E-10	1E-11
Arsenic	Watervliet Reservoir	7E-13	2E-12	9E-12	1E-10	1E-11
Beryllium	Mohawk River				3E-10	
Beryllium	Acplause Kill River				3E-10	
Beryllium	Stony Creek Reservoir				3E-10	
Beryllium	Watervliet Reservoir				3E-10	
Cadmium	Mohawk River				4E-10	
Cadmium	Acplause Kill River				4E-10	
Cadmium	Stony Creek Reservoir				4E-10	
Cadmium	Watervliet Reservoir				4E-10	
Chromium VI	Mohawk River				9E-09	
Chromium VI	Acplause Kill River				9E-09	
Chromium VI	Stony Creek Reservoir				9E-09	
Chromium VI	Watervliet Reservoir				9E-09	
	Noncarcinogenic Chemicals					
Manganese	Mohawk River	6E-09	0E+00	4E-08	7E-04	4E-08
Manganese	Acplause Kill River	6E-09	0E+00	4E-08	7E-04	4E-08
Manganese	Stony Creek Reservoir	6E-09	0E+00	4E-08	7E-04	4E-08
Manganese	Watervliet Reservoir	6E-09	0E+00	4E-08	7E-04	4E-08
Mercury (elemental)	Mohawk River				2E-06	
Mercury (elemental)	Acplause Kill River				2E-06	
Mercury (elemental)	Stony Creek Reservoir				2E-06	
Mercury (elemental)	Watervliet Reservoir				2E-06	
Mercury (divalent)	Mohawk River	5E-09		2E-10		5E-09
Mercury (divalent)	Acplause Kill River	5E-09		2E-10		5E-09
Mercury (divalent)	Stony Creek Reservoir	5E-09		2E-10		5E-09
Mercury (divalent)	Watervliet Reservoir	5E-09		2E-10		5E-09
Nickel	Mohawk River	1E-08	8E-10	2E-07		2E-07
Nickel	Acplause Kill River	1E-08	5E-09	2E-07		2E-07
Nickel	Stony Creek Reservoir	1E-08	4E-09	2E-07		2E-07
Nickel	Watervliet Reservoir	1E-08	8E-09	2E-07		2E-07
Silver	Mohawk River	3E-11	0E+00	2E-08		2E-08
Silver	Acplause Kill River	3E-11	0E+00	2E-08		2E-08
Silver	Stony Creek Reservoir	3E-11	0E+00	2E-08		2E-08
Silver	Watervliet Reservoir	3E-11	0E+00	2E-08		2E-08
Thallium	Mohawk River	7E-08	1E-07	4E-07		6E-07
Thallium	Acplause Kill River	7E-08	8E-07	4E-07		1E-06
Thallium	Stony Creek Reservoir	7E-08	6E-07	4E-07		1E-06
Thallium	Watervliet Reservoir	7E-08	1E-06	4E-07		2E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mohawk River	4E-08	0E+00	7E-06		7E-06
Antimony	Acplause Kill River	4E-08	0E+00	7E-06		7E-06
Antimony	Stony Creek Reservoir	4E-08	0E+00	7E-06		7E-06
Antimony	Watervliet Reservoir	4E-08	0E+00	7E-06		7E-06
Arsenic	Mohawk River	7E-09	2E-09	9E-08		1E-07
Arsenic	Acplause Kill River	7E-09	1E-08	9E-08		1E-07
Arsenic	Stony Creek Reservoir	7E-09	8E-09	9E-08		1E-07
Arsenic	Watervliet Reservoir	7E-09	2E-08	9E-08		1E-07
Barium	Mohawk River	9E-09	0E+00	1E-09	6E-06	1E-08
Barium	Acplause Kill River	9E-09	0E+00	1E-09	6E-06	1E-08
Barium	Stony Creek Reservoir	9E-09	0E+00	1E-09	6E-06	1E-08
Barium	Watervliet Reservoir	9E-09	0E+00	1E-09	6E-06	1E-08
Beryllium	Mohawk River	8E-08	2E-09	1E-08		1E-07
Beryllium	Acplause Kill River	8E-08	1E-08	1E-08		1E-07
Beryllium	Stony Creek Reservoir	8E-08	8E-09	1E-08		1E-07
Beryllium	Watervliet Reservoir	8E-08	1E-08	1E-08		1E-07
Cadmium	Mohawk River	7E-08	2E-07	5E-07		8E-07
Cadmium	Acplause Kill River	7E-08	1E-06	5E-07		2E-06
Cadmium	Stony Creek Reservoir	7E-08	1E-06	5E-07		2E-06
Cadmium	Watervliet Reservoir	7E-08	2E-06	5E-07		3E-06
Chromium VI	Mohawk River	8E-09	5E-10	2E-07		2E-07
Chromium VI	Acplause Kill River	8E-09	3E-09	2E-07		2E-07
Chromium VI	Stony Creek Reservoir	8E-09	2E-09	2E-07		2E-07
Chromium VI	Watervliet Reservoir	8E-09	5E-09	2E-07		2E-07
Chromium III	Mohawk River	6E-09	3E-12	3E-12		6E-09
Chromium III	Acplause Kill River	6E-09	1E-11	3E-12		6E-09
Chromium III	Stony Creek Reservoir	6E-09	1E-12	3E-12		6E-09
Chromium III	Watervliet Reservoir	6E-09	2E-12	3E-12		6E-09
Cobalt	Mohawk River	2E-09	0E+00	1E-08		2E-08
Cobalt	Acplause Kill River	2E-09	0E+00	1E-08		2E-08
Cobalt	Stony Creek Reservoir	2E-09	0E+00	1E-08		2E-08
Cobalt	Watervliet Reservoir	2E-09	0E+00	1E-08		2E-08
Hydrogen Chloride	Mohawk River				7E-04	
Hydrogen Chloride	Acplause Kill River				7E-04	
Hydrogen Chloride	Stony Creek Reservoir				7E-04	
Hydrogen Chloride	Watervliet Reservoir				7E-04	
Selenium	Mohawk River	7E-11	4E-08	5E-09		4E-08
Selenium	Acplause Kill River	7E-11	2E-07	5E-09		2E-07
Selenium	Stony Creek Reservoir	7E-11	2E-07	5E-09		2E-07
Selenium	Watervliet Reservoir	7E-11	3E-07	5E-09		3E-07
Chlorine	Mohawk River				6E-03	
Chlorine	Acplause Kill River				6E-03	
Chlorine	Stony Creek Reservoir				6E-03	
Chlorine	Watervliet Reservoir				6E-03	
Methylmercury - Developmental Effects	Mohawk River	3E-10	6E-07	1E-11		6E-07
Methylmercury - Developmental Effects	Acplause Kill River	3E-10	3E-06	1E-11		3E-06
Methylmercury - Developmental Effects	Stony Creek Reservoir	3E-10	1E-06	1E-11		1E-06
Methylmercury - Developmental Effects	Watervliet Reservoir	3E-10	3E-06	1E-11		3E-06

Table IX-E36. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number A55) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mohawk River	1E-10	2E-07	4E-12		2E-07
Methylmercury - Neurological Effects	Acplause Kill River	1E-10	1E-06	4E-12		1E-06
Methylmercury - Neurological Effects	Stony Creek Reservoir	1E-10	4E-07	4E-12		4E-07
Methylmercury - Neurological Effects	Watervliet Reservoir	1E-10	9E-07	4E-12		9E-07

Table IX-E37. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-09	6E-10	2E-10	1E-09	3E-07	4E-06	3E-08	1E-07	7E-08	4E-08	8E-15	2E-09	4E-06
Nickel												1E-09	
Arsenic	3E-12	1E-12	5E-13	3E-12	7E-12	1E-11	5E-13			2E-11	2E-15	2E-10	4E-11
Beryllium												9E-11	
Cadmium												2E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	7E-08	1E-07	6E-08	2E-07	3E-08	2E-06	3E-09			0E+00	3E-11	1E-03	2E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	7E-06	4E-08	1E-05	6E-06	9E-05	3E-09				3E-13		1E-04
Nickel	1E-07	7E-08	3E-08	2E-07	2E-06	2E-05	1E-07			3E-07	2E-10		2E-05
Silver	8E-09	1E-07	2E-08	3E-07	2E-06	8E-04	7E-08			0E+00	3E-10		8E-04
Thallium	8E-07	8E-08	5E-09	2E-07	2E-05	7E-05	2E-06			3E-05	3E-10		1E-04
Antimony	4E-07	2E-06	4E-07	4E-06	7E-06	4E-05	3E-07			0E+00	5E-09		5E-05
Arsenic	7E-08	3E-08	1E-08	7E-08	2E-07	3E-07	1E-08			4E-07	6E-11		1E-06
Barium	2E-07	2E-08	4E-09	3E-08	8E-09	1E-06	1E-09			0E+00	2E-12	1E-05	1E-06
Beryllium	3E-07	4E-09	8E-10	1E-08	4E-08	2E-09	1E-08			1E-08	5E-12		4E-07
Cadmium	3E-07	4E-07	2E-07	8E-07	3E-08	1E-07	6E-09			2E-05	1E-10		2E-05
Chromium VI	1E-07	3E-08	1E-08	1E-07	1E-06	2E-05	7E-08			2E-07	1E-10		2E-05
Chromium III	1E-07	1E-09	9E-10	3E-09	9E-08	1E-06	3E-08			6E-12	5E-15		1E-06
Cobalt	2E-08	5E-09	3E-11	1E-08	4E-07	3E-06	3E-08			0E+00	1E-11		3E-06
Hydrogen Chloride												3E-03	
Selenium	5E-08	5E-08	4E-08	1E-07	1E-06	9E-05	3E-06			8E-04	2E-10		8E-04
Chlorine												3E-02	
Methylmercury - Developmental Effects	2E-08	3E-06	5E-09	2E-06	5E-06	8E-05	9E-10			5E-06	6E-15		9E-05
Methylmercury - Neurological Effects	7E-09	8E-07	2E-09	8E-07	2E-06	3E-05	3E-10			2E-06	2E-15		3E-05

Table IX-E37. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-09	5E-10	2E-10	2E-09	6E-07	3E-06	2E-08	1E-07	8E-08	4E-08	6E-15	2E-09	3E-06
Nickel												2E-09	
Arsenic	1E-12	9E-13	5E-13	4E-12	1E-11	8E-12	4E-13			2E-11	2E-15	2E-10	4E-11
Beryllium												1E-10	
Cadmium												3E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	6E-08	4E-08	2E-07	4E-08	9E-07	2E-09			0E+00	2E-11	1E-03	1E-06
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	4E-06	3E-08	1E-05	8E-06	5E-05	2E-09				2E-13		7E-05
Nickel	3E-08	4E-08	2E-08	2E-07	2E-06	9E-06	6E-08			2E-07	8E-11		1E-05
Silver	2E-09	6E-08	2E-08	3E-07	2E-06	4E-04	4E-08			0E+00	2E-10		4E-04
Thallium	2E-07	4E-08	3E-09	2E-07	3E-05	3E-05	1E-06			2E-05	2E-10		9E-05
Antimony	1E-07	1E-06	3E-07	4E-06	8E-06	2E-05	2E-07			0E+00	3E-09		3E-05
Arsenic	2E-08	2E-08	1E-08	7E-08	2E-07	2E-07	7E-09			3E-07	3E-11		8E-07
Barium	5E-08	1E-08	3E-09	3E-08	1E-08	5E-07	7E-10			0E+00	1E-12	1E-05	6E-07
Beryllium	8E-08	2E-09	6E-10	9E-09	5E-08	9E-10	8E-09			8E-09	3E-12		2E-07
Cadmium	8E-08	2E-07	1E-07	8E-07	4E-08	6E-08	3E-09			1E-05	7E-11		1E-05
Chromium VI	3E-08	2E-08	9E-09	9E-08	2E-06	1E-05	4E-08			1E-07	7E-11		1E-05
Chromium III	3E-08	7E-10	6E-10	3E-09	1E-07	5E-07	2E-08			4E-12	3E-15		7E-07
Cobalt	5E-09	3E-09	2E-11	1E-08	5E-07	1E-06	2E-08			0E+00	6E-12		2E-06
Hydrogen Chloride												3E-03	
Selenium	1E-08	3E-08	2E-08	1E-07	1E-06	4E-05	2E-06			6E-04	1E-10		6E-04
Chlorine												3E-02	
Methylmercury - Developmental Effects	5E-09	1E-06	3E-09	2E-06	6E-06	4E-05	6E-10			4E-06	3E-15		5E-05
Methylmercury - Neurological Effects	2E-09	5E-07	1E-09	8E-07	2E-06	1E-05	2E-10			1E-06	1E-15		2E-05

Table IX-E37. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-09	4E-10	1E-10	9E-10	3E-07	1E-06	2E-08	8E-08	4E-08	2E-08	4E-15	2E-09	2E-06
Nickel												1E-09	
Arsenic	5E-13	7E-13	4E-13	2E-12	5E-12	4E-12	3E-13			1E-11	1E-15	1E-10	2E-11
Beryllium												7E-11	
Cadmium												2E-10	
Chromium VI												1E-08	
	Noncarcinogenic Chemicals												
Manganese	1E-08	5E-08	3E-08	1E-07	2E-08	4E-07	1E-09			0E+00	1E-11	1E-03	6E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	5E-08	3E-06	2E-08	8E-06	3E-06	2E-05	1E-09			0E+00	1E-13		4E-05
Nickel	2E-08	3E-08	1E-08	9E-08	1E-06	4E-06	4E-08			1E-07	5E-11		5E-06
Silver	1E-09	5E-08	1E-08	2E-07	1E-06	2E-04	3E-08			0E+00	1E-10		2E-04
Thallium	1E-07	3E-08	2E-09	1E-07	1E-05	2E-05	9E-07			1E-05	1E-10		4E-05
Antimony	6E-08	8E-07	2E-07	2E-06	4E-06	9E-06	1E-07			0E+00	2E-09		2E-05
Arsenic	9E-09	1E-08	7E-09	4E-08	9E-08	7E-08	5E-09			2E-07	2E-11		4E-07
Barium	2E-08	7E-09	2E-09	2E-08	4E-09	2E-07	5E-10			0E+00	7E-13	1E-05	3E-07
Beryllium	4E-08	2E-09	4E-10	5E-09	2E-08	4E-10	5E-09			4E-09	2E-12		8E-08
Cadmium	4E-08	2E-07	1E-07	4E-07	2E-08	3E-08	2E-09			6E-06	5E-11		7E-06
Chromium VI	1E-08	1E-08	6E-09	5E-08	7E-07	5E-06	3E-08			7E-08	5E-11		6E-06
Chromium III	2E-08	5E-10	4E-10	2E-09	5E-08	2E-07	1E-08			2E-12	2E-15		3E-07
Cobalt	3E-09	2E-09	1E-11	7E-09	2E-07	6E-07	1E-08			0E+00	4E-12		9E-07
Hydrogen Chloride												3E-03	
Selenium	7E-09	2E-08	2E-08	7E-08	5E-07	2E-05	1E-06			3E-04	9E-11		3E-04
Chlorine												3E-02	
Methylmercury - Developmental Effects	3E-09	1E-06	2E-09	1E-06	3E-06	2E-05	4E-10			2E-06	2E-15		3E-05
Methylmercury - Neurological Effects	9E-10	4E-07	8E-10	4E-07	9E-07	6E-06	1E-10			7E-07	7E-16		8E-06

Table IX-E37. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	1E-09	3E-10	2E-09	6E-07	1E-06	2E-08	1E-07	7E-08	5E-08	9E-15	2E-09	2E-06
Nickel												2E-09	
Arsenic	4E-13	2E-12	7E-13	3E-12	1E-11	3E-12	4E-13			2E-11	3E-15	2E-10	4E-11
Beryllium												1E-10	
Cadmium												3E-10	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	4E-09	7E-08	3E-08	1E-07	2E-08	2E-07	9E-10			0E+00	1E-11	1E-03	4E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	2E-08	4E-06	2E-08	7E-06	4E-06	1E-05	1E-09			0E+00	1E-13		2E-05
Nickel	7E-09	4E-08	2E-08	8E-08	1E-06	2E-06	3E-08			1E-07	6E-11		3E-06
Silver	4E-10	6E-08	1E-08	1E-07	1E-06	8E-05	2E-08			0E+00	1E-10		8E-05
Thallium	5E-08	5E-08	3E-09	1E-07	1E-05	7E-06	8E-07			1E-05	1E-10		4E-05
Antimony	2E-08	1E-06	2E-07	2E-06	4E-06	4E-06	9E-08			0E+00	2E-09		1E-05
Arsenic	4E-09	2E-08	8E-09	3E-08	1E-07	3E-08	4E-09			2E-07	2E-11		4E-07
Barium	1E-08	1E-08	3E-09	2E-08	5E-09	1E-07	4E-10			0E+00	8E-13	1E-05	1E-07
Beryllium	2E-08	2E-09	5E-10	5E-09	3E-08	2E-10	5E-09			5E-09	2E-12		6E-08
Cadmium	2E-08	2E-07	1E-07	4E-07	2E-08	1E-08	2E-09			7E-06	5E-11		7E-06
Chromium VI	5E-09	2E-08	7E-09	5E-08	8E-07	2E-06	2E-08			8E-08	5E-11		3E-06
Chromium III	7E-09	7E-10	5E-10	2E-09	5E-08	1E-07	1E-08			3E-12	2E-15		2E-07
Cobalt	1E-09	3E-09	2E-11	6E-09	3E-07	3E-07	1E-08			0E+00	5E-12		5E-07
Hydrogen Chloride												3E-03	
Selenium	3E-09	3E-08	2E-08	6E-08	6E-07	9E-06	1E-06			3E-04	1E-10		3E-04
Chlorine												3E-02	
Methylmercury - Developmental Effects	1E-09	1E-06	3E-09	1E-06	3E-06	8E-06	3E-10			2E-06	3E-15		2E-05
Methylmercury - Neurological Effects	4E-10	5E-07	9E-10	4E-07	1E-06	3E-06	1E-10			7E-07	9E-16		5E-06

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	5E-09	2E-11	8E-15	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Gulf Intercoastal Waterway	5E-09	2E-09	8E-15	2E-09	8E-09
2,3,7,8-TCDD-TEQ	Bayou La Butte	5E-09	7E-08	8E-15	2E-09	8E-08
2,3,7,8-TCDD-TEQ	Bayou Manchac	5E-09	4E-08	8E-15	2E-09	5E-08
Nickel	Mississippi River				1E-09	
Nickel	Gulf Intercoastal Waterway				1E-09	
Nickel	Bayou La Butte				1E-09	
Nickel	Bayou Manchac				1E-09	
Arsenic	Mississippi River	3E-12	2E-16	2E-15	2E-10	3E-12
Arsenic	Gulf Intercoastal Waterway	3E-12	1E-13	2E-15	2E-10	3E-12
Arsenic	Bayou La Butte	3E-12	2E-12	2E-15	2E-10	5E-12
Arsenic	Bayou Manchac	3E-12	2E-12	2E-15	2E-10	5E-12
Beryllium	Mississippi River				9E-11	
Beryllium	Gulf Intercoastal Waterway				9E-11	
Beryllium	Bayou La Butte				9E-11	
Beryllium	Bayou Manchac				9E-11	
Cadmium	Mississippi River				2E-10	
Cadmium	Gulf Intercoastal Waterway				2E-10	
Cadmium	Bayou La Butte				2E-10	
Cadmium	Bayou Manchac				2E-10	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Gulf Intercoastal Waterway				2E-08	
Chromium VI	Bayou La Butte				2E-08	
Chromium VI	Bayou Manchac				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	7E-08	0E+00	3E-11	1E-03	7E-08
Manganese	Gulf Intercoastal Waterway	7E-08	0E+00	3E-11	1E-03	7E-08
Manganese	Bayou La Butte	7E-08	0E+00	3E-11	1E-03	7E-08
Manganese	Bayou Manchac	7E-08	0E+00	3E-11	1E-03	7E-08
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Gulf Intercoastal Waterway				3E-06	
Mercury (elemental)	Bayou La Butte				3E-06	
Mercury (elemental)	Bayou Manchac				3E-06	
Mercury (divalent)	Mississippi River	3E-07		3E-13		3E-07
Mercury (divalent)	Gulf Intercoastal Waterway	3E-07		3E-13		3E-07
Mercury (divalent)	Bayou La Butte	3E-07		3E-13		3E-07
Mercury (divalent)	Bayou Manchac	3E-07		3E-13		3E-07
Nickel	Mississippi River	1E-07	4E-12	2E-10		1E-07
Nickel	Gulf Intercoastal Waterway	1E-07	2E-09	2E-10		1E-07
Nickel	Bayou La Butte	1E-07	4E-08	2E-10		2E-07
Nickel	Bayou Manchac	1E-07	3E-08	2E-10		2E-07
Silver	Mississippi River	8E-09	0E+00	3E-10		8E-09
Silver	Gulf Intercoastal Waterway	8E-09	0E+00	3E-10		8E-09
Silver	Bayou La Butte	8E-09	0E+00	3E-10		8E-09
Silver	Bayou Manchac	8E-09	0E+00	3E-10		8E-09
Thallium	Mississippi River	8E-07	6E-10	3E-10		8E-07
Thallium	Gulf Intercoastal Waterway	8E-07	3E-07	3E-10		1E-06
Thallium	Bayou La Butte	8E-07	6E-06	3E-10		6E-06
Thallium	Bayou Manchac	8E-07	4E-06	3E-10		5E-06

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	4E-07	0E+00	5E-09		4E-07
Antimony	Gulf Intercoastal Waterway	4E-07	0E+00	5E-09		4E-07
Antimony	Bayou La Butte	4E-07	0E+00	5E-09		4E-07
Antimony	Bayou Manchac	4E-07	0E+00	5E-09		4E-07
Arsenic	Mississippi River	7E-08	6E-12	6E-11		7E-08
Arsenic	Gulf Intercoastal Waterway	7E-08	3E-09	6E-11		7E-08
Arsenic	Bayou La Butte	7E-08	6E-08	6E-11		1E-07
Arsenic	Bayou Manchac	7E-08	4E-08	6E-11		1E-07
Barium	Mississippi River	2E-07	0E+00	2E-12	1E-05	2E-07
Barium	Gulf Intercoastal Waterway	2E-07	0E+00	2E-12	1E-05	2E-07
Barium	Bayou La Butte	2E-07	0E+00	2E-12	1E-05	2E-07
Barium	Bayou Manchac	2E-07	0E+00	2E-12	1E-05	2E-07
Beryllium	Mississippi River	3E-07	5E-12	5E-12		3E-07
Beryllium	Gulf Intercoastal Waterway	3E-07	1E-09	5E-12		3E-07
Beryllium	Bayou La Butte	3E-07	3E-08	5E-12		3E-07
Beryllium	Bayou Manchac	3E-07	2E-08	5E-12		3E-07
Cadmium	Mississippi River	3E-07	4E-10	1E-10		3E-07
Cadmium	Gulf Intercoastal Waterway	3E-07	2E-07	1E-10		5E-07
Cadmium	Bayou La Butte	3E-07	3E-06	1E-10		4E-06
Cadmium	Bayou Manchac	3E-07	3E-06	1E-10		3E-06
Chromium VI	Mississippi River	1E-07	2E-12	1E-10		1E-07
Chromium VI	Gulf Intercoastal Waterway	1E-07	1E-09	1E-10		1E-07
Chromium VI	Bayou La Butte	1E-07	2E-08	1E-10		1E-07
Chromium VI	Bayou Manchac	1E-07	2E-08	1E-10		1E-07
Chromium III	Mississippi River	1E-07	5E-14	5E-15		1E-07
Chromium III	Gulf Intercoastal Waterway	1E-07	8E-12	5E-15		1E-07
Chromium III	Bayou La Butte	1E-07	3E-10	5E-15		1E-07
Chromium III	Bayou Manchac	1E-07	2E-10	5E-15		1E-07
Cobalt	Mississippi River	2E-08	0E+00	5E-15		2E-08
Cobalt	Gulf Intercoastal Waterway	2E-08	0E+00	5E-15		2E-08
Cobalt	Bayou La Butte	2E-08	0E+00	5E-15		2E-08
Cobalt	Bayou Manchac	2E-08	0E+00	5E-15		2E-08
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Gulf Intercoastal Waterway				3E-03	
Hydrogen Chloride	Bayou La Butte				3E-03	
Hydrogen Chloride	Bayou Manchac				3E-03	
Selenium	Mississippi River	5E-08	9E-09	2E-10		6E-08
Selenium	Gulf Intercoastal Waterway	5E-08	4E-06	2E-10		4E-06
Selenium	Bayou La Butte	5E-08	9E-05	2E-10		9E-05
Selenium	Bayou Manchac	5E-08	7E-05	2E-10		7E-05
Chlorine	Mississippi River				3E-02	
Chlorine	Gulf Intercoastal Waterway				3E-02	
Chlorine	Bayou La Butte				3E-02	
Chlorine	Bayou Manchac				3E-02	
Methylmercury - Developmental Effects	Mississippi River	2E-08	9E-10	6E-15		2E-08
Methylmercury - Developmental Effects	Gulf Intercoastal Waterway	2E-08	6E-08	6E-15		8E-08
Methylmercury - Developmental Effects	Bayou La Butte	2E-08	2E-06	6E-15		2E-06
Methylmercury - Developmental Effects	Bayou Manchac	2E-08	9E-07	6E-15		9E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	7E-09	3E-10	2E-15		7E-09
Methylmercury - Neurological Effects	Gulf Intercoastal Waterway	7E-09	2E-08	2E-15		3E-08
Methylmercury - Neurological Effects	Bayou La Butte	7E-09	7E-07	2E-15		7E-07
Methylmercury - Neurological Effects	Bayou Manchac	7E-09	3E-07	2E-15		3E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	2E-09	2E-11	6E-15	2E-09	2E-09
2,3,7,8-TCDD-TEQ	Gulf Intercoastal Waterway	2E-09	3E-09	6E-15	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Bayou La Butte	2E-09	1E-07	6E-15	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Bayou Manchac	2E-09	6E-08	6E-15	2E-09	6E-08
Nickel	Mississippi River				2E-09	
Nickel	Gulf Intercoastal Waterway				2E-09	
Nickel	Bayou La Butte				2E-09	
Nickel	Bayou Manchac				2E-09	
Arsenic	Mississippi River	1E-12	3E-16	2E-15	2E-10	1E-12
Arsenic	Gulf Intercoastal Waterway	1E-12	1E-13	2E-15	2E-10	1E-12
Arsenic	Bayou La Butte	1E-12	3E-12	2E-15	2E-10	4E-12
Arsenic	Bayou Manchac	1E-12	2E-12	2E-15	2E-10	3E-12
Beryllium	Mississippi River				1E-10	
Beryllium	Gulf Intercoastal Waterway				1E-10	
Beryllium	Bayou La Butte				1E-10	
Beryllium	Bayou Manchac				1E-10	
Cadmium	Mississippi River				3E-10	
Cadmium	Gulf Intercoastal Waterway				3E-10	
Cadmium	Bayou La Butte				3E-10	
Cadmium	Bayou Manchac				3E-10	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Gulf Intercoastal Waterway				2E-08	
Chromium VI	Bayou La Butte				2E-08	
Chromium VI	Bayou Manchac				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	2E-08	0E+00	2E-11	1E-03	2E-08
Manganese	Gulf Intercoastal Waterway	2E-08	0E+00	2E-11	1E-03	2E-08
Manganese	Bayou La Butte	2E-08	0E+00	2E-11	1E-03	2E-08
Manganese	Bayou Manchac	2E-08	0E+00	2E-11	1E-03	2E-08
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Gulf Intercoastal Waterway				3E-06	
Mercury (elemental)	Bayou La Butte				3E-06	
Mercury (elemental)	Bayou Manchac				3E-06	
Mercury (divalent)	Mississippi River	9E-08		2E-13		9E-08
Mercury (divalent)	Gulf Intercoastal Waterway	9E-08		2E-13		9E-08
Mercury (divalent)	Bayou La Butte	9E-08		2E-13		9E-08
Mercury (divalent)	Bayou Manchac	9E-08		2E-13		9E-08
Nickel	Mississippi River	3E-08	4E-12	8E-11		3E-08
Nickel	Gulf Intercoastal Waterway	3E-08	2E-09	8E-11		3E-08
Nickel	Bayou La Butte	3E-08	4E-08	8E-11		7E-08
Nickel	Bayou Manchac	3E-08	3E-08	8E-11		6E-08
Silver	Mississippi River	2E-09	0E+00	2E-10		2E-09
Silver	Gulf Intercoastal Waterway	2E-09	0E+00	2E-10		2E-09
Silver	Bayou La Butte	2E-09	0E+00	2E-10		2E-09
Silver	Bayou Manchac	2E-09	0E+00	2E-10		2E-09
Thallium	Mississippi River	2E-07	6E-10	2E-10		2E-07
Thallium	Gulf Intercoastal Waterway	2E-07	3E-07	2E-10		5E-07
Thallium	Bayou La Butte	2E-07	6E-06	2E-10		6E-06
Thallium	Bayou Manchac	2E-07	4E-06	2E-10		4E-06

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	1E-07	0E+00	3E-09		1E-07
Antimony	Gulf Intercoastal Waterway	1E-07	0E+00	3E-09		1E-07
Antimony	Bayou La Butte	1E-07	0E+00	3E-09		1E-07
Antimony	Bayou Manchac	1E-07	0E+00	3E-09		1E-07
Arsenic	Mississippi River	2E-08	6E-12	3E-11		2E-08
Arsenic	Gulf Intercoastal Waterway	2E-08	3E-09	3E-11		2E-08
Arsenic	Bayou La Butte	2E-08	6E-08	3E-11		8E-08
Arsenic	Bayou Manchac	2E-08	4E-08	3E-11		6E-08
Barium	Mississippi River	5E-08	0E+00	1E-12	1E-05	5E-08
Barium	Gulf Intercoastal Waterway	5E-08	0E+00	1E-12	1E-05	5E-08
Barium	Bayou La Butte	5E-08	0E+00	1E-12	1E-05	5E-08
Barium	Bayou Manchac	5E-08	0E+00	1E-12	1E-05	5E-08
Beryllium	Mississippi River	8E-08	5E-12	3E-12		8E-08
Beryllium	Gulf Intercoastal Waterway	8E-08	1E-09	3E-12		8E-08
Beryllium	Bayou La Butte	8E-08	3E-08	3E-12		1E-07
Beryllium	Bayou Manchac	8E-08	2E-08	3E-12		1E-07
Cadmium	Mississippi River	8E-08	4E-10	7E-11		8E-08
Cadmium	Gulf Intercoastal Waterway	8E-08	2E-07	7E-11		2E-07
Cadmium	Bayou La Butte	8E-08	3E-06	7E-11		4E-06
Cadmium	Bayou Manchac	8E-08	3E-06	7E-11		3E-06
Chromium VI	Mississippi River	3E-08	2E-12	7E-11		3E-08
Chromium VI	Gulf Intercoastal Waterway	3E-08	1E-09	7E-11		3E-08
Chromium VI	Bayou La Butte	3E-08	2E-08	7E-11		5E-08
Chromium VI	Bayou Manchac	3E-08	2E-08	7E-11		4E-08
Chromium III	Mississippi River	3E-08	5E-14	3E-15		3E-08
Chromium III	Gulf Intercoastal Waterway	3E-08	8E-12	3E-15		3E-08
Chromium III	Bayou La Butte	3E-08	3E-10	3E-15		3E-08
Chromium III	Bayou Manchac	3E-08	2E-10	3E-15		3E-08
Cobalt	Mississippi River	5E-09	0E+00	3E-15		5E-09
Cobalt	Gulf Intercoastal Waterway	5E-09	0E+00	3E-15		5E-09
Cobalt	Bayou La Butte	5E-09	0E+00	3E-15		5E-09
Cobalt	Bayou Manchac	5E-09	0E+00	3E-15		5E-09
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Gulf Intercoastal Waterway				3E-03	
Hydrogen Chloride	Bayou La Butte				3E-03	
Hydrogen Chloride	Bayou Manchac				3E-03	
Selenium	Mississippi River	1E-08	9E-09	1E-10		2E-08
Selenium	Gulf Intercoastal Waterway	1E-08	4E-06	1E-10		4E-06
Selenium	Bayou La Butte	1E-08	9E-05	1E-10		9E-05
Selenium	Bayou Manchac	1E-08	7E-05	1E-10		7E-05
Chlorine	Mississippi River				3E-02	
Chlorine	Gulf Intercoastal Waterway				3E-02	
Chlorine	Bayou La Butte				3E-02	
Chlorine	Bayou Manchac				3E-02	
Methylmercury - Developmental Effects	Mississippi River	5E-09	9E-10	3E-15		6E-09
Methylmercury - Developmental Effects	Gulf Intercoastal Waterway	5E-09	6E-08	3E-15		7E-08
Methylmercury - Developmental Effects	Bayou La Butte	5E-09	2E-06	3E-15		2E-06
Methylmercury - Developmental Effects	Bayou Manchac	5E-09	9E-07	3E-15		9E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	2E-09	3E-10	1E-15		2E-09
Methylmercury - Neurological Effects	Gulf Intercoastal Waterway	2E-09	2E-08	1E-15		2E-08
Methylmercury - Neurological Effects	Bayou La Butte	2E-09	7E-07	1E-15		7E-07
Methylmercury - Neurological Effects	Bayou Manchac	2E-09	3E-07	1E-15		3E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	1E-09	2E-11	4E-15	2E-09	1E-09
2,3,7,8-TCDD-TEQ	Gulf Intercoastal Waterway	1E-09	2E-09	4E-15	2E-09	3E-09
2,3,7,8-TCDD-TEQ	Bayou La Butte	1E-09	7E-08	4E-15	2E-09	7E-08
2,3,7,8-TCDD-TEQ	Bayou Manchac	1E-09	4E-08	4E-15	2E-09	4E-08
Nickel	Mississippi River				1E-09	
Nickel	Gulf Intercoastal Waterway				1E-09	
Nickel	Bayou La Butte				1E-09	
Nickel	Bayou Manchac				1E-09	
Arsenic	Mississippi River	5E-13	2E-16	1E-15	1E-10	5E-13
Arsenic	Gulf Intercoastal Waterway	5E-13	1E-13	1E-15	1E-10	6E-13
Arsenic	Bayou La Butte	5E-13	2E-12	1E-15	1E-10	3E-12
Arsenic	Bayou Manchac	5E-13	2E-12	1E-15	1E-10	2E-12
Beryllium	Mississippi River				7E-11	
Beryllium	Gulf Intercoastal Waterway				7E-11	
Beryllium	Bayou La Butte				7E-11	
Beryllium	Bayou Manchac				7E-11	
Cadmium	Mississippi River				2E-10	
Cadmium	Gulf Intercoastal Waterway				2E-10	
Cadmium	Bayou La Butte				2E-10	
Cadmium	Bayou Manchac				2E-10	
Chromium VI	Mississippi River				1E-08	
Chromium VI	Gulf Intercoastal Waterway				1E-08	
Chromium VI	Bayou La Butte				1E-08	
Chromium VI	Bayou Manchac				1E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	1E-08	0E+00	1E-11	1E-03	1E-08
Manganese	Gulf Intercoastal Waterway	1E-08	0E+00	1E-11	1E-03	1E-08
Manganese	Bayou La Butte	1E-08	0E+00	1E-11	1E-03	1E-08
Manganese	Bayou Manchac	1E-08	0E+00	1E-11	1E-03	1E-08
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Gulf Intercoastal Waterway				3E-06	
Mercury (elemental)	Bayou La Butte				3E-06	
Mercury (elemental)	Bayou Manchac				3E-06	
Mercury (divalent)	Mississippi River	5E-08		1E-13		5E-08
Mercury (divalent)	Gulf Intercoastal Waterway	5E-08		1E-13		5E-08
Mercury (divalent)	Bayou La Butte	5E-08		1E-13		5E-08
Mercury (divalent)	Bayou Manchac	5E-08		1E-13		5E-08
Nickel	Mississippi River	2E-08	3E-12	5E-11		2E-08
Nickel	Gulf Intercoastal Waterway	2E-08	1E-09	5E-11		2E-08
Nickel	Bayou La Butte	2E-08	3E-08	5E-11		4E-08
Nickel	Bayou Manchac	2E-08	2E-08	5E-11		4E-08
Silver	Mississippi River	1E-09	0E+00	1E-10		1E-09
Silver	Gulf Intercoastal Waterway	1E-09	0E+00	1E-10		1E-09
Silver	Bayou La Butte	1E-09	0E+00	1E-10		1E-09
Silver	Bayou Manchac	1E-09	0E+00	1E-10		1E-09
Thallium	Mississippi River	1E-07	4E-10	1E-10		1E-07
Thallium	Gulf Intercoastal Waterway	1E-07	2E-07	1E-10		3E-07
Thallium	Bayou La Butte	1E-07	4E-06	1E-10		4E-06
Thallium	Bayou Manchac	1E-07	3E-06	1E-10		3E-06

