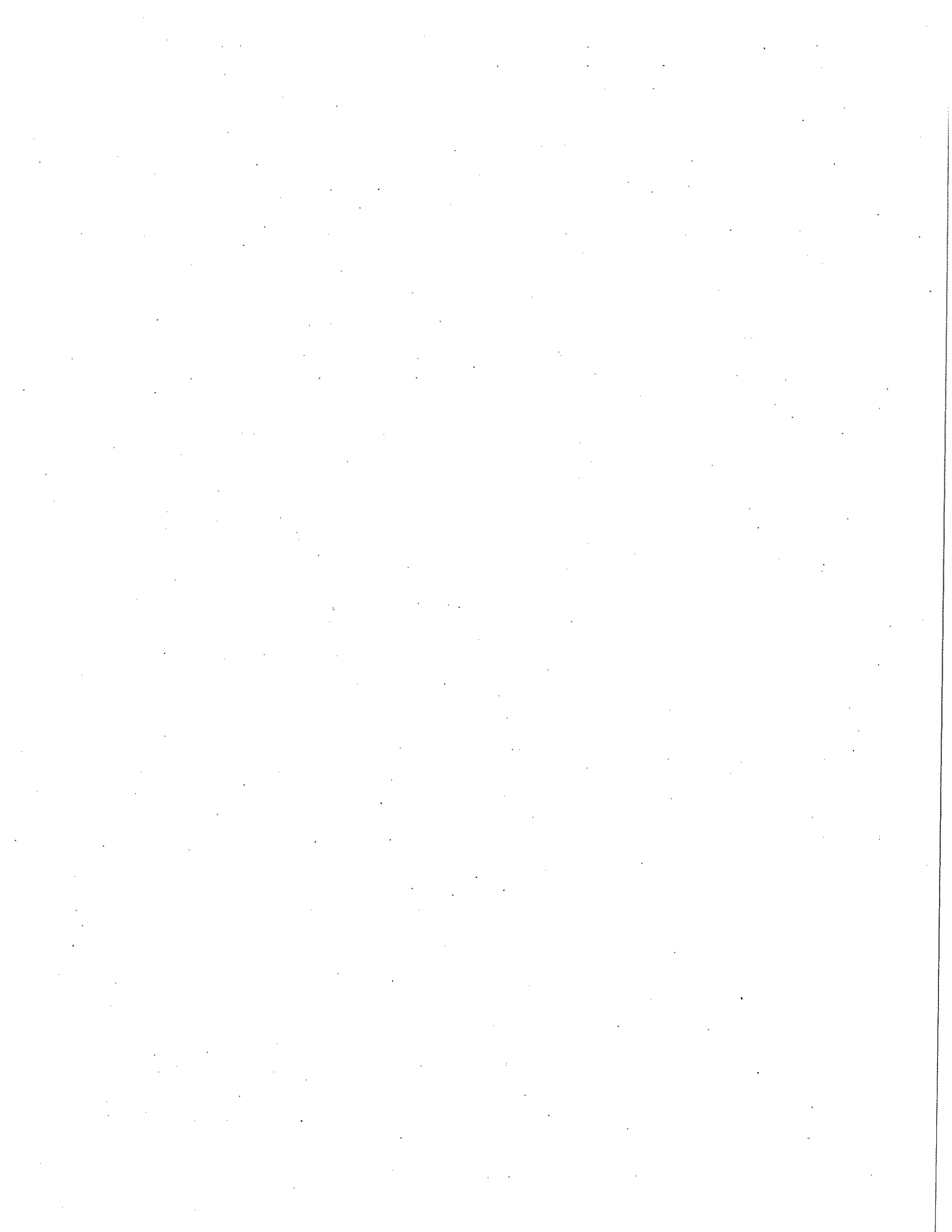


# Appendix

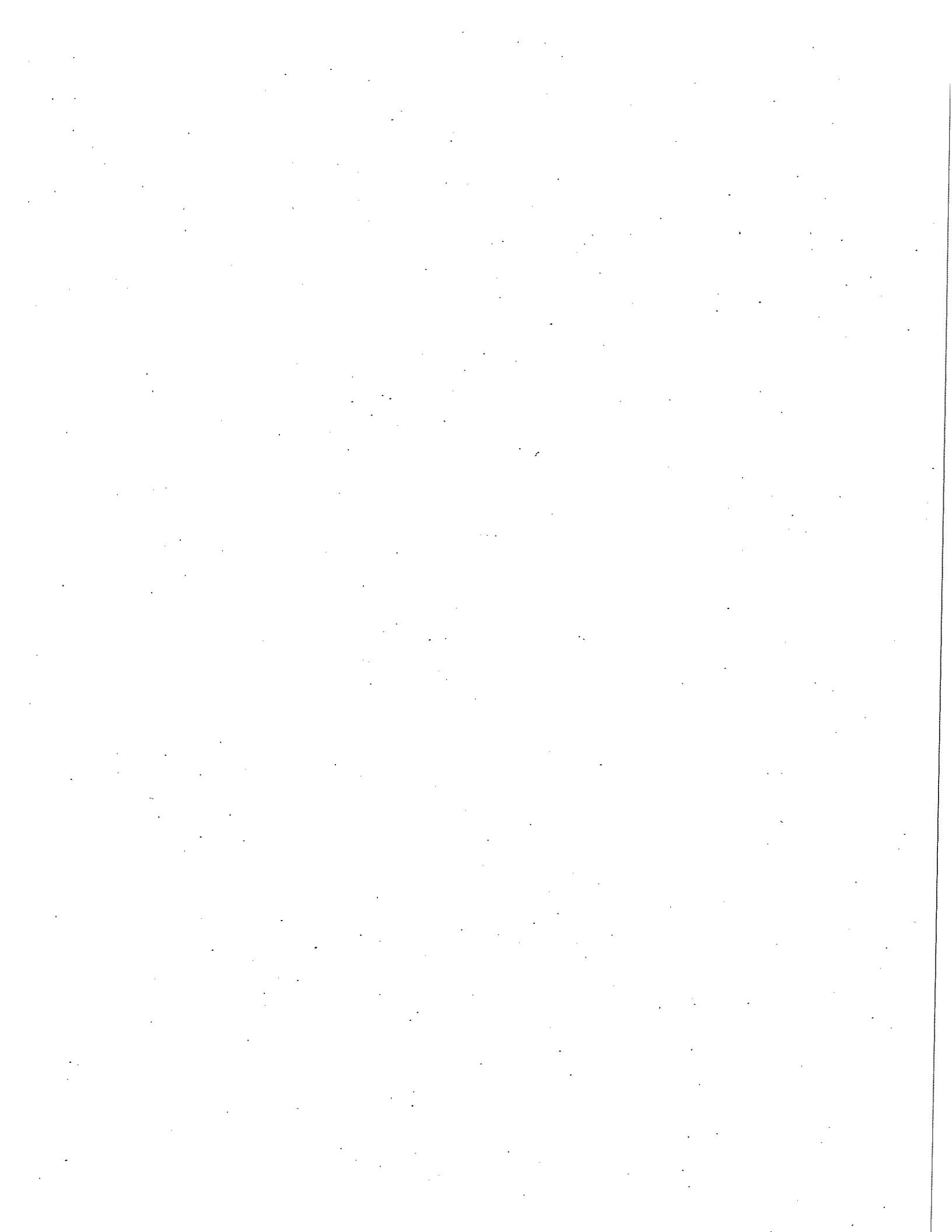
## IRAP Reports



## RISK SUMMARY

Date : 5/28/2012



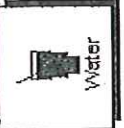




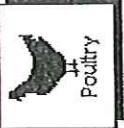


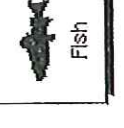
RECEPTOR NAME	SCENARIO	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	7.6066E-007	1.3387E-002
RI_1	farmer_child	1.4877E-007	1.8983E-002
RI_1	fisher_adult	4.8846E-007	2.5577E+000
RI_1	fisher_child	9.4157E-008	1.8047E+000
RI_1	resident_adult	2.7486E-007	6.0519E-003
RI_1	resident_child	6.4082E-008	8.3417E-003
RI_2	farmer_adult	7.1423E-007	1.2528E-002
RI_2	farmer_child	1.3949E-007	1.7710E-002
RI_2	fisher_adult	4.2184E-007	2.3188E+000
RI_2	fisher_child	8.2990E-008	1.6362E+000
RI_2	resident_adult	2.5783E-007	5.6344E-003
RI_2	resident_child	5.9898E-008	7.7098E-003



RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR : RI\_1

SCENARIO: farmer\_adult

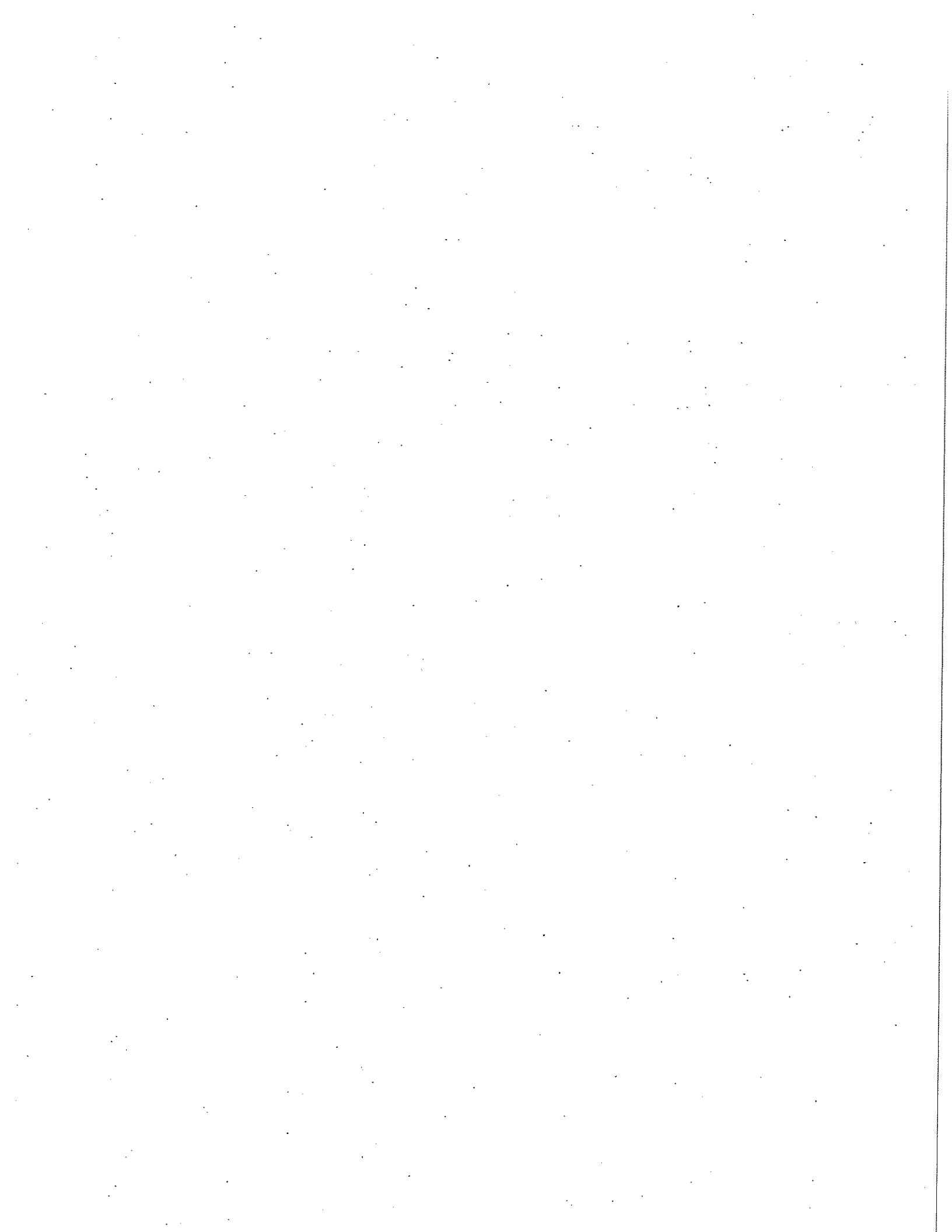
					
3.244E-007	4.087E-010	3.929E-009	5.622E-008	9.117E-008	0.000E+000
4.630E-003	6.791E-005	1.388E-004	1.550E-003	1.557E-003	
					
2.806E-007	8.364E-011	5.404E-011	4.707E-009	0.000E+000	
5.303E-003	1.651E-005	1.772E-005	9.601E-005	0.000E+000	

CANCER:

HAZARD:

CANCER:











HAZARD:

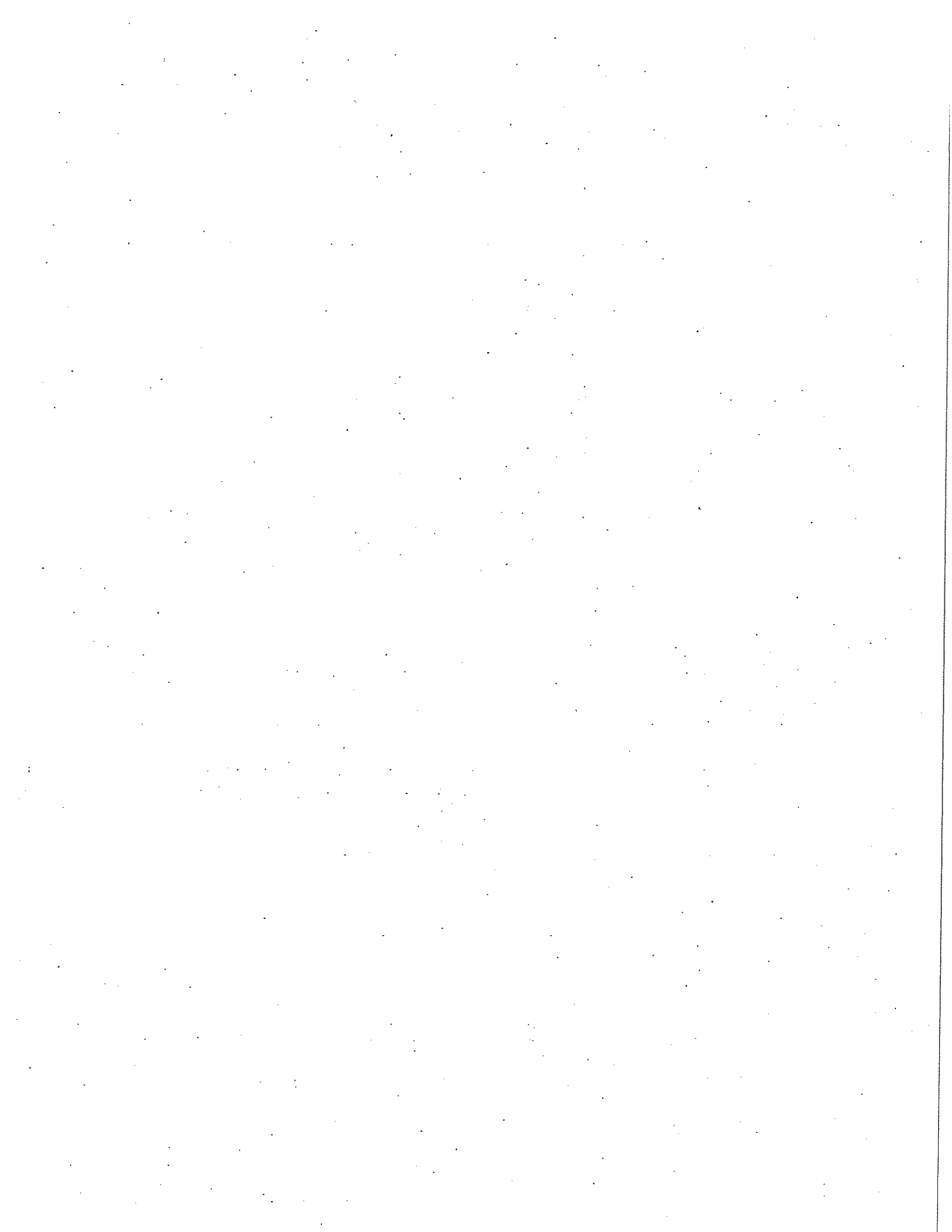


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RL1

SCENARIO: farmer\_child

	4.867E-008	1.314E-009	1.980E-008	8.361E-009	0.000E+000
	4.630E-003	3.101E-004	3.557E-003	8.573E-004	0.000E+000
	6.958E-008				
8.798E-003				5.170E-010	0.000E+000
	5.258E-012	7.331E-005	7.725E-012	0.000E+000	0.000E+000
	1.276E-005	1.128E-005	1.288E-005		
















RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR : RL\_1

SCENARIO: fisher\_adult

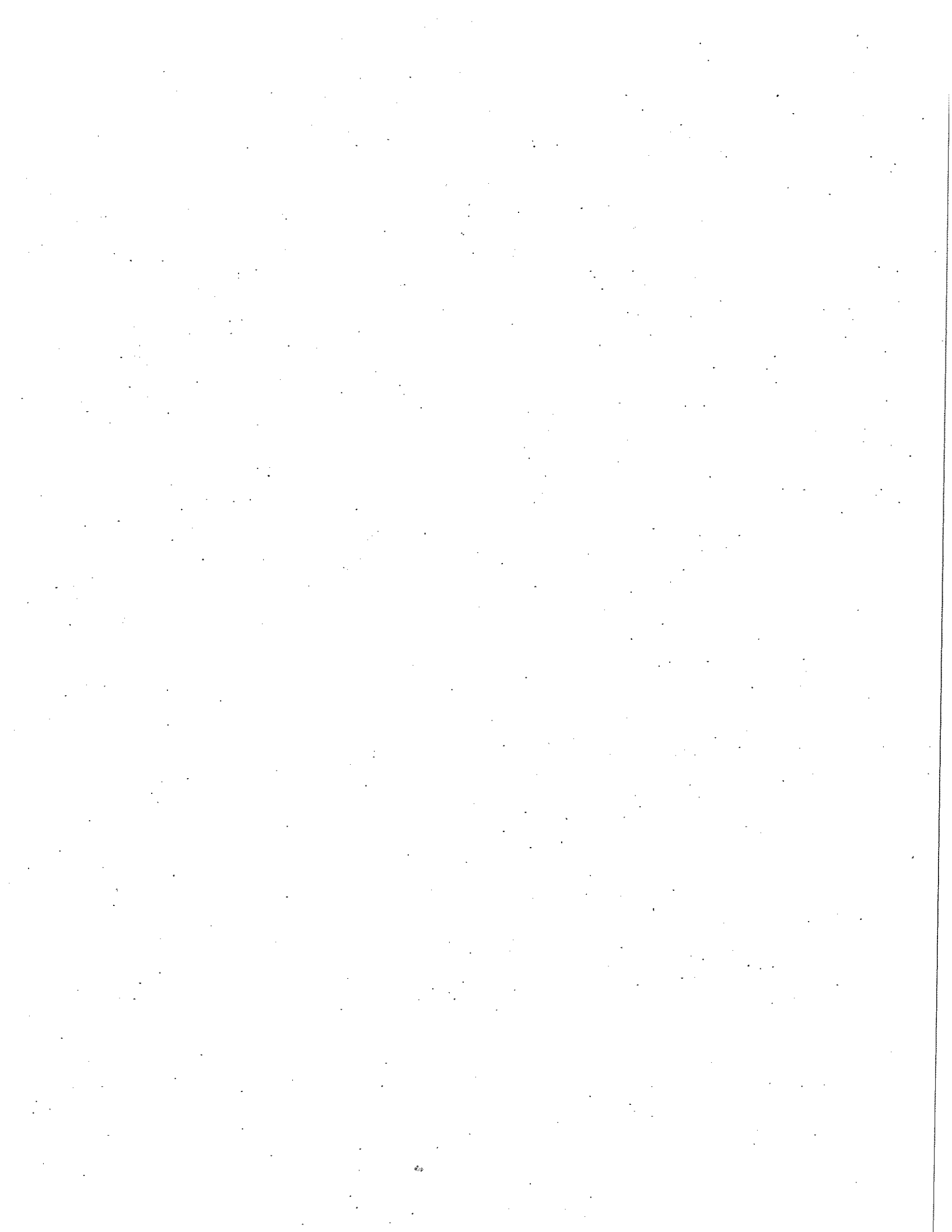
	2.433E-007	0.000E+000		0.000E+000	0.000E+000
	2.762E-010	0.000E+000		0.000E+000	0.000E+000
	2.941E-009	0.000E+000		0.000E+000	0.000E+000
	2.831E-008	0.000E+000		0.000E+000	0.000E+000
	0.000E+000	0.000E+000		2.136E-007	2.552E+000
	0.000E+000	0.000E+000			

CANCER:

HAZARD:

CANCER:












HAZARD:



RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RI\_1

SCENARIO: fisher\_child

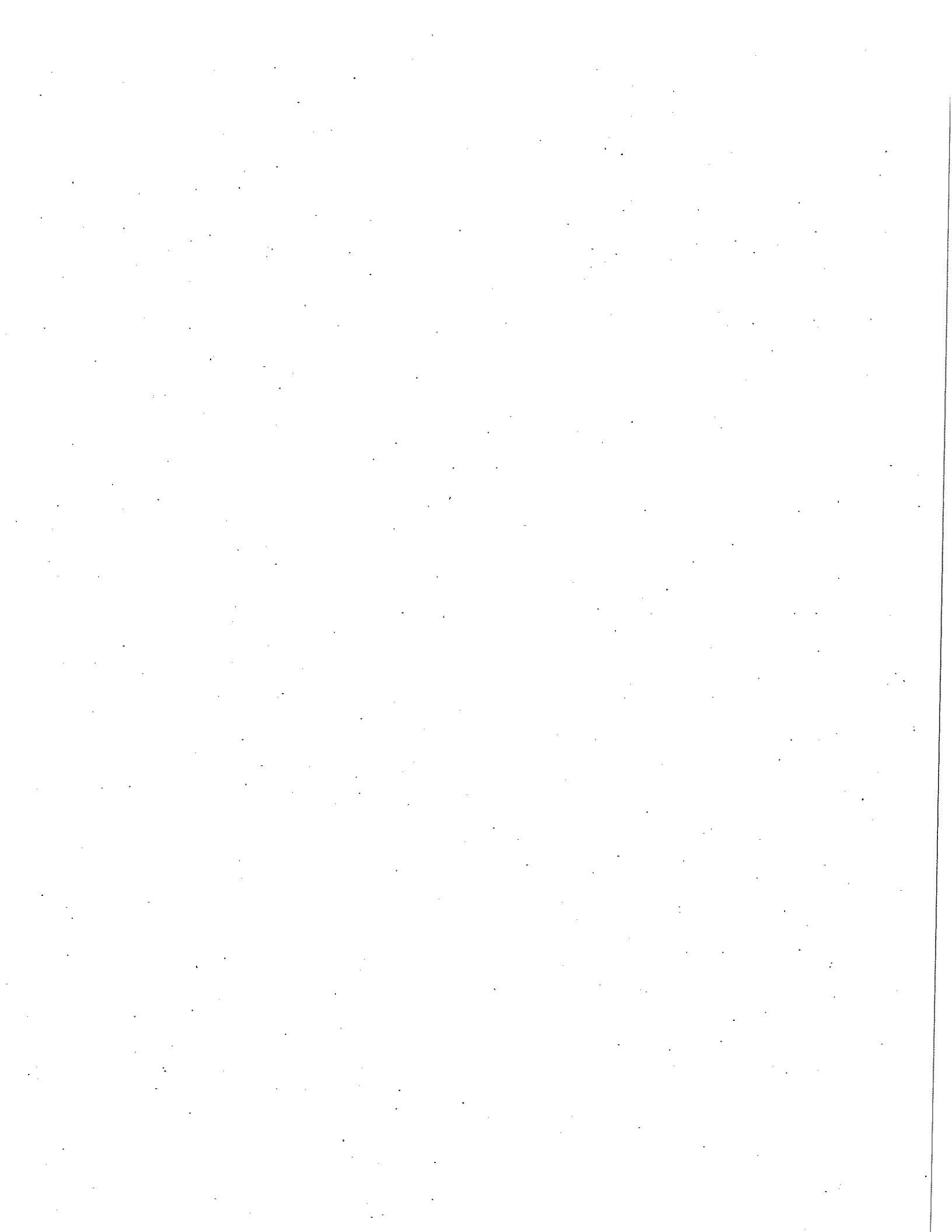
	Inhalation	4.867E-008	0.000E+000		Milk	0.000E+000	0.000E+000
	Soil	5.165E-010	0.000E+000		Poultry	0.000E+000	0.000E+000
	Water	1.314E-009	0.000E+000		Eggs	0.000E+000	0.000E+000
	Produce	1.359E-008	2.768E-003		Pork	0.000E+000	0.000E+000
	Beef	0.000E+000	0.000E+000		Fish	3.007E-008	1.796E+000
	Acute Inhalation	0.000E+000	0.000E+000				