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	6E-08	0E+00	2E-09		6E-08
Antimony	Gulf Intercoastal Waterway	6E-08	0E+00	2E-09		6E-08
Antimony	Bayou La Butte	6E-08	0E+00	2E-09		6E-08
Antimony	Bayou Manchac	6E-08	0E+00	2E-09		6E-08
Arsenic	Mississippi River	9E-09	4E-12	2E-11		9E-09
Arsenic	Gulf Intercoastal Waterway	9E-09	2E-09	2E-11		1E-08
Arsenic	Bayou La Butte	9E-09	4E-08	2E-11		5E-08
Arsenic	Bayou Manchac	9E-09	3E-08	2E-11		4E-08
Barium	Mississippi River	2E-08	0E+00	7E-13	1E-05	2E-08
Barium	Gulf Intercoastal Waterway	2E-08	0E+00	7E-13	1E-05	2E-08
Barium	Bayou La Butte	2E-08	0E+00	7E-13	1E-05	2E-08
Barium	Bayou Manchac	2E-08	0E+00	7E-13	1E-05	2E-08
Beryllium	Mississippi River	4E-08	3E-12	2E-12		4E-08
Beryllium	Gulf Intercoastal Waterway	4E-08	7E-10	2E-12		4E-08
Beryllium	Bayou La Butte	4E-08	2E-08	2E-12		6E-08
Beryllium	Bayou Manchac	4E-08	1E-08	2E-12		5E-08
Cadmium	Mississippi River	4E-08	3E-10	5E-11		4E-08
Cadmium	Gulf Intercoastal Waterway	4E-08	1E-07	5E-11		2E-07
Cadmium	Bayou La Butte	4E-08	2E-06	5E-11		3E-06
Cadmium	Bayou Manchac	4E-08	2E-06	5E-11		2E-06
Chromium VI	Mississippi River	1E-08	2E-12	5E-11		1E-08
Chromium VI	Gulf Intercoastal Waterway	1E-08	7E-10	5E-11		1E-08
Chromium VI	Bayou La Butte	1E-08	2E-08	5E-11		3E-08
Chromium VI	Bayou Manchac	1E-08	1E-08	5E-11		3E-08
Chromium III	Mississippi River	2E-08	4E-14	2E-15		2E-08
Chromium III	Gulf Intercoastal Waterway	2E-08	6E-12	2E-15		2E-08
Chromium III	Bayou La Butte	2E-08	2E-10	2E-15		2E-08
Chromium III	Bayou Manchac	2E-08	1E-10	2E-15		2E-08
Cobalt	Mississippi River	3E-09	0E+00	4E-12		3E-09
Cobalt	Gulf Intercoastal Waterway	3E-09	0E+00	4E-12		3E-09
Cobalt	Bayou La Butte	3E-09	0E+00	4E-12		3E-09
Cobalt	Bayou Manchac	3E-09	0E+00	4E-12		3E-09
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Gulf Intercoastal Waterway				3E-03	
Hydrogen Chloride	Bayou La Butte				3E-03	
Hydrogen Chloride	Bayou Manchac				3E-03	
Selenium	Mississippi River	7E-09	6E-09	9E-11		1E-08
Selenium	Gulf Intercoastal Waterway	7E-09	3E-06	9E-11		3E-06
Selenium	Bayou La Butte	7E-09	6E-05	9E-11		6E-05
Selenium	Bayou Manchac	7E-09	5E-05	9E-11		5E-05
Chlorine	Mississippi River				3E-02	
Chlorine	Gulf Intercoastal Waterway				3E-02	
Chlorine	Bayou La Butte				3E-02	
Chlorine	Bayou Manchac				3E-02	
Methylmercury - Developmental Effects	Mississippi River	3E-09	6E-10	2E-15		3E-09
Methylmercury - Developmental Effects	Gulf Intercoastal Waterway	3E-09	4E-08	2E-15		5E-08
Methylmercury - Developmental Effects	Bayou La Butte	3E-09	1E-06	2E-15		1E-06
Methylmercury - Developmental Effects	Bayou Manchac	3E-09	6E-07	2E-15		6E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	9E-10	2E-10	7E-16		1E-09
Methylmercury - Neurological Effects	Gulf Intercoastal Waterway	9E-10	1E-08	7E-16		2E-08
Methylmercury - Neurological Effects	Bayou La Butte	9E-10	5E-07	7E-16		5E-07
Methylmercury - Neurological Effects	Bayou Manchac	9E-10	2E-07	7E-16		2E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Mississippi River	7E-10	3E-11	9E-15	2E-09	7E-10
2,3,7,8-TCDD-TEQ	Gulf Intercoastal Waterway	7E-10	4E-09	9E-15	2E-09	5E-09
2,3,7,8-TCDD-TEQ	Bayou La Butte	7E-10	1E-07	9E-15	2E-09	1E-07
2,3,7,8-TCDD-TEQ	Bayou Manchac	7E-10	8E-08	9E-15	2E-09	8E-08
Nickel	Mississippi River				2E-09	
Nickel	Gulf Intercoastal Waterway				2E-09	
Nickel	Bayou La Butte				2E-09	
Nickel	Bayou Manchac				2E-09	
Arsenic	Mississippi River	4E-13	5E-16	3E-15	2E-10	4E-13
Arsenic	Gulf Intercoastal Waterway	4E-13	2E-13	3E-15	2E-10	6E-13
Arsenic	Bayou La Butte	4E-13	5E-12	3E-15	2E-10	5E-12
Arsenic	Bayou Manchac	4E-13	3E-12	3E-15	2E-10	4E-12
Beryllium	Mississippi River				1E-10	
Beryllium	Gulf Intercoastal Waterway				1E-10	
Beryllium	Bayou La Butte				1E-10	
Beryllium	Bayou Manchac				1E-10	
Cadmium	Mississippi River				3E-10	
Cadmium	Gulf Intercoastal Waterway				3E-10	
Cadmium	Bayou La Butte				3E-10	
Cadmium	Bayou Manchac				3E-10	
Chromium VI	Mississippi River				2E-08	
Chromium VI	Gulf Intercoastal Waterway				2E-08	
Chromium VI	Bayou La Butte				2E-08	
Chromium VI	Bayou Manchac				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Mississippi River	4E-09	0E+00	1E-11	1E-03	4E-09
Manganese	Gulf Intercoastal Waterway	4E-09	0E+00	1E-11	1E-03	4E-09
Manganese	Bayou La Butte	4E-09	0E+00	1E-11	1E-03	4E-09
Manganese	Bayou Manchac	4E-09	0E+00	1E-11	1E-03	4E-09
Mercury (elemental)	Mississippi River				3E-06	
Mercury (elemental)	Gulf Intercoastal Waterway				3E-06	
Mercury (elemental)	Bayou La Butte				3E-06	
Mercury (elemental)	Bayou Manchac				3E-06	
Mercury (divalent)	Mississippi River	2E-08		1E-13		2E-08
Mercury (divalent)	Gulf Intercoastal Waterway	2E-08		1E-13		2E-08
Mercury (divalent)	Bayou La Butte	2E-08		1E-13		2E-08
Mercury (divalent)	Bayou Manchac	2E-08		1E-13		2E-08
Nickel	Mississippi River	7E-09	3E-12	6E-11		7E-09
Nickel	Gulf Intercoastal Waterway	7E-09	1E-09	6E-11		8E-09
Nickel	Bayou La Butte	7E-09	3E-08	6E-11		3E-08
Nickel	Bayou Manchac	7E-09	2E-08	6E-11		3E-08
Silver	Mississippi River	4E-10	0E+00	1E-10		6E-10
Silver	Gulf Intercoastal Waterway	4E-10	0E+00	1E-10		6E-10
Silver	Bayou La Butte	4E-10	0E+00	1E-10		6E-10
Silver	Bayou Manchac	4E-10	0E+00	1E-10		6E-10
Thallium	Mississippi River	5E-08	4E-10	1E-10		5E-08
Thallium	Gulf Intercoastal Waterway	5E-08	2E-07	1E-10		2E-07
Thallium	Bayou La Butte	5E-08	4E-06	1E-10		4E-06
Thallium	Bayou Manchac	5E-08	3E-06	1E-10		3E-06

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Mississippi River	2E-08	0E+00	2E-09		3E-08
Antimony	Gulf Intercoastal Waterway	2E-08	0E+00	2E-09		3E-08
Antimony	Bayou La Butte	2E-08	0E+00	2E-09		3E-08
Antimony	Bayou Manchac	2E-08	0E+00	2E-09		3E-08
Arsenic	Mississippi River	4E-09	4E-12	2E-11		4E-09
Arsenic	Gulf Intercoastal Waterway	4E-09	2E-09	2E-11		6E-09
Arsenic	Bayou La Butte	4E-09	4E-08	2E-11		5E-08
Arsenic	Bayou Manchac	4E-09	3E-08	2E-11		4E-08
Barium	Mississippi River	1E-08	0E+00	8E-13	1E-05	1E-08
Barium	Gulf Intercoastal Waterway	1E-08	0E+00	8E-13	1E-05	1E-08
Barium	Bayou La Butte	1E-08	0E+00	8E-13	1E-05	1E-08
Barium	Bayou Manchac	1E-08	0E+00	8E-13	1E-05	1E-08
Beryllium	Mississippi River	2E-08	3E-12	2E-12		2E-08
Beryllium	Gulf Intercoastal Waterway	2E-08	7E-10	2E-12		2E-08
Beryllium	Bayou La Butte	2E-08	2E-08	2E-12		4E-08
Beryllium	Bayou Manchac	2E-08	1E-08	2E-12		3E-08
Cadmium	Mississippi River	2E-08	3E-10	5E-11		2E-08
Cadmium	Gulf Intercoastal Waterway	2E-08	1E-07	5E-11		1E-07
Cadmium	Bayou La Butte	2E-08	2E-06	5E-11		3E-06
Cadmium	Bayou Manchac	2E-08	2E-06	5E-11		2E-06
Chromium VI	Mississippi River	5E-09	2E-12	5E-11		5E-09
Chromium VI	Gulf Intercoastal Waterway	5E-09	7E-10	5E-11		6E-09
Chromium VI	Bayou La Butte	5E-09	2E-08	5E-11		2E-08
Chromium VI	Bayou Manchac	5E-09	1E-08	5E-11		2E-08
Chromium III	Mississippi River	7E-09	4E-14	2E-15		7E-09
Chromium III	Gulf Intercoastal Waterway	7E-09	6E-12	2E-15		7E-09
Chromium III	Bayou La Butte	7E-09	2E-10	2E-15		7E-09
Chromium III	Bayou Manchac	7E-09	1E-10	2E-15		7E-09
Cobalt	Mississippi River	1E-09	0E+00	5E-12		1E-09
Cobalt	Gulf Intercoastal Waterway	1E-09	0E+00	5E-12		1E-09
Cobalt	Bayou La Butte	1E-09	0E+00	5E-12		1E-09
Cobalt	Bayou Manchac	1E-09	0E+00	5E-12		1E-09
Hydrogen Chloride	Mississippi River				3E-03	
Hydrogen Chloride	Gulf Intercoastal Waterway				3E-03	
Hydrogen Chloride	Bayou La Butte				3E-03	
Hydrogen Chloride	Bayou Manchac				3E-03	
Selenium	Mississippi River	3E-09	6E-09	1E-10		9E-09
Selenium	Gulf Intercoastal Waterway	3E-09	3E-06	1E-10		3E-06
Selenium	Bayou La Butte	3E-09	6E-05	1E-10		6E-05
Selenium	Bayou Manchac	3E-09	5E-05	1E-10		5E-05
Chlorine	Mississippi River				3E-02	
Chlorine	Gulf Intercoastal Waterway				3E-02	
Chlorine	Bayou La Butte				3E-02	
Chlorine	Bayou Manchac				3E-02	
Methylmercury - Developmental Effects	Mississippi River	1E-09	6E-10	3E-15		2E-09
Methylmercury - Developmental Effects	Gulf Intercoastal Waterway	1E-09	4E-08	3E-15		5E-08
Methylmercury - Developmental Effects	Bayou La Butte	1E-09	1E-06	3E-15		1E-06
Methylmercury - Developmental Effects	Bayou Manchac	1E-09	6E-07	3E-15		6E-07

Table IX-E38. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B18) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Mississippi River	4E-10	2E-10	9E-16		6E-10
Methylmercury - Neurological Effects	Gulf Intercoastal Waterway	4E-10	1E-08	9E-16		2E-08
Methylmercury - Neurological Effects	Bayou La Butte	4E-10	5E-07	9E-16		5E-07
Methylmercury - Neurological Effects	Bayou Manchac	4E-10	2E-07	9E-16		2E-07

Table IX-E39. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	1E-11	5E-12	2E-11	5E-09	6E-08	5E-10	2E-09	1E-09	1E-09	3E-15	6E-11	7E-08
Nickel												1E-11	
Arsenic	4E-13	2E-13	8E-14	5E-13	1E-12	2E-12	9E-14			3E-12	3E-15	3E-11	8E-12
Beryllium												5E-11	
Cadmium												2E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	7E-10	1E-09	6E-10	2E-09	3E-10	2E-08	3E-11			0E+00	2E-12	1E-05	2E-08
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	5E-06	6E-07	1E-05	9E-06	1E-04	1E-08				5E-10		1E-04
Nickel	8E-10	5E-10	2E-10	1E-09	1E-08	1E-07	6E-10			2E-09	7E-12		1E-07
Silver	5E-11	8E-10	2E-10	2E-09	1E-08	6E-06	6E-10			0E+00	2E-11		6E-06
Thallium	1E-08	1E-09	6E-11	3E-09	3E-07	9E-07	3E-08			5E-07	3E-11		2E-06
Antimony	8E-11	4E-10	8E-11	9E-10	2E-09	1E-08	6E-11			0E+00	7E-12		1E-08
Arsenic	1E-08	5E-09	2E-09	1E-08	3E-08	6E-08	2E-09			9E-08	7E-11		2E-07
Barium	1E-07	1E-08	3E-09	3E-08	7E-09	8E-07	1E-09			0E+00	1E-11	9E-06	1E-06
Beryllium	2E-07	2E-09	4E-10	5E-09	2E-08	9E-10	7E-09			7E-09	2E-11		2E-07
Cadmium	2E-08	3E-08	2E-08	6E-08	3E-09	1E-08	5E-10			2E-06	8E-11		2E-06
Chromium VI	1E-09	5E-10	2E-10	1E-09	2E-08	3E-07	1E-09			3E-09	1E-11		3E-07
Chromium III	2E-09	2E-11	2E-11	6E-11	2E-09	2E-08	6E-10			1E-13	1E-15		3E-08
Cobalt	2E-10	5E-11	3E-13	1E-10	5E-09	3E-08	3E-10			0E+00	8E-13		3E-08
Hydrogen Chloride												2E-04	
Selenium	5E-10	5E-10	3E-10	2E-09	1E-08	1E-06	4E-08			1E-05	2E-11		1E-05
Chlorine												4E-03	
Methylmercury - Developmental Effects	3E-07	2E-06	7E-08	2E-06	4E-06	5E-05	1E-09			2E-05	4E-12		8E-05
Methylmercury - Neurological Effects	1E-07	6E-07	2E-08	5E-07	1E-06	2E-05	4E-10			8E-06	1E-12		3E-05

Table IX-E39. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-11	9E-12	5E-12	3E-11	9E-09	4E-08	4E-10	2E-09	1E-09	1E-09	2E-15	7E-11	5E-08
Nickel												1E-11	
Arsenic	1E-13	2E-13	7E-14	6E-13	2E-12	2E-12	7E-14			4E-12	2E-15	3E-11	8E-12
Beryllium												6E-11	
Cadmium												2E-11	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-10	6E-10	4E-10	2E-09	4E-10	9E-09	2E-11			0E+00	1E-12	1E-05	1E-08
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	3E-06	4E-07	1E-05	1E-05	6E-05	8E-09				3E-10		8E-05
Nickel	2E-10	3E-10	1E-10	1E-09	1E-08	6E-08	4E-10			2E-09	4E-12		8E-08
Silver	1E-11	5E-10	1E-10	2E-09	2E-08	3E-06	3E-10			0E+00	1E-11		3E-06
Thallium	3E-09	6E-10	4E-11	3E-09	4E-07	5E-07	2E-08			4E-07	2E-11		1E-06
Antimony	2E-11	2E-10	5E-11	9E-10	2E-09	5E-09	4E-11			0E+00	4E-12		8E-09
Arsenic	3E-09	3E-09	1E-09	1E-08	4E-08	3E-08	1E-09			7E-08	4E-11		2E-07
Barium	4E-08	8E-09	2E-09	3E-08	8E-09	4E-07	6E-10			0E+00	8E-12	9E-06	5E-07
Beryllium	4E-08	1E-09	3E-10	5E-09	3E-08	5E-10	4E-09			5E-09	1E-11		8E-08
Cadmium	6E-09	2E-08	1E-08	6E-08	3E-09	5E-09	3E-10			1E-06	4E-11		1E-06
Chromium VI	3E-10	3E-10	1E-10	1E-09	2E-08	1E-07	6E-10			2E-09	7E-12		2E-07
Chromium III	6E-10	1E-11	1E-11	6E-11	2E-09	1E-08	3E-10			9E-14	7E-16		1E-08
Cobalt	5E-11	3E-11	2E-13	1E-10	5E-09	1E-08	2E-10			0E+00	5E-13		2E-08
Hydrogen Chloride												2E-04	
Selenium	1E-10	3E-10	2E-10	1E-09	1E-08	5E-07	2E-08			7E-06	1E-11		8E-06
Chlorine												4E-03	
Methylmercury - Developmental Effects	8E-08	9E-07	5E-08	2E-06	4E-06	3E-05	8E-10			2E-05	2E-12		5E-05
Methylmercury - Neurological Effects	3E-08	3E-07	2E-08	5E-07	1E-06	9E-06	3E-10			6E-06	7E-13		2E-05

Table IX-E39. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	7E-12	3E-12	2E-11	4E-09	2E-08	3E-10	1E-09	7E-10	6E-10	1E-15	5E-11	3E-08
Nickel												7E-12	
Arsenic	8E-14	1E-13	5E-14	3E-13	1E-12	8E-13	5E-14			2E-12	1E-15	2E-11	4E-12
Beryllium												4E-11	
Cadmium												2E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-10	5E-10	3E-10	1E-09	2E-10	4E-09	1E-11			0E+00	8E-13	1E-05	6E-09
Mercury (elemental)												2E-06	
Mercury (divalent)	7E-07	2E-06	3E-07	5E-06	5E-06	3E-05	5E-09			0E+00	2E-10		4E-05
Nickel	1E-10	2E-10	9E-11	6E-10	6E-09	3E-08	2E-10			9E-10	3E-12		3E-08
Silver	7E-12	4E-10	9E-11	1E-09	8E-09	1E-06	2E-10			0E+00	7E-12		1E-06
Thallium	1E-09	5E-10	3E-11	2E-09	2E-07	2E-07	1E-08			2E-07	1E-11		6E-07
Antimony	1E-11	2E-10	4E-11	5E-10	9E-10	2E-09	2E-11			0E+00	3E-12		4E-09
Arsenic	1E-09	2E-09	1E-09	6E-09	2E-08	1E-08	8E-10			3E-08	3E-11		8E-08
Barium	2E-08	6E-09	2E-09	1E-08	3E-09	2E-07	4E-10			0E+00	5E-12	9E-06	2E-07
Beryllium	2E-08	9E-10	2E-10	3E-09	1E-08	2E-10	3E-09			3E-09	7E-12		4E-08
Cadmium	3E-09	1E-08	8E-09	3E-08	1E-09	2E-09	2E-10			6E-07	3E-11		7E-07
Chromium VI	2E-10	2E-10	8E-11	7E-10	1E-08	7E-08	4E-10			1E-09	5E-12		8E-08
Chromium III	3E-10	1E-11	8E-12	3E-11	9E-10	5E-09	2E-10			5E-14	5E-16		6E-09
Cobalt	3E-11	2E-11	1E-13	7E-11	2E-09	6E-09	1E-10			0E+00	3E-13		9E-09
Hydrogen Chloride												2E-04	
Selenium	6E-11	2E-10	2E-10	8E-10	6E-09	2E-07	2E-08			4E-06	6E-12		4E-06
Chlorine												4E-03	
Methylmercury - Developmental Effects	4E-08	7E-07	4E-08	8E-07	2E-06	1E-05	5E-10			9E-06	1E-12		2E-05
Methylmercury - Neurological Effects	1E-08	2E-07	1E-08	3E-07	6E-07	4E-06	2E-10			3E-06	4E-13		8E-06

Table IX-E39. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	2E-11	6E-12	3E-11	9E-09	2E-08	4E-10	2E-09	1E-09	1E-09	3E-15	7E-11	3E-08
Nickel												1E-11	
Arsenic	6E-14	3E-13	1E-13	5E-13	2E-12	6E-13	8E-14			4E-12	3E-15	3E-11	8E-12
Beryllium												6E-11	
Cadmium												2E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-11	6E-10	3E-10	1E-09	2E-10	2E-09	9E-12			0E+00	9E-13	1E-05	4E-09
Mercury (elemental)												2E-06	
Mercury (divalent)	3E-07	3E-06	3E-07	5E-06	5E-06	1E-05	5E-09			0E+00	2E-10		2E-05
Nickel	4E-11	3E-10	1E-10	5E-10	7E-09	1E-08	2E-10			1E-09	3E-12		2E-08
Silver	3E-12	5E-10	1E-10	1E-09	9E-09	6E-07	2E-10			0E+00	8E-12		6E-07
Thallium	6E-10	6E-10	4E-11	1E-09	2E-07	1E-07	1E-08			2E-07	1E-11		5E-07
Antimony	4E-12	2E-10	4E-11	4E-10	1E-09	1E-09	2E-11			0E+00	3E-12		3E-09
Arsenic	6E-10	3E-09	1E-09	6E-09	2E-08	6E-09	7E-10			4E-08	3E-11		8E-08
Barium	7E-09	8E-09	2E-09	1E-08	4E-09	8E-08	3E-10			0E+00	6E-12	9E-06	1E-07
Beryllium	9E-09	1E-09	2E-10	3E-09	1E-08	1E-10	2E-09			3E-09	9E-12		3E-08
Cadmium	1E-09	2E-08	9E-09	3E-08	2E-09	1E-09	2E-10			7E-07	3E-11		7E-07
Chromium VI	7E-11	3E-10	9E-11	6E-10	1E-08	3E-08	3E-10			1E-09	5E-12		4E-08
Chromium III	1E-10	1E-11	9E-12	3E-11	1E-09	2E-09	2E-10			5E-14	6E-16		3E-09
Cobalt	1E-11	3E-11	2E-13	6E-11	3E-09	3E-09	1E-10			0E+00	4E-13		6E-09
Hydrogen Chloride												2E-04	
Selenium	3E-11	3E-10	2E-10	7E-10	7E-09	1E-07	1E-08			4E-06	7E-12		4E-06
Chlorine												4E-03	
Methylmercury - Developmental Effects	2E-08	1E-06	4E-08	8E-07	2E-06	5E-06	4E-10			1E-05	2E-12		2E-05
Methylmercury - Neurological Effects	6E-09	3E-07	1E-08	3E-07	7E-07	2E-06	1E-10			3E-06	5E-13		6E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Neches River	1E-10	5E-12	1E-12	6E-11	1E-10
2,3,7,8-TCDD-TEQ	Port Arthur Reservoir	1E-10	2E-09	1E-12	6E-11	2E-09
2,3,7,8-TCDD-TEQ	Hillbrandt Bayou	1E-10	3E-10	1E-12	6E-11	4E-10
2,3,7,8-TCDD-TEQ	Cow Bayou	1E-10	1E-10	1E-12	6E-11	2E-10
Nickel	Neches River				1E-11	
Nickel	Port Arthur Reservoir				1E-11	
Nickel	Hillbrandt Bayou				1E-11	
Nickel	Cow Bayou				1E-11	
Arsenic	Neches River	4E-13	3E-16	1E-11	3E-11	1E-11
Arsenic	Port Arthur Reservoir	4E-13	1E-12	1E-11	3E-11	1E-11
Arsenic	Hillbrandt Bayou	4E-13	1E-14	1E-11	3E-11	1E-11
Arsenic	Cow Bayou	4E-13	8E-15	1E-11	3E-11	1E-11
Beryllium	Neches River				5E-11	
Beryllium	Port Arthur Reservoir				5E-11	
Beryllium	Hillbrandt Bayou				5E-11	
Beryllium	Cow Bayou				5E-11	
Cadmium	Neches River				2E-11	
Cadmium	Port Arthur Reservoir				2E-11	
Cadmium	Hillbrandt Bayou				2E-11	
Cadmium	Cow Bayou				2E-11	
Chromium VI	Neches River				2E-10	
Chromium VI	Port Arthur Reservoir				2E-10	
Chromium VI	Hillbrandt Bayou				2E-10	
Chromium VI	Cow Bayou				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Neches River	7E-10	0E+00	7E-09	1E-05	8E-09
Manganese	Port Arthur Reservoir	7E-10	0E+00	7E-09	1E-05	8E-09
Manganese	Hillbrandt Bayou	7E-10	0E+00	7E-09	1E-05	8E-09
Manganese	Cow Bayou	7E-10	0E+00	7E-09	1E-05	8E-09
Mercury (elemental)	Neches River				2E-06	
Mercury (elemental)	Port Arthur Reservoir				2E-06	
Mercury (elemental)	Hillbrandt Bayou				2E-06	
Mercury (elemental)	Cow Bayou				2E-06	
Mercury (divalent)	Neches River	5E-06		4E-09		5E-06
Mercury (divalent)	Port Arthur Reservoir	5E-06		4E-09		5E-06
Mercury (divalent)	Hillbrandt Bayou	5E-06		4E-09		5E-06
Mercury (divalent)	Cow Bayou	5E-06		4E-09		5E-06
Nickel	Neches River	8E-10	2E-13	2E-08		3E-08
Nickel	Port Arthur Reservoir	8E-10	6E-10	2E-08		3E-08
Nickel	Hillbrandt Bayou	8E-10	8E-12	2E-08		3E-08
Nickel	Cow Bayou	8E-10	4E-12	2E-08		3E-08
Silver	Neches River	5E-11	0E+00	7E-08		7E-08
Silver	Port Arthur Reservoir	5E-11	0E+00	7E-08		7E-08
Silver	Hillbrandt Bayou	5E-11	0E+00	7E-08		7E-08
Silver	Cow Bayou	5E-11	0E+00	7E-08		7E-08
Thallium	Neches River	1E-08	6E-11	1E-07		1E-07
Thallium	Port Arthur Reservoir	1E-08	2E-07	1E-07		3E-07
Thallium	Hillbrandt Bayou	1E-08	3E-09	1E-07		1E-07
Thallium	Cow Bayou	1E-08	2E-09	1E-07		1E-07

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Neches River	8E-11	0E+00	2E-08		2E-08
Antimony	Port Arthur Reservoir	8E-11	0E+00	2E-08		2E-08
Antimony	Hillbrandt Bayou	8E-11	0E+00	2E-08		2E-08
Antimony	Cow Bayou	8E-11	0E+00	2E-08		2E-08
Arsenic	Neches River	1E-08	7E-12	2E-07		3E-07
Arsenic	Port Arthur Reservoir	1E-08	3E-08	2E-07		3E-07
Arsenic	Hillbrandt Bayou	1E-08	4E-10	2E-07		3E-07
Arsenic	Cow Bayou	1E-08	2E-10	2E-07		3E-07
Barium	Neches River	1E-07	0E+00	6E-08	9E-06	2E-07
Barium	Port Arthur Reservoir	1E-07	0E+00	6E-08	9E-06	2E-07
Barium	Hillbrandt Bayou	1E-07	0E+00	6E-08	9E-06	2E-07
Barium	Cow Bayou	1E-07	0E+00	6E-08	9E-06	2E-07
Beryllium	Neches River	2E-07	2E-11	9E-08		2E-07
Beryllium	Port Arthur Reservoir	2E-07	7E-08	9E-08		3E-07
Beryllium	Hillbrandt Bayou	2E-07	8E-10	9E-08		2E-07
Beryllium	Cow Bayou	2E-07	4E-10	9E-08		2E-07
Cadmium	Neches River	2E-08	2E-10	3E-07		3E-07
Cadmium	Port Arthur Reservoir	2E-08	8E-07	3E-07		1E-06
Cadmium	Hillbrandt Bayou	2E-08	1E-08	3E-07		3E-07
Cadmium	Cow Bayou	2E-08	6E-09	3E-07		3E-07
Chromium VI	Neches River	1E-09	2E-13	4E-08		5E-08
Chromium VI	Port Arthur Reservoir	1E-09	8E-10	4E-08		5E-08
Chromium VI	Hillbrandt Bayou	1E-09	1E-11	4E-08		5E-08
Chromium VI	Cow Bayou	1E-09	6E-12	4E-08		5E-08
Chromium III	Neches River	2E-09	6E-15	6E-12		2E-09
Chromium III	Port Arthur Reservoir	2E-09	3E-11	6E-12		2E-09
Chromium III	Hillbrandt Bayou	2E-09	3E-13	6E-12		2E-09
Chromium III	Cow Bayou	2E-09	1E-13	6E-12		2E-09
Cobalt	Neches River	2E-10	0E+00	6E-12		2E-10
Cobalt	Port Arthur Reservoir	2E-10	0E+00	6E-12		2E-10
Cobalt	Hillbrandt Bayou	2E-10	0E+00	6E-12		2E-10
Cobalt	Cow Bayou	2E-10	0E+00	6E-12		2E-10
Hydrogen Chloride	Neches River				2E-04	
Hydrogen Chloride	Port Arthur Reservoir				2E-04	
Hydrogen Chloride	Hillbrandt Bayou				2E-04	
Hydrogen Chloride	Cow Bayou				2E-04	
Selenium	Neches River	5E-10	6E-10	6E-08		6E-08
Selenium	Port Arthur Reservoir	5E-10	2E-06	6E-08		2E-06
Selenium	Hillbrandt Bayou	5E-10	3E-08	6E-08		9E-08
Selenium	Cow Bayou	5E-10	2E-08	6E-08		8E-08
Chlorine	Neches River				4E-03	
Chlorine	Port Arthur Reservoir				4E-03	
Chlorine	Hillbrandt Bayou				4E-03	
Chlorine	Cow Bayou				4E-03	
Methylmercury - Developmental Effects	Neches River	3E-07	5E-07	6E-10		8E-07
Methylmercury - Developmental Effects	Port Arthur Reservoir	3E-07	8E-05	6E-10		9E-05
Methylmercury - Developmental Effects	Hillbrandt Bayou	3E-07	1E-05	6E-10		1E-05
Methylmercury - Developmental Effects	Cow Bayou	3E-07	1E-05	6E-10		1E-05

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Neches River	1E-07	2E-07	2E-10		3E-07
Methylmercury - Neurological Effects	Port Arthur Reservoir	1E-07	3E-05	2E-10		3E-05
Methylmercury - Neurological Effects	Hillbrandt Bayou	1E-07	4E-06	2E-10		4E-06
Methylmercury - Neurological Effects	Cow Bayou	1E-07	4E-06	2E-10		4E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Neches River	4E-11	7E-12	9E-13	7E-11	5E-11
2,3,7,8-TCDD-TEQ	Port Arthur Reservoir	4E-11	3E-09	9E-13	7E-11	3E-09
2,3,7,8-TCDD-TEQ	Hillbrandt Bayou	4E-11	3E-10	9E-13	7E-11	4E-10
2,3,7,8-TCDD-TEQ	Cow Bayou	4E-11	2E-10	9E-13	7E-11	2E-10
Nickel	Neches River				1E-11	
Nickel	Port Arthur Reservoir				1E-11	
Nickel	Hillbrandt Bayou				1E-11	
Nickel	Cow Bayou				1E-11	
Arsenic	Neches River	1E-13	4E-16	7E-12	3E-11	8E-12
Arsenic	Port Arthur Reservoir	1E-13	1E-12	7E-12	3E-11	9E-12
Arsenic	Hillbrandt Bayou	1E-13	2E-14	7E-12	3E-11	8E-12
Arsenic	Cow Bayou	1E-13	1E-14	7E-12	3E-11	8E-12
Beryllium	Neches River				6E-11	
Beryllium	Port Arthur Reservoir				6E-11	
Beryllium	Hillbrandt Bayou				6E-11	
Beryllium	Cow Bayou				6E-11	
Cadmium	Neches River				2E-11	
Cadmium	Port Arthur Reservoir				2E-11	
Cadmium	Hillbrandt Bayou				2E-11	
Cadmium	Cow Bayou				2E-11	
Chromium VI	Neches River				3E-10	
Chromium VI	Port Arthur Reservoir				3E-10	
Chromium VI	Hillbrandt Bayou				3E-10	
Chromium VI	Cow Bayou				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Neches River	2E-10	0E+00	4E-09	1E-05	4E-09
Manganese	Port Arthur Reservoir	2E-10	0E+00	4E-09	1E-05	4E-09
Manganese	Hillbrandt Bayou	2E-10	0E+00	4E-09	1E-05	4E-09
Manganese	Cow Bayou	2E-10	0E+00	4E-09	1E-05	4E-09
Mercury (elemental)	Neches River				2E-06	
Mercury (elemental)	Port Arthur Reservoir				2E-06	
Mercury (elemental)	Hillbrandt Bayou				2E-06	
Mercury (elemental)	Cow Bayou				2E-06	
Mercury (divalent)	Neches River	1E-06		2E-09		1E-06
Mercury (divalent)	Port Arthur Reservoir	1E-06		2E-09		1E-06
Mercury (divalent)	Hillbrandt Bayou	1E-06		2E-09		1E-06
Mercury (divalent)	Cow Bayou	1E-06		2E-09		1E-06
Nickel	Neches River	2E-10	2E-13	1E-08		1E-08
Nickel	Port Arthur Reservoir	2E-10	6E-10	1E-08		1E-08
Nickel	Hillbrandt Bayou	2E-10	8E-12	1E-08		1E-08
Nickel	Cow Bayou	2E-10	4E-12	1E-08		1E-08
Silver	Neches River	1E-11	0E+00	4E-08		4E-08
Silver	Port Arthur Reservoir	1E-11	0E+00	4E-08		4E-08
Silver	Hillbrandt Bayou	1E-11	0E+00	4E-08		4E-08
Silver	Cow Bayou	1E-11	0E+00	4E-08		4E-08
Thallium	Neches River	3E-09	6E-11	6E-08		6E-08
Thallium	Port Arthur Reservoir	3E-09	2E-07	6E-08		3E-07
Thallium	Hillbrandt Bayou	3E-09	3E-09	6E-08		6E-08
Thallium	Cow Bayou	3E-09	2E-09	6E-08		6E-08

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Neches River	2E-11	0E+00	1E-08		1E-08
Antimony	Port Arthur Reservoir	2E-11	0E+00	1E-08		1E-08
Antimony	Hillbrandt Bayou	2E-11	0E+00	1E-08		1E-08
Antimony	Cow Bayou	2E-11	0E+00	1E-08		1E-08
Arsenic	Neches River	3E-09	7E-12	1E-07		1E-07
Arsenic	Port Arthur Reservoir	3E-09	3E-08	1E-07		2E-07
Arsenic	Hillbrandt Bayou	3E-09	4E-10	1E-07		1E-07
Arsenic	Cow Bayou	3E-09	2E-10	1E-07		1E-07
Barium	Neches River	4E-08	0E+00	3E-08	9E-06	7E-08
Barium	Port Arthur Reservoir	4E-08	0E+00	3E-08	9E-06	7E-08
Barium	Hillbrandt Bayou	4E-08	0E+00	3E-08	9E-06	7E-08
Barium	Cow Bayou	4E-08	0E+00	3E-08	9E-06	7E-08
Beryllium	Neches River	4E-08	2E-11	5E-08		9E-08
Beryllium	Port Arthur Reservoir	4E-08	7E-08	5E-08		2E-07
Beryllium	Hillbrandt Bayou	4E-08	8E-10	5E-08		9E-08
Beryllium	Cow Bayou	4E-08	4E-10	5E-08		9E-08
Cadmium	Neches River	6E-09	2E-10	2E-07		2E-07
Cadmium	Port Arthur Reservoir	6E-09	8E-07	2E-07		9E-07
Cadmium	Hillbrandt Bayou	6E-09	1E-08	2E-07		2E-07
Cadmium	Cow Bayou	6E-09	6E-09	2E-07		2E-07
Chromium VI	Neches River	3E-10	2E-13	3E-08		3E-08
Chromium VI	Port Arthur Reservoir	3E-10	8E-10	3E-08		3E-08
Chromium VI	Hillbrandt Bayou	3E-10	1E-11	3E-08		3E-08
Chromium VI	Cow Bayou	3E-10	6E-12	3E-08		3E-08
Chromium III	Neches River	6E-10	6E-15	4E-12		6E-10
Chromium III	Port Arthur Reservoir	6E-10	3E-11	4E-12		6E-10
Chromium III	Hillbrandt Bayou	6E-10	3E-13	4E-12		6E-10
Chromium III	Cow Bayou	6E-10	1E-13	4E-12		6E-10
Cobalt	Neches River	5E-11	0E+00	4E-12		5E-11
Cobalt	Port Arthur Reservoir	5E-11	0E+00	4E-12		5E-11
Cobalt	Hillbrandt Bayou	5E-11	0E+00	4E-12		5E-11
Cobalt	Cow Bayou	5E-11	0E+00	4E-12		5E-11
Hydrogen Chloride	Neches River				2E-04	
Hydrogen Chloride	Port Arthur Reservoir				2E-04	
Hydrogen Chloride	Hillbrandt Bayou				2E-04	
Hydrogen Chloride	Cow Bayou				2E-04	
Selenium	Neches River	1E-10	6E-10	3E-08		3E-08
Selenium	Port Arthur Reservoir	1E-10	2E-06	3E-08		2E-06
Selenium	Hillbrandt Bayou	1E-10	3E-08	3E-08		7E-08
Selenium	Cow Bayou	1E-10	2E-08	3E-08		5E-08
Chlorine	Neches River				4E-03	
Chlorine	Port Arthur Reservoir				4E-03	
Chlorine	Hillbrandt Bayou				4E-03	
Chlorine	Cow Bayou				4E-03	
Methylmercury - Developmental Effects	Neches River	8E-08	5E-07	3E-10		6E-07
Methylmercury - Developmental Effects	Port Arthur Reservoir	8E-08	8E-05	3E-10		8E-05
Methylmercury - Developmental Effects	Hillbrandt Bayou	8E-08	1E-05	3E-10		1E-05
Methylmercury - Developmental Effects	Cow Bayou	8E-08	1E-05	3E-10		1E-05

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Neches River	3E-08	2E-07	1E-10		2E-07
Methylmercury - Neurological Effects	Port Arthur Reservoir	3E-08	3E-05	1E-10		3E-05
Methylmercury - Neurological Effects	Hillbrandt Bayou	3E-08	4E-06	1E-10		4E-06
Methylmercury - Neurological Effects	Cow Bayou	3E-08	4E-06	1E-10		4E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Neches River	2E-11	5E-12	6E-13	5E-11	3E-11
2,3,7,8-TCDD-TEQ	Port Arthur Reservoir	2E-11	2E-09	6E-13	5E-11	2E-09
2,3,7,8-TCDD-TEQ	Hillbrandt Bayou	2E-11	3E-10	6E-13	5E-11	3E-10
2,3,7,8-TCDD-TEQ	Cow Bayou	2E-11	1E-10	6E-13	5E-11	1E-10
Nickel	Neches River				7E-12	
Nickel	Port Arthur Reservoir				7E-12	
Nickel	Hillbrandt Bayou				7E-12	
Nickel	Cow Bayou				7E-12	
Arsenic	Neches River	8E-14	3E-16	5E-12	2E-11	5E-12
Arsenic	Port Arthur Reservoir	8E-14	1E-12	5E-12	2E-11	6E-12
Arsenic	Hillbrandt Bayou	8E-14	1E-14	5E-12	2E-11	5E-12
Arsenic	Cow Bayou	8E-14	8E-15	5E-12	2E-11	5E-12
Beryllium	Neches River				4E-11	
Beryllium	Port Arthur Reservoir				4E-11	
Beryllium	Hillbrandt Bayou				4E-11	
Beryllium	Cow Bayou				4E-11	
Cadmium	Neches River				2E-11	
Cadmium	Port Arthur Reservoir				2E-11	
Cadmium	Hillbrandt Bayou				2E-11	
Cadmium	Cow Bayou				2E-11	
Chromium VI	Neches River				2E-10	
Chromium VI	Port Arthur Reservoir				2E-10	
Chromium VI	Hillbrandt Bayou				2E-10	
Chromium VI	Cow Bayou				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Neches River	1E-10	0E+00	3E-09	1E-05	3E-09
Manganese	Port Arthur Reservoir	1E-10	0E+00	3E-09	1E-05	3E-09
Manganese	Hillbrandt Bayou	1E-10	0E+00	3E-09	1E-05	3E-09
Manganese	Cow Bayou	1E-10	0E+00	3E-09	1E-05	3E-09
Mercury (elemental)	Neches River				2E-06	
Mercury (elemental)	Port Arthur Reservoir				2E-06	
Mercury (elemental)	Hillbrandt Bayou				2E-06	
Mercury (elemental)	Cow Bayou				2E-06	
Mercury (divalent)	Neches River	7E-07		2E-09		7E-07
Mercury (divalent)	Port Arthur Reservoir	7E-07		2E-09		7E-07
Mercury (divalent)	Hillbrandt Bayou	7E-07		2E-09		7E-07
Mercury (divalent)	Cow Bayou	7E-07		2E-09		7E-07
Nickel	Neches River	1E-10	1E-13	9E-09		9E-09
Nickel	Port Arthur Reservoir	1E-10	4E-10	9E-09		9E-09
Nickel	Hillbrandt Bayou	1E-10	6E-12	9E-09		9E-09
Nickel	Cow Bayou	1E-10	3E-12	9E-09		9E-09
Silver	Neches River	7E-12	0E+00	2E-08		2E-08
Silver	Port Arthur Reservoir	7E-12	0E+00	2E-08		2E-08
Silver	Hillbrandt Bayou	7E-12	0E+00	2E-08		2E-08
Silver	Cow Bayou	7E-12	0E+00	2E-08		2E-08
Thallium	Neches River	1E-09	4E-11	4E-08		4E-08
Thallium	Port Arthur Reservoir	1E-09	1E-07	4E-08		2E-07
Thallium	Hillbrandt Bayou	1E-09	2E-09	4E-08		4E-08
Thallium	Cow Bayou	1E-09	1E-09	4E-08		4E-08

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Neches River	1E-11	0E+00	9E-09		9E-09
Antimony	Port Arthur Reservoir	1E-11	0E+00	9E-09		9E-09
Antimony	Hillbrandt Bayou	1E-11	0E+00	9E-09		9E-09
Antimony	Cow Bayou	1E-11	0E+00	9E-09		9E-09
Arsenic	Neches River	1E-09	5E-12	9E-08		9E-08
Arsenic	Port Arthur Reservoir	1E-09	2E-08	9E-08		1E-07
Arsenic	Hillbrandt Bayou	1E-09	3E-10	9E-08		9E-08
Arsenic	Cow Bayou	1E-09	1E-10	9E-08		9E-08
Barium	Neches River	2E-08	0E+00	2E-08	9E-06	4E-08
Barium	Port Arthur Reservoir	2E-08	0E+00	2E-08	9E-06	4E-08
Barium	Hillbrandt Bayou	2E-08	0E+00	2E-08	9E-06	4E-08
Barium	Cow Bayou	2E-08	0E+00	2E-08	9E-06	4E-08
Beryllium	Neches River	2E-08	1E-11	3E-08		5E-08
Beryllium	Port Arthur Reservoir	2E-08	5E-08	3E-08		1E-07
Beryllium	Hillbrandt Bayou	2E-08	6E-10	3E-08		5E-08
Beryllium	Cow Bayou	2E-08	3E-10	3E-08		5E-08
Cadmium	Neches River	3E-09	2E-10	1E-07		1E-07
Cadmium	Port Arthur Reservoir	3E-09	6E-07	1E-07		7E-07
Cadmium	Hillbrandt Bayou	3E-09	8E-09	1E-07		1E-07
Cadmium	Cow Bayou	3E-09	4E-09	1E-07		1E-07
Chromium VI	Neches River	2E-10	2E-13	2E-08		2E-08
Chromium VI	Port Arthur Reservoir	2E-10	6E-10	2E-08		2E-08
Chromium VI	Hillbrandt Bayou	2E-10	8E-12	2E-08		2E-08
Chromium VI	Cow Bayou	2E-10	4E-12	2E-08		2E-08
Chromium III	Neches River	3E-10	4E-15	2E-12		3E-10
Chromium III	Port Arthur Reservoir	3E-10	2E-11	2E-12		3E-10
Chromium III	Hillbrandt Bayou	3E-10	2E-13	2E-12		3E-10
Chromium III	Cow Bayou	3E-10	1E-13	2E-12		3E-10
Cobalt	Neches River	3E-11	0E+00	1E-09		1E-09
Cobalt	Port Arthur Reservoir	3E-11	0E+00	1E-09		1E-09
Cobalt	Hillbrandt Bayou	3E-11	0E+00	1E-09		1E-09
Cobalt	Cow Bayou	3E-11	0E+00	1E-09		1E-09
Hydrogen Chloride	Neches River				2E-04	
Hydrogen Chloride	Port Arthur Reservoir				2E-04	
Hydrogen Chloride	Hillbrandt Bayou				2E-04	
Hydrogen Chloride	Cow Bayou				2E-04	
Selenium	Neches River	6E-11	5E-10	2E-08		2E-08
Selenium	Port Arthur Reservoir	6E-11	2E-06	2E-08		2E-06
Selenium	Hillbrandt Bayou	6E-11	2E-08	2E-08		4E-08
Selenium	Cow Bayou	6E-11	1E-08	2E-08		3E-08
Chlorine	Neches River				4E-03	
Chlorine	Port Arthur Reservoir				4E-03	
Chlorine	Hillbrandt Bayou				4E-03	
Chlorine	Cow Bayou				4E-03	
Methylmercury - Developmental Effects	Neches River	4E-08	4E-07	2E-10		4E-07
Methylmercury - Developmental Effects	Port Arthur Reservoir	4E-08	6E-05	2E-10		6E-05
Methylmercury - Developmental Effects	Hillbrandt Bayou	4E-08	9E-06	2E-10		9E-06
Methylmercury - Developmental Effects	Cow Bayou	4E-08	9E-06	2E-10		9E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Neches River	1E-08	1E-07	7E-11		1E-07
Methylmercury - Neurological Effects	Port Arthur Reservoir	1E-08	2E-05	7E-11		2E-05
Methylmercury - Neurological Effects	Hillbrandt Bayou	1E-08	3E-06	7E-11		3E-06
Methylmercury - Neurological Effects	Cow Bayou	1E-08	3E-06	7E-11		3E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Neches River	2E-11	9E-12	1E-12	7E-11	3E-11
2,3,7,8-TCDD-TEQ	Port Arthur Reservoir	2E-11	4E-09	1E-12	7E-11	4E-09
2,3,7,8-TCDD-TEQ	Hillbrandt Bayou	2E-11	5E-10	1E-12	7E-11	5E-10
2,3,7,8-TCDD-TEQ	Cow Bayou	2E-11	2E-10	1E-12	7E-11	2E-10
Nickel	Neches River				1E-11	
Nickel	Port Arthur Reservoir				1E-11	
Nickel	Hillbrandt Bayou				1E-11	
Nickel	Cow Bayou				1E-11	
Arsenic	Neches River	6E-14	5E-16	1E-11	3E-11	1E-11
Arsenic	Port Arthur Reservoir	6E-14	2E-12	1E-11	3E-11	1E-11
Arsenic	Hillbrandt Bayou	6E-14	3E-14	1E-11	3E-11	1E-11
Arsenic	Cow Bayou	6E-14	1E-14	1E-11	3E-11	1E-11
Beryllium	Neches River				6E-11	
Beryllium	Port Arthur Reservoir				6E-11	
Beryllium	Hillbrandt Bayou				6E-11	
Beryllium	Cow Bayou				6E-11	
Cadmium	Neches River				2E-11	
Cadmium	Port Arthur Reservoir				2E-11	
Cadmium	Hillbrandt Bayou				2E-11	
Cadmium	Cow Bayou				2E-11	
Chromium VI	Neches River				2E-10	
Chromium VI	Port Arthur Reservoir				2E-10	
Chromium VI	Hillbrandt Bayou				2E-10	
Chromium VI	Cow Bayou				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Neches River	4E-11	0E+00	3E-09	1E-05	3E-09
Manganese	Port Arthur Reservoir	4E-11	0E+00	3E-09	1E-05	3E-09
Manganese	Hillbrandt Bayou	4E-11	0E+00	3E-09	1E-05	3E-09
Manganese	Cow Bayou	4E-11	0E+00	3E-09	1E-05	3E-09
Mercury (elemental)	Neches River				2E-06	
Mercury (elemental)	Port Arthur Reservoir				2E-06	
Mercury (elemental)	Hillbrandt Bayou				2E-06	
Mercury (elemental)	Cow Bayou				2E-06	
Mercury (divalent)	Neches River	3E-07		2E-09		3E-07
Mercury (divalent)	Port Arthur Reservoir	3E-07		2E-09		3E-07
Mercury (divalent)	Hillbrandt Bayou	3E-07		2E-09		3E-07
Mercury (divalent)	Cow Bayou	3E-07		2E-09		3E-07
Nickel	Neches River	4E-11	1E-13	1E-08		1E-08
Nickel	Port Arthur Reservoir	4E-11	4E-10	1E-08		1E-08
Nickel	Hillbrandt Bayou	4E-11	6E-12	1E-08		1E-08
Nickel	Cow Bayou	4E-11	3E-12	1E-08		1E-08
Silver	Neches River	3E-12	0E+00	3E-08		3E-08
Silver	Port Arthur Reservoir	3E-12	0E+00	3E-08		3E-08
Silver	Hillbrandt Bayou	3E-12	0E+00	3E-08		3E-08
Silver	Cow Bayou	3E-12	0E+00	3E-08		3E-08
Thallium	Neches River	6E-10	4E-11	4E-08		4E-08
Thallium	Port Arthur Reservoir	6E-10	1E-07	4E-08		2E-07
Thallium	Hillbrandt Bayou	6E-10	2E-09	4E-08		5E-08
Thallium	Cow Bayou	6E-10	1E-09	4E-08		5E-08

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Neches River	4E-12	0E+00	1E-08		1E-08
Antimony	Port Arthur Reservoir	4E-12	0E+00	1E-08		1E-08
Antimony	Hillbrandt Bayou	4E-12	0E+00	1E-08		1E-08
Antimony	Cow Bayou	4E-12	0E+00	1E-08		1E-08
Arsenic	Neches River	6E-10	5E-12	1E-07		1E-07
Arsenic	Port Arthur Reservoir	6E-10	2E-08	1E-07		1E-07
Arsenic	Hillbrandt Bayou	6E-10	3E-10	1E-07		1E-07
Arsenic	Cow Bayou	6E-10	1E-10	1E-07		1E-07
Barium	Neches River	7E-09	0E+00	3E-08	9E-06	3E-08
Barium	Port Arthur Reservoir	7E-09	0E+00	3E-08	9E-06	3E-08
Barium	Hillbrandt Bayou	7E-09	0E+00	3E-08	9E-06	3E-08
Barium	Cow Bayou	7E-09	0E+00	3E-08	9E-06	3E-08
Beryllium	Neches River	9E-09	1E-11	4E-08		5E-08
Beryllium	Port Arthur Reservoir	9E-09	5E-08	4E-08		9E-08
Beryllium	Hillbrandt Bayou	9E-09	6E-10	4E-08		5E-08
Beryllium	Cow Bayou	9E-09	3E-10	4E-08		5E-08
Cadmium	Neches River	1E-09	2E-10	1E-07		1E-07
Cadmium	Port Arthur Reservoir	1E-09	6E-07	1E-07		7E-07
Cadmium	Hillbrandt Bayou	1E-09	8E-09	1E-07		1E-07
Cadmium	Cow Bayou	1E-09	4E-09	1E-07		1E-07
Chromium VI	Neches River	7E-11	2E-13	2E-08		2E-08
Chromium VI	Port Arthur Reservoir	7E-11	6E-10	2E-08		2E-08
Chromium VI	Hillbrandt Bayou	7E-11	8E-12	2E-08		2E-08
Chromium VI	Cow Bayou	7E-11	4E-12	2E-08		2E-08
Chromium III	Neches River	1E-10	4E-15	3E-12		1E-10
Chromium III	Port Arthur Reservoir	1E-10	2E-11	3E-12		1E-10
Chromium III	Hillbrandt Bayou	1E-10	2E-13	3E-12		1E-10
Chromium III	Cow Bayou	1E-10	1E-13	3E-12		1E-10
Cobalt	Neches River	1E-11	0E+00	1E-09		1E-09
Cobalt	Port Arthur Reservoir	1E-11	0E+00	1E-09		1E-09
Cobalt	Hillbrandt Bayou	1E-11	0E+00	1E-09		1E-09
Cobalt	Cow Bayou	1E-11	0E+00	1E-09		1E-09
Hydrogen Chloride	Neches River				2E-04	
Hydrogen Chloride	Port Arthur Reservoir				2E-04	
Hydrogen Chloride	Hillbrandt Bayou				2E-04	
Hydrogen Chloride	Cow Bayou				2E-04	
Selenium	Neches River	3E-11	5E-10	3E-08		3E-08
Selenium	Port Arthur Reservoir	3E-11	2E-06	3E-08		2E-06
Selenium	Hillbrandt Bayou	3E-11	2E-08	3E-08		5E-08
Selenium	Cow Bayou	3E-11	1E-08	3E-08		4E-08
Chlorine	Neches River				4E-03	
Chlorine	Port Arthur Reservoir				4E-03	
Chlorine	Hillbrandt Bayou				4E-03	
Chlorine	Cow Bayou				4E-03	
Methylmercury - Developmental Effects	Neches River	2E-08	4E-07	2E-10		4E-07
Methylmercury - Developmental Effects	Port Arthur Reservoir	2E-08	6E-05	2E-10		6E-05
Methylmercury - Developmental Effects	Hillbrandt Bayou	2E-08	9E-06	2E-10		9E-06
Methylmercury - Developmental Effects	Cow Bayou	2E-08	9E-06	2E-10		9E-06

Table IX-E40. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B23) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Neches River	6E-09	1E-07	8E-11		1E-07
Methylmercury - Neurological Effects	Port Arthur Reservoir	6E-09	2E-05	8E-11		2E-05
Methylmercury - Neurological Effects	Hillbrandt Bayou	6E-09	3E-06	8E-11		3E-06
Methylmercury - Neurological Effects	Cow Bayou	6E-09	3E-06	8E-11		3E-06

Table IX-E41. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-12	4E-13	2E-13	8E-13	2E-10	2E-09	2E-11	8E-11	5E-11	1E-10		2E-12	2E-09
Nickel												4E-11	
Arsenic	2E-10	6E-11	3E-11	1E-10	4E-10	7E-10	3E-11			9E-10		5E-09	2E-09
Beryllium												3E-11	
Cadmium												3E-10	
Chromium VI												7E-10	
	Noncarcinogenic Chemicals												
Manganese	3E-09	4E-09	2E-09	8E-09	1E-09	7E-08	1E-10			0E+00		3E-05	9E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	1E-05	5E-06	2E-05	4E-05	3E-04	1E-07						4E-04
Nickel	6E-09	3E-09	1E-09	7E-09	7E-08	7E-07	4E-09			1E-08			8E-07
Silver	8E-11	1E-09	3E-10	3E-09	2E-08	7E-06	7E-10			0E+00			7E-06
Thallium	2E-08	1E-09	8E-11	4E-09	4E-07	1E-06	4E-08			6E-07			2E-06
Antimony	2E-08	8E-08	2E-08	2E-07	3E-07	2E-06	1E-08			0E+00			2E-06
Arsenic	4E-06	2E-06	7E-07	4E-06	1E-05	2E-05	7E-07			2E-05			6E-05
Barium	1E-08	1E-09	4E-10	3E-09	7E-10	9E-08	1E-10			0E+00		7E-07	1E-07
Beryllium	1E-07	2E-09	4E-10	5E-09	2E-08	9E-10	7E-09			1E-08			2E-07
Cadmium	7E-07	7E-07	3E-07	1E-06	6E-08	2E-07	1E-08			4E-05			4E-05
Chromium VI	8E-09	2E-09	9E-10	6E-09	9E-08	1E-06	5E-09			1E-08			2E-06
Chromium III	7E-09	8E-11	5E-11	2E-10	5E-09	7E-08	2E-09			1E-12			8E-08
Cobalt	9E-10	2E-10	1E-12	5E-10	2E-08	9E-08	1E-09			0E+00			1E-07
Hydrogen Chloride												2E-04	
Selenium	1E-08	1E-08	9E-09	3E-08	2E-07	2E-05	8E-07			2E-04			2E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	3E-06	3E-06	7E-07	3E-06	9E-06	1E-04	8E-09			6E-03			6E-03
Methylmercury - Neurological Effects	1E-06	1E-06	2E-07	1E-06	3E-06	4E-05	3E-09			2E-03			2E-03

Table IX-E41. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-12	3E-13	2E-13	1E-12	3E-10	1E-09	1E-11	8E-11	6E-11	1E-10		2E-12	2E-09
Nickel												5E-11	
Arsenic	6E-11	5E-11	2E-11	2E-10	6E-10	5E-10	2E-11			9E-10		6E-09	2E-09
Beryllium												4E-11	
Cadmium												4E-10	
Chromium VI												9E-10	
	Noncarcinogenic Chemicals												
Manganese	9E-10	2E-09	2E-09	8E-09	2E-09	3E-08	6E-11			0E+00		3E-05	5E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	NA	6E-06	4E-06	2E-05	4E-05	2E-04	7E-08						2E-04
Nickel	1E-09	2E-09	8E-10	7E-09	8E-08	3E-07	2E-09			8E-09			4E-07
Silver	2E-11	6E-10	2E-10	3E-09	2E-08	4E-06	4E-10			0E+00			4E-06
Thallium	4E-09	7E-10	5E-11	3E-09	4E-07	5E-07	2E-08			5E-07			1E-06
Antimony	5E-09	4E-08	1E-08	2E-07	3E-07	9E-07	7E-09			0E+00			1E-06
Arsenic	1E-06	9E-07	5E-07	4E-06	1E-05	9E-06	4E-07			2E-05			4E-05
Barium	4E-09	8E-10	3E-10	3E-09	8E-10	4E-08	6E-11			0E+00		7E-07	5E-08
Beryllium	4E-08	1E-09	3E-10	5E-09	2E-08	4E-10	4E-09			1E-08			8E-08
Cadmium	2E-07	4E-07	2E-07	1E-06	7E-08	1E-07	7E-09			3E-05			3E-05
Chromium VI	2E-09	1E-09	7E-10	6E-09	1E-07	7E-07	3E-09			9E-09			8E-07
Chromium III	2E-09	4E-11	4E-11	2E-10	6E-09	3E-08	1E-09			8E-13			4E-08
Cobalt	2E-10	1E-10	7E-13	5E-10	2E-08	5E-08	8E-10			0E+00			7E-08
Hydrogen Chloride												2E-04	
Selenium	3E-09	6E-09	6E-09	3E-08	3E-07	1E-05	5E-07			1E-04			1E-04
Chlorine												1E-04	
Methylmercury - Developmental Effects	8E-07	2E-06	5E-07	3E-06	1E-05	6E-05	5E-09			5E-03			5E-03
Methylmercury - Neurological Effects	3E-07	6E-07	2E-07	1E-06	3E-06	2E-05	2E-09			2E-03			2E-03

Table IX-E41. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-13	2E-13	2E-13	6E-13	1E-10	6E-10	9E-12	5E-11	3E-11	6E-11		1E-12	9E-10
Nickel												3E-11	
Arsenic	3E-11	4E-11	2E-11	1E-10	3E-10	2E-10	1E-11			5E-10		4E-09	1E-09
Beryllium												3E-11	
Cadmium												2E-10	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-10	2E-09	1E-09	4E-09	7E-10	2E-08	4E-11			0E+00		3E-05	2E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	7E-06	4E-06	3E-06	1E-05	2E-05	8E-05	5E-08			0E+00			1E-04
Nickel	8E-10	1E-09	6E-10	3E-09	4E-08	2E-07	1E-09			4E-09			2E-07
Silver	1E-11	5E-10	1E-10	1E-09	1E-08	2E-06	3E-10			0E+00			2E-06
Thallium	2E-09	5E-10	4E-11	2E-09	2E-07	2E-07	2E-08			3E-07			7E-07
Antimony	3E-09	3E-08	9E-09	9E-08	2E-07	4E-07	4E-09			0E+00			7E-07
Arsenic	5E-07	7E-07	3E-07	2E-06	5E-06	4E-06	3E-07			9E-06			2E-05
Barium	2E-09	6E-10	2E-10	1E-09	4E-10	2E-08	4E-11			0E+00		7E-07	3E-08
Beryllium	2E-08	8E-10	2E-10	2E-09	1E-08	2E-10	3E-09			6E-09			4E-08
Cadmium	9E-08	3E-07	2E-07	7E-07	3E-08	5E-08	4E-09			2E-05			2E-05
Chromium VI	1E-09	1E-09	5E-10	3E-09	5E-08	3E-07	2E-09			5E-09			4E-07
Chromium III	1E-09	3E-11	3E-11	1E-10	3E-09	2E-08	7E-10			4E-13			2E-08
Cobalt	1E-10	8E-11	5E-13	2E-10	9E-09	2E-08	5E-10			0E+00			3E-08
Hydrogen Chloride												2E-04	
Selenium	2E-09	5E-09	4E-09	2E-08	1E-07	5E-06	3E-07			6E-05			7E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	4E-07	1E-06	4E-07	2E-06	5E-06	3E-05	3E-09			2E-03			2E-03
Methylmercury - Neurological Effects	1E-07	5E-07	1E-07	6E-07	2E-06	9E-06	1E-09			8E-04			8E-04

Table IX-E41. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	6E-13	6E-13	3E-13	1E-12	3E-10	5E-10	1E-11	8E-11	5E-11	1E-10		2E-12	1E-09
Nickel												4E-11	
Arsenic	2E-11	9E-11	3E-11	2E-10	6E-10	2E-10	2E-11			1E-09		6E-09	2E-09
Beryllium												4E-11	
Cadmium												3E-10	
Chromium VI												8E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-10	2E-09	1E-09	4E-09	8E-10	7E-09	4E-11			0E+00		3E-05	2E-08
Mercury (elemental)												4E-06	
Mercury (divalent)	3E-06	6E-06	3E-06	1E-05	2E-05	3E-05	4E-08			0E+00			8E-05
Nickel	3E-10	2E-09	7E-10	3E-09	4E-08	7E-08	1E-09			5E-09			1E-07
Silver	5E-12	6E-10	2E-10	1E-09	1E-08	7E-07	2E-10			0E+00			7E-07
Thallium	9E-10	7E-10	4E-11	2E-09	2E-07	1E-07	1E-08			3E-07			6E-07
Antimony	1E-09	4E-08	1E-08	9E-08	2E-07	2E-07	4E-09			0E+00			5E-07
Arsenic	2E-07	9E-07	4E-07	2E-06	6E-06	2E-06	2E-07			1E-05			2E-05
Barium	8E-10	9E-10	2E-10	1E-09	4E-10	9E-09	4E-11			0E+00		7E-07	1E-08
Beryllium	8E-09	1E-09	2E-10	2E-09	1E-08	9E-11	2E-09			6E-09			3E-08
Cadmium	4E-08	4E-07	2E-07	7E-07	4E-08	2E-08	4E-09			2E-05			2E-05
Chromium VI	4E-10	1E-09	5E-10	3E-09	5E-08	1E-07	2E-09			5E-09			2E-07
Chromium III	4E-10	5E-11	3E-11	1E-10	3E-09	7E-09	6E-10			4E-13			1E-08
Cobalt	5E-11	1E-10	6E-13	2E-10	1E-08	1E-08	5E-10			0E+00			2E-08
Hydrogen Chloride												2E-04	
Selenium	7E-10	6E-09	5E-09	2E-08	1E-07	2E-06	3E-07			7E-05			7E-05
Chlorine												1E-04	
Methylmercury - Developmental Effects	2E-07	2E-06	4E-07	2E-06	5E-06	1E-05	3E-09			3E-03			3E-03
Methylmercury - Neurological Effects	5E-08	7E-07	1E-07	5E-07	2E-06	4E-06	9E-10			9E-04			9E-04

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wassahickon Creek	4E-12	5E-10	3E-14	2E-12	5E-10
2,3,7,8-TCDD-TEQ	Sckuylkill River	4E-12	5E-11	3E-14	2E-12	6E-11
2,3,7,8-TCDD-TEQ	Neshaminy Creek	4E-12	5E-11	3E-14	2E-12	5E-11
2,3,7,8-TCDD-TEQ	Peace Valley Reservoir	4E-12	4E-11	3E-14	2E-12	4E-11
Nickel	Wassahickon Creek				4E-11	
Nickel	Sckuylkill River				4E-11	
Nickel	Neshaminy Creek				4E-11	
Nickel	Peace Valley Reservoir				4E-11	
Arsenic	Wassahickon Creek	2E-10	2E-10	8E-11	5E-09	4E-10
Arsenic	Sckuylkill River	2E-10	8E-12	8E-11	5E-09	2E-10
Arsenic	Neshaminy Creek	2E-10	9E-12	8E-11	5E-09	2E-10
Arsenic	Peace Valley Reservoir	2E-10	3E-11	8E-11	5E-09	3E-10
Beryllium	Wassahickon Creek				3E-11	
Beryllium	Sckuylkill River				3E-11	
Beryllium	Neshaminy Creek				3E-11	
Beryllium	Peace Valley Reservoir				3E-11	
Cadmium	Wassahickon Creek				3E-10	
Cadmium	Sckuylkill River				3E-10	
Cadmium	Neshaminy Creek				3E-10	
Cadmium	Peace Valley Reservoir				3E-10	
Chromium VI	Wassahickon Creek				7E-10	
Chromium VI	Sckuylkill River				7E-10	
Chromium VI	Neshaminy Creek				7E-10	
Chromium VI	Peace Valley Reservoir				7E-10	
	Noncarcinogenic Chemicals					
Manganese	Wassahickon Creek	3E-09	0E+00	7E-10	3E-05	4E-09
Manganese	Sckuylkill River	3E-09	0E+00	7E-10	3E-05	4E-09
Manganese	Neshaminy Creek	3E-09	0E+00	7E-10	3E-05	4E-09
Manganese	Peace Valley Reservoir	3E-09	0E+00	7E-10	3E-05	4E-09
Mercury (elemental)	Wassahickon Creek				4E-06	
Mercury (elemental)	Sckuylkill River				4E-06	
Mercury (elemental)	Neshaminy Creek				4E-06	
Mercury (elemental)	Peace Valley Reservoir				4E-06	
Mercury (divalent)	Wassahickon Creek	5E-05		5E-07		5E-05
Mercury (divalent)	Sckuylkill River	5E-05		5E-07		5E-05
Mercury (divalent)	Neshaminy Creek	5E-05		5E-07		5E-05
Mercury (divalent)	Peace Valley Reservoir	5E-05		5E-07		5E-05
Nickel	Wassahickon Creek	6E-09	2E-09	4E-09		1E-08
Nickel	Sckuylkill River	6E-09	9E-11	4E-09		1E-08
Nickel	Neshaminy Creek	6E-09	1E-10	4E-09		1E-08
Nickel	Peace Valley Reservoir	6E-09	4E-10	4E-09		1E-08
Silver	Wassahickon Creek	8E-11	0E+00	2E-09		2E-09
Silver	Sckuylkill River	8E-11	0E+00	2E-09		2E-09
Silver	Neshaminy Creek	8E-11	0E+00	2E-09		2E-09
Silver	Peace Valley Reservoir	8E-11	0E+00	2E-09		2E-09
Thallium	Wassahickon Creek	2E-08	1E-07	3E-09		1E-07
Thallium	Sckuylkill River	2E-08	7E-09	3E-09		3E-08
Thallium	Neshaminy Creek	2E-08	7E-09	3E-09		3E-08
Thallium	Peace Valley Reservoir	2E-08	3E-08	3E-09		4E-08

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wassahickon Creek	2E-08	0E+00	1E-07		1E-07
Antimony	Sckuylkill River	2E-08	0E+00	1E-07		1E-07
Antimony	Neshaminy Creek	2E-08	0E+00	1E-07		1E-07
Antimony	Peace Valley Reservoir	2E-08	0E+00	1E-07		1E-07
Arsenic	Wassahickon Creek	4E-06	4E-06	2E-06		1E-05
Arsenic	Sckuylkill River	4E-06	2E-07	2E-06		6E-06
Arsenic	Neshaminy Creek	4E-06	2E-07	2E-06		6E-06
Arsenic	Peace Valley Reservoir	4E-06	8E-07	2E-06		7E-06
Barium	Wassahickon Creek	1E-08	0E+00	1E-10	7E-07	2E-08
Barium	Sckuylkill River	1E-08	0E+00	1E-10	7E-07	2E-08
Barium	Neshaminy Creek	1E-08	0E+00	1E-10	7E-07	2E-08
Barium	Peace Valley Reservoir	1E-08	0E+00	1E-10	7E-07	2E-08
Beryllium	Wassahickon Creek	1E-07	2E-08	2E-09		2E-07
Beryllium	Sckuylkill River	1E-07	1E-09	2E-09		1E-07
Beryllium	Neshaminy Creek	1E-07	1E-09	2E-09		1E-07
Beryllium	Peace Valley Reservoir	1E-07	2E-09	2E-09		1E-07
Cadmium	Wassahickon Creek	7E-07	9E-06	2E-07		9E-06
Cadmium	Sckuylkill River	7E-07	5E-07	2E-07		1E-06
Cadmium	Neshaminy Creek	7E-07	5E-07	2E-07		1E-06
Cadmium	Peace Valley Reservoir	7E-07	2E-06	2E-07		3E-06
Chromium VI	Wassahickon Creek	8E-09	2E-09	6E-09		2E-08
Chromium VI	Sckuylkill River	8E-09	1E-10	6E-09		1E-08
Chromium VI	Neshaminy Creek	8E-09	1E-10	6E-09		1E-08
Chromium VI	Peace Valley Reservoir	8E-09	4E-10	6E-09		1E-08
Chromium III	Wassahickon Creek	7E-09	1E-11	8E-13		7E-09
Chromium III	Sckuylkill River	7E-09	1E-12	8E-13		7E-09
Chromium III	Neshaminy Creek	7E-09	2E-12	8E-13		7E-09
Chromium III	Peace Valley Reservoir	7E-09	2E-13	8E-13		7E-09
Cobalt	Wassahickon Creek	9E-10	0E+00	8E-13		9E-10
Cobalt	Sckuylkill River	9E-10	0E+00	8E-13		9E-10
Cobalt	Neshaminy Creek	9E-10	0E+00	8E-13		9E-10
Cobalt	Peace Valley Reservoir	9E-10	0E+00	8E-13		9E-10
Hydrogen Chloride	Wassahickon Creek				2E-04	
Hydrogen Chloride	Sckuylkill River				2E-04	
Hydrogen Chloride	Neshaminy Creek				2E-04	
Hydrogen Chloride	Peace Valley Reservoir				2E-04	
Selenium	Wassahickon Creek	1E-08	3E-05	4E-08		3E-05
Selenium	Sckuylkill River	1E-08	1E-06	4E-08		1E-06
Selenium	Neshaminy Creek	1E-08	1E-06	4E-08		2E-06
Selenium	Peace Valley Reservoir	1E-08	5E-06	4E-08		5E-06
Chlorine	Wassahickon Creek				1E-04	
Chlorine	Sckuylkill River				1E-04	
Chlorine	Neshaminy Creek				1E-04	
Chlorine	Peace Valley Reservoir				1E-04	
Methylmercury - Developmental Effects	Wassahickon Creek	3E-06	9E-03	7E-09		9E-03
Methylmercury - Developmental Effects	Sckuylkill River	3E-06	1E-03	7E-09		1E-03
Methylmercury - Developmental Effects	Neshaminy Creek	3E-06	2E-03	7E-09		2E-03
Methylmercury - Developmental Effects	Peace Valley Reservoir	3E-06	2E-03	7E-09		2E-03