CANCER:

HAZARD:

CANCER:














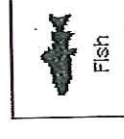



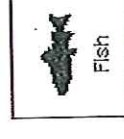




HAZARD:



RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR : RL\_1

SCENARIO: resident\_adult

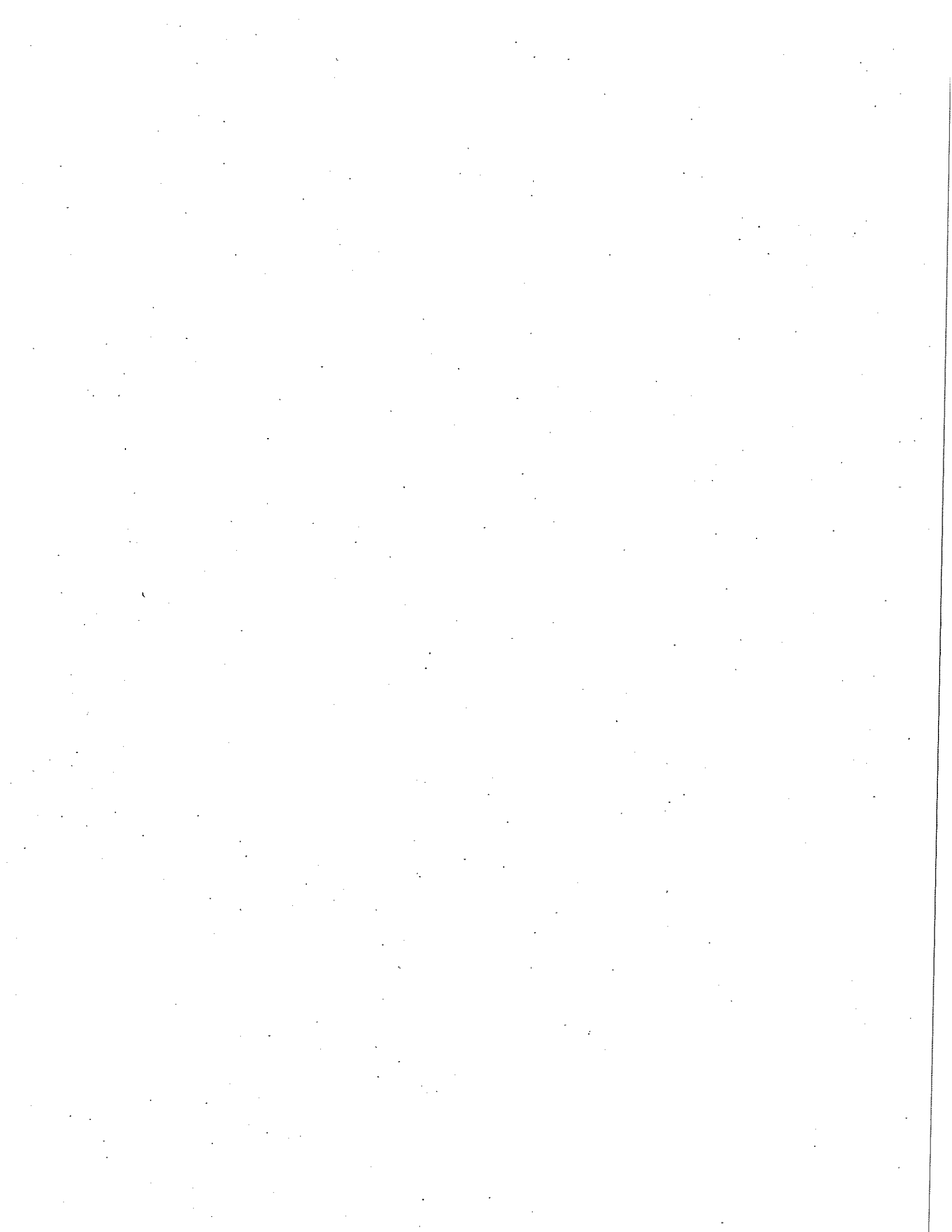
	2.433E-007		2.941E-008		2.831E-008		0.000E+000		0.000E+000
	4.630E-003		1.388E-004		1.215E-003		0.000E+000		0.000E+000
	0.000E+000		0.000E+000		0.000E+000		0.000E+000		
	0.000E+000		0.000E+000		0.000E+000		0.000E+000		
			0.000E+000						
			0.000E+000						
			2.762E-010						
			6.791E-005						

CANCER:

HAZARD:

CANCER:






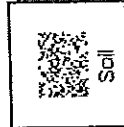




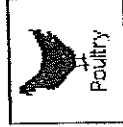
HAZARD:



RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR : RL1

SCENARIO: resident\_child

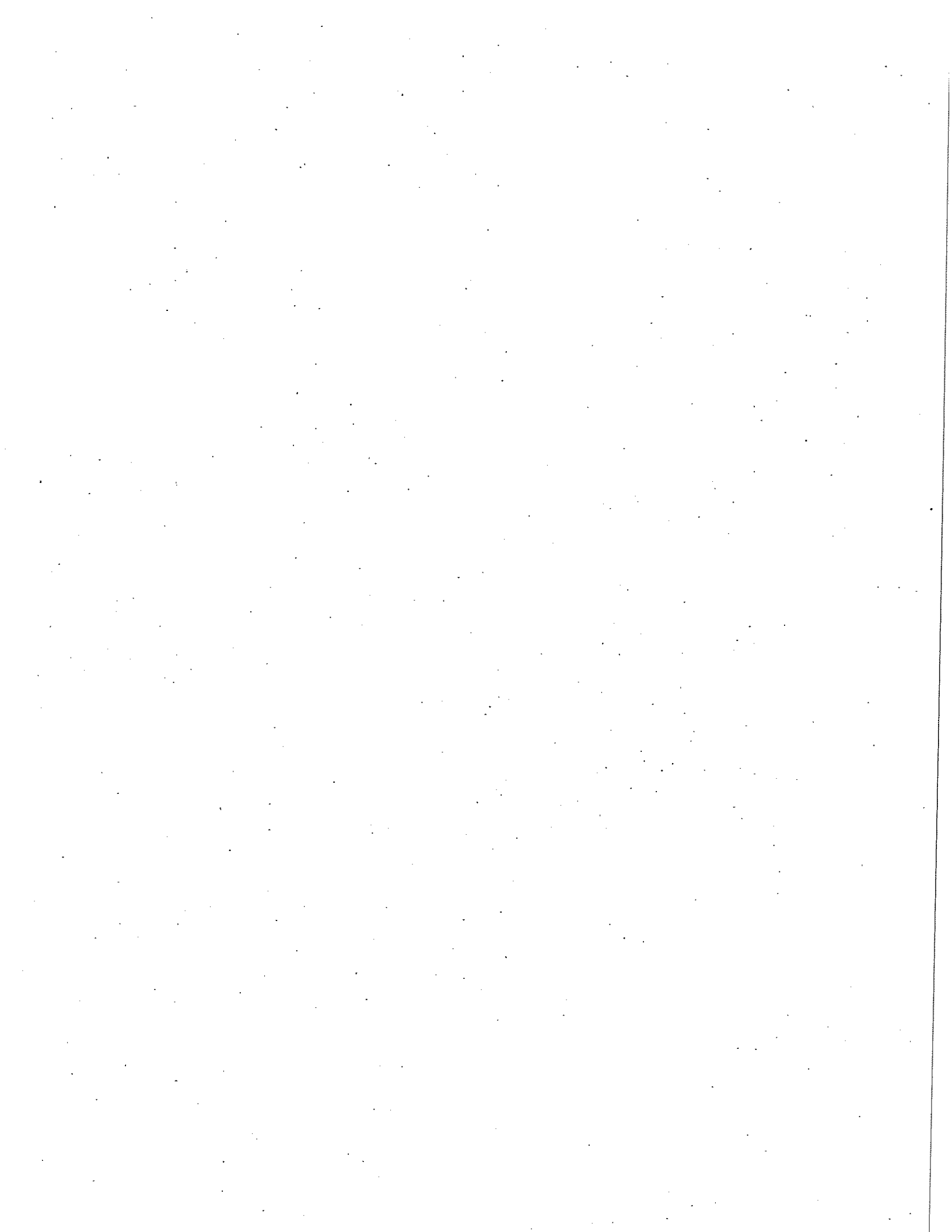
	4.867E-008		1.314E-009		1.359E-008		0.000E+000		0.000E+000
	5.155E-010		3.107E-004		2.768E-003		0.000E+000		
	4.630E-003								

CANCER:

HAZARD:

CANCER:

HAZARD:














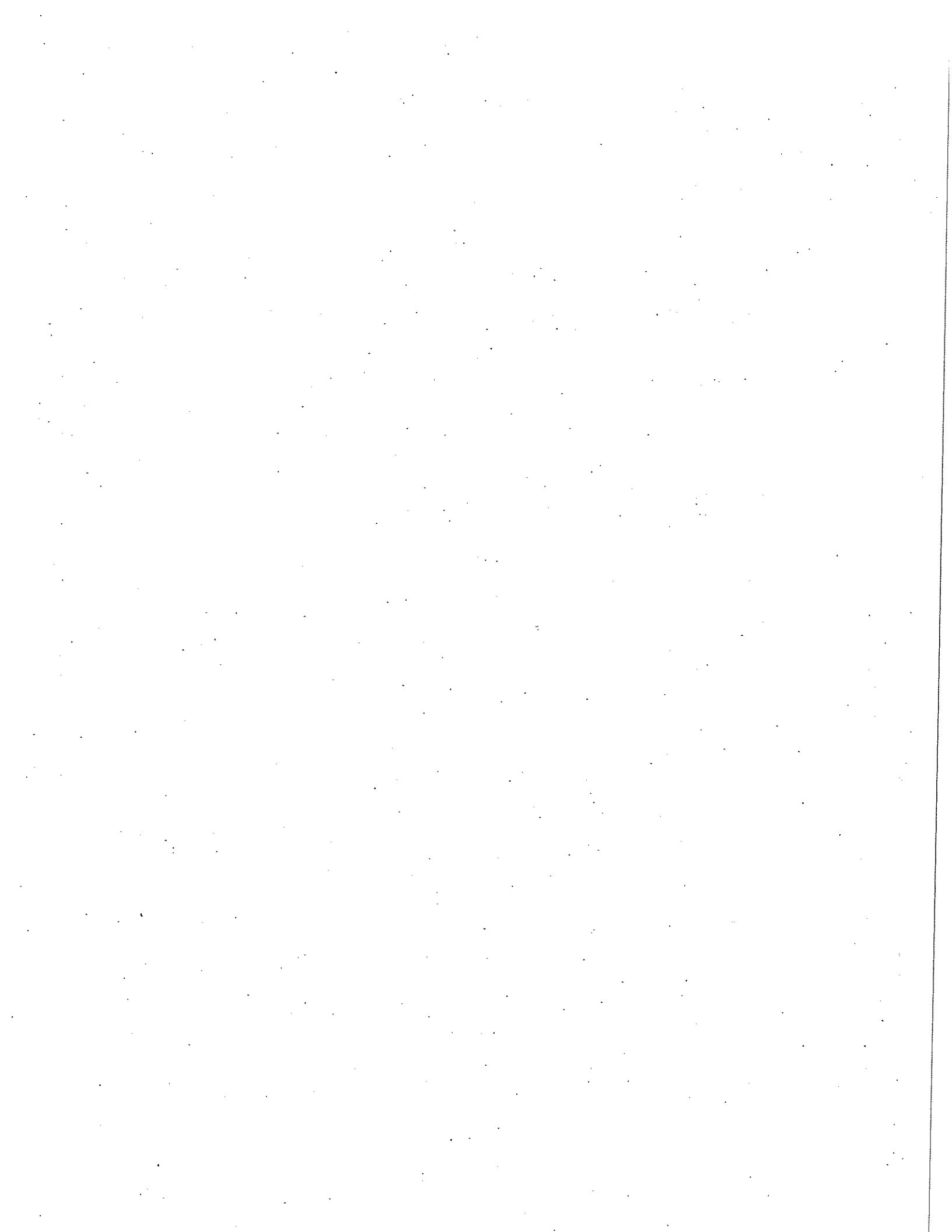


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RL2

SCENARIO: farmer\_adult









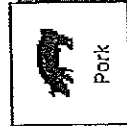

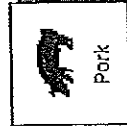





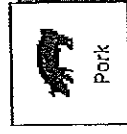

 Inhalation 3.055E-007 4.359E-003	 Acute Inhalation 0.000E+000	 Beef 8.564E-008 1.463E-003	 Fish 0.000E+000 0.000E+000	 Produce 5.150E-008 1.461E-003	 Pork 4.413E-009 8.952E-005	 Water 2.774E-009 7.321E-005	 Eggs 5.039E-011 1.662E-006	 Soil 3.811E-010 5.368E-005	 Paulltry 7.500E-011 1.548E-005	 Milk 2.539E-007 4.365E-003