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wassahickon Creek	1E-06	3E-03	2E-09		3E-03
Methylmercury - Neurological Effects	Sckuylkill River	1E-06	4E-04	2E-09		4E-04
Methylmercury - Neurological Effects	Neshaminy Creek	1E-06	7E-04	2E-09		7E-04
Methylmercury - Neurological Effects	Peace Valley Reservoir	1E-06	7E-04	2E-09		7E-04

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wassahickon Creek	2E-12	6E-10	2E-14	2E-12	6E-10
2,3,7,8-TCDD-TEQ	Sckuylkill River	2E-12	7E-11	2E-14	2E-12	7E-11
2,3,7,8-TCDD-TEQ	Neshaminy Creek	2E-12	7E-11	2E-14	2E-12	7E-11
2,3,7,8-TCDD-TEQ	Peace Valley Reservoir	2E-12	5E-11	2E-14	2E-12	5E-11
Nickel	Wassahickon Creek				5E-11	
Nickel	Sckuylkill River				5E-11	
Nickel	Neshaminy Creek				5E-11	
Nickel	Peace Valley Reservoir				5E-11	
Arsenic	Wassahickon Creek	6E-11	2E-10	6E-11	6E-09	3E-10
Arsenic	Sckuylkill River	6E-11	1E-11	6E-11	6E-09	1E-10
Arsenic	Neshaminy Creek	6E-11	1E-11	6E-11	6E-09	1E-10
Arsenic	Peace Valley Reservoir	6E-11	4E-11	6E-11	6E-09	2E-10
Beryllium	Wassahickon Creek				4E-11	
Beryllium	Sckuylkill River				4E-11	
Beryllium	Neshaminy Creek				4E-11	
Beryllium	Peace Valley Reservoir				4E-11	
Cadmium	Wassahickon Creek				4E-10	
Cadmium	Sckuylkill River				4E-10	
Cadmium	Neshaminy Creek				4E-10	
Cadmium	Peace Valley Reservoir				4E-10	
Chromium VI	Wassahickon Creek				9E-10	
Chromium VI	Sckuylkill River				9E-10	
Chromium VI	Neshaminy Creek				9E-10	
Chromium VI	Peace Valley Reservoir				9E-10	
	Noncarcinogenic Chemicals					
Manganese	Wassahickon Creek	9E-10	0E+00	4E-10	3E-05	1E-09
Manganese	Sckuylkill River	9E-10	0E+00	4E-10	3E-05	1E-09
Manganese	Neshaminy Creek	9E-10	0E+00	4E-10	3E-05	1E-09
Manganese	Peace Valley Reservoir	9E-10	0E+00	4E-10	3E-05	1E-09
Mercury (elemental)	Wassahickon Creek				4E-06	
Mercury (elemental)	Sckuylkill River				4E-06	
Mercury (elemental)	Neshaminy Creek				4E-06	
Mercury (elemental)	Peace Valley Reservoir				4E-06	
Mercury (divalent)	Wassahickon Creek	1E-05		3E-07		1E-05
Mercury (divalent)	Sckuylkill River	1E-05		3E-07		1E-05
Mercury (divalent)	Neshaminy Creek	1E-05		3E-07		1E-05
Mercury (divalent)	Peace Valley Reservoir	1E-05		3E-07		1E-05
Nickel	Wassahickon Creek	1E-09	2E-09	2E-09		5E-09
Nickel	Sckuylkill River	1E-09	9E-11	2E-09		4E-09
Nickel	Neshaminy Creek	1E-09	1E-10	2E-09		4E-09
Nickel	Peace Valley Reservoir	1E-09	4E-10	2E-09		4E-09
Silver	Wassahickon Creek	2E-11	0E+00	1E-09		1E-09
Silver	Sckuylkill River	2E-11	0E+00	1E-09		1E-09
Silver	Neshaminy Creek	2E-11	0E+00	1E-09		1E-09
Silver	Peace Valley Reservoir	2E-11	0E+00	1E-09		1E-09
Thallium	Wassahickon Creek	4E-09	1E-07	2E-09		1E-07
Thallium	Sckuylkill River	4E-09	7E-09	2E-09		1E-08
Thallium	Neshaminy Creek	4E-09	7E-09	2E-09		1E-08
Thallium	Peace Valley Reservoir	4E-09	3E-08	2E-09		3E-08

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wassahickon Creek	5E-09	0E+00	7E-08		8E-08
Antimony	Sckuylkill River	5E-09	0E+00	7E-08		8E-08
Antimony	Neshaminy Creek	5E-09	0E+00	7E-08		8E-08
Antimony	Peace Valley Reservoir	5E-09	0E+00	7E-08		8E-08
Arsenic	Wassahickon Creek	1E-06	4E-06	1E-06		6E-06
Arsenic	Sckuylkill River	1E-06	2E-07	1E-06		2E-06
Arsenic	Neshaminy Creek	1E-06	2E-07	1E-06		2E-06
Arsenic	Peace Valley Reservoir	1E-06	8E-07	1E-06		3E-06
Barium	Wassahickon Creek	4E-09	0E+00	8E-11	7E-07	4E-09
Barium	Sckuylkill River	4E-09	0E+00	8E-11	7E-07	4E-09
Barium	Neshaminy Creek	4E-09	0E+00	8E-11	7E-07	4E-09
Barium	Peace Valley Reservoir	4E-09	0E+00	8E-11	7E-07	4E-09
Beryllium	Wassahickon Creek	4E-08	2E-08	9E-10		6E-08
Beryllium	Sckuylkill River	4E-08	1E-09	9E-10		4E-08
Beryllium	Neshaminy Creek	4E-08	1E-09	9E-10		4E-08
Beryllium	Peace Valley Reservoir	4E-08	2E-09	9E-10		4E-08
Cadmium	Wassahickon Creek	2E-07	9E-06	9E-08		9E-06
Cadmium	Sckuylkill River	2E-07	5E-07	9E-08		7E-07
Cadmium	Neshaminy Creek	2E-07	5E-07	9E-08		8E-07
Cadmium	Peace Valley Reservoir	2E-07	2E-06	9E-08		2E-06
Chromium VI	Wassahickon Creek	2E-09	2E-09	3E-09		7E-09
Chromium VI	Sckuylkill River	2E-09	1E-10	3E-09		5E-09
Chromium VI	Neshaminy Creek	2E-09	1E-10	3E-09		5E-09
Chromium VI	Peace Valley Reservoir	2E-09	4E-10	3E-09		6E-09
Chromium III	Wassahickon Creek	2E-09	1E-11	5E-13		2E-09
Chromium III	Sckuylkill River	2E-09	1E-12	5E-13		2E-09
Chromium III	Neshaminy Creek	2E-09	2E-12	5E-13		2E-09
Chromium III	Peace Valley Reservoir	2E-09	2E-13	5E-13		2E-09
Cobalt	Wassahickon Creek	2E-10	0E+00	5E-13		2E-10
Cobalt	Sckuylkill River	2E-10	0E+00	5E-13		2E-10
Cobalt	Neshaminy Creek	2E-10	0E+00	5E-13		2E-10
Cobalt	Peace Valley Reservoir	2E-10	0E+00	5E-13		2E-10
Hydrogen Chloride	Wassahickon Creek				2E-04	
Hydrogen Chloride	Sckuylkill River				2E-04	
Hydrogen Chloride	Neshaminy Creek				2E-04	
Hydrogen Chloride	Peace Valley Reservoir				2E-04	
Selenium	Wassahickon Creek	3E-09	3E-05	2E-08		3E-05
Selenium	Sckuylkill River	3E-09	1E-06	2E-08		1E-06
Selenium	Neshaminy Creek	3E-09	1E-06	2E-08		1E-06
Selenium	Peace Valley Reservoir	3E-09	5E-06	2E-08		5E-06
Chlorine	Wassahickon Creek				1E-04	
Chlorine	Sckuylkill River				1E-04	
Chlorine	Neshaminy Creek				1E-04	
Chlorine	Peace Valley Reservoir				1E-04	
Methylmercury - Developmental Effects	Wassahickon Creek	8E-07	9E-03	4E-09		9E-03
Methylmercury - Developmental Effects	Sckuylkill River	8E-07	1E-03	4E-09		1E-03
Methylmercury - Developmental Effects	Neshaminy Creek	8E-07	2E-03	4E-09		2E-03
Methylmercury - Developmental Effects	Peace Valley Reservoir	8E-07	2E-03	4E-09		2E-03

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wassahickon Creek	3E-07	3E-03	1E-09		3E-03
Methylmercury - Neurological Effects	Sckuylkill River	3E-07	4E-04	1E-09		4E-04
Methylmercury - Neurological Effects	Neshaminy Creek	3E-07	7E-04	1E-09		7E-04
Methylmercury - Neurological Effects	Peace Valley Reservoir	3E-07	7E-04	1E-09		7E-04

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wassahickon Creek	8E-13	5E-10	1E-14	1E-12	5E-10
2,3,7,8-TCDD-TEQ	Sckuylkill River	8E-13	5E-11	1E-14	1E-12	5E-11
2,3,7,8-TCDD-TEQ	Neshaminy Creek	8E-13	5E-11	1E-14	1E-12	5E-11
2,3,7,8-TCDD-TEQ	Peace Valley Reservoir	8E-13	4E-11	1E-14	1E-12	4E-11
Nickel	Wassahickon Creek				3E-11	
Nickel	Sckuylkill River				3E-11	
Nickel	Neshaminy Creek				3E-11	
Nickel	Peace Valley Reservoir				3E-11	
Arsenic	Wassahickon Creek	3E-11	2E-10	4E-11	4E-09	2E-10
Arsenic	Sckuylkill River	3E-11	8E-12	4E-11	4E-09	8E-11
Arsenic	Neshaminy Creek	3E-11	9E-12	4E-11	4E-09	8E-11
Arsenic	Peace Valley Reservoir	3E-11	3E-11	4E-11	4E-09	1E-10
Beryllium	Wassahickon Creek				3E-11	
Beryllium	Sckuylkill River				3E-11	
Beryllium	Neshaminy Creek				3E-11	
Beryllium	Peace Valley Reservoir				3E-11	
Cadmium	Wassahickon Creek				2E-10	
Cadmium	Sckuylkill River				2E-10	
Cadmium	Neshaminy Creek				2E-10	
Cadmium	Peace Valley Reservoir				2E-10	
Chromium VI	Wassahickon Creek				6E-10	
Chromium VI	Sckuylkill River				6E-10	
Chromium VI	Neshaminy Creek				6E-10	
Chromium VI	Peace Valley Reservoir				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Wassahickon Creek	4E-10	0E+00	3E-10	3E-05	7E-10
Manganese	Sckuylkill River	4E-10	0E+00	3E-10	3E-05	7E-10
Manganese	Neshaminy Creek	4E-10	0E+00	3E-10	3E-05	7E-10
Manganese	Peace Valley Reservoir	4E-10	0E+00	3E-10	3E-05	7E-10
Mercury (elemental)	Wassahickon Creek				4E-06	
Mercury (elemental)	Sckuylkill River				4E-06	
Mercury (elemental)	Neshaminy Creek				4E-06	
Mercury (elemental)	Peace Valley Reservoir				4E-06	
Mercury (divalent)	Wassahickon Creek	7E-06		2E-07		7E-06
Mercury (divalent)	Sckuylkill River	7E-06		2E-07		7E-06
Mercury (divalent)	Neshaminy Creek	7E-06		2E-07		7E-06
Mercury (divalent)	Peace Valley Reservoir	7E-06		2E-07		7E-06
Nickel	Wassahickon Creek	8E-10	1E-09	1E-09		3E-09
Nickel	Sckuylkill River	8E-10	7E-11	1E-09		2E-09
Nickel	Neshaminy Creek	8E-10	7E-11	1E-09		2E-09
Nickel	Peace Valley Reservoir	8E-10	3E-10	1E-09		2E-09
Silver	Wassahickon Creek	1E-11	0E+00	8E-10		8E-10
Silver	Sckuylkill River	1E-11	0E+00	8E-10		8E-10
Silver	Neshaminy Creek	1E-11	0E+00	8E-10		8E-10
Silver	Peace Valley Reservoir	1E-11	0E+00	8E-10		8E-10
Thallium	Wassahickon Creek	2E-09	9E-08	1E-09		9E-08
Thallium	Sckuylkill River	2E-09	5E-09	1E-09		8E-09
Thallium	Neshaminy Creek	2E-09	5E-09	1E-09		8E-09
Thallium	Peace Valley Reservoir	2E-09	2E-08	1E-09		2E-08

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wassahickon Creek	3E-09	0E+00	5E-08		5E-08
Antimony	Sckuylkill River	3E-09	0E+00	5E-08		5E-08
Antimony	Neshaminy Creek	3E-09	0E+00	5E-08		5E-08
Antimony	Peace Valley Reservoir	3E-09	0E+00	5E-08		5E-08
Arsenic	Wassahickon Creek	5E-07	3E-06	7E-07		4E-06
Arsenic	Sckuylkill River	5E-07	1E-07	7E-07		1E-06
Arsenic	Neshaminy Creek	5E-07	2E-07	7E-07		1E-06
Arsenic	Peace Valley Reservoir	5E-07	6E-07	7E-07		2E-06
Barium	Wassahickon Creek	2E-09	0E+00	5E-11	7E-07	2E-09
Barium	Sckuylkill River	2E-09	0E+00	5E-11	7E-07	2E-09
Barium	Neshaminy Creek	2E-09	0E+00	5E-11	7E-07	2E-09
Barium	Peace Valley Reservoir	2E-09	0E+00	5E-11	7E-07	2E-09
Beryllium	Wassahickon Creek	2E-08	1E-08	6E-10		3E-08
Beryllium	Sckuylkill River	2E-08	7E-10	6E-10		2E-08
Beryllium	Neshaminy Creek	2E-08	9E-10	6E-10		2E-08
Beryllium	Peace Valley Reservoir	2E-08	2E-09	6E-10		2E-08
Cadmium	Wassahickon Creek	9E-08	6E-06	6E-08		6E-06
Cadmium	Sckuylkill River	9E-08	3E-07	6E-08		5E-07
Cadmium	Neshaminy Creek	9E-08	4E-07	6E-08		5E-07
Cadmium	Peace Valley Reservoir	9E-08	1E-06	6E-08		1E-06
Chromium VI	Wassahickon Creek	1E-09	1E-09	2E-09		5E-09
Chromium VI	Sckuylkill River	1E-09	8E-11	2E-09		3E-09
Chromium VI	Neshaminy Creek	1E-09	8E-11	2E-09		3E-09
Chromium VI	Peace Valley Reservoir	1E-09	3E-10	2E-09		4E-09
Chromium III	Wassahickon Creek	1E-09	8E-12	3E-13		1E-09
Chromium III	Sckuylkill River	1E-09	9E-13	3E-13		1E-09
Chromium III	Neshaminy Creek	1E-09	1E-12	3E-13		1E-09
Chromium III	Peace Valley Reservoir	1E-09	1E-13	3E-13		1E-09
Cobalt	Wassahickon Creek	1E-10	0E+00	1E-10		2E-10
Cobalt	Sckuylkill River	1E-10	0E+00	1E-10		2E-10
Cobalt	Neshaminy Creek	1E-10	0E+00	1E-10		2E-10
Cobalt	Peace Valley Reservoir	1E-10	0E+00	1E-10		2E-10
Hydrogen Chloride	Wassahickon Creek				2E-04	
Hydrogen Chloride	Sckuylkill River				2E-04	
Hydrogen Chloride	Neshaminy Creek				2E-04	
Hydrogen Chloride	Peace Valley Reservoir				2E-04	
Selenium	Wassahickon Creek	2E-09	2E-05	1E-08		2E-05
Selenium	Sckuylkill River	2E-09	1E-06	1E-08		1E-06
Selenium	Neshaminy Creek	2E-09	1E-06	1E-08		1E-06
Selenium	Peace Valley Reservoir	2E-09	4E-06	1E-08		4E-06
Chlorine	Wassahickon Creek				1E-04	
Chlorine	Sckuylkill River				1E-04	
Chlorine	Neshaminy Creek				1E-04	
Chlorine	Peace Valley Reservoir				1E-04	
Methylmercury - Developmental Effects	Wassahickon Creek	4E-07	7E-03	3E-09		7E-03
Methylmercury - Developmental Effects	Sckuylkill River	4E-07	8E-04	3E-09		8E-04
Methylmercury - Developmental Effects	Neshaminy Creek	4E-07	1E-03	3E-09		2E-03
Methylmercury - Developmental Effects	Peace Valley Reservoir	4E-07	2E-03	3E-09		2E-03

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wassahickon Creek	1E-07	2E-03	9E-10		2E-03
Methylmercury - Neurological Effects	Sckuylkill River	1E-07	3E-04	9E-10		3E-04
Methylmercury - Neurological Effects	Neshaminy Creek	1E-07	5E-04	9E-10		5E-04
Methylmercury - Neurological Effects	Peace Valley Reservoir	1E-07	5E-04	9E-10		5E-04

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Wassahickon Creek	6E-13	9E-10	3E-14	2E-12	9E-10
2,3,7,8-TCDD-TEQ	Sckuylkill River	6E-13	9E-11	3E-14	2E-12	1E-10
2,3,7,8-TCDD-TEQ	Neshaminy Creek	6E-13	9E-11	3E-14	2E-12	9E-11
2,3,7,8-TCDD-TEQ	Peace Valley Reservoir	6E-13	7E-11	3E-14	2E-12	7E-11
Nickel	Wassahickon Creek				4E-11	
Nickel	Sckuylkill River				4E-11	
Nickel	Neshaminy Creek				4E-11	
Nickel	Peace Valley Reservoir				4E-11	
Arsenic	Wassahickon Creek	2E-11	3E-10	9E-11	6E-09	4E-10
Arsenic	Sckuylkill River	2E-11	2E-11	9E-11	6E-09	1E-10
Arsenic	Neshaminy Creek	2E-11	2E-11	9E-11	6E-09	1E-10
Arsenic	Peace Valley Reservoir	2E-11	6E-11	9E-11	6E-09	2E-10
Beryllium	Wassahickon Creek				4E-11	
Beryllium	Sckuylkill River				4E-11	
Beryllium	Neshaminy Creek				4E-11	
Beryllium	Peace Valley Reservoir				4E-11	
Cadmium	Wassahickon Creek				3E-10	
Cadmium	Sckuylkill River				3E-10	
Cadmium	Neshaminy Creek				3E-10	
Cadmium	Peace Valley Reservoir				3E-10	
Chromium VI	Wassahickon Creek				8E-10	
Chromium VI	Sckuylkill River				8E-10	
Chromium VI	Neshaminy Creek				8E-10	
Chromium VI	Peace Valley Reservoir				8E-10	
	Noncarcinogenic Chemicals					
Manganese	Wassahickon Creek	2E-10	0E+00	3E-10	3E-05	5E-10
Manganese	Sckuylkill River	2E-10	0E+00	3E-10	3E-05	5E-10
Manganese	Neshaminy Creek	2E-10	0E+00	3E-10	3E-05	5E-10
Manganese	Peace Valley Reservoir	2E-10	0E+00	3E-10	3E-05	5E-10
Mercury (elemental)	Wassahickon Creek				4E-06	
Mercury (elemental)	Sckuylkill River				4E-06	
Mercury (elemental)	Neshaminy Creek				4E-06	
Mercury (elemental)	Peace Valley Reservoir				4E-06	
Mercury (divalent)	Wassahickon Creek	3E-06		2E-07		3E-06
Mercury (divalent)	Sckuylkill River	3E-06		2E-07		3E-06
Mercury (divalent)	Neshaminy Creek	3E-06		2E-07		3E-06
Mercury (divalent)	Peace Valley Reservoir	3E-06		2E-07		3E-06
Nickel	Wassahickon Creek	3E-10	1E-09	2E-09		3E-09
Nickel	Sckuylkill River	3E-10	7E-11	2E-09		2E-09
Nickel	Neshaminy Creek	3E-10	7E-11	2E-09		2E-09
Nickel	Peace Valley Reservoir	3E-10	3E-10	2E-09		2E-09
Silver	Wassahickon Creek	5E-12	0E+00	1E-09		1E-09
Silver	Sckuylkill River	5E-12	0E+00	1E-09		1E-09
Silver	Neshaminy Creek	5E-12	0E+00	1E-09		1E-09
Silver	Peace Valley Reservoir	5E-12	0E+00	1E-09		1E-09
Thallium	Wassahickon Creek	9E-10	9E-08	1E-09		9E-08
Thallium	Sckuylkill River	9E-10	5E-09	1E-09		7E-09
Thallium	Neshaminy Creek	9E-10	5E-09	1E-09		7E-09
Thallium	Peace Valley Reservoir	9E-10	2E-08	1E-09		2E-08

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Wassahickon Creek	1E-09	0E+00	5E-08		6E-08
Antimony	Sckuylkill River	1E-09	0E+00	5E-08		6E-08
Antimony	Neshaminy Creek	1E-09	0E+00	5E-08		6E-08
Antimony	Peace Valley Reservoir	1E-09	0E+00	5E-08		6E-08
Arsenic	Wassahickon Creek	2E-07	3E-06	8E-07		4E-06
Arsenic	Sckuylkill River	2E-07	1E-07	8E-07		1E-06
Arsenic	Neshaminy Creek	2E-07	2E-07	8E-07		1E-06
Arsenic	Peace Valley Reservoir	2E-07	6E-07	8E-07		2E-06
Barium	Wassahickon Creek	8E-10	0E+00	6E-11	7E-07	9E-10
Barium	Sckuylkill River	8E-10	0E+00	6E-11	7E-07	9E-10
Barium	Neshaminy Creek	8E-10	0E+00	6E-11	7E-07	9E-10
Barium	Peace Valley Reservoir	8E-10	0E+00	6E-11	7E-07	9E-10
Beryllium	Wassahickon Creek	8E-09	1E-08	7E-10		2E-08
Beryllium	Sckuylkill River	8E-09	7E-10	7E-10		9E-09
Beryllium	Neshaminy Creek	8E-09	9E-10	7E-10		1E-08
Beryllium	Peace Valley Reservoir	8E-09	2E-09	7E-10		1E-08
Cadmium	Wassahickon Creek	4E-08	6E-06	7E-08		6E-06
Cadmium	Sckuylkill River	4E-08	3E-07	7E-08		4E-07
Cadmium	Neshaminy Creek	4E-08	4E-07	7E-08		5E-07
Cadmium	Peace Valley Reservoir	4E-08	1E-06	7E-08		1E-06
Chromium VI	Wassahickon Creek	4E-10	1E-09	3E-09		4E-09
Chromium VI	Sckuylkill River	4E-10	8E-11	3E-09		3E-09
Chromium VI	Neshaminy Creek	4E-10	8E-11	3E-09		3E-09
Chromium VI	Peace Valley Reservoir	4E-10	3E-10	3E-09		3E-09
Chromium III	Wassahickon Creek	4E-10	8E-12	3E-13		4E-10
Chromium III	Sckuylkill River	4E-10	9E-13	3E-13		4E-10
Chromium III	Neshaminy Creek	4E-10	1E-12	3E-13		4E-10
Chromium III	Peace Valley Reservoir	4E-10	1E-13	3E-13		4E-10
Cobalt	Wassahickon Creek	5E-11	0E+00	1E-10		2E-10
Cobalt	Sckuylkill River	5E-11	0E+00	1E-10		2E-10
Cobalt	Neshaminy Creek	5E-11	0E+00	1E-10		2E-10
Cobalt	Peace Valley Reservoir	5E-11	0E+00	1E-10		2E-10
Hydrogen Chloride	Wassahickon Creek				2E-04	
Hydrogen Chloride	Sckuylkill River				2E-04	
Hydrogen Chloride	Neshaminy Creek				2E-04	
Hydrogen Chloride	Peace Valley Reservoir				2E-04	
Selenium	Wassahickon Creek	7E-10	2E-05	2E-08		2E-05
Selenium	Sckuylkill River	7E-10	1E-06	2E-08		1E-06
Selenium	Neshaminy Creek	7E-10	1E-06	2E-08		1E-06
Selenium	Peace Valley Reservoir	7E-10	4E-06	2E-08		4E-06
Chlorine	Wassahickon Creek				1E-04	
Chlorine	Sckuylkill River				1E-04	
Chlorine	Neshaminy Creek				1E-04	
Chlorine	Peace Valley Reservoir				1E-04	
Methylmercury - Developmental Effects	Wassahickon Creek	2E-07	7E-03	3E-09		7E-03
Methylmercury - Developmental Effects	Sckuylkill River	2E-07	8E-04	3E-09		8E-04
Methylmercury - Developmental Effects	Neshaminy Creek	2E-07	1E-03	3E-09		2E-03
Methylmercury - Developmental Effects	Peace Valley Reservoir	2E-07	2E-03	3E-09		2E-03

Table IX-E42. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B31) - Sector 8

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Wassahickon Creek	5E-08	2E-03	1E-09		2E-03
Methylmercury - Neurological Effects	Sckuylkill River	5E-08	3E-04	1E-09		3E-04
Methylmercury - Neurological Effects	Neshaminy Creek	5E-08	5E-04	1E-09		5E-04
Methylmercury - Neurological Effects	Peace Valley Reservoir	5E-08	5E-04	1E-09		5E-04

Table IX-E43. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	9E-12	7E-13	5E-13	1E-12	3E-10	3E-09	3E-11	2E-10	1E-10	1E-10		3E-12	4E-09
Nickel												1E-10	
Arsenic	3E-10	1E-10	6E-11	3E-10	8E-10	1E-09	6E-11			2E-09		1E-08	6E-09
Beryllium												5E-12	
Cadmium												2E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	9E-09	1E-08	6E-09	2E-08	4E-09	2E-07	3E-10			0E+00		8E-05	2E-07
Mercury (elemental)												3E-07	
Mercury (divalent)	NA	1E-06	8E-06	3E-06	4E-05	3E-04	2E-07						4E-04
Nickel	2E-08	1E-08	4E-09	2E-08	2E-07	2E-06	1E-08			5E-08			3E-06
Silver	1E-10	1E-09	3E-10	3E-09	2E-08	9E-06	8E-10			0E+00			9E-06
Thallium	8E-08	7E-09	4E-10	2E-08	2E-06	6E-06	2E-07			3E-06			1E-05
Antimony	2E-08	8E-08	2E-08	2E-07	3E-07	2E-06	1E-08			0E+00			2E-06
Arsenic	8E-06	4E-06	2E-06	8E-06	2E-05	4E-05	1E-06			6E-05			1E-04
Barium	1E-07	1E-08	2E-09	2E-08	5E-09	6E-07	7E-10			0E+00		4E-06	7E-07
Beryllium	2E-08	3E-10	7E-11	8E-10	4E-09	1E-10	1E-09			1E-09			3E-08
Cadmium	3E-07	4E-07	2E-07	7E-07	3E-08	1E-07	6E-09			2E-05			2E-05
Chromium VI	5E-09	2E-09	6E-10	5E-09	6E-08	1E-06	3E-09			1E-08			1E-06
Chromium III	5E-09	6E-11	4E-11	2E-10	4E-09	5E-08	1E-09			3E-13			6E-08
Cobalt	2E-09	6E-10	3E-12	1E-09	5E-08	3E-07	4E-09			0E+00			3E-07
Hydrogen Chloride												2E-04	
Selenium	2E-10	2E-10	1E-10	5E-10	3E-09	3E-07	1E-08			3E-06			3E-06
Chlorine												2E-03	
Methylmercury - Developmental Effects	4E-06	3E-07	1E-06	3E-07	3E-06	3E-05	1E-08			3E-03			3E-03
Methylmercury - Neurological Effects	1E-06	9E-08	4E-07	1E-07	1E-06	9E-06	3E-09			1E-03			1E-03

Table IX-E43. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-12	5E-13	4E-13	2E-12	5E-10	2E-09	3E-11	2E-10	1E-10	1E-10		4E-12	3E-09
Nickel												2E-10	
Arsenic	1E-10	1E-10	5E-11	4E-10	1E-09	1E-09	5E-11			2E-09		1E-08	5E-09
Beryllium												6E-12	
Cadmium												2E-10	
Chromium VI												6E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-09	7E-09	4E-09	2E-08	4E-09	9E-08	2E-10			0E+00		8E-05	1E-07
Mercury (elemental)												3E-07	
Mercury (divalent)	NA	7E-07	6E-06	3E-06	5E-05	2E-04	1E-07						2E-04
Nickel	5E-09	6E-09	3E-09	2E-08	3E-07	1E-06	8E-09			3E-08			2E-06
Silver	3E-11	7E-10	2E-10	3E-09	3E-08	4E-06	5E-10			0E+00			4E-06
Thallium	2E-08	4E-09	3E-10	2E-08	2E-06	3E-06	1E-07			2E-06			8E-06
Antimony	5E-09	4E-08	1E-08	2E-07	3E-07	9E-07	7E-09			0E+00			1E-06
Arsenic	2E-06	2E-06	1E-06	8E-06	2E-05	2E-05	9E-07			4E-05			1E-04
Barium	3E-08	5E-09	2E-09	2E-08	6E-09	3E-07	4E-10			0E+00		4E-06	3E-07
Beryllium	6E-09	2E-10	5E-11	8E-10	4E-09	7E-11	7E-10			7E-10			1E-08
Cadmium	9E-08	2E-07	1E-07	7E-07	4E-08	6E-08	3E-09			1E-05			1E-05
Chromium VI	1E-09	9E-10	4E-10	4E-09	7E-08	5E-07	2E-09			8E-09			6E-07
Chromium III	1E-09	3E-11	3E-11	1E-10	5E-09	2E-08	8E-10			2E-13			3E-08
Cobalt	6E-10	3E-10	2E-12	1E-09	6E-08	1E-07	2E-09			0E+00			2E-07
Hydrogen Chloride												2E-04	
Selenium	5E-11	9E-11	9E-11	4E-10	4E-09	2E-07	7E-09			2E-06			3E-06
Chlorine												2E-03	
Methylmercury - Developmental Effects	1E-06	2E-07	8E-07	3E-07	3E-06	1E-05	6E-09			2E-03			2E-03
Methylmercury - Neurological Effects	4E-07	5E-08	3E-07	1E-07	1E-06	4E-06	2E-09			8E-04			8E-04

Table IX-E43. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-12	4E-13	3E-13	1E-12	2E-10	1E-09	2E-11	1E-10	7E-11	6E-11		3E-12	2E-09
Nickel												1E-10	
Arsenic	6E-11	8E-11	4E-11	2E-10	6E-10	5E-10	3E-11			1E-09		8E-09	3E-09
Beryllium												4E-12	
Cadmium												1E-10	
Chromium VI												4E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-09	5E-09	3E-09	1E-08	2E-09	4E-08	1E-10			0E+00		8E-05	7E-08
Mercury (elemental)												3E-07	
Mercury (divalent)	1E-05	5E-07	4E-06	1E-06	2E-05	8E-05	6E-08			0E+00			1E-04
Nickel	3E-09	4E-09	2E-09	1E-08	1E-07	5E-07	5E-09			2E-08			7E-07
Silver	1E-11	6E-10	2E-10	2E-09	1E-08	2E-06	3E-10			0E+00			2E-06
Thallium	1E-08	3E-09	2E-10	1E-08	1E-06	1E-06	8E-08			1E-06			4E-06
Antimony	3E-09	3E-08	9E-09	9E-08	2E-07	4E-07	4E-09			0E+00			7E-07
Arsenic	1E-06	2E-06	8E-07	4E-06	1E-05	8E-06	6E-07			2E-05			5E-05
Barium	1E-08	4E-09	1E-09	1E-08	3E-09	1E-07	3E-10			0E+00		4E-06	2E-07
Beryllium	3E-09	1E-10	3E-11	4E-10	2E-09	3E-11	5E-10			4E-10			7E-09
Cadmium	5E-08	2E-07	9E-08	4E-07	2E-08	3E-08	2E-09			7E-06			7E-06
Chromium VI	7E-10	7E-10	3E-10	2E-09	3E-08	2E-07	1E-09			4E-09			3E-07
Chromium III	7E-10	3E-11	2E-11	8E-11	2E-09	1E-08	5E-10			1E-13			1E-08
Cobalt	3E-10	2E-10	2E-12	7E-10	3E-08	6E-08	1E-09			0E+00			9E-08
Hydrogen Chloride												2E-04	
Selenium	2E-11	7E-11	6E-11	2E-10	2E-09	7E-08	5E-09			1E-06			1E-06
Chlorine												2E-03	
Methylmercury - Developmental Effects	6E-07	1E-07	5E-07	2E-07	2E-06	6E-06	4E-09			1E-03			1E-03
Methylmercury - Neurological Effects	2E-07	4E-08	2E-07	6E-08	5E-07	2E-06	1E-09			4E-04			4E-04

Table IX-E43. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-12	1E-12	6E-13	2E-12	5E-10	9E-10	3E-11	2E-10	1E-10	1E-10		4E-12	2E-09
Nickel												1E-10	
Arsenic	5E-11	2E-10	7E-11	4E-10	1E-09	4E-10	5E-11			3E-09		1E-08	5E-09
Beryllium												6E-12	
Cadmium												2E-10	
Chromium VI												5E-10	
	Noncarcinogenic Chemicals												
Manganese	5E-10	7E-09	4E-09	1E-08	2E-09	2E-08	1E-10			0E+00		8E-05	4E-08
Mercury (elemental)												3E-07	
Mercury (divalent)	4E-06	7E-07	5E-06	1E-06	2E-05	3E-05	6E-08			0E+00			7E-05
Nickel	1E-09	6E-09	2E-09	1E-08	1E-07	2E-07	5E-09			2E-08			4E-07
Silver	5E-12	7E-10	2E-10	2E-09	1E-08	9E-07	3E-10			0E+00			9E-07
Thallium	4E-09	4E-09	2E-10	9E-09	1E-06	6E-07	7E-08			1E-06			3E-06
Antimony	1E-09	4E-08	1E-08	9E-08	2E-07	2E-07	4E-09			0E+00			5E-07
Arsenic	5E-07	2E-06	9E-07	4E-06	1E-05	4E-06	5E-07			3E-05			5E-05
Barium	5E-09	6E-09	1E-09	9E-09	3E-09	6E-08	2E-10			0E+00		4E-06	8E-08
Beryllium	1E-09	2E-10	4E-11	4E-10	2E-09	1E-11	4E-10			4E-10			5E-09
Cadmium	2E-08	2E-07	1E-07	3E-07	2E-08	1E-08	2E-09			7E-06			8E-06
Chromium VI	3E-10	9E-10	4E-10	2E-09	4E-08	1E-07	1E-09			5E-09			1E-07
Chromium III	3E-10	3E-11	2E-11	7E-11	2E-09	5E-09	5E-10			1E-13			8E-09
Cobalt	1E-10	3E-10	2E-12	6E-10	3E-08	3E-08	1E-09			0E+00			6E-08
Hydrogen Chloride												2E-04	
Selenium	1E-11	9E-11	7E-11	2E-10	2E-09	3E-08	4E-09			1E-06			1E-06
Chlorine												2E-03	
Methylmercury - Developmental Effects	2E-07	2E-07	6E-07	2E-07	2E-06	3E-06	3E-09			1E-03			1E-03
Methylmercury - Neurological Effects	8E-08	5E-08	2E-07	5E-08	6E-07	9E-07	1E-09			5E-04			5E-04