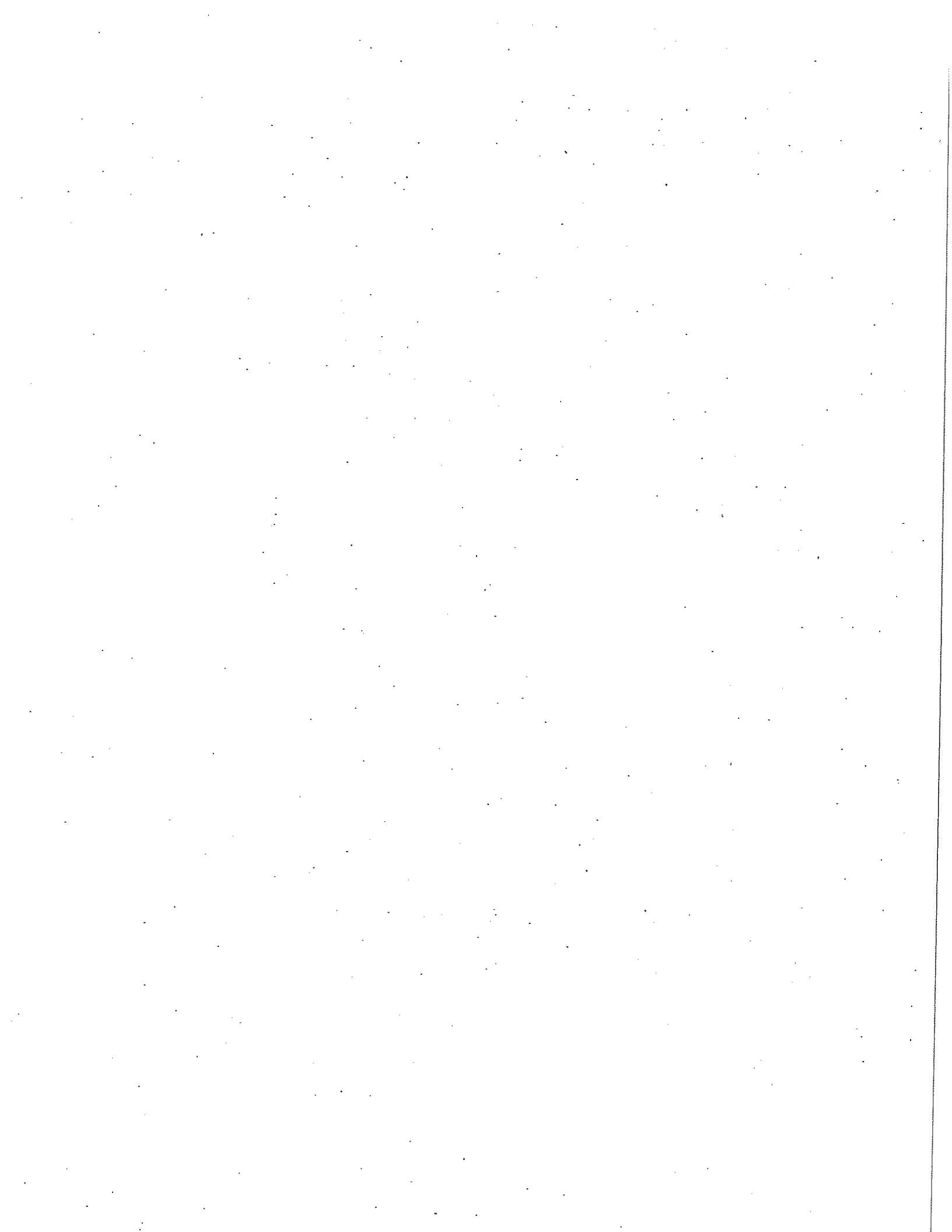


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RI\_2

SCENARIO: farmer\_child

















CANCER:		4.582E-008	0.000E+000	
		4.359E-003		
HAZARD:		4.807E-010	7.854E-009	
		1.535E-004		
CANCER:		1.847E-008	8.956E-004	
		3.332E-003		
HAZARD:		4.903E-012	0.000E+000	
		1.056E-005		
CANCER:		5.544E-008	6.867E-006	
		8.271E-003		
HAZARD:		7.203E-012	0.000E+000	
		1.197E-005		

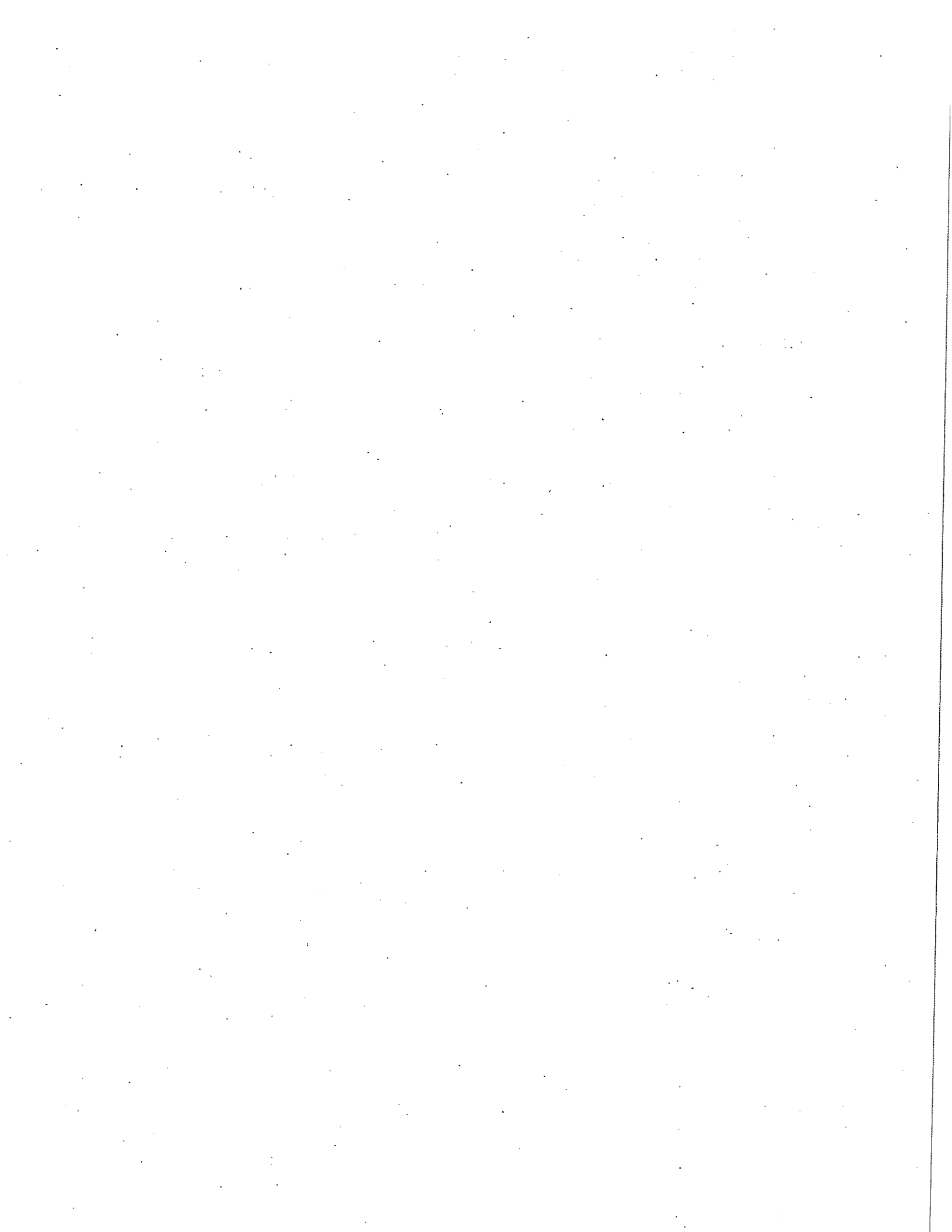


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR : **RI\_2**

SCENARIO: **fisher\_adult**










 Inhalation	2.291E-007		 Acute Inhalation	0.000E+000
 Soil	2.578E-010		 Beef	0.000E+000
 Water	2.077E-009		 Produce	2.640E-008
 Soil	6.368E-005		 Fish	0.000E+000
 Water	7.321E-005		 Pork	1.138E-003
 Soil	2.578E-010		 Eggs	0.000E+000
 Soil	6.368E-005		 Poultry	0.000E+000
 Inhalation	4.368E-003		 Milk	0.000E+000
<b>CANCER:</b>				
<b>HAZARD:</b>				
<b>CANCER:</b>				1.640E-007
<b>HAZARD:</b>				2.313E+000

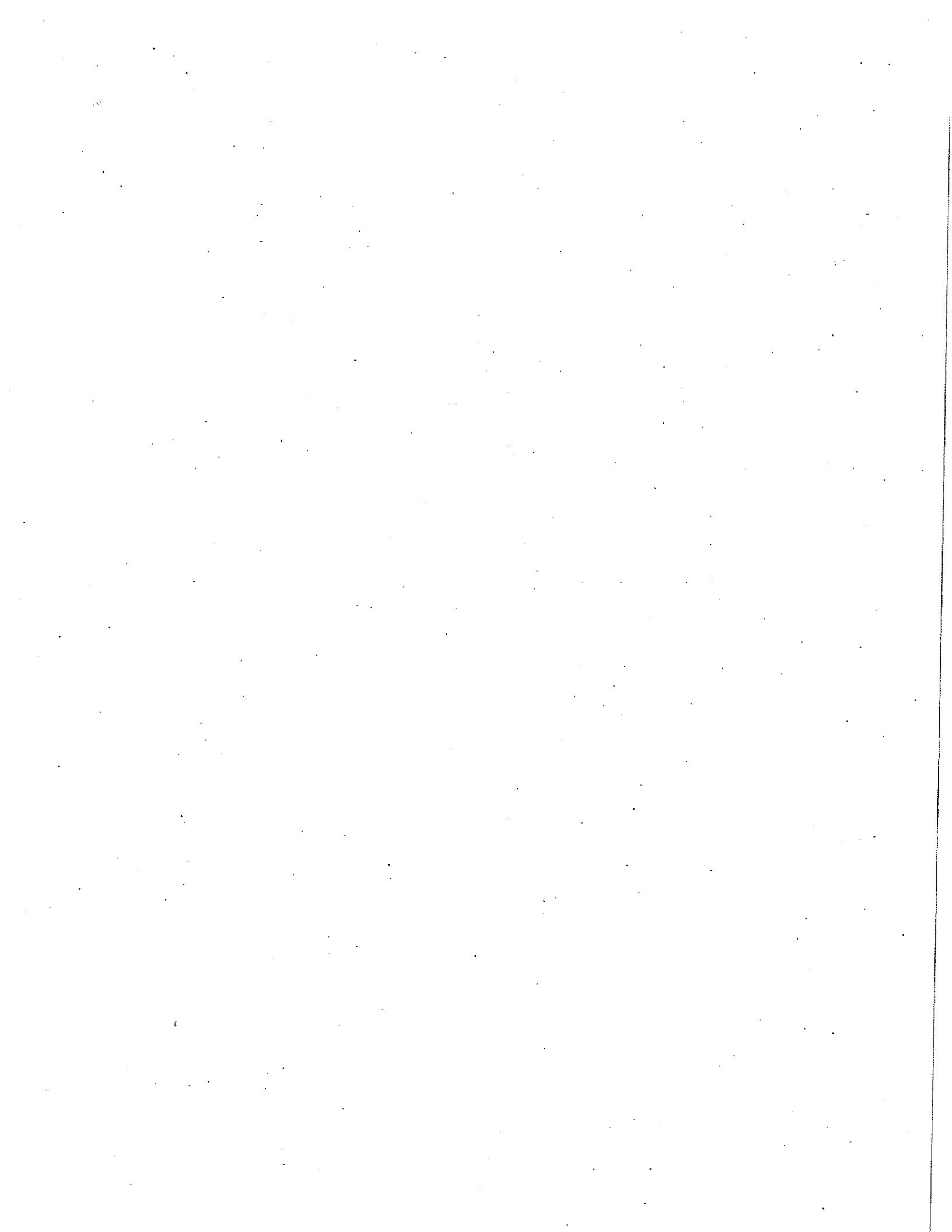


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RI\_2

SCENARIO: fisher\_child

CANCER:		4.582E-008	0.000E+000		0.000E+000	0.000E+000		0.000E+000
		4.807E-010						
HAZARD:		9.276E-010	1.635E-004		0.000E+000	0.000E+000		0.000E+000
		1.267E-009						
								2.308E-008
								1.628E+000