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cedar Bayou	9E-12	2E-10	0E+00	3E-12	2E-10
2,3,7,8-TCDD-TEQ	Cary Bayou	9E-12	3E-09	0E+00	3E-12	3E-09
2,3,7,8-TCDD-TEQ	Goose Creek	9E-12	1E-09	0E+00	3E-12	1E-09
Nickel	Cedar Bayou				1E-10	
Nickel	Cary Bayou				1E-10	
Nickel	Goose Creek				1E-10	
Arsenic	Cedar Bayou	3E-10	9E-11	0E+00	1E-08	4E-10
Arsenic	Cary Bayou	3E-10	2E-09	0E+00	1E-08	2E-09
Arsenic	Goose Creek	3E-10	8E-10	0E+00	1E-08	1E-09
Beryllium	Cedar Bayou				5E-12	
Beryllium	Cary Bayou				5E-12	
Beryllium	Goose Creek				5E-12	
Cadmium	Cedar Bayou				2E-10	
Cadmium	Cary Bayou				2E-10	
Cadmium	Goose Creek				2E-10	
Chromium VI	Cedar Bayou				5E-10	
Chromium VI	Cary Bayou				5E-10	
Chromium VI	Goose Creek				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Cedar Bayou	9E-09	0E+00	0E+00	8E-05	9E-09
Manganese	Cary Bayou	9E-09	0E+00	0E+00	8E-05	9E-09
Manganese	Goose Creek	9E-09	0E+00	0E+00	8E-05	9E-09
Mercury (elemental)	Cedar Bayou				3E-07	
Mercury (elemental)	Cary Bayou				3E-07	
Mercury (elemental)	Goose Creek				3E-07	
Mercury (divalent)	Cedar Bayou	7E-05		0E+00		7E-05
Mercury (divalent)	Cary Bayou	7E-05		0E+00		7E-05
Mercury (divalent)	Goose Creek	7E-05		0E+00		7E-05
Nickel	Cedar Bayou	2E-08	2E-09	0E+00		2E-08
Nickel	Cary Bayou	2E-08	3E-08	0E+00		5E-08
Nickel	Goose Creek	2E-08	1E-08	0E+00		3E-08
Silver	Cedar Bayou	1E-10	0E+00	0E+00		1E-10
Silver	Cary Bayou	1E-10	0E+00	0E+00		1E-10
Silver	Goose Creek	1E-10	0E+00	0E+00		1E-10
Thallium	Cedar Bayou	8E-08	2E-07	0E+00		3E-07
Thallium	Cary Bayou	8E-08	4E-06	0E+00		4E-06
Thallium	Goose Creek	8E-08	1E-06	0E+00		2E-06
Antimony	Cedar Bayou	2E-08	0E+00	0E+00		2E-08
Antimony	Cary Bayou	2E-08	0E+00	0E+00		2E-08
Antimony	Goose Creek	2E-08	0E+00	0E+00		2E-08
Arsenic	Cedar Bayou	8E-06	2E-06	0E+00		1E-05
Arsenic	Cary Bayou	8E-06	5E-05	0E+00		6E-05
Arsenic	Goose Creek	8E-06	2E-05	0E+00		3E-05
Barium	Cedar Bayou	1E-07	0E+00	0E+00	4E-06	1E-07
Barium	Cary Bayou	1E-07	0E+00	0E+00	4E-06	1E-07
Barium	Goose Creek	1E-07	0E+00	0E+00	4E-06	1E-07
Beryllium	Cedar Bayou	2E-08	1E-09	0E+00		3E-08
Beryllium	Cary Bayou	2E-08	2E-08	0E+00		4E-08
Beryllium	Goose Creek	2E-08	8E-09	0E+00		3E-08

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cedar Bayou	3E-07	1E-06	0E+00		2E-06
Cadmium	Cary Bayou	3E-07	2E-05	0E+00		3E-05
Cadmium	Goose Creek	3E-07	1E-05	0E+00		1E-05
Chromium VI	Cedar Bayou	5E-09	4E-10	0E+00		6E-09
Chromium VI	Cary Bayou	5E-09	8E-09	0E+00		1E-08
Chromium VI	Goose Creek	5E-09	3E-09	0E+00		8E-09
Chromium III	Cedar Bayou	5E-09	6E-12	0E+00		5E-09
Chromium III	Cary Bayou	5E-09	7E-11	0E+00		5E-09
Chromium III	Goose Creek	5E-09	3E-11	0E+00		5E-09
Cobalt	Cedar Bayou	2E-09	0E+00	0E+00		2E-09
Cobalt	Cary Bayou	2E-09	0E+00	0E+00		2E-09
Cobalt	Goose Creek	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Cedar Bayou				2E-04	
Hydrogen Chloride	Cary Bayou				2E-04	
Hydrogen Chloride	Goose Creek				2E-04	
Selenium	Cedar Bayou	2E-10	1E-07	0E+00		1E-07
Selenium	Cary Bayou	2E-10	2E-06	0E+00		2E-06
Selenium	Goose Creek	2E-10	8E-07	0E+00		8E-07
Chlorine	Cedar Bayou				2E-03	
Chlorine	Cary Bayou				2E-03	
Chlorine	Goose Creek				2E-03	
Methylmercury - Developmental Effects	Cedar Bayou	4E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Cary Bayou	4E-06	3E-02	0E+00		3E-02
Methylmercury - Developmental Effects	Goose Creek	4E-06	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Cedar Bayou	1E-06	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Cary Bayou	1E-06	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Goose Creek	1E-06	5E-03	0E+00		5E-03

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cedar Bayou	3E-12	3E-10	0E+00	4E-12	3E-10
2,3,7,8-TCDD-TEQ	Cary Bayou	3E-12	4E-09	0E+00	4E-12	4E-09
2,3,7,8-TCDD-TEQ	Goose Creek	3E-12	2E-09	0E+00	4E-12	2E-09
Nickel	Cedar Bayou				2E-10	
Nickel	Cary Bayou				2E-10	
Nickel	Goose Creek				2E-10	
Arsenic	Cedar Bayou	1E-10	1E-10	0E+00	1E-08	2E-10
Arsenic	Cary Bayou	1E-10	3E-09	0E+00	1E-08	3E-09
Arsenic	Goose Creek	1E-10	1E-09	0E+00	1E-08	1E-09
Beryllium	Cedar Bayou				6E-12	
Beryllium	Cary Bayou				6E-12	
Beryllium	Goose Creek				6E-12	
Cadmium	Cedar Bayou				2E-10	
Cadmium	Cary Bayou				2E-10	
Cadmium	Goose Creek				2E-10	
Chromium VI	Cedar Bayou				6E-10	
Chromium VI	Cary Bayou				6E-10	
Chromium VI	Goose Creek				6E-10	
	Noncarcinogenic Chemicals					
Manganese	Cedar Bayou	2E-09	0E+00	0E+00	8E-05	2E-09
Manganese	Cary Bayou	2E-09	0E+00	0E+00	8E-05	2E-09
Manganese	Goose Creek	2E-09	0E+00	0E+00	8E-05	2E-09
Mercury (elemental)	Cedar Bayou				3E-07	
Mercury (elemental)	Cary Bayou				3E-07	
Mercury (elemental)	Goose Creek				3E-07	
Mercury (divalent)	Cedar Bayou	2E-05		0E+00		2E-05
Mercury (divalent)	Cary Bayou	2E-05		0E+00		2E-05
Mercury (divalent)	Goose Creek	2E-05		0E+00		2E-05
Nickel	Cedar Bayou	5E-09	2E-09	0E+00		7E-09
Nickel	Cary Bayou	5E-09	3E-08	0E+00		4E-08
Nickel	Goose Creek	5E-09	1E-08	0E+00		2E-08
Silver	Cedar Bayou	3E-11	0E+00	0E+00		3E-11
Silver	Cary Bayou	3E-11	0E+00	0E+00		3E-11
Silver	Goose Creek	3E-11	0E+00	0E+00		3E-11
Thallium	Cedar Bayou	2E-08	2E-07	0E+00		2E-07
Thallium	Cary Bayou	2E-08	4E-06	0E+00		4E-06
Thallium	Goose Creek	2E-08	1E-06	0E+00		1E-06
Antimony	Cedar Bayou	5E-09	0E+00	0E+00		5E-09
Antimony	Cary Bayou	5E-09	0E+00	0E+00		5E-09
Antimony	Goose Creek	5E-09	0E+00	0E+00		5E-09
Arsenic	Cedar Bayou	2E-06	2E-06	0E+00		4E-06
Arsenic	Cary Bayou	2E-06	5E-05	0E+00		5E-05
Arsenic	Goose Creek	2E-06	2E-05	0E+00		2E-05
Barium	Cedar Bayou	3E-08	0E+00	0E+00	4E-06	3E-08
Barium	Cary Bayou	3E-08	0E+00	0E+00	4E-06	3E-08
Barium	Goose Creek	3E-08	0E+00	0E+00	4E-06	3E-08
Beryllium	Cedar Bayou	6E-09	1E-09	0E+00		8E-09
Beryllium	Cary Bayou	6E-09	2E-08	0E+00		3E-08
Beryllium	Goose Creek	6E-09	8E-09	0E+00		1E-08

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cedar Bayou	9E-08	1E-06	0E+00		1E-06
Cadmium	Cary Bayou	9E-08	2E-05	0E+00		2E-05
Cadmium	Goose Creek	9E-08	1E-05	0E+00		1E-05
Chromium VI	Cedar Bayou	1E-09	4E-10	0E+00		2E-09
Chromium VI	Cary Bayou	1E-09	8E-09	0E+00		9E-09
Chromium VI	Goose Creek	1E-09	3E-09	0E+00		4E-09
Chromium III	Cedar Bayou	1E-09	6E-12	0E+00		1E-09
Chromium III	Cary Bayou	1E-09	7E-11	0E+00		1E-09
Chromium III	Goose Creek	1E-09	3E-11	0E+00		1E-09
Cobalt	Cedar Bayou	6E-10	0E+00	0E+00		6E-10
Cobalt	Cary Bayou	6E-10	0E+00	0E+00		6E-10
Cobalt	Goose Creek	6E-10	0E+00	0E+00		6E-10
Hydrogen Chloride	Cedar Bayou				2E-04	
Hydrogen Chloride	Cary Bayou				2E-04	
Hydrogen Chloride	Goose Creek				2E-04	
Selenium	Cedar Bayou	5E-11	1E-07	0E+00		1E-07
Selenium	Cary Bayou	5E-11	2E-06	0E+00		2E-06
Selenium	Goose Creek	5E-11	8E-07	0E+00		8E-07
Chlorine	Cedar Bayou				2E-03	
Chlorine	Cary Bayou				2E-03	
Chlorine	Goose Creek				2E-03	
Methylmercury - Developmental Effects	Cedar Bayou	1E-06	2E-03	0E+00		2E-03
Methylmercury - Developmental Effects	Cary Bayou	1E-06	3E-02	0E+00		3E-02
Methylmercury - Developmental Effects	Goose Creek	1E-06	2E-02	0E+00		2E-02
Methylmercury - Neurological Effects	Cedar Bayou	4E-07	6E-04	0E+00		6E-04
Methylmercury - Neurological Effects	Cary Bayou	4E-07	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Goose Creek	4E-07	5E-03	0E+00		5E-03

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cedar Bayou	2E-12	2E-10	0E+00	3E-12	2E-10
2,3,7,8-TCDD-TEQ	Cary Bayou	2E-12	3E-09	0E+00	3E-12	3E-09
2,3,7,8-TCDD-TEQ	Goose Creek	2E-12	1E-09	0E+00	3E-12	1E-09
Nickel	Cedar Bayou				1E-10	
Nickel	Cary Bayou				1E-10	
Nickel	Goose Creek				1E-10	
Arsenic	Cedar Bayou	6E-11	9E-11	0E+00	8E-09	2E-10
Arsenic	Cary Bayou	6E-11	2E-09	0E+00	8E-09	2E-09
Arsenic	Goose Creek	6E-11	8E-10	0E+00	8E-09	8E-10
Beryllium	Cedar Bayou				4E-12	
Beryllium	Cary Bayou				4E-12	
Beryllium	Goose Creek				4E-12	
Cadmium	Cedar Bayou				1E-10	
Cadmium	Cary Bayou				1E-10	
Cadmium	Goose Creek				1E-10	
Chromium VI	Cedar Bayou				4E-10	
Chromium VI	Cary Bayou				4E-10	
Chromium VI	Goose Creek				4E-10	
	Noncarcinogenic Chemicals					
Manganese	Cedar Bayou	1E-09	0E+00	0E+00	8E-05	1E-09
Manganese	Cary Bayou	1E-09	0E+00	0E+00	8E-05	1E-09
Manganese	Goose Creek	1E-09	0E+00	0E+00	8E-05	1E-09
Mercury (elemental)	Cedar Bayou				3E-07	
Mercury (elemental)	Cary Bayou				3E-07	
Mercury (elemental)	Goose Creek				3E-07	
Mercury (divalent)	Cedar Bayou	1E-05		0E+00		1E-05
Mercury (divalent)	Cary Bayou	1E-05		0E+00		1E-05
Mercury (divalent)	Goose Creek	1E-05		0E+00		1E-05
Nickel	Cedar Bayou	3E-09	1E-09	0E+00		4E-09
Nickel	Cary Bayou	3E-09	2E-08	0E+00		3E-08
Nickel	Goose Creek	3E-09	1E-08	0E+00		1E-08
Silver	Cedar Bayou	1E-11	0E+00	0E+00		1E-11
Silver	Cary Bayou	1E-11	0E+00	0E+00		1E-11
Silver	Goose Creek	1E-11	0E+00	0E+00		1E-11
Thallium	Cedar Bayou	1E-08	1E-07	0E+00		1E-07
Thallium	Cary Bayou	1E-08	3E-06	0E+00		3E-06
Thallium	Goose Creek	1E-08	1E-06	0E+00		1E-06
Antimony	Cedar Bayou	3E-09	0E+00	0E+00		3E-09
Antimony	Cary Bayou	3E-09	0E+00	0E+00		3E-09
Antimony	Goose Creek	3E-09	0E+00	0E+00		3E-09
Arsenic	Cedar Bayou	1E-06	2E-06	0E+00		3E-06
Arsenic	Cary Bayou	1E-06	3E-05	0E+00		3E-05
Arsenic	Goose Creek	1E-06	1E-05	0E+00		1E-05
Barium	Cedar Bayou	1E-08	0E+00	0E+00	4E-06	1E-08
Barium	Cary Bayou	1E-08	0E+00	0E+00	4E-06	1E-08
Barium	Goose Creek	1E-08	0E+00	0E+00	4E-06	1E-08
Beryllium	Cedar Bayou	3E-09	8E-10	0E+00		4E-09
Beryllium	Cary Bayou	3E-09	1E-08	0E+00		2E-08
Beryllium	Goose Creek	3E-09	5E-09	0E+00		9E-09

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cedar Bayou	5E-08	8E-07	0E+00		9E-07
Cadmium	Cary Bayou	5E-08	2E-05	0E+00		2E-05
Cadmium	Goose Creek	5E-08	7E-06	0E+00		7E-06
Chromium VI	Cedar Bayou	7E-10	3E-10	0E+00		1E-09
Chromium VI	Cary Bayou	7E-10	6E-09	0E+00		6E-09
Chromium VI	Goose Creek	7E-10	2E-09	0E+00		3E-09
Chromium III	Cedar Bayou	7E-10	4E-12	0E+00		7E-10
Chromium III	Cary Bayou	7E-10	5E-11	0E+00		8E-10
Chromium III	Goose Creek	7E-10	2E-11	0E+00		8E-10
Cobalt	Cedar Bayou	3E-10	0E+00	0E+00		3E-10
Cobalt	Cary Bayou	3E-10	0E+00	0E+00		3E-10
Cobalt	Goose Creek	3E-10	0E+00	0E+00		3E-10
Hydrogen Chloride	Cedar Bayou				2E-04	
Hydrogen Chloride	Cary Bayou				2E-04	
Hydrogen Chloride	Goose Creek				2E-04	
Selenium	Cedar Bayou	2E-11	7E-08	0E+00		7E-08
Selenium	Cary Bayou	2E-11	1E-06	0E+00		1E-06
Selenium	Goose Creek	2E-11	6E-07	0E+00		6E-07
Chlorine	Cedar Bayou				2E-03	
Chlorine	Cary Bayou				2E-03	
Chlorine	Goose Creek				2E-03	
Methylmercury - Developmental Effects	Cedar Bayou	6E-07	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Cary Bayou	6E-07	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	Goose Creek	6E-07	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Cedar Bayou	2E-07	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Cary Bayou	2E-07	8E-03	0E+00		8E-03
Methylmercury - Neurological Effects	Goose Creek	2E-07	4E-03	0E+00		4E-03

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Cedar Bayou	1E-12	4E-10	0E+00	4E-12	4E-10
2,3,7,8-TCDD-TEQ	Cary Bayou	1E-12	5E-09	0E+00	4E-12	5E-09
2,3,7,8-TCDD-TEQ	Goose Creek	1E-12	2E-09	0E+00	4E-12	2E-09
Nickel	Cedar Bayou				1E-10	
Nickel	Cary Bayou				1E-10	
Nickel	Goose Creek				1E-10	
Arsenic	Cedar Bayou	5E-11	2E-10	0E+00	1E-08	2E-10
Arsenic	Cary Bayou	5E-11	4E-09	0E+00	1E-08	4E-09
Arsenic	Goose Creek	5E-11	1E-09	0E+00	1E-08	1E-09
Beryllium	Cedar Bayou				6E-12	
Beryllium	Cary Bayou				6E-12	
Beryllium	Goose Creek				6E-12	
Cadmium	Cedar Bayou				2E-10	
Cadmium	Cary Bayou				2E-10	
Cadmium	Goose Creek				2E-10	
Chromium VI	Cedar Bayou				5E-10	
Chromium VI	Cary Bayou				5E-10	
Chromium VI	Goose Creek				5E-10	
	Noncarcinogenic Chemicals					
Manganese	Cedar Bayou	5E-10	0E+00	0E+00	8E-05	5E-10
Manganese	Cary Bayou	5E-10	0E+00	0E+00	8E-05	5E-10
Manganese	Goose Creek	5E-10	0E+00	0E+00	8E-05	5E-10
Mercury (elemental)	Cedar Bayou				3E-07	
Mercury (elemental)	Cary Bayou				3E-07	
Mercury (elemental)	Goose Creek				3E-07	
Mercury (divalent)	Cedar Bayou	4E-06		0E+00		4E-06
Mercury (divalent)	Cary Bayou	4E-06		0E+00		4E-06
Mercury (divalent)	Goose Creek	4E-06		0E+00		4E-06
Nickel	Cedar Bayou	1E-09	1E-09	0E+00		2E-09
Nickel	Cary Bayou	1E-09	2E-08	0E+00		3E-08
Nickel	Goose Creek	1E-09	1E-08	0E+00		1E-08
Silver	Cedar Bayou	5E-12	0E+00	0E+00		5E-12
Silver	Cary Bayou	5E-12	0E+00	0E+00		5E-12
Silver	Goose Creek	5E-12	0E+00	0E+00		5E-12
Thallium	Cedar Bayou	4E-09	1E-07	0E+00		1E-07
Thallium	Cary Bayou	4E-09	3E-06	0E+00		3E-06
Thallium	Goose Creek	4E-09	1E-06	0E+00		1E-06
Antimony	Cedar Bayou	1E-09	0E+00	0E+00		1E-09
Antimony	Cary Bayou	1E-09	0E+00	0E+00		1E-09
Antimony	Goose Creek	1E-09	0E+00	0E+00		1E-09
Arsenic	Cedar Bayou	5E-07	2E-06	0E+00		2E-06
Arsenic	Cary Bayou	5E-07	3E-05	0E+00		3E-05
Arsenic	Goose Creek	5E-07	1E-05	0E+00		1E-05
Barium	Cedar Bayou	5E-09	0E+00	0E+00	4E-06	5E-09
Barium	Cary Bayou	5E-09	0E+00	0E+00	4E-06	5E-09
Barium	Goose Creek	5E-09	0E+00	0E+00	4E-06	5E-09
Beryllium	Cedar Bayou	1E-09	8E-10	0E+00		2E-09
Beryllium	Cary Bayou	1E-09	1E-08	0E+00		2E-08
Beryllium	Goose Creek	1E-09	5E-09	0E+00		7E-09

Table IX-E44. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B32) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Cadmium	Cedar Bayou	2E-08	8E-07	0E+00		9E-07
Cadmium	Cary Bayou	2E-08	2E-05	0E+00		2E-05
Cadmium	Goose Creek	2E-08	7E-06	0E+00		7E-06
Chromium VI	Cedar Bayou	3E-10	3E-10	0E+00		5E-10
Chromium VI	Cary Bayou	3E-10	6E-09	0E+00		6E-09
Chromium VI	Goose Creek	3E-10	2E-09	0E+00		3E-09
Chromium III	Cedar Bayou	3E-10	4E-12	0E+00		3E-10
Chromium III	Cary Bayou	3E-10	5E-11	0E+00		3E-10
Chromium III	Goose Creek	3E-10	2E-11	0E+00		3E-10
Cobalt	Cedar Bayou	1E-10	0E+00	0E+00		1E-10
Cobalt	Cary Bayou	1E-10	0E+00	0E+00		1E-10
Cobalt	Goose Creek	1E-10	0E+00	0E+00		1E-10
Hydrogen Chloride	Cedar Bayou				2E-04	
Hydrogen Chloride	Cary Bayou				2E-04	
Hydrogen Chloride	Goose Creek				2E-04	
Selenium	Cedar Bayou	1E-11	7E-08	0E+00		7E-08
Selenium	Cary Bayou	1E-11	1E-06	0E+00		1E-06
Selenium	Goose Creek	1E-11	6E-07	0E+00		6E-07
Chlorine	Cedar Bayou				2E-03	
Chlorine	Cary Bayou				2E-03	
Chlorine	Goose Creek				2E-03	
Methylmercury - Developmental Effects	Cedar Bayou	2E-07	1E-03	0E+00		1E-03
Methylmercury - Developmental Effects	Cary Bayou	2E-07	2E-02	0E+00		2E-02
Methylmercury - Developmental Effects	Goose Creek	2E-07	1E-02	0E+00		1E-02
Methylmercury - Neurological Effects	Cedar Bayou	8E-08	5E-04	0E+00		5E-04
Methylmercury - Neurological Effects	Cary Bayou	8E-08	8E-03	0E+00		8E-03
Methylmercury - Neurological Effects	Goose Creek	8E-08	4E-03	0E+00		4E-03

Table IX-E45. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	1E-11	5E-12	2E-11	5E-09	5E-08	5E-10	2E-09	1E-09	2E-09		5E-11	7E-08
Nickel												3E-10	
Arsenic	1E-12	4E-13	2E-13	9E-13	3E-12	4E-12	2E-13			7E-12		4E-11	2E-11
Beryllium												7E-12	
Cadmium												9E-11	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	1E-08	2E-08	9E-09	3E-08	6E-09	3E-07	5E-10			0E+00		2E-04	4E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	6E-06	2E-08	1E-05	5E-06	7E-05	2E-09						9E-05
Nickel	3E-08	2E-08	6E-09	4E-08	4E-07	4E-06	2E-08			8E-08			4E-06
Silver	4E-10	5E-09	1E-09	1E-08	8E-08	3E-05	3E-09			0E+00			3E-05
Thallium	7E-08	6E-09	3E-10	2E-08	2E-06	5E-06	2E-07			3E-06			1E-05
Antimony	8E-08	4E-07	8E-08	8E-07	1E-06	8E-06	5E-08			0E+00			1E-05
Arsenic	2E-08	1E-08	4E-09	2E-08	6E-08	1E-07	4E-09			2E-07			4E-07
Barium	5E-07	5E-08	1E-08	1E-07	2E-08	3E-06	4E-09			0E+00		3E-05	4E-06
Beryllium	2E-08	3E-10	6E-11	8E-10	3E-09	1E-10	1E-09			2E-09			3E-08
Cadmium	2E-07	2E-07	8E-08	3E-07	2E-08	6E-08	3E-09			1E-05			1E-05
Chromium VI	1E-08	4E-09	2E-09	1E-08	2E-07	3E-06	9E-09			3E-08			3E-06
Chromium III	1E-09	2E-11	1E-11	4E-11	1E-09	1E-08	4E-10			1E-13			2E-08
Cobalt	4E-09	9E-10	5E-12	2E-09	7E-08	4E-07	6E-09			0E+00			5E-07
Hydrogen Chloride												6E-04	
Selenium	8E-11	7E-11	5E-11	2E-10	2E-09	1E-07	6E-09			1E-06			1E-06
Chlorine												2E-04	
Methylmercury - Developmental Effects	1E-08	2E-06	3E-09	2E-06	4E-06	6E-05	7E-10			6E-06			7E-05
Methylmercury - Neurological Effects	4E-09	6E-07	9E-10	6E-07	1E-06	2E-05	2E-10			2E-06			2E-05

Table IX-E45. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	4E-11	7E-12	4E-12	3E-11	8E-09	4E-08	4E-10	2E-09	2E-09	2E-09		6E-11	5E-08
Nickel												3E-10	
Arsenic	3E-13	3E-13	1E-13	1E-12	4E-12	3E-12	1E-13			7E-12		4E-11	2E-11
Beryllium												8E-12	
Cadmium												1E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	4E-09	1E-08	6E-09	3E-08	7E-09	1E-07	3E-10			0E+00		2E-04	2E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	NA	3E-06	1E-08	1E-05	6E-06	4E-05	1E-09						6E-05
Nickel	8E-09	9E-09	4E-09	4E-08	4E-07	2E-06	1E-08			6E-08			2E-06
Silver	1E-10	3E-09	9E-10	1E-08	9E-08	2E-05	2E-09			0E+00			2E-05
Thallium	2E-08	3E-09	2E-10	2E-08	2E-06	2E-06	1E-07			2E-06			7E-06
Antimony	2E-08	2E-07	6E-08	8E-07	2E-06	4E-06	3E-08			0E+00			7E-06
Arsenic	6E-09	6E-09	3E-09	2E-08	7E-08	6E-08	3E-09			1E-07			3E-07
Barium	1E-07	3E-08	9E-09	1E-07	3E-08	2E-06	2E-09			0E+00		3E-05	2E-06
Beryllium	6E-09	2E-10	4E-11	8E-10	4E-09	7E-11	7E-10			1E-09			1E-08
Cadmium	4E-08	1E-07	6E-08	3E-07	2E-08	3E-08	2E-09			8E-06			9E-06
Chromium VI	4E-09	2E-09	1E-09	1E-08	2E-07	1E-06	6E-09			2E-08			2E-06
Chromium III	4E-10	9E-12	7E-12	4E-11	1E-09	7E-09	2E-10			1E-13			9E-09
Cobalt	1E-09	5E-10	3E-12	2E-09	9E-08	2E-07	4E-09			0E+00			3E-07
Hydrogen Chloride												6E-04	
Selenium	2E-11	4E-11	4E-11	2E-10	2E-09	7E-08	3E-09			1E-06			1E-06
Chlorine												2E-04	
Methylmercury - Developmental Effects	3E-09	1E-06	2E-09	2E-06	5E-06	3E-05	4E-10			5E-06			4E-05
Methylmercury - Neurological Effects	1E-09	4E-07	6E-10	6E-07	2E-06	1E-05	1E-10			2E-06			1E-05

Table IX-E45. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	6E-12	3E-12	1E-11	4E-09	2E-08	3E-10	1E-09	8E-10	1E-09		4E-11	3E-08
Nickel												2E-10	
Arsenic	2E-13	2E-13	1E-13	6E-13	2E-12	1E-12	9E-14			4E-12		3E-11	8E-12
Beryllium												5E-12	
Cadmium												7E-11	
Chromium VI												1E-09	
	Noncarcinogenic Chemicals												
Manganese	2E-09	8E-09	5E-09	2E-08	3E-09	7E-08	2E-10			0E+00		2E-04	1E-07
Mercury (elemental)												2E-06	
Mercury (divalent)	2E-08	2E-06	1E-08	6E-06	3E-06	2E-05	9E-10			0E+00			3E-05
Nickel	4E-09	7E-09	3E-09	2E-08	2E-07	8E-07	8E-09			3E-08			1E-06
Silver	5E-11	2E-09	6E-10	6E-09	4E-08	7E-06	1E-09			0E+00			7E-06
Thallium	1E-08	2E-09	2E-10	8E-09	9E-07	1E-06	7E-08			1E-06			3E-06
Antimony	1E-08	2E-07	4E-08	4E-07	7E-07	2E-06	2E-08			0E+00			3E-06
Arsenic	3E-09	4E-09	2E-09	1E-08	3E-08	3E-08	2E-09			7E-08			2E-07
Barium	7E-08	2E-08	7E-09	5E-08	1E-08	7E-07	1E-09			0E+00		3E-05	9E-07
Beryllium	3E-09	1E-10	3E-11	4E-10	2E-09	3E-11	4E-10			7E-10			7E-09
Cadmium	2E-08	8E-08	4E-08	2E-07	9E-09	1E-08	1E-09			4E-06			5E-06
Chromium VI	2E-09	2E-09	8E-10	6E-09	9E-08	6E-07	4E-09			1E-08			7E-07
Chromium III	2E-10	7E-12	5E-12	2E-11	6E-10	3E-09	1E-10			6E-14			4E-09
Cobalt	5E-10	4E-10	2E-12	1E-09	4E-08	1E-07	2E-09			0E+00			1E-07
Hydrogen Chloride												6E-04	
Selenium	1E-11	3E-11	3E-11	1E-10	8E-10	3E-08	2E-09			5E-07			6E-07
Chlorine												2E-04	
Methylmercury - Developmental Effects	2E-09	8E-07	1E-09	9E-07	2E-06	1E-05	3E-10			3E-06			2E-05
Methylmercury - Neurological Effects	5E-10	3E-07	5E-10	3E-07	7E-07	4E-06	9E-11			8E-07			7E-06

Table IX-E45. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	1E-11	6E-12	3E-11	8E-09	1E-08	4E-10	2E-09	1E-09	2E-09		6E-11	3E-08
Nickel												3E-10	
Arsenic	1E-13	5E-13	2E-13	1E-12	4E-12	1E-12	2E-13			8E-12		4E-11	2E-11
Beryllium												7E-12	
Cadmium												1E-10	
Chromium VI												2E-09	
	Noncarcinogenic Chemicals												
Manganese	8E-10	1E-08	5E-09	2E-08	4E-09	3E-08	2E-10			0E+00		2E-04	7E-08
Mercury (elemental)												2E-06	
Mercury (divalent)	1E-08	3E-06	1E-08	5E-06	3E-06	7E-06	8E-10			0E+00			2E-05
Nickel	2E-09	9E-09	4E-09	2E-08	2E-07	4E-07	7E-09			3E-08			7E-07
Silver	2E-11	3E-09	7E-10	6E-09	5E-08	3E-06	1E-09			0E+00			3E-06
Thallium	4E-09	3E-09	2E-10	7E-09	1E-06	5E-07	6E-08			1E-06			3E-06
Antimony	5E-09	2E-07	5E-08	4E-07	8E-07	8E-07	2E-08			0E+00			2E-06
Arsenic	1E-09	6E-09	2E-09	1E-08	4E-08	1E-08	1E-09			8E-08			1E-07
Barium	3E-08	3E-08	7E-09	5E-08	2E-08	3E-07	1E-09			0E+00		3E-05	4E-07
Beryllium	1E-09	2E-10	3E-11	4E-10	2E-09	1E-11	4E-10			8E-10			5E-09
Cadmium	9E-09	1E-07	5E-08	2E-07	1E-08	6E-09	1E-09			5E-06			5E-06
Chromium VI	8E-10	2E-09	1E-09	6E-09	1E-07	3E-07	3E-09			1E-08			4E-07
Chromium III	8E-11	9E-12	6E-12	2E-11	7E-10	1E-09	1E-10			6E-14			2E-09
Cobalt	2E-10	5E-10	3E-12	1E-09	4E-08	4E-08	2E-09			0E+00			9E-08
Hydrogen Chloride												6E-04	
Selenium	4E-12	4E-11	3E-11	1E-10	1E-09	1E-08	2E-09			6E-07			6E-07
Chlorine												2E-04	
Methylmercury - Developmental Effects	6E-10	1E-06	2E-09	9E-07	2E-06	6E-06	2E-10			3E-06			1E-05
Methylmercury - Neurological Effects	2E-10	4E-07	5E-10	3E-07	8E-07	2E-06	8E-11			9E-07			4E-06

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Arkansas River	1E-10	8E-12	0E+00	5E-11	1E-10
2,3,7,8-TCDD-TEQ	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-10	4E-10	0E+00	5E-11	6E-10
2,3,7,8-TCDD-TEQ	Yellow Lake	1E-10	3E-08	0E+00	5E-11	3E-08
2,3,7,8-TCDD-TEQ	Lake Pine Bluff	1E-10	6E-09	0E+00	5E-11	6E-09
Nickel	Arkansas River				3E-10	
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)				3E-10	
Nickel	Yellow Lake				3E-10	
Nickel	Lake Pine Bluff				3E-10	
Arsenic	Arkansas River	1E-12	2E-15	0E+00	4E-11	1E-12
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-12	1E-13	0E+00	4E-11	1E-12
Arsenic	Yellow Lake	1E-12	9E-12	0E+00	4E-11	9E-12
Arsenic	Lake Pine Bluff	1E-12	7E-13	0E+00	4E-11	2E-12
Beryllium	Arkansas River				7E-12	
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)				7E-12	
Beryllium	Yellow Lake				7E-12	
Beryllium	Lake Pine Bluff				7E-12	
Cadmium	Arkansas River				9E-11	
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)				9E-11	
Cadmium	Yellow Lake				9E-11	
Cadmium	Lake Pine Bluff				9E-11	
Chromium VI	Arkansas River				2E-09	
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-09	
Chromium VI	Yellow Lake				2E-09	
Chromium VI	Lake Pine Bluff				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Arkansas River	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Yellow Lake	1E-08	0E+00	0E+00	2E-04	1E-08
Manganese	Lake Pine Bluff	1E-08	0E+00	0E+00	2E-04	1E-08
Mercury (elemental)	Arkansas River				2E-06	
Mercury (elemental)	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-06	
Mercury (elemental)	Yellow Lake				2E-06	
Mercury (elemental)	Lake Pine Bluff				2E-06	
Mercury (divalent)	Arkansas River	2E-07		0E+00		2E-07
Mercury (divalent)	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-07		0E+00		2E-07
Mercury (divalent)	Yellow Lake	2E-07		0E+00		2E-07
Mercury (divalent)	Lake Pine Bluff	2E-07		0E+00		2E-07
Nickel	Arkansas River	3E-08	2E-11	0E+00		3E-08
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-08	1E-09	0E+00		3E-08
Nickel	Yellow Lake	3E-08	9E-08	0E+00		1E-07
Nickel	Lake Pine Bluff	3E-08	7E-09	0E+00		4E-08
Silver	Arkansas River	4E-10	0E+00	0E+00		4E-10
Silver	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-10	0E+00	0E+00		4E-10
Silver	Yellow Lake	4E-10	0E+00	0E+00		4E-10
Silver	Lake Pine Bluff	4E-10	0E+00	0E+00		4E-10
Thallium	Arkansas River	7E-08	1E-09	0E+00		7E-08
Thallium	Plum Bayou (includes Black Bayou and Bayou Pete)	7E-08	6E-08	0E+00		1E-07
Thallium	Yellow Lake	7E-08	5E-06	0E+00		5E-06
Thallium	Lake Pine Bluff	7E-08	4E-07	0E+00		5E-07

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Arkansas River	8E-08	0E+00	0E+00		8E-08
Antimony	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-08	0E+00	0E+00		8E-08
Antimony	Yellow Lake	8E-08	0E+00	0E+00		8E-08
Antimony	Lake Pine Bluff	8E-08	0E+00	0E+00		8E-08
Arsenic	Arkansas River	2E-08	5E-11	0E+00		2E-08
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08	3E-09	0E+00		3E-08
Arsenic	Yellow Lake	2E-08	2E-07	0E+00		2E-07
Arsenic	Lake Pine Bluff	2E-08	2E-08	0E+00		4E-08
Barium	Arkansas River	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Yellow Lake	5E-07	0E+00	0E+00	3E-05	5E-07
Barium	Lake Pine Bluff	5E-07	0E+00	0E+00	3E-05	5E-07
Beryllium	Arkansas River	2E-08	8E-12	0E+00		2E-08
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08	5E-10	0E+00		2E-08
Beryllium	Yellow Lake	2E-08	4E-08	0E+00		7E-08
Beryllium	Lake Pine Bluff	2E-08	3E-09	0E+00		3E-08
Cadmium	Arkansas River	2E-07	5E-09	0E+00		2E-07
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-07	3E-07	0E+00		4E-07
Cadmium	Yellow Lake	2E-07	2E-05	0E+00		2E-05
Cadmium	Lake Pine Bluff	2E-07	2E-06	0E+00		2E-06
Chromium VI	Arkansas River	1E-08	8E-12	0E+00		1E-08
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08	4E-10	0E+00		1E-08
Chromium VI	Yellow Lake	1E-08	3E-08	0E+00		5E-08
Chromium VI	Lake Pine Bluff	1E-08	3E-09	0E+00		2E-08
Chromium III	Arkansas River	1E-09	1E-14	0E+00		1E-09
Chromium III	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-09	7E-13	0E+00		1E-09
Chromium III	Yellow Lake	1E-09	7E-11	0E+00		1E-09
Chromium III	Lake Pine Bluff	1E-09	5E-12	0E+00		1E-09
Cobalt	Arkansas River	4E-09	0E+00	0E+00		4E-09
Cobalt	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	0E+00	0E+00		4E-09
Cobalt	Yellow Lake	4E-09	0E+00	0E+00		4E-09
Cobalt	Lake Pine Bluff	4E-09	0E+00	0E+00		4E-09
Hydrogen Chloride	Arkansas River				6E-04	
Hydrogen Chloride	Plum Bayou (includes Black Bayou and Bayou Pete)				6E-04	
Hydrogen Chloride	Yellow Lake				6E-04	
Hydrogen Chloride	Lake Pine Bluff				6E-04	
Selenium	Arkansas River	8E-11	3E-10	0E+00		4E-10
Selenium	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-11	2E-08	0E+00		2E-08
Selenium	Yellow Lake	8E-11	1E-06	0E+00		1E-06
Selenium	Lake Pine Bluff	8E-11	1E-07	0E+00		1E-07
Chlorine	Arkansas River				2E-04	
Chlorine	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-04	
Chlorine	Yellow Lake				2E-04	
Chlorine	Lake Pine Bluff				2E-04	
Methylmercury - Developmental Effects	Arkansas River	1E-08	3E-08	0E+00		4E-08
Methylmercury - Developmental Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08	5E-07	0E+00		5E-07
Methylmercury - Developmental Effects	Yellow Lake	1E-08	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Lake Pine Bluff	1E-08	4E-05	0E+00		4E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Arkansas River	4E-09	1E-08	0E+00		1E-08
Methylmercury - Neurological Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	2E-07	0E+00		2E-07
Methylmercury - Neurological Effects	Yellow Lake	4E-09	8E-06	0E+00		8E-06
Methylmercury - Neurological Effects	Lake Pine Bluff	4E-09	1E-05	0E+00		1E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Arkansas River	4E-11	1E-11	0E+00	6E-11	5E-11
2,3,7,8-TCDD-TEQ	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-11	6E-10	0E+00	6E-11	6E-10
2,3,7,8-TCDD-TEQ	Yellow Lake	4E-11	4E-08	0E+00	6E-11	4E-08
2,3,7,8-TCDD-TEQ	Lake Pine Bluff	4E-11	8E-09	0E+00	6E-11	8E-09
Nickel	Arkansas River				3E-10	
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)				3E-10	
Nickel	Yellow Lake				3E-10	
Nickel	Lake Pine Bluff				3E-10	
Arsenic	Arkansas River	3E-13	3E-15	0E+00	4E-11	3E-13
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-13	2E-13	0E+00	4E-11	5E-13
Arsenic	Yellow Lake	3E-13	1E-11	0E+00	4E-11	1E-11
Arsenic	Lake Pine Bluff	3E-13	9E-13	0E+00	4E-11	1E-12
Beryllium	Arkansas River				8E-12	
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)				8E-12	
Beryllium	Yellow Lake				8E-12	
Beryllium	Lake Pine Bluff				8E-12	
Cadmium	Arkansas River				1E-10	
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)				1E-10	
Cadmium	Yellow Lake				1E-10	
Cadmium	Lake Pine Bluff				1E-10	
Chromium VI	Arkansas River				2E-09	
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-09	
Chromium VI	Yellow Lake				2E-09	
Chromium VI	Lake Pine Bluff				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Arkansas River	4E-09	0E+00	0E+00	2E-04	4E-09
Manganese	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	0E+00	0E+00	2E-04	4E-09
Manganese	Yellow Lake	4E-09	0E+00	0E+00	2E-04	4E-09
Manganese	Lake Pine Bluff	4E-09	0E+00	0E+00	2E-04	4E-09
Mercury (elemental)	Arkansas River				2E-06	
Mercury (elemental)	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-06	
Mercury (elemental)	Yellow Lake				2E-06	
Mercury (elemental)	Lake Pine Bluff				2E-06	
Mercury (divalent)	Arkansas River	5E-08		0E+00		5E-08
Mercury (divalent)	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-08		0E+00		5E-08
Mercury (divalent)	Yellow Lake	5E-08		0E+00		5E-08
Mercury (divalent)	Lake Pine Bluff	5E-08		0E+00		5E-08
Nickel	Arkansas River	8E-09	2E-11	0E+00		8E-09
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-09	1E-09	0E+00		9E-09
Nickel	Yellow Lake	8E-09	9E-08	0E+00		1E-07
Nickel	Lake Pine Bluff	8E-09	7E-09	0E+00		2E-08
Silver	Arkansas River	1E-10	0E+00	0E+00		1E-10
Silver	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-10	0E+00	0E+00		1E-10
Silver	Yellow Lake	1E-10	0E+00	0E+00		1E-10
Silver	Lake Pine Bluff	1E-10	0E+00	0E+00		1E-10
Thallium	Arkansas River	2E-08	1E-09	0E+00		2E-08
Thallium	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08	6E-08	0E+00		8E-08
Thallium	Yellow Lake	2E-08	5E-06	0E+00		5E-06
Thallium	Lake Pine Bluff	2E-08	4E-07	0E+00		4E-07

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Arkansas River	2E-08	0E+00	0E+00		2E-08
Antimony	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08	0E+00	0E+00		2E-08
Antimony	Yellow Lake	2E-08	0E+00	0E+00		2E-08
Antimony	Lake Pine Bluff	2E-08	0E+00	0E+00		2E-08
Arsenic	Arkansas River	6E-09	5E-11	0E+00		6E-09
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	6E-09	3E-09	0E+00		9E-09
Arsenic	Yellow Lake	6E-09	2E-07	0E+00		2E-07
Arsenic	Lake Pine Bluff	6E-09	2E-08	0E+00		2E-08
Barium	Arkansas River	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Yellow Lake	1E-07	0E+00	0E+00	3E-05	1E-07
Barium	Lake Pine Bluff	1E-07	0E+00	0E+00	3E-05	1E-07
Beryllium	Arkansas River	6E-09	8E-12	0E+00		6E-09
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)	6E-09	5E-10	0E+00		7E-09
Beryllium	Yellow Lake	6E-09	4E-08	0E+00		5E-08
Beryllium	Lake Pine Bluff	6E-09	3E-09	0E+00		9E-09
Cadmium	Arkansas River	4E-08	5E-09	0E+00		5E-08
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-08	3E-07	0E+00		3E-07
Cadmium	Yellow Lake	4E-08	2E-05	0E+00		2E-05
Cadmium	Lake Pine Bluff	4E-08	2E-06	0E+00		2E-06
Chromium VI	Arkansas River	4E-09	8E-12	0E+00		4E-09
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	4E-10	0E+00		4E-09
Chromium VI	Yellow Lake	4E-09	3E-08	0E+00		4E-08
Chromium VI	Lake Pine Bluff	4E-09	3E-09	0E+00		6E-09
Chromium III	Arkansas River	4E-10	1E-14	0E+00		4E-10
Chromium III	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-10	7E-13	0E+00		4E-10
Chromium III	Yellow Lake	4E-10	7E-11	0E+00		4E-10
Chromium III	Lake Pine Bluff	4E-10	5E-12	0E+00		4E-10
Cobalt	Arkansas River	1E-09	0E+00	0E+00		1E-09
Cobalt	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-09	0E+00	0E+00		1E-09
Cobalt	Yellow Lake	1E-09	0E+00	0E+00		1E-09
Cobalt	Lake Pine Bluff	1E-09	0E+00	0E+00		1E-09
Hydrogen Chloride	Arkansas River				6E-04	
Hydrogen Chloride	Plum Bayou (includes Black Bayou and Bayou Pete)				6E-04	
Hydrogen Chloride	Yellow Lake				6E-04	
Hydrogen Chloride	Lake Pine Bluff				6E-04	
Selenium	Arkansas River	2E-11	3E-10	0E+00		3E-10
Selenium	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-11	2E-08	0E+00		2E-08
Selenium	Yellow Lake	2E-11	1E-06	0E+00		1E-06
Selenium	Lake Pine Bluff	2E-11	1E-07	0E+00		1E-07
Chlorine	Arkansas River				2E-04	
Chlorine	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-04	
Chlorine	Yellow Lake				2E-04	
Chlorine	Lake Pine Bluff				2E-04	
Methylmercury - Developmental Effects	Arkansas River	3E-09	3E-08	0E+00		3E-08
Methylmercury - Developmental Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-09	5E-07	0E+00		5E-07
Methylmercury - Developmental Effects	Yellow Lake	3E-09	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Lake Pine Bluff	3E-09	4E-05	0E+00		4E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Arkansas River	1E-09	1E-08	0E+00		1E-08
Methylmercury - Neurological Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-09	2E-07	0E+00		2E-07
Methylmercury - Neurological Effects	Yellow Lake	1E-09	8E-06	0E+00		8E-06
Methylmercury - Neurological Effects	Lake Pine Bluff	1E-09	1E-05	0E+00		1E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indi
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Arkansas River	2E-11	8E-12	0E+00	4E-11	3E-11
2,3,7,8-TCDD-TEQ	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-11	4E-10	0E+00	4E-11	5E-10
2,3,7,8-TCDD-TEQ	Yellow Lake	2E-11	3E-08	0E+00	4E-11	3E-08
2,3,7,8-TCDD-TEQ	Lake Pine Bluff	2E-11	6E-09	0E+00	4E-11	6E-09
Nickel	Arkansas River				2E-10	
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-10	
Nickel	Yellow Lake				2E-10	
Nickel	Lake Pine Bluff				2E-10	
Arsenic	Arkansas River	2E-13	2E-15	0E+00	3E-11	2E-13
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-13	1E-13	0E+00	3E-11	3E-13
Arsenic	Yellow Lake	2E-13	9E-12	0E+00	3E-11	9E-12
Arsenic	Lake Pine Bluff	2E-13	7E-13	0E+00	3E-11	9E-13
Beryllium	Arkansas River				5E-12	
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)				5E-12	
Beryllium	Yellow Lake				5E-12	
Beryllium	Lake Pine Bluff				5E-12	
Cadmium	Arkansas River				7E-11	
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)				7E-11	
Cadmium	Yellow Lake				7E-11	
Cadmium	Lake Pine Bluff				7E-11	
Chromium VI	Arkansas River				1E-09	
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)				1E-09	
Chromium VI	Yellow Lake				1E-09	
Chromium VI	Lake Pine Bluff				1E-09	
	Noncarcinogenic Chemicals					
Manganese	Arkansas River	2E-09	0E+00	0E+00	2E-04	2E-09
Manganese	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-09	0E+00	0E+00	2E-04	2E-09
Manganese	Yellow Lake	2E-09	0E+00	0E+00	2E-04	2E-09
Manganese	Lake Pine Bluff	2E-09	0E+00	0E+00	2E-04	2E-09
Mercury (elemental)	Arkansas River				2E-06	
Mercury (elemental)	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-06	
Mercury (elemental)	Yellow Lake				2E-06	
Mercury (elemental)	Lake Pine Bluff				2E-06	
Mercury (divalent)	Arkansas River	2E-08		0E+00		2E-08
Mercury (divalent)	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08		0E+00		2E-08
Mercury (divalent)	Yellow Lake	2E-08		0E+00		2E-08
Mercury (divalent)	Lake Pine Bluff	2E-08		0E+00		2E-08
Nickel	Arkansas River	4E-09	1E-11	0E+00		4E-09
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	8E-10	0E+00		5E-09
Nickel	Yellow Lake	4E-09	6E-08	0E+00		7E-08
Nickel	Lake Pine Bluff	4E-09	5E-09	0E+00		9E-09
Silver	Arkansas River	5E-11	0E+00	0E+00		5E-11
Silver	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-11	0E+00	0E+00		5E-11
Silver	Yellow Lake	5E-11	0E+00	0E+00		5E-11
Silver	Lake Pine Bluff	5E-11	0E+00	0E+00		5E-11
Thallium	Arkansas River	1E-08	8E-10	0E+00		1E-08
Thallium	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08	5E-08	0E+00		6E-08
Thallium	Yellow Lake	1E-08	4E-06	0E+00		4E-06
Thallium	Lake Pine Bluff	1E-08	3E-07	0E+00		3E-07

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Arkansas River	1E-08	0E+00	0E+00		1E-08
Antimony	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08	0E+00	0E+00		1E-08
Antimony	Yellow Lake	1E-08	0E+00	0E+00		1E-08
Antimony	Lake Pine Bluff	1E-08	0E+00	0E+00		1E-08
Arsenic	Arkansas River	3E-09	4E-11	0E+00		3E-09
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-09	2E-09	0E+00		5E-09
Arsenic	Yellow Lake	3E-09	2E-07	0E+00		2E-07
Arsenic	Lake Pine Bluff	3E-09	1E-08	0E+00		2E-08
Barium	Arkansas River	7E-08	0E+00	0E+00	3E-05	7E-08
Barium	Plum Bayou (includes Black Bayou and Bayou Pete)	7E-08	0E+00	0E+00	3E-05	7E-08
Barium	Yellow Lake	7E-08	0E+00	0E+00	3E-05	7E-08
Barium	Lake Pine Bluff	7E-08	0E+00	0E+00	3E-05	7E-08
Beryllium	Arkansas River	3E-09	6E-12	0E+00		3E-09
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-09	3E-10	0E+00		4E-09
Beryllium	Yellow Lake	3E-09	3E-08	0E+00		3E-08
Beryllium	Lake Pine Bluff	3E-09	2E-09	0E+00		5E-09
Cadmium	Arkansas River	2E-08	3E-09	0E+00		3E-08
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-08	2E-07	0E+00		2E-07
Cadmium	Yellow Lake	2E-08	1E-05	0E+00		1E-05
Cadmium	Lake Pine Bluff	2E-08	1E-06	0E+00		1E-06
Chromium VI	Arkansas River	2E-09	6E-12	0E+00		2E-09
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-09	3E-10	0E+00		2E-09
Chromium VI	Yellow Lake	2E-09	2E-08	0E+00		3E-08
Chromium VI	Lake Pine Bluff	2E-09	2E-09	0E+00		4E-09
Chromium III	Arkansas River	2E-10	9E-15	0E+00		2E-10
Chromium III	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-10	5E-13	0E+00		2E-10
Chromium III	Yellow Lake	2E-10	5E-11	0E+00		2E-10
Chromium III	Lake Pine Bluff	2E-10	3E-12	0E+00		2E-10
Cobalt	Arkansas River	5E-10	0E+00	0E+00		5E-10
Cobalt	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-10	0E+00	0E+00		5E-10
Cobalt	Yellow Lake	5E-10	0E+00	0E+00		5E-10
Cobalt	Lake Pine Bluff	5E-10	0E+00	0E+00		5E-10
Hydrogen Chloride	Arkansas River				6E-04	
Hydrogen Chloride	Plum Bayou (includes Black Bayou and Bayou Pete)				6E-04	
Hydrogen Chloride	Yellow Lake				6E-04	
Hydrogen Chloride	Lake Pine Bluff				6E-04	
Selenium	Arkansas River	1E-11	2E-10	0E+00		2E-10
Selenium	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-11	1E-08	0E+00		1E-08
Selenium	Yellow Lake	1E-11	1E-06	0E+00		1E-06
Selenium	Lake Pine Bluff	1E-11	8E-08	0E+00		8E-08
Chlorine	Arkansas River				2E-04	
Chlorine	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-04	
Chlorine	Yellow Lake				2E-04	
Chlorine	Lake Pine Bluff				2E-04	
Methylmercury - Developmental Effects	Arkansas River	2E-09	2E-08	0E+00		2E-08
Methylmercury - Developmental Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-09	3E-07	0E+00		3E-07
Methylmercury - Developmental Effects	Yellow Lake	2E-09	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Lake Pine Bluff	2E-09	3E-05	0E+00		3E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Arkansas River	5E-10	7E-09	0E+00		7E-09
Methylmercury - Neurological Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-10	1E-07	0E+00		1E-07
Methylmercury - Neurological Effects	Yellow Lake	5E-10	6E-06	0E+00		6E-06
Methylmercury - Neurological Effects	Lake Pine Bluff	5E-10	8E-06	0E+00		8E-06

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Arkansas River	2E-11	1E-11	0E+00	6E-11	3E-11
2,3,7,8-TCDD-TEQ	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-11	8E-10	0E+00	6E-11	8E-10
2,3,7,8-TCDD-TEQ	Yellow Lake	2E-11	6E-08	0E+00	6E-11	6E-08
2,3,7,8-TCDD-TEQ	Lake Pine Bluff	2E-11	1E-08	0E+00	6E-11	1E-08
Nickel	Arkansas River				3E-10	
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)				3E-10	
Nickel	Yellow Lake				3E-10	
Nickel	Lake Pine Bluff				3E-10	
Arsenic	Arkansas River	1E-13	4E-15	0E+00	4E-11	1E-13
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-13	2E-13	0E+00	4E-11	4E-13
Arsenic	Yellow Lake	1E-13	2E-11	0E+00	4E-11	2E-11
Arsenic	Lake Pine Bluff	1E-13	1E-12	0E+00	4E-11	1E-12
Beryllium	Arkansas River				7E-12	
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)				7E-12	
Beryllium	Yellow Lake				7E-12	
Beryllium	Lake Pine Bluff				7E-12	
Cadmium	Arkansas River				1E-10	
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)				1E-10	
Cadmium	Yellow Lake				1E-10	
Cadmium	Lake Pine Bluff				1E-10	
Chromium VI	Arkansas River				2E-09	
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-09	
Chromium VI	Yellow Lake				2E-09	
Chromium VI	Lake Pine Bluff				2E-09	
	Noncarcinogenic Chemicals					
Manganese	Arkansas River	8E-10	0E+00	0E+00	2E-04	8E-10
Manganese	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-10	0E+00	0E+00	2E-04	8E-10
Manganese	Yellow Lake	8E-10	0E+00	0E+00	2E-04	8E-10
Manganese	Lake Pine Bluff	8E-10	0E+00	0E+00	2E-04	8E-10
Mercury (elemental)	Arkansas River				2E-06	
Mercury (elemental)	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-06	
Mercury (elemental)	Yellow Lake				2E-06	
Mercury (elemental)	Lake Pine Bluff				2E-06	
Mercury (divalent)	Arkansas River	1E-08		0E+00		1E-08
Mercury (divalent)	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-08		0E+00		1E-08
Mercury (divalent)	Yellow Lake	1E-08		0E+00		1E-08
Mercury (divalent)	Lake Pine Bluff	1E-08		0E+00		1E-08
Nickel	Arkansas River	2E-09	1E-11	0E+00		2E-09
Nickel	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-09	8E-10	0E+00		3E-09
Nickel	Yellow Lake	2E-09	6E-08	0E+00		6E-08
Nickel	Lake Pine Bluff	2E-09	5E-09	0E+00		7E-09
Silver	Arkansas River	2E-11	0E+00	0E+00		2E-11
Silver	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-11	0E+00	0E+00		2E-11
Silver	Yellow Lake	2E-11	0E+00	0E+00		2E-11
Silver	Lake Pine Bluff	2E-11	0E+00	0E+00		2E-11
Thallium	Arkansas River	4E-09	8E-10	0E+00		5E-09
Thallium	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-09	5E-08	0E+00		5E-08
Thallium	Yellow Lake	4E-09	4E-06	0E+00		4E-06
Thallium	Lake Pine Bluff	4E-09	3E-07	0E+00		3E-07

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Arkansas River	5E-09	0E+00	0E+00		5E-09
Antimony	Plum Bayou (includes Black Bayou and Bayou Pete)	5E-09	0E+00	0E+00		5E-09
Antimony	Yellow Lake	5E-09	0E+00	0E+00		5E-09
Antimony	Lake Pine Bluff	5E-09	0E+00	0E+00		5E-09
Arsenic	Arkansas River	1E-09	4E-11	0E+00		1E-09
Arsenic	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-09	2E-09	0E+00		3E-09
Arsenic	Yellow Lake	1E-09	2E-07	0E+00		2E-07
Arsenic	Lake Pine Bluff	1E-09	1E-08	0E+00		1E-08
Barium	Arkansas River	3E-08	0E+00	0E+00	3E-05	3E-08
Barium	Plum Bayou (includes Black Bayou and Bayou Pete)	3E-08	0E+00	0E+00	3E-05	3E-08
Barium	Yellow Lake	3E-08	0E+00	0E+00	3E-05	3E-08
Barium	Lake Pine Bluff	3E-08	0E+00	0E+00	3E-05	3E-08
Beryllium	Arkansas River	1E-09	6E-12	0E+00		1E-09
Beryllium	Plum Bayou (includes Black Bayou and Bayou Pete)	1E-09	3E-10	0E+00		2E-09
Beryllium	Yellow Lake	1E-09	3E-08	0E+00		3E-08
Beryllium	Lake Pine Bluff	1E-09	2E-09	0E+00		3E-09
Cadmium	Arkansas River	9E-09	3E-09	0E+00		1E-08
Cadmium	Plum Bayou (includes Black Bayou and Bayou Pete)	9E-09	2E-07	0E+00		2E-07
Cadmium	Yellow Lake	9E-09	1E-05	0E+00		1E-05
Cadmium	Lake Pine Bluff	9E-09	1E-06	0E+00		1E-06
Chromium VI	Arkansas River	8E-10	6E-12	0E+00		8E-10
Chromium VI	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-10	3E-10	0E+00		1E-09
Chromium VI	Yellow Lake	8E-10	2E-08	0E+00		2E-08
Chromium VI	Lake Pine Bluff	8E-10	2E-09	0E+00		3E-09
Chromium III	Arkansas River	8E-11	9E-15	0E+00		8E-11
Chromium III	Plum Bayou (includes Black Bayou and Bayou Pete)	8E-11	5E-13	0E+00		8E-11
Chromium III	Yellow Lake	8E-11	5E-11	0E+00		1E-10
Chromium III	Lake Pine Bluff	8E-11	3E-12	0E+00		8E-11
Cobalt	Arkansas River	2E-10	0E+00	0E+00		2E-10
Cobalt	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-10	0E+00	0E+00		2E-10
Cobalt	Yellow Lake	2E-10	0E+00	0E+00		2E-10
Cobalt	Lake Pine Bluff	2E-10	0E+00	0E+00		2E-10
Hydrogen Chloride	Arkansas River				6E-04	
Hydrogen Chloride	Plum Bayou (includes Black Bayou and Bayou Pete)				6E-04	
Hydrogen Chloride	Yellow Lake				6E-04	
Hydrogen Chloride	Lake Pine Bluff				6E-04	
Selenium	Arkansas River	4E-12	2E-10	0E+00		2E-10
Selenium	Plum Bayou (includes Black Bayou and Bayou Pete)	4E-12	1E-08	0E+00		1E-08
Selenium	Yellow Lake	4E-12	1E-06	0E+00		1E-06
Selenium	Lake Pine Bluff	4E-12	8E-08	0E+00		8E-08
Chlorine	Arkansas River				2E-04	
Chlorine	Plum Bayou (includes Black Bayou and Bayou Pete)				2E-04	
Chlorine	Yellow Lake				2E-04	
Chlorine	Lake Pine Bluff				2E-04	
Methylmercury - Developmental Effects	Arkansas River	6E-10	2E-08	0E+00		2E-08
Methylmercury - Developmental Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	6E-10	3E-07	0E+00		3E-07
Methylmercury - Developmental Effects	Yellow Lake	6E-10	2E-05	0E+00		2E-05
Methylmercury - Developmental Effects	Lake Pine Bluff	6E-10	3E-05	0E+00		3E-05

Table IX-E46. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B37) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Arkansas River	2E-10	7E-09	0E+00		7E-09
Methylmercury - Neurological Effects	Plum Bayou (includes Black Bayou and Bayou Pete)	2E-10	1E-07	0E+00		1E-07
Methylmercury - Neurological Effects	Yellow Lake	2E-10	6E-06	0E+00		6E-06
Methylmercury - Neurological Effects	Lake Pine Bluff	2E-10	8E-06	0E+00		8E-06

Table IX-E47. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	7E-10	8E-11	3E-11	2E-10	3E-08	3E-07	3E-09	1E-08	8E-09	6E-09		5E-10	4E-07
Nickel												2E-11	
Arsenic	5E-11	2E-11	8E-12	4E-11	1E-10	2E-10	9E-12			3E-10		3E-09	8E-10
Beryllium												4E-10	
Cadmium												2E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	6E-08	8E-08	4E-08	2E-07	3E-08	1E-06	2E-09			0E+00		1E-03	2E-06
Mercury (elemental)												6E-07	
Mercury (divalent)	NA	2E-06	3E-06	4E-06	3E-05	3E-04	7E-08						3E-04
Nickel	2E-09	9E-10	4E-10	2E-09	2E-08	2E-07	1E-09			4E-09			3E-07
Silver	6E-09	8E-08	2E-08	2E-07	1E-06	6E-04	5E-08			0E+00			6E-04
Thallium	5E-07	5E-08	3E-09	1E-07	1E-05	4E-05	1E-06			2E-05			8E-05
Antimony	3E-09	1E-08	3E-09	3E-08	5E-08	3E-07	2E-09			0E+00			4E-07
Arsenic	1E-06	5E-07	2E-07	1E-06	3E-06	6E-06	2E-07			8E-06			2E-05
Barium	2E-06	2E-07	6E-08	5E-07	1E-07	1E-05	2E-08			0E+00		2E-04	2E-05
Beryllium	1E-06	1E-08	3E-09	3E-08	1E-07	6E-09	5E-08			4E-08			1E-06
Cadmium	2E-06	3E-06	1E-06	5E-06	2E-07	8E-07	4E-08			1E-04			1E-04
Chromium VI	1E-07	4E-08	2E-08	1E-07	2E-06	3E-05	9E-08			3E-07			3E-05
Chromium III	1E-08	2E-10	1E-10	4E-10	1E-08	1E-07	4E-09			8E-13			2E-07
Cobalt	2E-08	4E-09	2E-11	9E-09	3E-07	2E-06	3E-08			0E+00			2E-06
Hydrogen Chloride												3E-05	
Selenium	4E-08	4E-08	3E-08	1E-07	9E-07	8E-05	3E-06			7E-04			8E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	2E-06	6E-07	4E-07	6E-07	2E-06	3E-05	4E-09			1E-04			2E-04
Methylmercury - Neurological Effects	6E-07	2E-07	1E-07	2E-07	7E-07	8E-06	1E-09			4E-05			5E-05

Table IX-E47. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-10	6E-11	3E-11	2E-10	5E-08	2E-07	2E-09	1E-08	9E-09	6E-09		5E-10	3E-07
Nickel												3E-11	
Arsenic	2E-11	1E-11	7E-12	6E-11	2E-10	2E-10	7E-12			3E-10		3E-09	8E-10
Beryllium												5E-10	
Cadmium												2E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	2E-08	4E-08	3E-08	2E-07	3E-08	7E-07	1E-09			0E+00		1E-03	9E-07
Mercury (elemental)												6E-07	
Mercury (divalent)	NA	1E-06	2E-06	4E-06	3E-05	2E-04	4E-08						2E-04
Nickel	4E-10	5E-10	3E-10	2E-09	3E-08	1E-07	7E-10			3E-09			1E-07
Silver	2E-09	5E-08	1E-08	2E-07	2E-06	3E-04	3E-08			0E+00			3E-04
Thallium	1E-07	3E-08	2E-09	1E-07	2E-05	2E-05	8E-07			2E-05			5E-05
Antimony	8E-10	7E-09	2E-09	3E-08	6E-08	2E-07	1E-09			0E+00			3E-07
Arsenic	3E-07	3E-07	1E-07	1E-06	4E-06	3E-06	1E-07			6E-06			1E-05
Barium	6E-07	1E-07	4E-08	5E-07	1E-07	7E-06	1E-08			0E+00		2E-04	9E-06
Beryllium	3E-07	8E-09	2E-09	3E-08	2E-07	3E-09	3E-08			3E-08			5E-07
Cadmium	6E-07	1E-06	9E-07	5E-06	3E-07	4E-07	2E-08			9E-05			1E-04
Chromium VI	3E-08	2E-08	1E-08	1E-07	2E-06	1E-05	5E-08			2E-07			2E-05
Chromium III	4E-09	9E-11	7E-11	4E-10	1E-08	7E-08	2E-09			6E-13			9E-08
Cobalt	4E-09	2E-09	1E-11	9E-09	4E-07	1E-06	2E-08			0E+00			1E-06
Hydrogen Chloride												3E-05	
Selenium	1E-08	2E-08	2E-08	1E-07	1E-06	4E-05	2E-06			6E-04			6E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	5E-07	3E-07	3E-07	6E-07	3E-06	1E-05	3E-09			9E-05			1E-04
Methylmercury - Neurological Effects	2E-07	1E-07	1E-07	2E-07	8E-07	4E-06	9E-10			3E-05			4E-05

Table IX-E47. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	5E-11	2E-11	1E-10	2E-08	1E-07	1E-09	8E-09	5E-09	3E-09		4E-10	1E-07
Nickel												2E-11	
Arsenic	9E-12	1E-11	5E-12	3E-11	1E-10	7E-11	5E-12			2E-10		2E-09	4E-10
Beryllium												3E-10	
Cadmium												2E-09	
Chromium VI												2E-08	
	Noncarcinogenic Chemicals												
Manganese	8E-09	3E-08	2E-08	8E-08	1E-08	3E-07	8E-10			0E+00		1E-03	5E-07
Mercury (elemental)												6E-07	
Mercury (divalent)	4E-06	9E-07	2E-06	2E-06	2E-05	7E-05	3E-08			0E+00			9E-05
Nickel	2E-10	4E-10	2E-10	1E-09	1E-08	5E-08	5E-10			2E-09			7E-08
Silver	8E-10	4E-08	1E-08	1E-07	8E-07	1E-04	2E-08			0E+00			1E-04
Thallium	7E-08	2E-08	1E-09	7E-08	8E-06	9E-06	6E-07			9E-06			3E-05
Antimony	4E-10	6E-09	1E-09	2E-08	3E-08	7E-08	8E-10			0E+00			1E-07
Arsenic	2E-07	2E-07	1E-07	6E-07	2E-06	1E-06	8E-08			3E-06			7E-06
Barium	3E-07	1E-07	3E-08	2E-07	6E-08	3E-06	7E-09			0E+00		2E-04	4E-06
Beryllium	1E-07	6E-09	1E-09	2E-08	8E-08	1E-09	2E-08			2E-08			3E-07
Cadmium	3E-07	1E-06	6E-07	3E-06	1E-07	2E-07	2E-08			5E-05			5E-05
Chromium VI	2E-08	2E-08	8E-09	6E-08	9E-07	6E-06	3E-08			1E-07			7E-06
Chromium III	2E-09	7E-11	5E-11	2E-10	6E-09	3E-08	1E-09			3E-13			4E-08
Cobalt	2E-09	2E-09	1E-11	5E-09	2E-07	4E-07	1E-08			0E+00			6E-07
Hydrogen Chloride												3E-05	
Selenium	5E-09	2E-08	1E-08	6E-08	5E-07	2E-05	1E-06			3E-04			3E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	2E-07	2E-07	2E-07	3E-07	1E-06	6E-06	2E-09			5E-05			6E-05
Methylmercury - Neurological Effects	8E-08	8E-08	7E-08	1E-07	4E-07	2E-06	6E-10			2E-05			2E-05

Table IX-E47. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	1E-10	1E-10	4E-11	2E-10	5E-08	9E-08	2E-09	1E-08	8E-09	7E-09		5E-10	2E-07
Nickel												3E-11	
Arsenic	7E-12	3E-11	1E-11	5E-11	2E-10	6E-11	8E-12			4E-10		3E-09	8E-10
Beryllium												5E-10	
Cadmium												2E-09	
Chromium VI												3E-08	
	Noncarcinogenic Chemicals												
Manganese	3E-09	5E-08	2E-08	7E-08	2E-08	1E-07	7E-10			0E+00		1E-03	3E-07
Mercury (elemental)												6E-07	
Mercury (divalent)	2E-06	1E-06	2E-06	2E-06	2E-05	3E-05	2E-08			0E+00			5E-05
Nickel	1E-10	5E-10	2E-10	1E-09	1E-08	2E-08	4E-10			2E-09			4E-08
Silver	3E-10	5E-08	1E-08	1E-07	9E-07	6E-05	2E-08			0E+00			6E-05
Thallium	3E-08	3E-08	2E-09	6E-08	9E-06	4E-06	5E-07			1E-05			2E-05
Antimony	2E-10	8E-09	2E-09	2E-08	3E-08	3E-08	7E-10			0E+00			9E-08
Arsenic	6E-08	3E-07	1E-07	6E-07	2E-06	6E-07	7E-08			4E-06			7E-06
Barium	1E-07	1E-07	3E-08	2E-07	7E-08	1E-06	6E-09			0E+00		2E-04	2E-06
Beryllium	5E-08	8E-09	1E-09	2E-08	9E-08	6E-10	2E-08			2E-08			2E-07
Cadmium	1E-07	2E-06	7E-07	2E-06	1E-07	8E-08	1E-08			5E-05			6E-05
Chromium VI	7E-09	2E-08	9E-09	6E-08	1E-06	3E-06	3E-08			1E-07			4E-06
Chromium III	8E-10	9E-11	6E-11	2E-10	7E-09	1E-08	1E-09			3E-13			2E-08
Cobalt	9E-10	2E-09	1E-11	4E-09	2E-07	2E-07	9E-09			0E+00			4E-07
Hydrogen Chloride												3E-05	
Selenium	2E-09	2E-08	2E-08	6E-08	5E-07	8E-06	1E-06			3E-04			3E-04
Chlorine												8E-04	
Methylmercury - Developmental Effects	1E-07	3E-07	2E-07	3E-07	1E-06	3E-06	1E-09			5E-05			6E-05
Methylmercury - Neurological Effects	3E-08	1E-07	8E-08	9E-08	4E-07	8E-07	5E-10			2E-05			2E-05