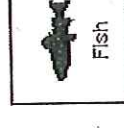



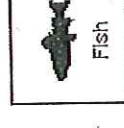








RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RI\_2

SCENARIO: resident\_adult

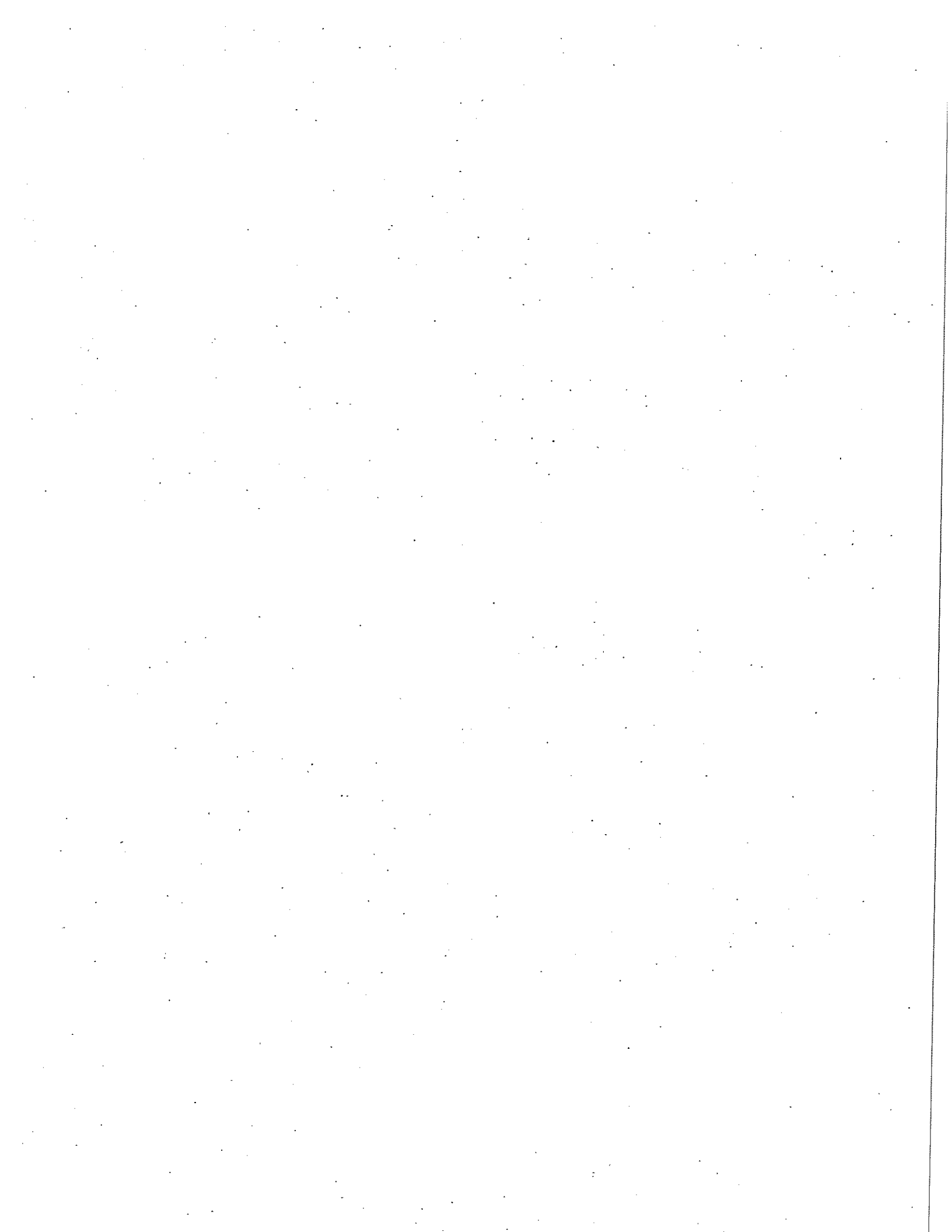
	2.291E-007		2.077E-009		2.649E-008		0.000E+000		0.000E+000
	4.359E-003		7.321E-005		1.139E-003		0.000E+000		0.000E+000
	2.575E-010		0.000E+000		0.000E+000		0.000E+000		
	6.368E-005		0.000E+000		0.000E+000		0.000E+000		
	0.000E+000		0.000E+000						
	0.000E+000		0.000E+000						

CANCER:

HAZARD:

CANCER:










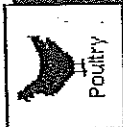

HAZARD:

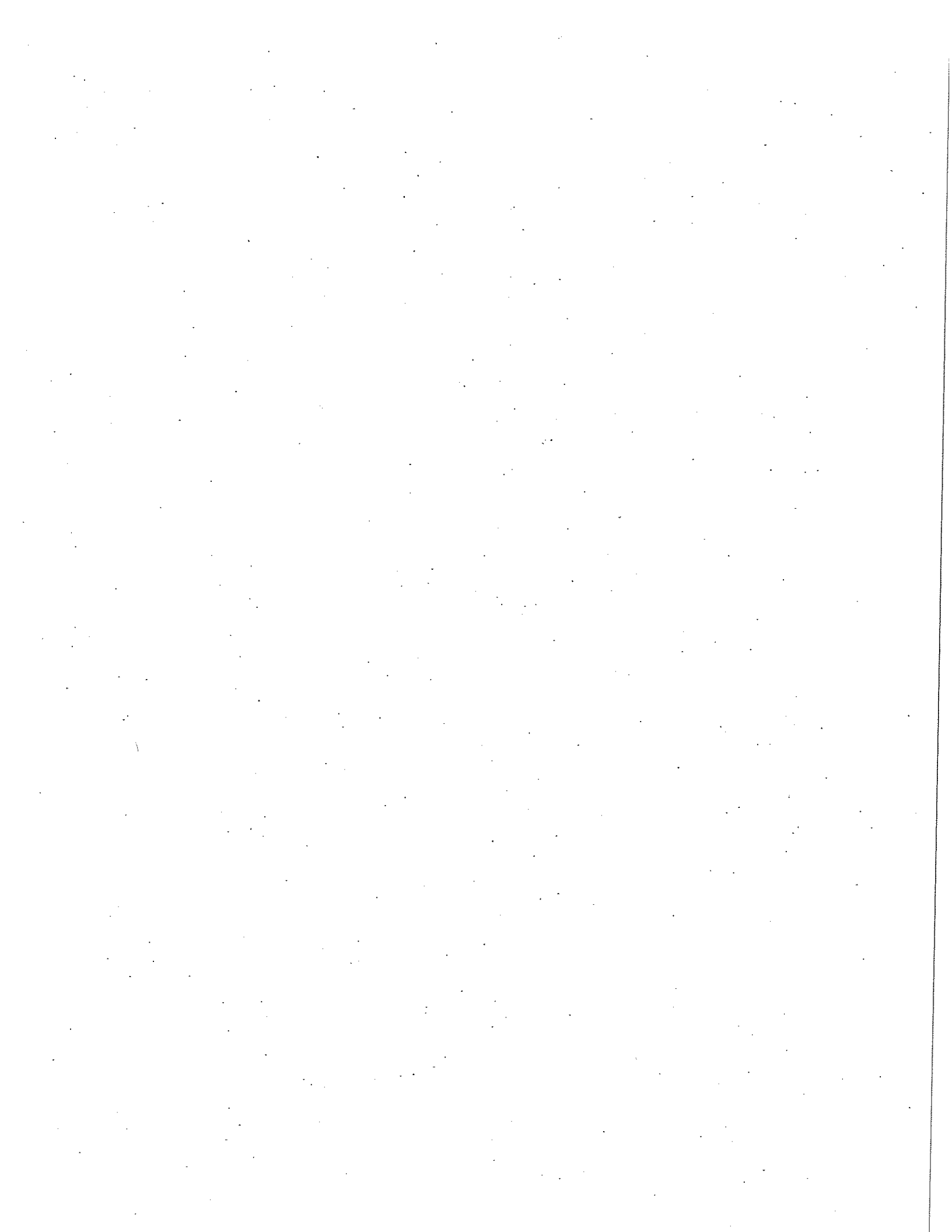


RISK SUMMARY BY EXPOSURE PATHWAYS

RECEPTOR: RI\_2

SCENARIO: resident\_child





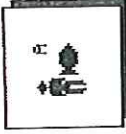

CANCER: HAZARD:	 Inhalation 4.582E-008 4.368E-003	 Soil 4.807E-010 5.843E-004	 Water 9.275E-010 1.535E-004	 Produce 1.267E-008 2.693E-003	 Beef 0.000E+000 0.000E+000	 Acute Inhalation 0.000E+000 0.000E+000
	0.000E+000 0.000E+000	0.000E+000 0.000E+000	0.000E+000 0.000E+000	0.000E+000 0.000E+000	 Fish 0.000E+000 0.000E+000	 Pork 0.000E+000 0.000E+000
0.000E+000 0.000E+000	0.000E+000 0.000E+000	 Eggs 0.000E+000 0.000E+000	 Poultry 0.000E+000 0.000E+000	 Milk 0.000E+000 0.000E+000		

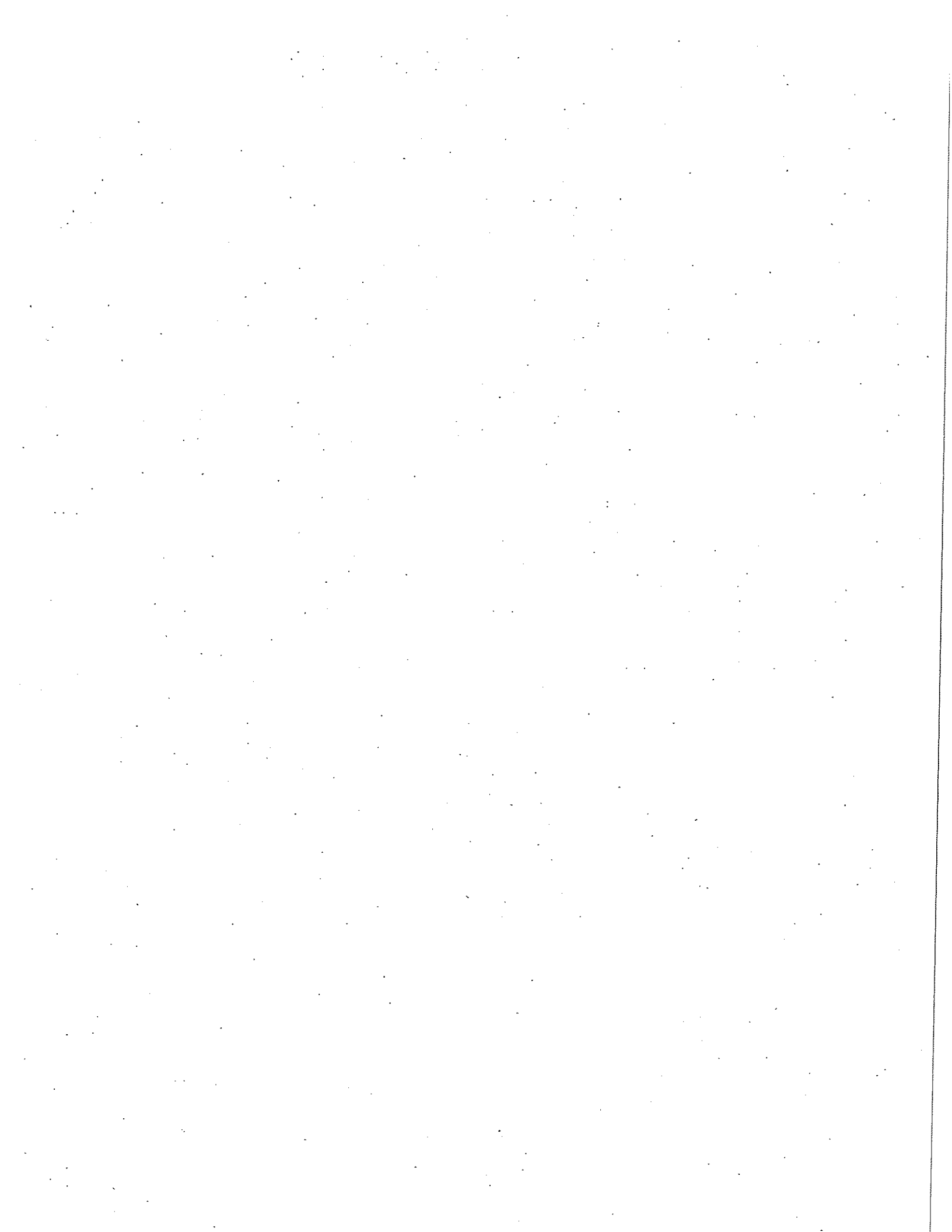


Date : 5/28/2012

RISK SUMMARY BY EXPOSURE SCENARIOS

RECEPTOR : RI\_1

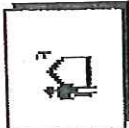
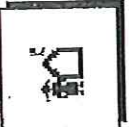
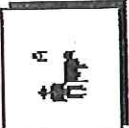



Scenario	Icon	Receptor	Cancer	Hazard
Resident Adult		Resident Adult	2.748E-007	6.052E-003
Resident Child		Resident Child	6.408E-008	8.342E-003
Farmer Adult		Farmer Adult	7.507E-007	1.339E-002
Farmer Child		Farmer Child	1.488E-007	1.898E-002
Fisher Adult		Fisher Adult	4.885E-007	2.558E+000
Fisher Child		Fisher Child	9.416E-008	1.805E+000

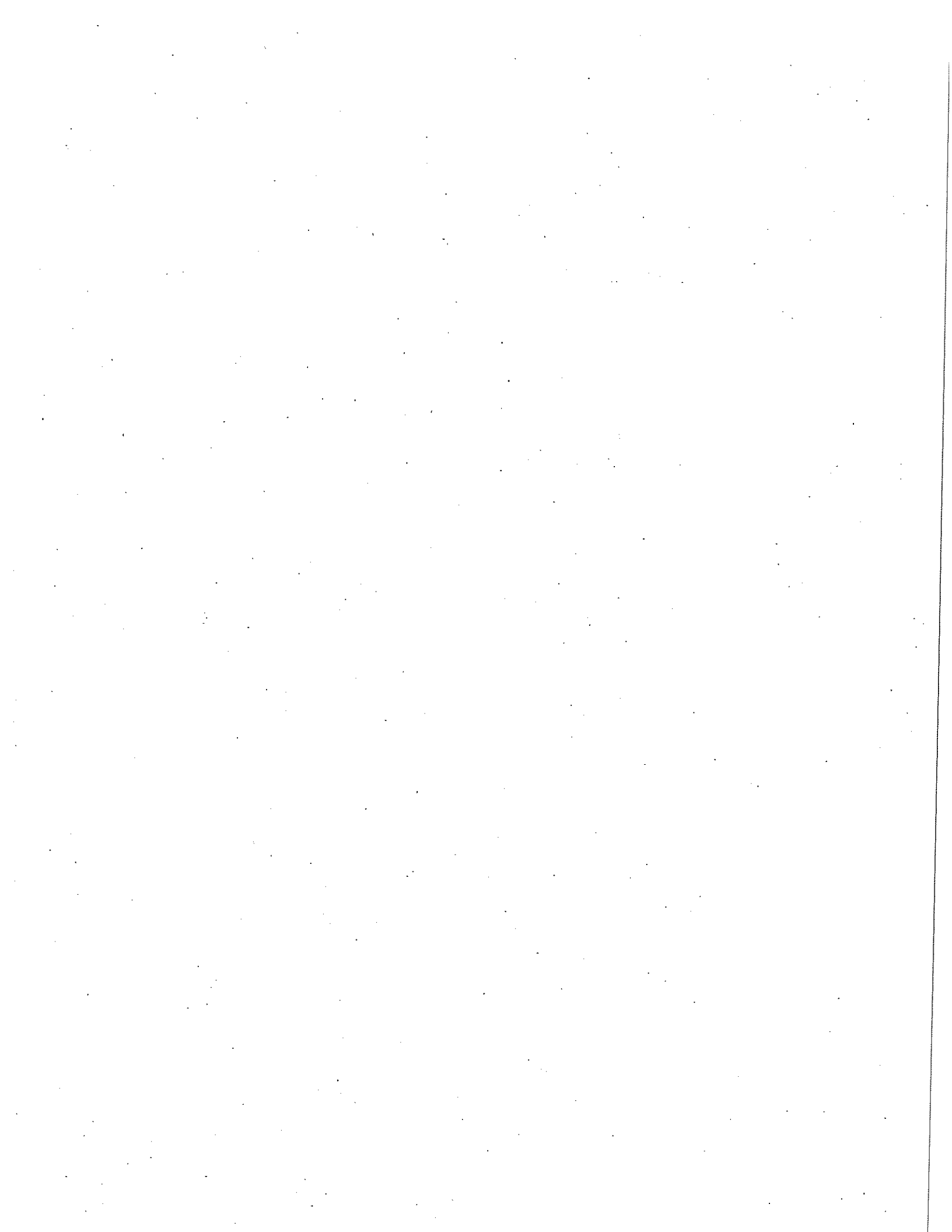


Date : 5/28/2012

RISK SUMMARY BY EXPOSURE SCENARIOS

RECEPTOR : RI\_2

Scenario	Receptor	CANCER	HAZARD
	Resident Adult	2.578E-007	6.634E-003
	Resident Child	5.990E-008	7.710E-003
	Farmer Adult	7.142E-007	1.253E-002
	Farmer Child	1.396E-007	1.771E-002
	Fisher Adult	4.218E-007	2.319E+000
	Fisher Child	8.299E-008	1.636E+000

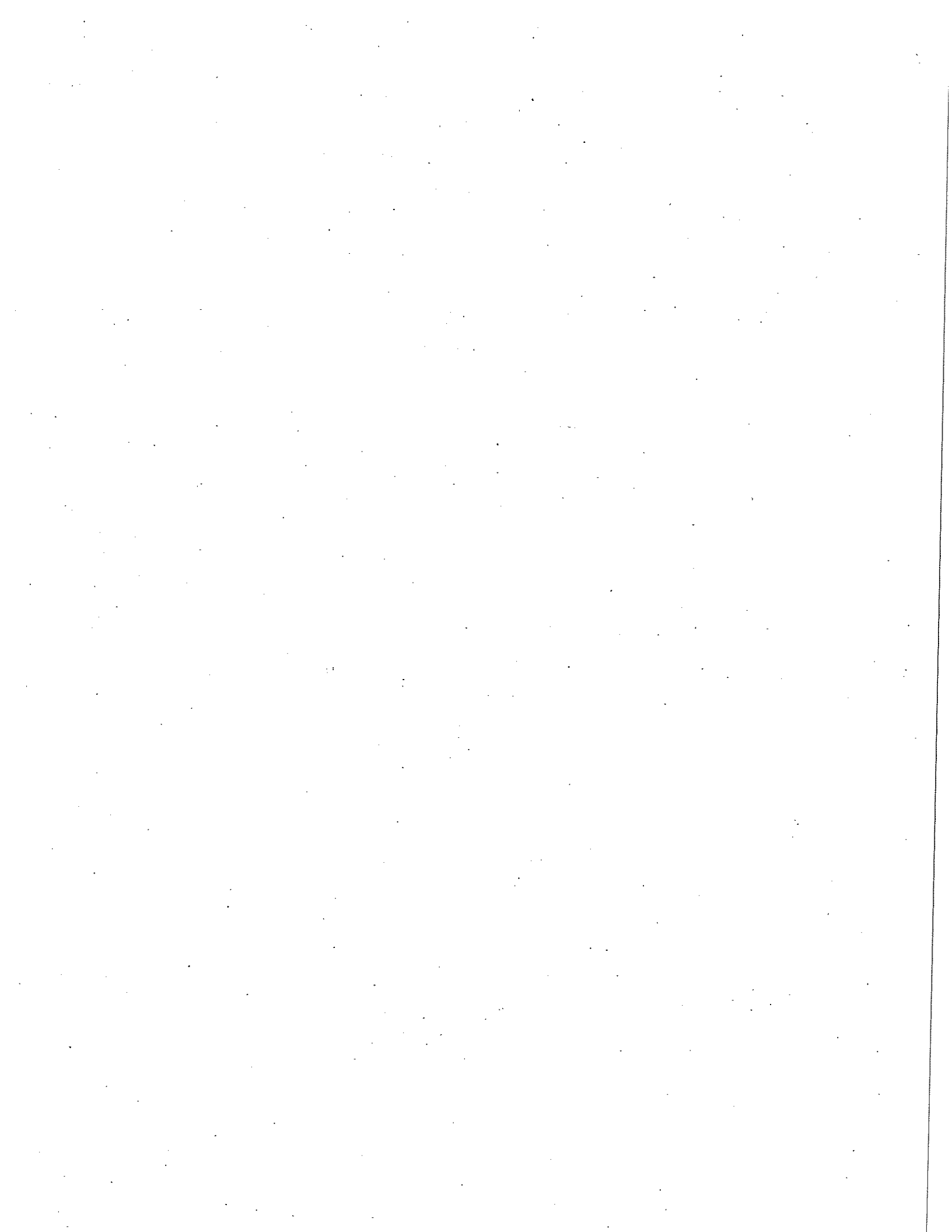




## LEAD EXPOSURE

Date : 5/28/2012

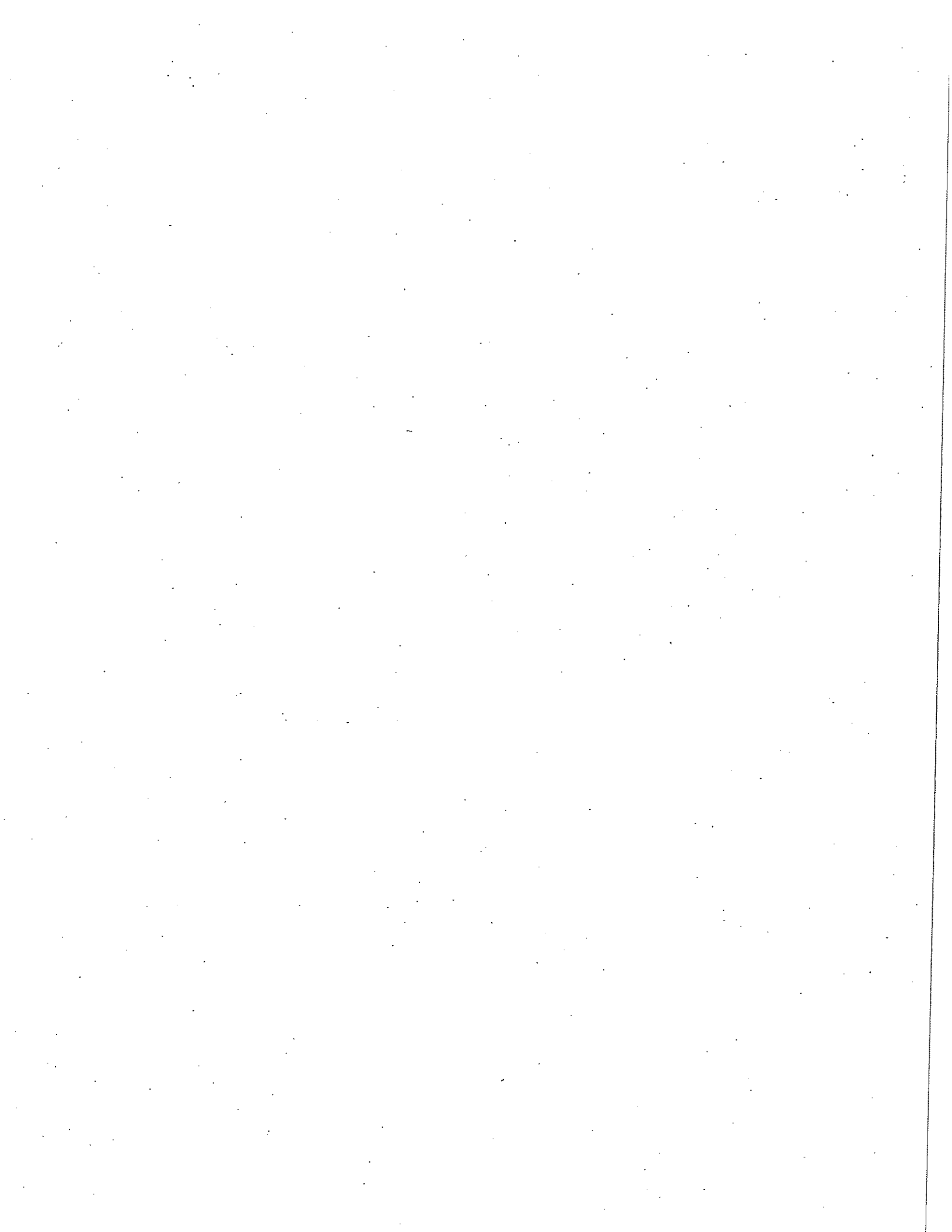
RECEPTOR NAME	SCENARIO	SOURCE	AVERAGE SOIL CONCENTRATION (mg/kg)	MAXIMUM SOIL CONCENTRATION (mg/kg)	AIR CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )
RI_1	farmer_adult	ESSROC	1.3012E-005	1.7349E-005	1.1888E-004
RI_1	farmer_child	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	fisher_adult	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	fisher_child	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_adult	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_child	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_2	farmer_adult	ESSROC	1.2115E-005	1.6153E-005	1.1192E-004
RI_2	farmer_child	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	fisher_adult	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	fisher_child	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_adult	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_child	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004