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	7E-10	5E-09	0E+00	5E-10	6E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	7E-10	1E-09	0E+00	5E-10	2E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	7E-10	8E-10	0E+00	5E-10	2E-09
2,3,7,8-TCDD-TEQ	Hunting Bayou	7E-10	7E-09	0E+00	5E-10	8E-09
Nickel	Sheldon Reservoir				2E-11	
Nickel	Greens Bayou				2E-11	
Nickel	Buffalo Bayou				2E-11	
Nickel	Hunting Bayou				2E-11	
Arsenic	Sheldon Reservoir	5E-11	3E-11	0E+00	3E-09	8E-11
Arsenic	Greens Bayou	5E-11	2E-12	0E+00	3E-09	5E-11
Arsenic	Buffalo Bayou	5E-11	9E-13	0E+00	3E-09	5E-11
Arsenic	Hunting Bayou	5E-11	8E-12	0E+00	3E-09	5E-11
Beryllium	Sheldon Reservoir				4E-10	
Beryllium	Greens Bayou				4E-10	
Beryllium	Buffalo Bayou				4E-10	
Beryllium	Hunting Bayou				4E-10	
Cadmium	Sheldon Reservoir				2E-09	
Cadmium	Greens Bayou				2E-09	
Cadmium	Buffalo Bayou				2E-09	
Cadmium	Hunting Bayou				2E-09	
Chromium VI	Sheldon Reservoir				2E-08	
Chromium VI	Greens Bayou				2E-08	
Chromium VI	Buffalo Bayou				2E-08	
Chromium VI	Hunting Bayou				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	6E-08	0E+00	0E+00	1E-03	6E-08
Manganese	Greens Bayou	6E-08	0E+00	0E+00	1E-03	6E-08
Manganese	Buffalo Bayou	6E-08	0E+00	0E+00	1E-03	6E-08
Manganese	Hunting Bayou	6E-08	0E+00	0E+00	1E-03	6E-08
Mercury (elemental)	Sheldon Reservoir				6E-07	
Mercury (elemental)	Greens Bayou				6E-07	
Mercury (elemental)	Buffalo Bayou				6E-07	
Mercury (elemental)	Hunting Bayou				6E-07	
Mercury (divalent)	Sheldon Reservoir	3E-05		0E+00		3E-05
Mercury (divalent)	Greens Bayou	3E-05		0E+00		3E-05
Mercury (divalent)	Buffalo Bayou	3E-05		0E+00		3E-05
Mercury (divalent)	Hunting Bayou	3E-05		0E+00		3E-05
Nickel	Sheldon Reservoir	2E-09	4E-10	0E+00		2E-09
Nickel	Greens Bayou	2E-09	2E-11	0E+00		2E-09
Nickel	Buffalo Bayou	2E-09	1E-11	0E+00		2E-09
Nickel	Hunting Bayou	2E-09	1E-10	0E+00		2E-09
Silver	Sheldon Reservoir	6E-09	0E+00	0E+00		6E-09
Silver	Greens Bayou	6E-09	0E+00	0E+00		6E-09
Silver	Buffalo Bayou	6E-09	0E+00	0E+00		6E-09
Silver	Hunting Bayou	6E-09	0E+00	0E+00		6E-09
Thallium	Sheldon Reservoir	5E-07	3E-06	0E+00		4E-06
Thallium	Greens Bayou	5E-07	2E-07	0E+00		7E-07
Thallium	Buffalo Bayou	5E-07	8E-08	0E+00		6E-07
Thallium	Hunting Bayou	5E-07	8E-07	0E+00		1E-06

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	3E-09	0E+00	0E+00		3E-09
Antimony	Greens Bayou	3E-09	0E+00	0E+00		3E-09
Antimony	Buffalo Bayou	3E-09	0E+00	0E+00		3E-09
Antimony	Hunting Bayou	3E-09	0E+00	0E+00		3E-09
Arsenic	Sheldon Reservoir	1E-06	9E-07	0E+00		2E-06
Arsenic	Greens Bayou	1E-06	4E-08	0E+00		1E-06
Arsenic	Buffalo Bayou	1E-06	2E-08	0E+00		1E-06
Arsenic	Hunting Bayou	1E-06	2E-07	0E+00		1E-06
Barium	Sheldon Reservoir	2E-06	0E+00	0E+00	2E-04	2E-06
Barium	Greens Bayou	2E-06	0E+00	0E+00	2E-04	2E-06
Barium	Buffalo Bayou	2E-06	0E+00	0E+00	2E-04	2E-06
Barium	Hunting Bayou	2E-06	0E+00	0E+00	2E-04	2E-06
Beryllium	Sheldon Reservoir	1E-06	1E-07	0E+00		1E-06
Beryllium	Greens Bayou	1E-06	5E-09	0E+00		1E-06
Beryllium	Buffalo Bayou	1E-06	3E-09	0E+00		1E-06
Beryllium	Hunting Bayou	1E-06	3E-08	0E+00		1E-06
Cadmium	Sheldon Reservoir	2E-06	2E-05	0E+00		3E-05
Cadmium	Greens Bayou	2E-06	1E-06	0E+00		4E-06
Cadmium	Buffalo Bayou	2E-06	6E-07	0E+00		3E-06
Cadmium	Hunting Bayou	2E-06	6E-06	0E+00		8E-06
Chromium VI	Sheldon Reservoir	1E-07	3E-08	0E+00		2E-07
Chromium VI	Greens Bayou	1E-07	1E-09	0E+00		1E-07
Chromium VI	Buffalo Bayou	1E-07	7E-10	0E+00		1E-07
Chromium VI	Hunting Bayou	1E-07	6E-09	0E+00		1E-07
Chromium III	Sheldon Reservoir	1E-08	3E-11	0E+00		1E-08
Chromium III	Greens Bayou	1E-08	2E-12	0E+00		1E-08
Chromium III	Buffalo Bayou	1E-08	1E-12	0E+00		1E-08
Chromium III	Hunting Bayou	1E-08	1E-11	0E+00		1E-08
Cobalt	Sheldon Reservoir	2E-08	0E+00	0E+00		2E-08
Cobalt	Greens Bayou	2E-08	0E+00	0E+00		2E-08
Cobalt	Buffalo Bayou	2E-08	0E+00	0E+00		2E-08
Cobalt	Hunting Bayou	2E-08	0E+00	0E+00		2E-08
Hydrogen Chloride	Sheldon Reservoir				3E-05	
Hydrogen Chloride	Greens Bayou				3E-05	
Hydrogen Chloride	Buffalo Bayou				3E-05	
Hydrogen Chloride	Hunting Bayou				3E-05	
Selenium	Sheldon Reservoir	4E-08	6E-05	0E+00		6E-05
Selenium	Greens Bayou	4E-08	3E-06	0E+00		3E-06
Selenium	Buffalo Bayou	4E-08	2E-06	0E+00		2E-06
Selenium	Hunting Bayou	4E-08	1E-05	0E+00		2E-05
Chlorine	Sheldon Reservoir				8E-04	
Chlorine	Greens Bayou				8E-04	
Chlorine	Buffalo Bayou				8E-04	
Chlorine	Hunting Bayou				8E-04	
Methylmercury - Developmental Effects	Sheldon Reservoir	2E-06	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Greens Bayou	2E-06	7E-05	0E+00		8E-05
Methylmercury - Developmental Effects	Buffalo Bayou	2E-06	5E-05	0E+00		5E-05
Methylmercury - Developmental Effects	Hunting Bayou	2E-06	3E-04	0E+00		3E-04

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	6E-07	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Greens Bayou	6E-07	2E-05	0E+00		3E-05
Methylmercury - Neurological Effects	Buffalo Bayou	6E-07	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Hunting Bayou	6E-07	9E-05	0E+00		9E-05

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	3E-10	7E-09	0E+00	5E-10	7E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	3E-10	2E-09	0E+00	5E-10	2E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	3E-10	1E-09	0E+00	5E-10	1E-09
2,3,7,8-TCDD-TEQ	Hunting Bayou	3E-10	1E-08	0E+00	5E-10	1E-08
Nickel	Sheldon Reservoir				3E-11	
Nickel	Greens Bayou				3E-11	
Nickel	Buffalo Bayou				3E-11	
Nickel	Hunting Bayou				3E-11	
Arsenic	Sheldon Reservoir	2E-11	5E-11	0E+00	3E-09	6E-11
Arsenic	Greens Bayou	2E-11	2E-12	0E+00	3E-09	2E-11
Arsenic	Buffalo Bayou	2E-11	1E-12	0E+00	3E-09	2E-11
Arsenic	Hunting Bayou	2E-11	1E-11	0E+00	3E-09	3E-11
Beryllium	Sheldon Reservoir				5E-10	
Beryllium	Greens Bayou				5E-10	
Beryllium	Buffalo Bayou				5E-10	
Beryllium	Hunting Bayou				5E-10	
Cadmium	Sheldon Reservoir				2E-09	
Cadmium	Greens Bayou				2E-09	
Cadmium	Buffalo Bayou				2E-09	
Cadmium	Hunting Bayou				2E-09	
Chromium VI	Sheldon Reservoir				3E-08	
Chromium VI	Greens Bayou				3E-08	
Chromium VI	Buffalo Bayou				3E-08	
Chromium VI	Hunting Bayou				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	2E-08	0E+00	0E+00	1E-03	2E-08
Manganese	Greens Bayou	2E-08	0E+00	0E+00	1E-03	2E-08
Manganese	Buffalo Bayou	2E-08	0E+00	0E+00	1E-03	2E-08
Manganese	Hunting Bayou	2E-08	0E+00	0E+00	1E-03	2E-08
Mercury (elemental)	Sheldon Reservoir				6E-07	
Mercury (elemental)	Greens Bayou				6E-07	
Mercury (elemental)	Buffalo Bayou				6E-07	
Mercury (elemental)	Hunting Bayou				6E-07	
Mercury (divalent)	Sheldon Reservoir	8E-06		0E+00		8E-06
Mercury (divalent)	Greens Bayou	8E-06		0E+00		8E-06
Mercury (divalent)	Buffalo Bayou	8E-06		0E+00		8E-06
Mercury (divalent)	Hunting Bayou	8E-06		0E+00		8E-06
Nickel	Sheldon Reservoir	4E-10	4E-10	0E+00		9E-10
Nickel	Greens Bayou	4E-10	2E-11	0E+00		5E-10
Nickel	Buffalo Bayou	4E-10	1E-11	0E+00		5E-10
Nickel	Hunting Bayou	4E-10	1E-10	0E+00		5E-10
Silver	Sheldon Reservoir	2E-09	0E+00	0E+00		2E-09
Silver	Greens Bayou	2E-09	0E+00	0E+00		2E-09
Silver	Buffalo Bayou	2E-09	0E+00	0E+00		2E-09
Silver	Hunting Bayou	2E-09	0E+00	0E+00		2E-09
Thallium	Sheldon Reservoir	1E-07	3E-06	0E+00		3E-06
Thallium	Greens Bayou	1E-07	2E-07	0E+00		3E-07
Thallium	Buffalo Bayou	1E-07	8E-08	0E+00		2E-07
Thallium	Hunting Bayou	1E-07	8E-07	0E+00		9E-07

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	8E-10	0E+00	0E+00		8E-10
Antimony	Greens Bayou	8E-10	0E+00	0E+00		8E-10
Antimony	Buffalo Bayou	8E-10	0E+00	0E+00		8E-10
Antimony	Hunting Bayou	8E-10	0E+00	0E+00		8E-10
Arsenic	Sheldon Reservoir	3E-07	9E-07	0E+00		1E-06
Arsenic	Greens Bayou	3E-07	4E-08	0E+00		3E-07
Arsenic	Buffalo Bayou	3E-07	2E-08	0E+00		3E-07
Arsenic	Hunting Bayou	3E-07	2E-07	0E+00		5E-07
Barium	Sheldon Reservoir	6E-07	0E+00	0E+00	2E-04	6E-07
Barium	Greens Bayou	6E-07	0E+00	0E+00	2E-04	6E-07
Barium	Buffalo Bayou	6E-07	0E+00	0E+00	2E-04	6E-07
Barium	Hunting Bayou	6E-07	0E+00	0E+00	2E-04	6E-07
Beryllium	Sheldon Reservoir	3E-07	1E-07	0E+00		4E-07
Beryllium	Greens Bayou	3E-07	5E-09	0E+00		3E-07
Beryllium	Buffalo Bayou	3E-07	3E-09	0E+00		3E-07
Beryllium	Hunting Bayou	3E-07	3E-08	0E+00		3E-07
Cadmium	Sheldon Reservoir	6E-07	2E-05	0E+00		2E-05
Cadmium	Greens Bayou	6E-07	1E-06	0E+00		2E-06
Cadmium	Buffalo Bayou	6E-07	6E-07	0E+00		1E-06
Cadmium	Hunting Bayou	6E-07	6E-06	0E+00		6E-06
Chromium VI	Sheldon Reservoir	3E-08	3E-08	0E+00		6E-08
Chromium VI	Greens Bayou	3E-08	1E-09	0E+00		4E-08
Chromium VI	Buffalo Bayou	3E-08	7E-10	0E+00		3E-08
Chromium VI	Hunting Bayou	3E-08	6E-09	0E+00		4E-08
Chromium III	Sheldon Reservoir	4E-09	3E-11	0E+00		4E-09
Chromium III	Greens Bayou	4E-09	2E-12	0E+00		4E-09
Chromium III	Buffalo Bayou	4E-09	1E-12	0E+00		4E-09
Chromium III	Hunting Bayou	4E-09	1E-11	0E+00		4E-09
Cobalt	Sheldon Reservoir	4E-09	0E+00	0E+00		4E-09
Cobalt	Greens Bayou	4E-09	0E+00	0E+00		4E-09
Cobalt	Buffalo Bayou	4E-09	0E+00	0E+00		4E-09
Cobalt	Hunting Bayou	4E-09	0E+00	0E+00		4E-09
Hydrogen Chloride	Sheldon Reservoir				3E-05	
Hydrogen Chloride	Greens Bayou				3E-05	
Hydrogen Chloride	Buffalo Bayou				3E-05	
Hydrogen Chloride	Hunting Bayou				3E-05	
Selenium	Sheldon Reservoir	1E-08	6E-05	0E+00		6E-05
Selenium	Greens Bayou	1E-08	3E-06	0E+00		3E-06
Selenium	Buffalo Bayou	1E-08	2E-06	0E+00		2E-06
Selenium	Hunting Bayou	1E-08	1E-05	0E+00		1E-05
Chlorine	Sheldon Reservoir				8E-04	
Chlorine	Greens Bayou				8E-04	
Chlorine	Buffalo Bayou				8E-04	
Chlorine	Hunting Bayou				8E-04	
Methylmercury - Developmental Effects	Sheldon Reservoir	5E-07	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Greens Bayou	5E-07	7E-05	0E+00		7E-05
Methylmercury - Developmental Effects	Buffalo Bayou	5E-07	5E-05	0E+00		5E-05
Methylmercury - Developmental Effects	Hunting Bayou	5E-07	3E-04	0E+00		3E-04

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	2E-07	5E-05	0E+00		5E-05
Methylmercury - Neurological Effects	Greens Bayou	2E-07	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Buffalo Bayou	2E-07	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Hunting Bayou	2E-07	9E-05	0E+00		9E-05

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	1E-10	5E-09	0E+00	4E-10	5E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	1E-10	1E-09	0E+00	4E-10	2E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	1E-10	8E-10	0E+00	4E-10	9E-10
2,3,7,8-TCDD-TEQ	Hunting Bayou	1E-10	7E-09	0E+00	4E-10	7E-09
Nickel	Sheldon Reservoir				2E-11	
Nickel	Greens Bayou				2E-11	
Nickel	Buffalo Bayou				2E-11	
Nickel	Hunting Bayou				2E-11	
Arsenic	Sheldon Reservoir	9E-12	3E-11	0E+00	2E-09	4E-11
Arsenic	Greens Bayou	9E-12	2E-12	0E+00	2E-09	1E-11
Arsenic	Buffalo Bayou	9E-12	9E-13	0E+00	2E-09	1E-11
Arsenic	Hunting Bayou	9E-12	8E-12	0E+00	2E-09	2E-11
Beryllium	Sheldon Reservoir				3E-10	
Beryllium	Greens Bayou				3E-10	
Beryllium	Buffalo Bayou				3E-10	
Beryllium	Hunting Bayou				3E-10	
Cadmium	Sheldon Reservoir				2E-09	
Cadmium	Greens Bayou				2E-09	
Cadmium	Buffalo Bayou				2E-09	
Cadmium	Hunting Bayou				2E-09	
Chromium VI	Sheldon Reservoir				2E-08	
Chromium VI	Greens Bayou				2E-08	
Chromium VI	Buffalo Bayou				2E-08	
Chromium VI	Hunting Bayou				2E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	8E-09	0E+00	0E+00	1E-03	8E-09
Manganese	Greens Bayou	8E-09	0E+00	0E+00	1E-03	8E-09
Manganese	Buffalo Bayou	8E-09	0E+00	0E+00	1E-03	8E-09
Manganese	Hunting Bayou	8E-09	0E+00	0E+00	1E-03	8E-09
Mercury (elemental)	Sheldon Reservoir				6E-07	
Mercury (elemental)	Greens Bayou				6E-07	
Mercury (elemental)	Buffalo Bayou				6E-07	
Mercury (elemental)	Hunting Bayou				6E-07	
Mercury (divalent)	Sheldon Reservoir	4E-06		0E+00		4E-06
Mercury (divalent)	Greens Bayou	4E-06		0E+00		4E-06
Mercury (divalent)	Buffalo Bayou	4E-06		0E+00		4E-06
Mercury (divalent)	Hunting Bayou	4E-06		0E+00		4E-06
Nickel	Sheldon Reservoir	2E-10	3E-10	0E+00		5E-10
Nickel	Greens Bayou	2E-10	1E-11	0E+00		2E-10
Nickel	Buffalo Bayou	2E-10	8E-12	0E+00		2E-10
Nickel	Hunting Bayou	2E-10	7E-11	0E+00		3E-10
Silver	Sheldon Reservoir	8E-10	0E+00	0E+00		8E-10
Silver	Greens Bayou	8E-10	0E+00	0E+00		8E-10
Silver	Buffalo Bayou	8E-10	0E+00	0E+00		8E-10
Silver	Hunting Bayou	8E-10	0E+00	0E+00		8E-10
Thallium	Sheldon Reservoir	7E-08	2E-06	0E+00		2E-06
Thallium	Greens Bayou	7E-08	1E-07	0E+00		2E-07
Thallium	Buffalo Bayou	7E-08	6E-08	0E+00		1E-07
Thallium	Hunting Bayou	7E-08	6E-07	0E+00		6E-07

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	4E-10	0E+00	0E+00		4E-10
Antimony	Greens Bayou	4E-10	0E+00	0E+00		4E-10
Antimony	Buffalo Bayou	4E-10	0E+00	0E+00		4E-10
Antimony	Hunting Bayou	4E-10	0E+00	0E+00		4E-10
Arsenic	Sheldon Reservoir	2E-07	6E-07	0E+00		8E-07
Arsenic	Greens Bayou	2E-07	3E-08	0E+00		2E-07
Arsenic	Buffalo Bayou	2E-07	2E-08	0E+00		2E-07
Arsenic	Hunting Bayou	2E-07	1E-07	0E+00		3E-07
Barium	Sheldon Reservoir	3E-07	0E+00	0E+00	2E-04	3E-07
Barium	Greens Bayou	3E-07	0E+00	0E+00	2E-04	3E-07
Barium	Buffalo Bayou	3E-07	0E+00	0E+00	2E-04	3E-07
Barium	Hunting Bayou	3E-07	0E+00	0E+00	2E-04	3E-07
Beryllium	Sheldon Reservoir	1E-07	9E-08	0E+00		2E-07
Beryllium	Greens Bayou	1E-07	4E-09	0E+00		1E-07
Beryllium	Buffalo Bayou	1E-07	2E-09	0E+00		1E-07
Beryllium	Hunting Bayou	1E-07	2E-08	0E+00		2E-07
Cadmium	Sheldon Reservoir	3E-07	2E-05	0E+00		2E-05
Cadmium	Greens Bayou	3E-07	8E-07	0E+00		1E-06
Cadmium	Buffalo Bayou	3E-07	4E-07	0E+00		8E-07
Cadmium	Hunting Bayou	3E-07	4E-06	0E+00		4E-06
Chromium VI	Sheldon Reservoir	2E-08	2E-08	0E+00		4E-08
Chromium VI	Greens Bayou	2E-08	9E-10	0E+00		2E-08
Chromium VI	Buffalo Bayou	2E-08	5E-10	0E+00		2E-08
Chromium VI	Hunting Bayou	2E-08	5E-09	0E+00		2E-08
Chromium III	Sheldon Reservoir	2E-09	2E-11	0E+00		2E-09
Chromium III	Greens Bayou	2E-09	1E-12	0E+00		2E-09
Chromium III	Buffalo Bayou	2E-09	8E-13	0E+00		2E-09
Chromium III	Hunting Bayou	2E-09	7E-12	0E+00		2E-09
Cobalt	Sheldon Reservoir	2E-09	0E+00	0E+00		2E-09
Cobalt	Greens Bayou	2E-09	0E+00	0E+00		2E-09
Cobalt	Buffalo Bayou	2E-09	0E+00	0E+00		2E-09
Cobalt	Hunting Bayou	2E-09	0E+00	0E+00		2E-09
Hydrogen Chloride	Sheldon Reservoir				3E-05	
Hydrogen Chloride	Greens Bayou				3E-05	
Hydrogen Chloride	Buffalo Bayou				3E-05	
Hydrogen Chloride	Hunting Bayou				3E-05	
Selenium	Sheldon Reservoir	5E-09	4E-05	0E+00		4E-05
Selenium	Greens Bayou	5E-09	2E-06	0E+00		2E-06
Selenium	Buffalo Bayou	5E-09	1E-06	0E+00		1E-06
Selenium	Hunting Bayou	5E-09	1E-05	0E+00		1E-05
Chlorine	Sheldon Reservoir				8E-04	
Chlorine	Greens Bayou				8E-04	
Chlorine	Buffalo Bayou				8E-04	
Chlorine	Hunting Bayou				8E-04	
Methylmercury - Developmental Effects	Sheldon Reservoir	2E-07	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Greens Bayou	2E-07	5E-05	0E+00		5E-05
Methylmercury - Developmental Effects	Buffalo Bayou	2E-07	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Hunting Bayou	2E-07	2E-04	0E+00		2E-04

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	8E-08	4E-05	0E+00		4E-05
Methylmercury - Neurological Effects	Greens Bayou	8E-08	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Buffalo Bayou	8E-08	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	Hunting Bayou	8E-08	6E-05	0E+00		6E-05

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Sheldon Reservoir	1E-10	9E-09	0E+00	5E-10	9E-09
2,3,7,8-TCDD-TEQ	Greens Bayou	1E-10	3E-09	0E+00	5E-10	3E-09
2,3,7,8-TCDD-TEQ	Buffalo Bayou	1E-10	2E-09	0E+00	5E-10	2E-09
2,3,7,8-TCDD-TEQ	Hunting Bayou	1E-10	1E-08	0E+00	5E-10	1E-08
Nickel	Sheldon Reservoir				3E-11	
Nickel	Greens Bayou				3E-11	
Nickel	Buffalo Bayou				3E-11	
Nickel	Hunting Bayou				3E-11	
Arsenic	Sheldon Reservoir	7E-12	7E-11	0E+00	3E-09	7E-11
Arsenic	Greens Bayou	7E-12	3E-12	0E+00	3E-09	1E-11
Arsenic	Buffalo Bayou	7E-12	2E-12	0E+00	3E-09	8E-12
Arsenic	Hunting Bayou	7E-12	2E-11	0E+00	3E-09	2E-11
Beryllium	Sheldon Reservoir				5E-10	
Beryllium	Greens Bayou				5E-10	
Beryllium	Buffalo Bayou				5E-10	
Beryllium	Hunting Bayou				5E-10	
Cadmium	Sheldon Reservoir				2E-09	
Cadmium	Greens Bayou				2E-09	
Cadmium	Buffalo Bayou				2E-09	
Cadmium	Hunting Bayou				2E-09	
Chromium VI	Sheldon Reservoir				3E-08	
Chromium VI	Greens Bayou				3E-08	
Chromium VI	Buffalo Bayou				3E-08	
Chromium VI	Hunting Bayou				3E-08	
	Noncarcinogenic Chemicals					
Manganese	Sheldon Reservoir	3E-09	0E+00	0E+00	1E-03	3E-09
Manganese	Greens Bayou	3E-09	0E+00	0E+00	1E-03	3E-09
Manganese	Buffalo Bayou	3E-09	0E+00	0E+00	1E-03	3E-09
Manganese	Hunting Bayou	3E-09	0E+00	0E+00	1E-03	3E-09
Mercury (elemental)	Sheldon Reservoir				6E-07	
Mercury (elemental)	Greens Bayou				6E-07	
Mercury (elemental)	Buffalo Bayou				6E-07	
Mercury (elemental)	Hunting Bayou				6E-07	
Mercury (divalent)	Sheldon Reservoir	2E-06		0E+00		2E-06
Mercury (divalent)	Greens Bayou	2E-06		0E+00		2E-06
Mercury (divalent)	Buffalo Bayou	2E-06		0E+00		2E-06
Mercury (divalent)	Hunting Bayou	2E-06		0E+00		2E-06
Nickel	Sheldon Reservoir	1E-10	3E-10	0E+00		4E-10
Nickel	Greens Bayou	1E-10	1E-11	0E+00		1E-10
Nickel	Buffalo Bayou	1E-10	8E-12	0E+00		1E-10
Nickel	Hunting Bayou	1E-10	7E-11	0E+00		2E-10
Silver	Sheldon Reservoir	3E-10	0E+00	0E+00		3E-10
Silver	Greens Bayou	3E-10	0E+00	0E+00		3E-10
Silver	Buffalo Bayou	3E-10	0E+00	0E+00		3E-10
Silver	Hunting Bayou	3E-10	0E+00	0E+00		3E-10
Thallium	Sheldon Reservoir	3E-08	2E-06	0E+00		2E-06
Thallium	Greens Bayou	3E-08	1E-07	0E+00		1E-07
Thallium	Buffalo Bayou	3E-08	6E-08	0E+00		9E-08
Thallium	Hunting Bayou	3E-08	6E-07	0E+00		6E-07

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Sheldon Reservoir	2E-10	0E+00	0E+00		2E-10
Antimony	Greens Bayou	2E-10	0E+00	0E+00		2E-10
Antimony	Buffalo Bayou	2E-10	0E+00	0E+00		2E-10
Antimony	Hunting Bayou	2E-10	0E+00	0E+00		2E-10
Arsenic	Sheldon Reservoir	6E-08	6E-07	0E+00		7E-07
Arsenic	Greens Bayou	6E-08	3E-08	0E+00		9E-08
Arsenic	Buffalo Bayou	6E-08	2E-08	0E+00		8E-08
Arsenic	Hunting Bayou	6E-08	1E-07	0E+00		2E-07
Barium	Sheldon Reservoir	1E-07	0E+00	0E+00	2E-04	1E-07
Barium	Greens Bayou	1E-07	0E+00	0E+00	2E-04	1E-07
Barium	Buffalo Bayou	1E-07	0E+00	0E+00	2E-04	1E-07
Barium	Hunting Bayou	1E-07	0E+00	0E+00	2E-04	1E-07
Beryllium	Sheldon Reservoir	5E-08	9E-08	0E+00		1E-07
Beryllium	Greens Bayou	5E-08	4E-09	0E+00		6E-08
Beryllium	Buffalo Bayou	5E-08	2E-09	0E+00		6E-08
Beryllium	Hunting Bayou	5E-08	2E-08	0E+00		7E-08
Cadmium	Sheldon Reservoir	1E-07	2E-05	0E+00		2E-05
Cadmium	Greens Bayou	1E-07	8E-07	0E+00		1E-06
Cadmium	Buffalo Bayou	1E-07	4E-07	0E+00		6E-07
Cadmium	Hunting Bayou	1E-07	4E-06	0E+00		4E-06
Chromium VI	Sheldon Reservoir	7E-09	2E-08	0E+00		3E-08
Chromium VI	Greens Bayou	7E-09	9E-10	0E+00		8E-09
Chromium VI	Buffalo Bayou	7E-09	5E-10	0E+00		8E-09
Chromium VI	Hunting Bayou	7E-09	5E-09	0E+00		1E-08
Chromium III	Sheldon Reservoir	8E-10	2E-11	0E+00		8E-10
Chromium III	Greens Bayou	8E-10	1E-12	0E+00		8E-10
Chromium III	Buffalo Bayou	8E-10	8E-13	0E+00		8E-10
Chromium III	Hunting Bayou	8E-10	7E-12	0E+00		8E-10
Cobalt	Sheldon Reservoir	9E-10	0E+00	0E+00		9E-10
Cobalt	Greens Bayou	9E-10	0E+00	0E+00		9E-10
Cobalt	Buffalo Bayou	9E-10	0E+00	0E+00		9E-10
Cobalt	Hunting Bayou	9E-10	0E+00	0E+00		9E-10
Hydrogen Chloride	Sheldon Reservoir				3E-05	
Hydrogen Chloride	Greens Bayou				3E-05	
Hydrogen Chloride	Buffalo Bayou				3E-05	
Hydrogen Chloride	Hunting Bayou				3E-05	
Selenium	Sheldon Reservoir	2E-09	4E-05	0E+00		4E-05
Selenium	Greens Bayou	2E-09	2E-06	0E+00		2E-06
Selenium	Buffalo Bayou	2E-09	1E-06	0E+00		1E-06
Selenium	Hunting Bayou	2E-09	1E-05	0E+00		1E-05
Chlorine	Sheldon Reservoir				8E-04	
Chlorine	Greens Bayou				8E-04	
Chlorine	Buffalo Bayou				8E-04	
Chlorine	Hunting Bayou				8E-04	
Methylmercury - Developmental Effects	Sheldon Reservoir	1E-07	1E-04	0E+00		1E-04
Methylmercury - Developmental Effects	Greens Bayou	1E-07	5E-05	0E+00		5E-05
Methylmercury - Developmental Effects	Buffalo Bayou	1E-07	3E-05	0E+00		3E-05
Methylmercury - Developmental Effects	Hunting Bayou	1E-07	2E-04	0E+00		2E-04

Table IX-E48. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Number B44) - Sector 7

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Sheldon Reservoir	3E-08	4E-05	0E+00		4E-05
Methylmercury - Neurological Effects	Greens Bayou	3E-08	2E-05	0E+00		2E-05
Methylmercury - Neurological Effects	Buffalo Bayou	3E-08	1E-05	0E+00		1E-05
Methylmercury - Neurological Effects	Hunting Bayou	3E-08	6E-05	0E+00		6E-05

Table IX-E49. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (0-5) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	2E-11	4E-12	1E-12	8E-12	2E-09	2E-08	1E-10	6E-10	3E-10	9E-10	9E-13	2E-11	3E-08
Nickel												6E-12	
Arsenic	1E-12	3E-13	1E-13	6E-13	2E-12	3E-12	2E-13			3E-11	2E-12	4E-11	4E-11
Beryllium												1E-11	
Cadmium												8E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	1E-08	8E-09	4E-09	2E-08	4E-09	2E-07	4E-10			0E+00	1E-08	1E-04	2E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	9E-06	1E-08	2E-05	7E-06	1E-04	3E-09				3E-09		1E-04
Nickel	1E-09	3E-10	1E-10	6E-10	6E-09	5E-08	5E-10			7E-09	2E-09		7E-08
Silver	2E-11	2E-10	6E-11	4E-10	2E-09	6E-07	6E-11			0E+00	2E-09		6E-07
Thallium	8E-08	3E-09	2E-10	7E-09	9E-07	2E-06	2E-07			1E-05	6E-08		2E-05
Antimony	9E-10	3E-09	9E-10	6E-09	6E-09	4E-08	3E-10			0E+00	2E-08		7E-08
Arsenic	4E-08	7E-09	3E-09	1E-08	4E-08	7E-08	4E-09			7E-07	5E-08		1E-06
Barium	2E-09	2E-10	5E-11	4E-10	9E-11	1E-08	1E-11			0E+00	2E-10	2E-07	1E-08
Beryllium	2E-08	3E-10	5E-11	7E-10	3E-09	1E-10	9E-10			1E-08	3E-09		4E-08
Cadmium	2E-07	8E-08	4E-08	2E-07	1E-08	4E-08	2E-09			4E-05	2E-07		4E-05
Chromium VI	3E-09	4E-10	2E-10	1E-09	1E-08	2E-07	1E-09			2E-08	7E-09		3E-07
Chromium III	1E-10	2E-12	1E-12	4E-12	1E-10	1E-09	4E-11			1E-13	1E-13		2E-09
Cobalt	4E-09	4E-10	2E-12	9E-10	3E-08	2E-07	5E-09			0E+00	4E-09		2E-07
Hydrogen Chloride												9E-06	
Selenium	3E-10	2E-10	2E-10	4E-10	3E-09	2E-07	1E-08			2E-05	3E-09		2E-05
Chlorine												6E-04	
Methylmercury - Developmental Effects	6E-09	3E-06	2E-09	3E-06	6E-06	9E-05	1E-09			3E-04	3E-11		4E-04
Methylmercury - Neurological Effects	2E-09	1E-06	5E-10	9E-07	2E-06	3E-05	3E-10			9E-05	1E-11		1E-04

Table IX-E49. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (6-11) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	8E-12	3E-12	9E-13	1E-11	3E-09	1E-08	1E-10	5E-10	3E-10	1E-09	7E-13	2E-11	2E-08
Nickel												7E-12	
Arsenic	5E-13	2E-13	1E-13	7E-13	3E-12	2E-12	1E-13			3E-11	2E-12	5E-11	4E-11
Beryllium												1E-11	
Cadmium												9E-11	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	4E-09	4E-09	3E-09	1E-08	4E-09	9E-08	2E-10			0E+00	6E-09	1E-04	1E-07
Mercury (elemental)												3E-06	
Mercury (divalent)	NA	5E-06	8E-09	2E-05	9E-06	5E-05	2E-09				2E-09		8E-05
Nickel	3E-10	1E-10	8E-11	6E-10	7E-09	3E-08	3E-10			6E-09	1E-09		4E-08
Silver	5E-12	8E-11	4E-11	3E-10	2E-09	3E-07	4E-11			0E+00	9E-10		3E-07
Thallium	2E-08	1E-09	1E-10	7E-09	1E-06	1E-06	1E-07			9E-06	3E-08		1E-05
Antimony	2E-10	2E-09	6E-10	6E-09	7E-09	2E-08	2E-10			0E+00	1E-08		4E-08
Arsenic	9E-09	4E-09	2E-09	1E-08	5E-08	4E-08	3E-09			6E-07	3E-08		7E-07
Barium	5E-10	1E-10	3E-11	4E-10	1E-10	6E-09	8E-12			0E+00	1E-10	2E-07	7E-09
Beryllium	5E-09	1E-10	3E-11	6E-10	3E-09	6E-11	6E-10			9E-09	2E-09		2E-08
Cadmium	4E-08	5E-08	3E-08	2E-07	1E-08	2E-08	1E-09			3E-05	9E-08		3E-05
Chromium VI	8E-10	2E-10	1E-10	1E-09	2E-08	1E-07	7E-10			1E-08	4E-09		1E-07
Chromium III	4E-11	9E-13	7E-13	4E-12	1E-10	7E-10	2E-11			9E-14	8E-14		9E-10
Cobalt	1E-09	2E-10	2E-12	9E-10	4E-08	9E-08	3E-09			0E+00	2E-09		1E-07
Hydrogen Chloride												9E-06	
Selenium	9E-11	9E-11	2E-10	4E-10	3E-09	1E-07	7E-09			1E-05	2E-09		1E-05
Chlorine												6E-04	
Methylmercury - Developmental Effects	2E-09	2E-06	1E-09	3E-06	7E-06	5E-05	6E-10			2E-04	2E-11		3E-04
Methylmercury - Neurological Effects	5E-10	5E-07	4E-10	9E-07	2E-06	2E-05	2E-10			7E-05	6E-12		8E-05