## BREAST MILK

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	ADD
RI_1	farmer_adult	ESSROC	TetraCDD, 2,3,7,8-	1.3231E-001
RI_1	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	7.8397E-002
RI_1	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	1.8037E-003
RI_2	farmer_adult	ESSROC	TetraCDD, 2,3,7,8-	1.2440E-001
RI_2	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	6.0989E-002
RI_2	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	1.6784E-003



## RISK BY COPC

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	ESSROC	Arsenic	8.7327E-008	8.0064E-004
RI_1	farmer_adult	ESSROC	Beryllium	2.6592E-008	9.8586E-004
RI_1	farmer_adult	ESSROC	Cadmium	1.5240E-007	9.7470E-004
RI_1	farmer_adult	ESSROC	Chromium, hexavalent	1.3295E-007	2.5795E-003
RI_1	farmer_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	Mercuric chloride	0.0000E+000	1.6711E-003
RI_1	farmer_adult	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	farmer_adult	ESSROC	Methyl mercury	0.0000E+000	1.7090E-004
RI_1	farmer_adult	ESSROC	TetraCDD, 2,3,7,8-	3.6139E-007	6.2037E-003
			Total	7.6066E-007	1.3387E-002
RI_1	farmer_child	ESSROC	Arsenic	1.7670E-008	9.1915E-004
RI_1	farmer_child	ESSROC	Beryllium	3.9887E-009	1.0027E-003
RI_1	farmer_child	ESSROC	Cadmium	2.9818E-008	1.5087E-003
RI_1	farmer_child	ESSROC	Chromium, hexavalent	1.9943E-008	2.7197E-003
RI_1	farmer_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	Mercuric chloride	0.0000E+000	3.5200E-003
RI_1	farmer_child	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	farmer_child	ESSROC	Methyl mercury	0.0000E+000	3.9371E-004
RI_1	farmer_child	ESSROC	TetraCDD, 2,3,7,8-	7.7352E-008	8.9189E-003
			Total	1.4877E-007	1.8983E-002
RI_1	fisher_adult	ESSROC	Arsenic	5.5722E-008	7.4997E-004
RI_1	fisher_adult	ESSROC	Beryllium	1.9944E-008	9.8201E-004
RI_1	fisher_adult	ESSROC	Cadmium	2.0266E-007	2.3310E-003
RI_1	fisher_adult	ESSROC	Chromium, hexavalent	9.9716E-008	2.5192E-003
RI_1	fisher_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	Mercuric chloride	0.0000E+000	8.2033E-004
RI_1	fisher_adult	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	fisher_adult	ESSROC	Methyl mercury	0.0000E+000	2.5466E+000
RI_1	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	1.1041E-007	3.6734E-003
			Total	4.8846E-007	2.5577E+000
RI_1	fisher_child	ESSROC	Arsenic	1.3924E-008	8.2203E-004
RI_1	fisher_child	ESSROC	Beryllium	3.9887E-009	9.9368E-004
RI_1	fisher_child	ESSROC	Cadmium	3.9632E-008	2.2620E-003
RI_1	fisher_child	ESSROC	Chromium, hexavalent	1.9943E-008	2.6173E-003
RI_1	fisher_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	Mercuric chloride	0.0000E+000	2.1887E-003

## RISK BY COPC

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_child	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	fisher_child	ESSROC	Methyl mercury	0.0000E+000	1.7930E+000
RI_1	fisher_child	ESSROC	TetraCDD, 2,3,7,8-	1.6669E-008	2.7758E-003
			Total	9.4157E-008	1.8047E+000
RI_1	resident_adult	ESSROC	Arsenic	4.7489E-008	7.0728E-004
RI_1	resident_adult	ESSROC	Beryllium	1.9944E-008	9.7860E-004
RI_1	resident_adult	ESSROC	Cadmium	1.0542E-007	8.3831E-004
RI_1	resident_adult	ESSROC	Chromium, hexavalent	9.9716E-008	2.5045E-003
RI_1	resident_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	Mercuric chloride	0.0000E+000	8.2033E-004
RI_1	resident_adult	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	resident_adult	ESSROC	Methyl mercury	0.0000E+000	1.2937E-004
RI_1	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	2.2893E-009	7.3210E-005
			Total	2.7486E-007	6.0519E-003
RI_1	resident_child	ESSROC	Arsenic	1.2765E-008	7.9197E-004
RI_1	resident_child	ESSROC	Beryllium	3.9887E-009	9.9128E-004
RI_1	resident_child	ESSROC	Cadmium	2.5941E-008	1.2111E-003
RI_1	resident_child	ESSROC	Chromium, hexavalent	1.9943E-008	2.6070E-003
RI_1	resident_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	Mercuric chloride	0.0000E+000	2.1887E-003
RI_1	resident_child	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	resident_child	ESSROC	Methyl mercury	0.0000E+000	3.1016E-004
RI_1	resident_child	ESSROC	TetraCDD, 2,3,7,8-	1.4447E-009	2.4127E-004
			Total	6.4082E-008	8.3417E-003
RI_2	farmer_adult	ESSROC	Arsenic	8.1503E-008	7.5102E-004
RI_2	farmer_adult	ESSROC	Beryllium	2.5036E-008	9.2783E-004
RI_2	farmer_adult	ESSROC	Cadmium	1.4264E-007	9.0795E-004
RI_2	farmer_adult	ESSROC	Chromium, hexavalent	1.2518E-007	2.3796E-003
RI_2	farmer_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	Mercuric chloride	0.0000E+000	1.5681E-003
RI_2	farmer_adult	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	farmer_adult	ESSROC	Methyl mercury	0.0000E+000	1.6019E-004
RI_2	farmer_adult	ESSROC	TetraCDD, 2,3,7,8-	3.3988E-007	5.8327E-003
			Total	7.1423E-007	1.2528E-002
RI_2	farmer_child	ESSROC	Arsenic	1.6422E-008	8.5981E-004
RI_2	farmer_child	ESSROC	Beryllium	3.7554E-009	9.4327E-004

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_child	ESSROC	Cadmium	2.7786E-008	1.3984E-003
RI_2	farmer_child	ESSROC	Chromium, hexavalent	1.8776E-008	2.4518E-003
RI_2	farmer_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	Mercuric chloride	0.0000E+000	3.3029E-003
RI_2	farmer_child	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	farmer_child	ESSROC	Methyl mercury	0.0000E+000	3.6906E-004
RI_2	farmer_child	ESSROC	TetraCDD, 2,3,7,8-	7.2747E-008	8.3850E-003
			Total	1.3949E-007	1.7710E-002
RI_2	fisher_adult	ESSROC	Arsenic	5.0123E-008	6.9397E-004
RI_2	fisher_adult	ESSROC	Beryllium	1.8777E-008	9.2348E-004
RI_2	fisher_adult	ESSROC	Cadmium	1.6706E-007	1.8303E-003
RI_2	fisher_adult	ESSROC	Chromium, hexavalent	9.3882E-008	2.3140E-003
RI_2	fisher_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	Mercuric chloride	0.0000E+000	7.6946E-004
RI_2	fisher_adult	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	fisher_adult	ESSROC	Methyl mercury	0.0000E+000	2.3094E+000
RI_2	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	9.1989E-008	2.8558E-003
			Total	4.2184E-007	2.3188E+000
RI_2	fisher_child	ESSROC	Arsenic	1.2663E-008	7.6236E-004
RI_2	fisher_child	ESSROC	Beryllium	3.7554E-009	9.3434E-004
RI_2	fisher_child	ESSROC	Cadmium	3.3798E-008	1.8598E-003
RI_2	fisher_child	ESSROC	Chromium, hexavalent	1.8776E-008	2.3497E-003
RI_2	fisher_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	Mercuric chloride	0.0000E+000	2.0531E-003
RI_2	fisher_child	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	fisher_child	ESSROC	Methyl mercury	0.0000E+000	1.6261E+000
RI_2	fisher_child	ESSROC	TetraCDD, 2,3,7,8-	1.3998E-008	2.1870E-003
			Total	8.2990E-008	1.6362E+000
RI_2	resident_adult	ESSROC	Arsenic	4.4338E-008	6.6397E-004
RI_2	resident_adult	ESSROC	Beryllium	1.8777E-008	9.2106E-004
RI_2	resident_adult	ESSROC	Cadmium	9.8699E-008	7.8078E-004
RI_2	resident_adult	ESSROC	Chromium, hexavalent	9.3882E-008	2.3097E-003
RI_2	resident_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	Mercuric chloride	0.0000E+000	7.6946E-004
RI_2	resident_adult	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	resident_adult	ESSROC	Methyl mercury	0.0000E+000	1.2117E-004

RISK BY COPC

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	2.1319E-009	6.7993E-005
			Total	2.5783E-007	5.6344E-003
RI_2	resident_child	ESSROC	Arsenic	1.1848E-008	7.4124E-004
RI_2	resident_child	ESSROC	Beryllium	3.7554E-009	9.3264E-004
RI_2	resident_child	ESSROC	Cadmium	2.4172E-008	1.1209E-003
RI_2	resident_child	ESSROC	Chromium, hexavalent	1.8776E-008	2.3467E-003
RI_2	resident_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	Mercuric chloride	0.0000E+000	2.0531E-003
RI_2	resident_child	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	resident_child	ESSROC	Methyl mercury	0.0000E+000	2.9054E-004
RI_2	resident_child	ESSROC	TetraCDD, 2,3,7,8-	1.3461E-009	2.2439E-004
			Total	5.9898E-008	7.7098E-003