Table IX-E49. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (12-19) Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	5E-12	2E-12	7E-13	6E-12	1E-09	7E-09	8E-11	3E-10	2E-10	5E-10	5E-13	2E-11	9E-09
Nickel												5E-12	
Arsenic	3E-13	1E-13	7E-14	4E-13	1E-12	9E-13	1E-13			2E-11	1E-12	3E-11	2E-11
Beryllium												8E-12	
Cadmium												6E-11	
Chromium VI												2E-10	
	Noncarcinogenic Chemicals												
Manganese	2E-09	3E-09	2E-09	8E-09	2E-09	4E-08	1E-10			0E+00	4E-09	1E-04	6E-08
Mercury (elemental)												3E-06	
Mercury (divalent)	1E-08	4E-06	6E-09	9E-06	4E-06	2E-05	1E-09			0E+00	1E-09		4E-05
Nickel	1E-10	1E-10	6E-11	3E-10	3E-09	1E-08	2E-10			3E-09	8E-10		2E-08
Silver	3E-12	7E-11	3E-11	2E-10	8E-10	1E-07	2E-11			0E+00	6E-10		1E-07
Thallium	1E-08	1E-09	9E-11	4E-09	5E-07	6E-07	7E-08			5E-06	2E-08		6E-06
Antimony	1E-10	1E-09	5E-10	3E-09	3E-09	8E-09	1E-10			0E+00	7E-09		2E-08
Arsenic	5E-09	3E-09	2E-09	8E-09	2E-08	2E-08	2E-09			3E-07	2E-08		4E-07
Barium	3E-10	8E-11	2E-11	2E-10	5E-11	3E-09	5E-12			0E+00	9E-11	2E-07	3E-09
Beryllium	3E-09	1E-10	2E-11	3E-10	2E-09	3E-11	4E-10			5E-09	1E-09		1E-08
Cadmium	2E-08	4E-08	2E-08	8E-08	6E-09	9E-09	9E-10			2E-05	6E-08		2E-05
Chromium VI	4E-10	2E-10	1E-10	5E-10	7E-09	5E-08	5E-10			7E-09	3E-09		7E-08
Chromium III	2E-11	7E-13	5E-13	2E-12	6E-11	3E-10	1E-11			5E-14	5E-14		4E-10
Cobalt	6E-10	2E-10	1E-12	4E-10	2E-08	4E-08	2E-09			0E+00	2E-09		7E-08
Hydrogen Chloride												9E-06	
Selenium	5E-11	7E-11	1E-10	2E-10	1E-09	6E-08	5E-09			7E-06	1E-09		7E-06
Chlorine												6E-04	
Methylmercury - Developmental Effects	8E-10	1E-06	7E-10	1E-06	3E-06	2E-05	4E-10			1E-04	1E-11		1E-04
Methylmercury - Neurological Effects	3E-10	4E-07	2E-10	5E-07	1E-06	7E-06	1E-10			3E-05	4E-12		4E-05

Table IX-E49. Individual Risks and Hazard Quotients by Pathway for the Subsistence Farmer, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Adult Subsistence Farmer												
Constituent	Soil Ingestion	Above-ground Produce Ingestion	Below-ground Vegetable Ingestion	Fruit Ingestion	Beef Ingestion	Milk Ingestion	Pork Ingestion	Egg Ingestion	Poultry Ingestion	Fish Ingestion from Farm Ponds	Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals												
2,3,7,8-TCDD-TEQ	3E-12	6E-12	1E-12	1E-11	3E-09	6E-09	1E-10	5E-10	3E-10	1E-09	1E-12	2E-11	1E-08
Nickel												7E-12	
Arsenic	2E-13	3E-13	1E-13	6E-13	3E-12	8E-13	2E-13			3E-11	2E-12	5E-11	4E-11
Beryllium												1E-11	
Cadmium												9E-11	
Chromium VI												3E-10	
	Noncarcinogenic Chemicals												
Manganese	8E-10	5E-09	2E-09	7E-09	2E-09	2E-08	1E-10			0E+00	5E-09	1E-04	4E-08
Mercury (elemental)												3E-06	
Mercury (divalent)	6E-09	5E-06	6E-09	8E-06	4E-06	1E-05	1E-09			0E+00	1E-09		3E-05
Nickel	6E-11	1E-10	7E-11	3E-10	3E-09	5E-09	2E-10			3E-09	1E-09		1E-08
Silver	1E-12	9E-11	4E-11	2E-10	1E-09	6E-08	2E-11			0E+00	7E-10		6E-08
Thallium	5E-09	2E-09	1E-10	3E-09	6E-07	2E-07	6E-08			5E-06	2E-08		6E-06
Antimony	5E-11	2E-09	5E-10	3E-09	4E-09	4E-09	9E-11			0E+00	8E-09		2E-08
Arsenic	2E-09	4E-09	2E-09	7E-09	3E-08	7E-09	1E-09			3E-07	2E-08		4E-07
Barium	1E-10	1E-10	3E-11	2E-10	6E-11	1E-09	5E-12			0E+00	1E-10	2E-07	2E-09
Beryllium	1E-09	1E-10	3E-11	3E-10	2E-09	1E-11	3E-10			5E-09	1E-09		1E-08
Cadmium	1E-08	5E-08	2E-08	8E-08	7E-09	4E-09	8E-10			2E-05	7E-08		2E-05
Chromium VI	2E-10	2E-10	1E-10	5E-10	8E-09	2E-08	4E-10			8E-09	3E-09		4E-08
Chromium III	8E-12	9E-13	6E-13	2E-12	7E-11	1E-10	1E-11			5E-14	6E-14		2E-10
Cobalt	2E-10	2E-10	1E-12	4E-10	2E-08	2E-08	2E-09			0E+00	2E-09		4E-08
Hydrogen Chloride												9E-06	
Selenium	2E-11	9E-11	1E-10	2E-10	2E-09	2E-08	4E-09			8E-06	1E-09		8E-06
Chlorine												6E-04	
Methylmercury - Developmental Effects	3E-10	2E-06	9E-10	1E-06	4E-06	9E-06	3E-10			1E-04	1E-11		1E-04
Methylmercury - Neurological Effects	1E-10	6E-07	3E-10	4E-07	1E-06	3E-06	1E-10			4E-05	5E-12		4E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Soldier Creek	2E-11	2E-09	9E-13	2E-11	2E-09
2,3,7,8-TCDD-TEQ	Box Elder Wash	2E-11	2E-08	9E-13	2E-11	2E-08
2,3,7,8-TCDD-TEQ	Blue Lakes	2E-11	4E-10	9E-13	2E-11	4E-10
2,3,7,8-TCDD-TEQ	Rush Lake	2E-11	7E-09	9E-13	2E-11	7E-09
Nickel	Soldier Creek				6E-12	
Nickel	Box Elder Wash				6E-12	
Nickel	Blue Lakes				6E-12	
Nickel	Rush Lake				6E-12	
Arsenic	Soldier Creek	1E-12	2E-13	2E-12	4E-11	4E-12
Arsenic	Box Elder Wash	1E-12	2E-10	2E-12	4E-11	2E-10
Arsenic	Blue Lakes	1E-12	4E-12	2E-12	4E-11	7E-12
Arsenic	Rush Lake	1E-12	6E-12	2E-12	4E-11	9E-12
Beryllium	Soldier Creek				1E-11	
Beryllium	Box Elder Wash				1E-11	
Beryllium	Blue Lakes				1E-11	
Beryllium	Rush Lake				1E-11	
Cadmium	Soldier Creek				8E-11	
Cadmium	Box Elder Wash				8E-11	
Cadmium	Blue Lakes				8E-11	
Cadmium	Rush Lake				8E-11	
Chromium VI	Soldier Creek				2E-10	
Chromium VI	Box Elder Wash				2E-10	
Chromium VI	Blue Lakes				2E-10	
Chromium VI	Rush Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Soldier Creek	1E-08	0E+00	1E-08	1E-04	3E-08
Manganese	Box Elder Wash	1E-08	0E+00	1E-08	1E-04	3E-08
Manganese	Blue Lakes	1E-08	0E+00	1E-08	1E-04	3E-08
Manganese	Rush Lake	1E-08	0E+00	1E-08	1E-04	3E-08
Mercury (elemental)	Soldier Creek				3E-06	
Mercury (elemental)	Box Elder Wash				3E-06	
Mercury (elemental)	Blue Lakes				3E-06	
Mercury (elemental)	Rush Lake				3E-06	
Mercury (divalent)	Soldier Creek	1E-07		3E-09		1E-07
Mercury (divalent)	Box Elder Wash	1E-07		3E-09		1E-07
Mercury (divalent)	Blue Lakes	1E-07		3E-09		1E-07
Mercury (divalent)	Rush Lake	1E-07		3E-09		1E-07
Nickel	Soldier Creek	1E-09	5E-11	2E-09		3E-09
Nickel	Box Elder Wash	1E-09	4E-08	2E-09		5E-08
Nickel	Blue Lakes	1E-09	9E-10	2E-09		4E-09
Nickel	Rush Lake	1E-09	1E-09	2E-09		5E-09
Silver	Soldier Creek	2E-11	0E+00	2E-09		2E-09
Silver	Box Elder Wash	2E-11	0E+00	2E-09		2E-09
Silver	Blue Lakes	2E-11	0E+00	2E-09		2E-09
Silver	Rush Lake	2E-11	0E+00	2E-09		2E-09
Thallium	Soldier Creek	8E-08	1E-07	6E-08		3E-07
Thallium	Box Elder Wash	8E-08	7E-05	6E-08		7E-05
Thallium	Blue Lakes	8E-08	2E-06	6E-08		2E-06
Thallium	Rush Lake	8E-08	3E-06	6E-08		3E-06

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Soldier Creek	9E-10	0E+00	2E-08		2E-08
Antimony	Box Elder Wash	9E-10	0E+00	2E-08		2E-08
Antimony	Blue Lakes	9E-10	0E+00	2E-08		2E-08
Antimony	Rush Lake	9E-10	0E+00	2E-08		2E-08
Arsenic	Soldier Creek	4E-08	6E-09	5E-08		1E-07
Arsenic	Box Elder Wash	4E-08	5E-06	5E-08		5E-06
Arsenic	Blue Lakes	4E-08	1E-07	5E-08		2E-07
Arsenic	Rush Lake	4E-08	1E-07	5E-08		2E-07
Barium	Soldier Creek	2E-09	0E+00	2E-10	2E-07	2E-09
Barium	Box Elder Wash	2E-09	0E+00	2E-10	2E-07	2E-09
Barium	Blue Lakes	2E-09	0E+00	2E-10	2E-07	2E-09
Barium	Rush Lake	2E-09	0E+00	2E-10	2E-07	2E-09
Beryllium	Soldier Creek	2E-08	2E-09	3E-09		2E-08
Beryllium	Box Elder Wash	2E-08	7E-08	3E-09		9E-08
Beryllium	Blue Lakes	2E-08	3E-08	3E-09		5E-08
Beryllium	Rush Lake	2E-08	2E-08	3E-09		4E-08
Cadmium	Soldier Creek	2E-07	4E-07	2E-07		8E-07
Cadmium	Box Elder Wash	2E-07	2E-04	2E-07		2E-04
Cadmium	Blue Lakes	2E-07	7E-06	2E-07		7E-06
Cadmium	Rush Lake	2E-07	1E-05	2E-07		1E-05
Chromium VI	Soldier Creek	3E-09	1E-10	7E-09		1E-08
Chromium VI	Box Elder Wash	3E-09	1E-07	7E-09		1E-07
Chromium VI	Blue Lakes	3E-09	2E-09	7E-09		1E-08
Chromium VI	Rush Lake	3E-09	3E-09	7E-09		1E-08
Chromium III	Soldier Creek	1E-10	1E-13	1E-13		1E-10
Chromium III	Box Elder Wash	1E-10	9E-13	1E-13		1E-10
Chromium III	Blue Lakes	1E-10	2E-13	1E-13		1E-10
Chromium III	Rush Lake	1E-10	4E-14	1E-13		1E-10
Cobalt	Soldier Creek	4E-09	0E+00	1E-13		4E-09
Cobalt	Box Elder Wash	4E-09	0E+00	1E-13		4E-09
Cobalt	Blue Lakes	4E-09	0E+00	1E-13		4E-09
Cobalt	Rush Lake	4E-09	0E+00	1E-13		4E-09
Hydrogen Chloride	Soldier Creek				9E-06	
Hydrogen Chloride	Box Elder Wash				9E-06	
Hydrogen Chloride	Blue Lakes				9E-06	
Hydrogen Chloride	Rush Lake				9E-06	
Selenium	Soldier Creek	3E-10	1E-07	3E-09		1E-07
Selenium	Box Elder Wash	3E-10	1E-04	3E-09		1E-04
Selenium	Blue Lakes	3E-10	2E-06	3E-09		2E-06
Selenium	Rush Lake	3E-10	3E-06	3E-09		3E-06
Chlorine	Soldier Creek				6E-04	
Chlorine	Box Elder Wash				6E-04	
Chlorine	Blue Lakes				6E-04	
Chlorine	Rush Lake				6E-04	
Methylmercury - Developmental Effects	Soldier Creek	6E-09	5E-06	3E-11		5E-06
Methylmercury - Developmental Effects	Box Elder Wash	6E-09	2E-05	3E-11		2E-05
Methylmercury - Developmental Effects	Blue Lakes	6E-09	5E-07	3E-11		6E-07
Methylmercury - Developmental Effects	Rush Lake	6E-09	6E-05	3E-11		6E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (0-5) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Soldier Creek	2E-09	2E-06	1E-11		2E-06
Methylmercury - Neurological Effects	Box Elder Wash	2E-09	8E-06	1E-11		8E-06
Methylmercury - Neurological Effects	Blue Lakes	2E-09	2E-07	1E-11		2E-07
Methylmercury - Neurological Effects	Rush Lake	2E-09	2E-05	1E-11		2E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Soldier Creek	8E-12	2E-09	7E-13	2E-11	2E-09
2,3,7,8-TCDD-TEQ	Box Elder Wash	8E-12	3E-08	7E-13	2E-11	3E-08
2,3,7,8-TCDD-TEQ	Blue Lakes	8E-12	5E-10	7E-13	2E-11	5E-10
2,3,7,8-TCDD-TEQ	Rush Lake	8E-12	9E-09	7E-13	2E-11	9E-09
Nickel	Soldier Creek				7E-12	
Nickel	Box Elder Wash				7E-12	
Nickel	Blue Lakes				7E-12	
Nickel	Rush Lake				7E-12	
Arsenic	Soldier Creek	5E-13	3E-13	2E-12	5E-11	2E-12
Arsenic	Box Elder Wash	5E-13	2E-10	2E-12	5E-11	2E-10
Arsenic	Blue Lakes	5E-13	5E-12	2E-12	5E-11	7E-12
Arsenic	Rush Lake	5E-13	8E-12	2E-12	5E-11	1E-11
Beryllium	Soldier Creek				1E-11	
Beryllium	Box Elder Wash				1E-11	
Beryllium	Blue Lakes				1E-11	
Beryllium	Rush Lake				1E-11	
Cadmium	Soldier Creek				9E-11	
Cadmium	Box Elder Wash				9E-11	
Cadmium	Blue Lakes				9E-11	
Cadmium	Rush Lake				9E-11	
Chromium VI	Soldier Creek				3E-10	
Chromium VI	Box Elder Wash				3E-10	
Chromium VI	Blue Lakes				3E-10	
Chromium VI	Rush Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Soldier Creek	4E-09	0E+00	6E-09	1E-04	1E-08
Manganese	Box Elder Wash	4E-09	0E+00	6E-09	1E-04	1E-08
Manganese	Blue Lakes	4E-09	0E+00	6E-09	1E-04	1E-08
Manganese	Rush Lake	4E-09	0E+00	6E-09	1E-04	1E-08
Mercury (elemental)	Soldier Creek				3E-06	
Mercury (elemental)	Box Elder Wash				3E-06	
Mercury (elemental)	Blue Lakes				3E-06	
Mercury (elemental)	Rush Lake				3E-06	
Mercury (divalent)	Soldier Creek	3E-08		2E-09		3E-08
Mercury (divalent)	Box Elder Wash	3E-08		2E-09		3E-08
Mercury (divalent)	Blue Lakes	3E-08		2E-09		3E-08
Mercury (divalent)	Rush Lake	3E-08		2E-09		3E-08
Nickel	Soldier Creek	3E-10	5E-11	1E-09		2E-09
Nickel	Box Elder Wash	3E-10	4E-08	1E-09		5E-08
Nickel	Blue Lakes	3E-10	9E-10	1E-09		2E-09
Nickel	Rush Lake	3E-10	1E-09	1E-09		3E-09
Silver	Soldier Creek	5E-12	0E+00	9E-10		9E-10
Silver	Box Elder Wash	5E-12	0E+00	9E-10		9E-10
Silver	Blue Lakes	5E-12	0E+00	9E-10		9E-10
Silver	Rush Lake	5E-12	0E+00	9E-10		9E-10
Thallium	Soldier Creek	2E-08	1E-07	3E-08		2E-07
Thallium	Box Elder Wash	2E-08	7E-05	3E-08		7E-05
Thallium	Blue Lakes	2E-08	2E-06	3E-08		2E-06
Thallium	Rush Lake	2E-08	3E-06	3E-08		3E-06

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Soldier Creek	2E-10	0E+00	1E-08		1E-08
Antimony	Box Elder Wash	2E-10	0E+00	1E-08		1E-08
Antimony	Blue Lakes	2E-10	0E+00	1E-08		1E-08
Antimony	Rush Lake	2E-10	0E+00	1E-08		1E-08
Arsenic	Soldier Creek	9E-09	6E-09	3E-08		5E-08
Arsenic	Box Elder Wash	9E-09	5E-06	3E-08		5E-06
Arsenic	Blue Lakes	9E-09	1E-07	3E-08		1E-07
Arsenic	Rush Lake	9E-09	1E-07	3E-08		2E-07
Barium	Soldier Creek	5E-10	0E+00	1E-10	2E-07	6E-10
Barium	Box Elder Wash	5E-10	0E+00	1E-10	2E-07	6E-10
Barium	Blue Lakes	5E-10	0E+00	1E-10	2E-07	6E-10
Barium	Rush Lake	5E-10	0E+00	1E-10	2E-07	6E-10
Beryllium	Soldier Creek	5E-09	2E-09	2E-09		8E-09
Beryllium	Box Elder Wash	5E-09	7E-08	2E-09		8E-08
Beryllium	Blue Lakes	5E-09	3E-08	2E-09		3E-08
Beryllium	Rush Lake	5E-09	2E-08	2E-09		2E-08
Cadmium	Soldier Creek	4E-08	4E-07	9E-08		6E-07
Cadmium	Box Elder Wash	4E-08	2E-04	9E-08		2E-04
Cadmium	Blue Lakes	4E-08	7E-06	9E-08		7E-06
Cadmium	Rush Lake	4E-08	1E-05	9E-08		1E-05
Chromium VI	Soldier Creek	8E-10	1E-10	4E-09		5E-09
Chromium VI	Box Elder Wash	8E-10	1E-07	4E-09		1E-07
Chromium VI	Blue Lakes	8E-10	2E-09	4E-09		7E-09
Chromium VI	Rush Lake	8E-10	3E-09	4E-09		8E-09
Chromium III	Soldier Creek	4E-11	1E-13	8E-14		4E-11
Chromium III	Box Elder Wash	4E-11	9E-13	8E-14		4E-11
Chromium III	Blue Lakes	4E-11	2E-13	8E-14		4E-11
Chromium III	Rush Lake	4E-11	4E-14	8E-14		4E-11
Cobalt	Soldier Creek	1E-09	0E+00	8E-14		1E-09
Cobalt	Box Elder Wash	1E-09	0E+00	8E-14		1E-09
Cobalt	Blue Lakes	1E-09	0E+00	8E-14		1E-09
Cobalt	Rush Lake	1E-09	0E+00	8E-14		1E-09
Hydrogen Chloride	Soldier Creek				9E-06	
Hydrogen Chloride	Box Elder Wash				9E-06	
Hydrogen Chloride	Blue Lakes				9E-06	
Hydrogen Chloride	Rush Lake				9E-06	
Selenium	Soldier Creek	9E-11	1E-07	2E-09		1E-07
Selenium	Box Elder Wash	9E-11	1E-04	2E-09		1E-04
Selenium	Blue Lakes	9E-11	2E-06	2E-09		2E-06
Selenium	Rush Lake	9E-11	3E-06	2E-09		3E-06
Chlorine	Soldier Creek				6E-04	
Chlorine	Box Elder Wash				6E-04	
Chlorine	Blue Lakes				6E-04	
Chlorine	Rush Lake				6E-04	
Methylmercury - Developmental Effects	Soldier Creek	2E-09	5E-06	2E-11		5E-06
Methylmercury - Developmental Effects	Box Elder Wash	2E-09	2E-05	2E-11		2E-05
Methylmercury - Developmental Effects	Blue Lakes	2E-09	5E-07	2E-11		5E-07
Methylmercury - Developmental Effects	Rush Lake	2E-09	6E-05	2E-11		6E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (6-11) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Soldier Creek	5E-10	2E-06	6E-12		2E-06
Methylmercury - Neurological Effects	Box Elder Wash	5E-10	8E-06	6E-12		8E-06
Methylmercury - Neurological Effects	Blue Lakes	5E-10	2E-07	6E-12		2E-07
Methylmercury - Neurological Effects	Rush Lake	5E-10	2E-05	6E-12		2E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Soldier Creek	5E-12	2E-09	5E-13	2E-11	2E-09
2,3,7,8-TCDD-TEQ	Box Elder Wash	5E-12	2E-08	5E-13	2E-11	2E-08
2,3,7,8-TCDD-TEQ	Blue Lakes	5E-12	4E-10	5E-13	2E-11	4E-10
2,3,7,8-TCDD-TEQ	Rush Lake	5E-12	7E-09	5E-13	2E-11	7E-09
Nickel	Soldier Creek				5E-12	
Nickel	Box Elder Wash				5E-12	
Nickel	Blue Lakes				5E-12	
Nickel	Rush Lake				5E-12	
Arsenic	Soldier Creek	3E-13	2E-13	1E-12	3E-11	2E-12
Arsenic	Box Elder Wash	3E-13	2E-10	1E-12	3E-11	2E-10
Arsenic	Blue Lakes	3E-13	4E-12	1E-12	3E-11	5E-12
Arsenic	Rush Lake	3E-13	6E-12	1E-12	3E-11	7E-12
Beryllium	Soldier Creek				8E-12	
Beryllium	Box Elder Wash				8E-12	
Beryllium	Blue Lakes				8E-12	
Beryllium	Rush Lake				8E-12	
Cadmium	Soldier Creek				6E-11	
Cadmium	Box Elder Wash				6E-11	
Cadmium	Blue Lakes				6E-11	
Cadmium	Rush Lake				6E-11	
Chromium VI	Soldier Creek				2E-10	
Chromium VI	Box Elder Wash				2E-10	
Chromium VI	Blue Lakes				2E-10	
Chromium VI	Rush Lake				2E-10	
	Noncarcinogenic Chemicals					
Manganese	Soldier Creek	2E-09	0E+00	4E-09	1E-04	6E-09
Manganese	Box Elder Wash	2E-09	0E+00	4E-09	1E-04	6E-09
Manganese	Blue Lakes	2E-09	0E+00	4E-09	1E-04	6E-09
Manganese	Rush Lake	2E-09	0E+00	4E-09	1E-04	6E-09
Mercury (elemental)	Soldier Creek				3E-06	
Mercury (elemental)	Box Elder Wash				3E-06	
Mercury (elemental)	Blue Lakes				3E-06	
Mercury (elemental)	Rush Lake				3E-06	
Mercury (divalent)	Soldier Creek	1E-08		1E-09		1E-08
Mercury (divalent)	Box Elder Wash	1E-08		1E-09		1E-08
Mercury (divalent)	Blue Lakes	1E-08		1E-09		1E-08
Mercury (divalent)	Rush Lake	1E-08		1E-09		1E-08
Nickel	Soldier Creek	1E-10	4E-11	8E-10		1E-09
Nickel	Box Elder Wash	1E-10	3E-08	8E-10		3E-08
Nickel	Blue Lakes	1E-10	7E-10	8E-10		2E-09
Nickel	Rush Lake	1E-10	1E-09	8E-10		2E-09
Silver	Soldier Creek	3E-12	0E+00	6E-10		6E-10
Silver	Box Elder Wash	3E-12	0E+00	6E-10		6E-10
Silver	Blue Lakes	3E-12	0E+00	6E-10		6E-10
Silver	Rush Lake	3E-12	0E+00	6E-10		6E-10
Thallium	Soldier Creek	1E-08	8E-08	2E-08		1E-07
Thallium	Box Elder Wash	1E-08	5E-05	2E-08		5E-05
Thallium	Blue Lakes	1E-08	1E-06	2E-08		1E-06
Thallium	Rush Lake	1E-08	2E-06	2E-08		2E-06

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Soldier Creek	1E-10	0E+00	7E-09		7E-09
Antimony	Box Elder Wash	1E-10	0E+00	7E-09		7E-09
Antimony	Blue Lakes	1E-10	0E+00	7E-09		7E-09
Antimony	Rush Lake	1E-10	0E+00	7E-09		7E-09
Arsenic	Soldier Creek	5E-09	4E-09	2E-08		3E-08
Arsenic	Box Elder Wash	5E-09	3E-06	2E-08		3E-06
Arsenic	Blue Lakes	5E-09	7E-08	2E-08		9E-08
Arsenic	Rush Lake	5E-09	1E-07	2E-08		1E-07
Barium	Soldier Creek	3E-10	0E+00	9E-11	2E-07	4E-10
Barium	Box Elder Wash	3E-10	0E+00	9E-11	2E-07	4E-10
Barium	Blue Lakes	3E-10	0E+00	9E-11	2E-07	4E-10
Barium	Rush Lake	3E-10	0E+00	9E-11	2E-07	4E-10
Beryllium	Soldier Creek	3E-09	1E-09	1E-09		5E-09
Beryllium	Box Elder Wash	3E-09	5E-08	1E-09		5E-08
Beryllium	Blue Lakes	3E-09	2E-08	1E-09		2E-08
Beryllium	Rush Lake	3E-09	1E-08	1E-09		2E-08
Cadmium	Soldier Creek	2E-08	3E-07	6E-08		4E-07
Cadmium	Box Elder Wash	2E-08	2E-04	6E-08		2E-04
Cadmium	Blue Lakes	2E-08	5E-06	6E-08		5E-06
Cadmium	Rush Lake	2E-08	7E-06	6E-08		7E-06
Chromium VI	Soldier Creek	4E-10	9E-11	3E-09		3E-09
Chromium VI	Box Elder Wash	4E-10	7E-08	3E-09		8E-08
Chromium VI	Blue Lakes	4E-10	2E-09	3E-09		4E-09
Chromium VI	Rush Lake	4E-10	2E-09	3E-09		5E-09
Chromium III	Soldier Creek	2E-11	8E-14	5E-14		2E-11
Chromium III	Box Elder Wash	2E-11	7E-13	5E-14		2E-11
Chromium III	Blue Lakes	2E-11	1E-13	5E-14		2E-11
Chromium III	Rush Lake	2E-11	3E-14	5E-14		2E-11
Cobalt	Soldier Creek	6E-10	0E+00	2E-09		2E-09
Cobalt	Box Elder Wash	6E-10	0E+00	2E-09		2E-09
Cobalt	Blue Lakes	6E-10	0E+00	2E-09		2E-09
Cobalt	Rush Lake	6E-10	0E+00	2E-09		2E-09
Hydrogen Chloride	Soldier Creek				9E-06	
Hydrogen Chloride	Box Elder Wash				9E-06	
Hydrogen Chloride	Blue Lakes				9E-06	
Hydrogen Chloride	Rush Lake				9E-06	
Selenium	Soldier Creek	5E-11	8E-08	1E-09		8E-08
Selenium	Box Elder Wash	5E-11	7E-05	1E-09		7E-05
Selenium	Blue Lakes	5E-11	1E-06	1E-09		1E-06
Selenium	Rush Lake	5E-11	2E-06	1E-09		2E-06
Chlorine	Soldier Creek				6E-04	
Chlorine	Box Elder Wash				6E-04	
Chlorine	Blue Lakes				6E-04	
Chlorine	Rush Lake				6E-04	
Methylmercury - Developmental Effects	Soldier Creek	8E-10	4E-06	1E-11		4E-06
Methylmercury - Developmental Effects	Box Elder Wash	8E-10	2E-05	1E-11		2E-05
Methylmercury - Developmental Effects	Blue Lakes	8E-10	4E-07	1E-11		4E-07
Methylmercury - Developmental Effects	Rush Lake	8E-10	5E-05	1E-11		5E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Child (12-19) Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Soldier Creek	3E-10	1E-06	4E-12		1E-06
Methylmercury - Neurological Effects	Box Elder Wash	3E-10	6E-06	4E-12		6E-06
Methylmercury - Neurological Effects	Blue Lakes	3E-10	1E-07	4E-12		1E-07
Methylmercury - Neurological Effects	Rush Lake	3E-10	2E-05	4E-12		2E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Carcinogenic Chemicals					
2,3,7,8-TCDD-TEQ	Soldier Creek	3E-12	3E-09	1E-12	2E-11	3E-09
2,3,7,8-TCDD-TEQ	Box Elder Wash	3E-12	4E-08	1E-12	2E-11	4E-08
2,3,7,8-TCDD-TEQ	Blue Lakes	3E-12	7E-10	1E-12	2E-11	7E-10
2,3,7,8-TCDD-TEQ	Rush Lake	3E-12	1E-08	1E-12	2E-11	1E-08
Nickel	Soldier Creek				7E-12	
Nickel	Box Elder Wash				7E-12	
Nickel	Blue Lakes				7E-12	
Nickel	Rush Lake				7E-12	
Arsenic	Soldier Creek	2E-13	4E-13	2E-12	5E-11	3E-12
Arsenic	Box Elder Wash	2E-13	3E-10	2E-12	5E-11	3E-10
Arsenic	Blue Lakes	2E-13	7E-12	2E-12	5E-11	1E-11
Arsenic	Rush Lake	2E-13	1E-11	2E-12	5E-11	1E-11
Beryllium	Soldier Creek				1E-11	
Beryllium	Box Elder Wash				1E-11	
Beryllium	Blue Lakes				1E-11	
Beryllium	Rush Lake				1E-11	
Cadmium	Soldier Creek				9E-11	
Cadmium	Box Elder Wash				9E-11	
Cadmium	Blue Lakes				9E-11	
Cadmium	Rush Lake				9E-11	
Chromium VI	Soldier Creek				3E-10	
Chromium VI	Box Elder Wash				3E-10	
Chromium VI	Blue Lakes				3E-10	
Chromium VI	Rush Lake				3E-10	
	Noncarcinogenic Chemicals					
Manganese	Soldier Creek	8E-10	0E+00	5E-09	1E-04	5E-09
Manganese	Box Elder Wash	8E-10	0E+00	5E-09	1E-04	5E-09
Manganese	Blue Lakes	8E-10	0E+00	5E-09	1E-04	5E-09
Manganese	Rush Lake	8E-10	0E+00	5E-09	1E-04	5E-09
Mercury (elemental)	Soldier Creek				3E-06	
Mercury (elemental)	Box Elder Wash				3E-06	
Mercury (elemental)	Blue Lakes				3E-06	
Mercury (elemental)	Rush Lake				3E-06	
Mercury (divalent)	Soldier Creek	6E-09		1E-09		7E-09
Mercury (divalent)	Box Elder Wash	6E-09		1E-09		7E-09
Mercury (divalent)	Blue Lakes	6E-09		1E-09		7E-09
Mercury (divalent)	Rush Lake	6E-09		1E-09		7E-09
Nickel	Soldier Creek	6E-11	4E-11	1E-09		1E-09
Nickel	Box Elder Wash	6E-11	3E-08	1E-09		3E-08
Nickel	Blue Lakes	6E-11	7E-10	1E-09		2E-09
Nickel	Rush Lake	6E-11	1E-09	1E-09		2E-09
Silver	Soldier Creek	1E-12	0E+00	7E-10		7E-10
Silver	Box Elder Wash	1E-12	0E+00	7E-10		7E-10
Silver	Blue Lakes	1E-12	0E+00	7E-10		7E-10
Silver	Rush Lake	1E-12	0E+00	7E-10		7E-10
Thallium	Soldier Creek	5E-09	8E-08	2E-08		1E-07
Thallium	Box Elder Wash	5E-09	5E-05	2E-08		5E-05
Thallium	Blue Lakes	5E-09	1E-06	2E-08		1E-06
Thallium	Rush Lake	5E-09	2E-06	2E-08		2E-06

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
	Noncarcinogenic Chemicals					
Antimony	Soldier Creek	5E-11	0E+00	8E-09		8E-09
Antimony	Box Elder Wash	5E-11	0E+00	8E-09		8E-09
Antimony	Blue Lakes	5E-11	0E+00	8E-09		8E-09
Antimony	Rush Lake	5E-11	0E+00	8E-09		8E-09
Arsenic	Soldier Creek	2E-09	4E-09	2E-08		3E-08
Arsenic	Box Elder Wash	2E-09	3E-06	2E-08		3E-06
Arsenic	Blue Lakes	2E-09	7E-08	2E-08		9E-08
Arsenic	Rush Lake	2E-09	1E-07	2E-08		1E-07
Barium	Soldier Creek	1E-10	0E+00	1E-10	2E-07	2E-10
Barium	Box Elder Wash	1E-10	0E+00	1E-10	2E-07	2E-10
Barium	Blue Lakes	1E-10	0E+00	1E-10	2E-07	2E-10
Barium	Rush Lake	1E-10	0E+00	1E-10	2E-07	2E-10
Beryllium	Soldier Creek	1E-09	1E-09	1E-09		4E-09
Beryllium	Box Elder Wash	1E-09	5E-08	1E-09		5E-08
Beryllium	Blue Lakes	1E-09	2E-08	1E-09		2E-08
Beryllium	Rush Lake	1E-09	1E-08	1E-09		2E-08
Cadmium	Soldier Creek	1E-08	3E-07	7E-08		4E-07
Cadmium	Box Elder Wash	1E-08	2E-04	7E-08		2E-04
Cadmium	Blue Lakes	1E-08	5E-06	7E-08		5E-06
Cadmium	Rush Lake	1E-08	7E-06	7E-08		7E-06
Chromium VI	Soldier Creek	2E-10	9E-11	3E-09		3E-09
Chromium VI	Box Elder Wash	2E-10	7E-08	3E-09		8E-08
Chromium VI	Blue Lakes	2E-10	2E-09	3E-09		5E-09
Chromium VI	Rush Lake	2E-10	2E-09	3E-09		5E-09
Chromium III	Soldier Creek	8E-12	8E-14	6E-14		8E-12
Chromium III	Box Elder Wash	8E-12	7E-13	6E-14		9E-12
Chromium III	Blue Lakes	8E-12	1E-13	6E-14		8E-12
Chromium III	Rush Lake	8E-12	3E-14	6E-14		8E-12
Cobalt	Soldier Creek	2E-10	0E+00	2E-09		2E-09
Cobalt	Box Elder Wash	2E-10	0E+00	2E-09		2E-09
Cobalt	Blue Lakes	2E-10	0E+00	2E-09		2E-09
Cobalt	Rush Lake	2E-10	0E+00	2E-09		2E-09
Hydrogen Chloride	Soldier Creek				9E-06	
Hydrogen Chloride	Box Elder Wash				9E-06	
Hydrogen Chloride	Blue Lakes				9E-06	
Hydrogen Chloride	Rush Lake				9E-06	
Selenium	Soldier Creek	2E-11	8E-08	1E-09		8E-08
Selenium	Box Elder Wash	2E-11	7E-05	1E-09		7E-05
Selenium	Blue Lakes	2E-11	1E-06	1E-09		1E-06
Selenium	Rush Lake	2E-11	2E-06	1E-09		2E-06
Chlorine	Soldier Creek				6E-04	
Chlorine	Box Elder Wash				6E-04	
Chlorine	Blue Lakes				6E-04	
Chlorine	Rush Lake				6E-04	
Methylmercury - Developmental Effects	Soldier Creek	3E-10	4E-06	1E-11		4E-06
Methylmercury - Developmental Effects	Box Elder Wash	3E-10	2E-05	1E-11		2E-05
Methylmercury - Developmental Effects	Blue Lakes	3E-10	4E-07	1E-11		4E-07
Methylmercury - Developmental Effects	Rush Lake	3E-10	5E-05	1E-11		5E-05

Table IX-E50. Individual Risks and Hazard Quotients by Pathway for the Subsistence Fisher, MACT_std:
Small Onsite Incinerator (Stack Numbers 493, 494) - Sector 5

	Adult Subsistence Fisher					
Constituent	Waterbody for Fish Ingestion	Soil Ingestion	Fish Ingestion from Waterbody	Maximum Drinking Water Ingestion	Direct Inhalation	All Indirect Pathways Combined
Noncarcinogenic Chemicals						
Methylmercury - Neurological Effects	Soldier Creek	1E-10	1E-06	5E-12		1E-06
Methylmercury - Neurological Effects	Box Elder Wash	1E-10	6E-06	5E-12		6E-06
Methylmercury - Neurological Effects	Blue Lakes	1E-10	1E-07	5E-12		1E-07
Methylmercury - Neurological Effects	Rush Lake	1E-10	2E-05	5E-12		2E-05