PATHWAY RISK

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	air inhalation	3.2444E-007	4.6297E-003
RI_1	farmer_adult	above ground vegetables	5.5220E-008	1.5600E-003
RI_1	farmer_adult	beef	9.1169E-008	1.5572E-003
RI_1	farmer_adult	chicken	8.3645E-011	1.6512E-005
RI_1	farmer_adult	drinking water	3.9291E-009	1.3883E-004
RI_1	farmer_adult	eggs	5.4042E-011	1.7718E-005
RI_1	farmer_adult	fish	0.0000E+000	0.0000E+000
RI_1	farmer_adult	milk	2.8065E-007	5.3026E-003
RI_1	farmer_adult	pork	4.7067E-009	9.6006E-005
RI_1	farmer_adult	soil	4.0870E-010	6.7913E-005
		Total	7.6066E-007	1.3387E-002
RI_1	farmer_child	air inhalation	4.8666E-008	4.6297E-003
RI_1	farmer_child	above ground vegetables	1.9802E-008	3.5573E-003
RI_1	farmer_child	beef	8.3608E-009	9.5731E-004
RI_1	farmer_child	chicken	7.7248E-012	1.1258E-005
RI_1	farmer_child	drinking water	1.3138E-009	3.1005E-004
RI_1	farmer_child	eggs	5.2577E-012	1.2757E-005
RI_1	farmer_child	fish	0.0000E+000	0.0000E+000
RI_1	farmer_child	milk	6.9583E-008	8.7976E-003
RI_1	farmer_child	pork	5.1701E-010	7.3314E-005
RI_1	farmer_child	soil	5.1553E-010	6.3385E-004
		Total	1.4877E-007	1.8983E-002
RI_1	fisher_adult	air inhalation	2.4333E-007	4.6297E-003
RI_1	fisher_adult	above ground vegetables	2.8309E-008	1.2154E-003
RI_1	fisher_adult	beef	0.0000E+000	0.0000E+000
RI_1	fisher_adult	chicken	0.0000E+000	0.0000E+000
RI_1	fisher_adult	drinking water	2.9414E-009	1.3883E-004
RI_1	fisher_adult	eggs	0.0000E+000	0.0000E+000
RI_1	fisher_adult	fish	2.1360E-007	2.5516E+000
RI_1	fisher_adult	milk	0.0000E+000	0.0000E+000
RI_1	fisher_adult	pork	0.0000E+000	0.0000E+000
RI_1	fisher_adult	soil	2.7618E-010	6.7913E-005
		Total	4.8846E-007	2.5577E+000
RI_1	fisher_child	air inhalation	4.8666E-008	4.6297E-003
RI_1	fisher_child	above ground vegetables	1.3587E-008	2.7681E-003
RI_1	fisher_child	beef	0.0000E+000	0.0000E+000

PATHWAY RISK

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_child	chicken	0.0000E+000	0.0000E+000
RI_1	fisher_child	drinking water	1.3138E-009	3.1005E-004
RI_1	fisher_child	eggs	0.0000E+000	0.0000E+000
RI_1	fisher_child	fish	3.0075E-008	1.7963E+000
RI_1	fisher_child	milk	0.0000E+000	0.0000E+000
RI_1	fisher_child	pork	0.0000E+000	0.0000E+000
RI_1	fisher_child	soil	5.1553E-010	6.3385E-004
		Total	9.4157E-008	1.8047E+000
RI_1	resident_adult	air inhalation	2.4333E-007	4.6297E-003
RI_1	resident_adult	above ground vegetables	2.8309E-008	1.2154E-003
RI_1	resident_adult	beef	0.0000E+000	0.0000E+000
RI_1	resident_adult	chicken	0.0000E+000	0.0000E+000
RI_1	resident_adult	drinking water	2.9414E-009	1.3883E-004
RI_1	resident_adult	eggs	0.0000E+000	0.0000E+000
RI_1	resident_adult	fish	0.0000E+000	0.0000E+000
RI_1	resident_adult	milk	0.0000E+000	0.0000E+000
RI_1	resident_adult	pork	0.0000E+000	0.0000E+000
RI_1	resident_adult	soil	2.7618E-010	6.7913E-005
		Total	2.7486E-007	6.0519E-003
RI_1	resident_child	air inhalation	4.8666E-008	4.6297E-003
RI_1	resident_child	above ground vegetables	1.3587E-008	2.7681E-003
RI_1	resident_child	beef	0.0000E+000	0.0000E+000
RI_1	resident_child	chicken	0.0000E+000	0.0000E+000
RI_1	resident_child	drinking water	1.3138E-009	3.1005E-004
RI_1	resident_child	eggs	0.0000E+000	0.0000E+000
RI_1	resident_child	fish	0.0000E+000	0.0000E+000
RI_1	resident_child	milk	0.0000E+000	0.0000E+000
RI_1	resident_child	pork	0.0000E+000	0.0000E+000
RI_1	resident_child	soil	5.1553E-010	6.3385E-004
		Total	6.4082E-008	8.3417E-003
RI_2	farmer_adult	air inhalation	3.0546E-007	4.3588E-003
RI_2	farmer_adult	above ground vegetables	5.1496E-008	1.4612E-003
RI_2	farmer_adult	beef	8.5638E-008	1.4633E-003
RI_2	farmer_adult	chicken	7.7998E-011	1.5485E-005
RI_2	farmer_adult	drinking water	2.7736E-009	7.3211E-005
RI_2	farmer_adult	eggs	5.0394E-011	1.6621E-005

PATHWAY RISK

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_adult	fish	0.0000E+000	0.0000E+000
RI_2	farmer_adult	milk	2.6394E-007	4.9854E-003
RI_2	farmer_adult	pork	4.4129E-009	8.9925E-005
RI_2	farmer_adult	soil	3.8111E-010	6.3675E-005
		Total	7.1423E-007	1.2528E-002
RI_2	farmer_child	air inhalation	4.5819E-008	4.3588E-003
RI_2	farmer_child	above ground vegetables	1.8467E-008	3.3317E-003
RI_2	farmer_child	beef	7.8539E-009	8.9957E-004
RI_2	farmer_child	chicken	7.2033E-012	1.0558E-005
RI_2	farmer_child	drinking water	9.2755E-010	1.6350E-004
RI_2	farmer_child	eggs	4.9028E-012	1.1967E-005
RI_2	farmer_child	fish	0.0000E+000	0.0000E+000
RI_2	farmer_child	milk	6.5442E-008	8.2713E-003
RI_2	farmer_child	pork	4.8484E-010	6.8670E-005
RI_2	farmer_child	soil	4.8073E-010	5.9430E-004
		Total	1.3949E-007	1.7710E-002
RI_2	fisher_adult	air inhalation	2.2909E-007	4.3588E-003
RI_2	fisher_adult	above ground vegetables	2.6400E-008	1.1387E-003
RI_2	fisher_adult	beef	0.0000E+000	0.0000E+000
RI_2	fisher_adult	chicken	0.0000E+000	0.0000E+000
RI_2	fisher_adult	drinking water	2.0766E-009	7.3211E-005
RI_2	fisher_adult	eggs	0.0000E+000	0.0000E+000
RI_2	fisher_adult	fish	1.6401E-007	2.3132E+000
RI_2	fisher_adult	milk	0.0000E+000	0.0000E+000
RI_2	fisher_adult	pork	0.0000E+000	0.0000E+000
RI_2	fisher_adult	soil	2.5754E-010	6.3675E-005
		Total	4.2184E-007	2.3188E+000
RI_2	fisher_child	air inhalation	4.5819E-008	4.3588E-003
RI_2	fisher_child	above ground vegetables	1.2670E-008	2.5932E-003
RI_2	fisher_child	beef	0.0000E+000	0.0000E+000
RI_2	fisher_child	chicken	0.0000E+000	0.0000E+000
RI_2	fisher_child	drinking water	9.2755E-010	1.6350E-004
RI_2	fisher_child	eggs	0.0000E+000	0.0000E+000
RI_2	fisher_child	fish	2.3092E-008	1.6285E+000
RI_2	fisher_child	milk	0.0000E+000	0.0000E+000
RI_2	fisher_child	pork	0.0000E+000	0.0000E+000

PATHWAY RISK

Date : 5/28/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_child	soil	4.8073E-010	5.9430E-004
		Total	8.2990E-008	1.6362E+000
RI_2	resident_adult	air inhalation	2.2909E-007	4.3588E-003
RI_2	resident_adult	above ground vegetables	2.6400E-008	1.1387E-003
RI_2	resident_adult	beef	0.0000E+000	0.0000E+000
RI_2	resident_adult	chicken	0.0000E+000	0.0000E+000
RI_2	resident_adult	drinking water	2.0766E-009	7.3211E-005
RI_2	resident_adult	eggs	0.0000E+000	0.0000E+000
RI_2	resident_adult	fish	0.0000E+000	0.0000E+000
RI_2	resident_adult	milk	0.0000E+000	0.0000E+000
RI_2	resident_adult	pork	0.0000E+000	0.0000E+000
RI_2	resident_adult	soil	2.5754E-010	6.3675E-005
		Total	2.5783E-007	5.6344E-003
RI_2	resident_child	air inhalation	4.5819E-008	4.3588E-003
RI_2	resident_child	above ground vegetables	1.2670E-008	2.5932E-003
RI_2	resident_child	beef	0.0000E+000	0.0000E+000
RI_2	resident_child	chicken	0.0000E+000	0.0000E+000
RI_2	resident_child	drinking water	9.2755E-010	1.6350E-004
RI_2	resident_child	eggs	0.0000E+000	0.0000E+000
RI_2	resident_child	fish	0.0000E+000	0.0000E+000
RI_2	resident_child	milk	0.0000E+000	0.0000E+000
RI_2	resident_child	pork	0.0000E+000	0.0000E+000
RI_2	resident_child	soil	4.8073E-010	5.9430E-004
		Total	5.9898E-008	7.7098E-003

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	ESSROC	air inhalation	Arsenic	4.7643E-008	6.4632E-004
RI_1	farmer_adult	ESSROC	above ground vegetables	Arsenic	2.0761E-008	8.0739E-005
RI_1	farmer_adult	ESSROC	beef	Arsenic	1.1528E-008	4.4829E-005
RI_1	farmer_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	drinking water	Arsenic	1.5406E-009	5.9913E-006
RI_1	farmer_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Arsenic	5.8543E-009	2.2767E-005
RI_1	farmer_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	soil	Arsenic	2.7210E-015	1.4109E-011
RI_1	farmer_adult	ESSROC	Total	Arsenic	8.7327E-008	8.0064E-004
RI_1	farmer_adult	ESSROC	air inhalation	Beryllium	2.6592E-008	9.6949E-004
RI_1	farmer_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	1.2081E-005
RI_1	farmer_adult	ESSROC	beef	Beryllium	0.0000E+000	3.3536E-006
RI_1	farmer_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	drinking water	Beryllium	0.0000E+000	8.8156E-007
RI_1	farmer_adult	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Beryllium	0.0000E+000	5.1085E-008
RI_1	farmer_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	soil	Beryllium	0.0000E+000	2.9524E-009
RI_1	farmer_adult	ESSROC	Total	Beryllium	2.6592E-008	9.8586E-004
RI_1	farmer_adult	ESSROC	air inhalation	Cadmium	1.1725E-007	5.6997E-004
RI_1	farmer_adult	ESSROC	above ground vegetables	Cadmium	3.0855E-008	3.5535E-004
RI_1	farmer_adult	ESSROC	beef	Cadmium	1.0271E-009	1.1826E-005
RI_1	farmer_adult	ESSROC	chicken	Cadmium	4.3859E-013	6.7327E-009

PATHWAY RISK BY COPC

Date: 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	ESSROC	drinking water	Cadmium	2.2871E-009	2.6332E-005
RI_1	farmer_adult	ESSROC	eggs	Cadmium	1.1727E-014	1.8002E-010
RI_1	farmer_adult	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Cadmium	9.4185E-010	1.0844E-005
RI_1	farmer_adult	ESSROC	pork	Cadmium	3.1961E-011	3.6805E-007
RI_1	farmer_adult	ESSROC	soil	Cadmium	2.5973E-013	3.9872E-009
			Total		1.5240E-007	9.7470E-004
RI_1	farmer_adult	ESSROC	air inhalation	Chromium, hexavalent	1.3295E-007	2.4237E-003
RI_1	farmer_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	9.1613E-006
RI_1	farmer_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	1.3064E-005
RI_1	farmer_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	7.4212E-005
RI_1	farmer_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	5.9132E-005
RI_1	farmer_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	0.0000E+000
			Total		0.0000E+000	2.4004E-007
RI_1	farmer_adult	ESSROC	air inhalation	Lead	1.3295E-007	2.5795E-003
RI_1	farmer_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000

IRAP-h View

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
			Total		0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.9994E-005
RI_1	farmer_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	8.7962E-004
RI_1	farmer_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	1.2692E-004
RI_1	farmer_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	1.4236E-005
RI_1	farmer_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	1.9002E-005
RI_1	farmer_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	1.6177E-005
RI_1	farmer_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	5.4085E-004
RI_1	farmer_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	2.8366E-007
RI_1	farmer_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	5.3977E-005
			Total		0.0000E+000	1.6711E-003
RI_1	farmer_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.7553E-007
			Total		0.0000E+000	2.7553E-007
RI_1	farmer_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	1.4559E-004
RI_1	farmer_adult	ESSROC	beef	Methyl mercury	0.0000E+000	1.7943E-006
RI_1	farmer_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	1.3727E-007
RI_1	farmer_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	1.0060E-005
RI_1	farmer_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	1.5598E-007
RI_1	farmer_adult	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	farmer_adult	ESSROC	milk	Methyl mercury	0.0000E+000	9.9353E-006
RI_1	farmer_adult	ESSROC	pork	Methyl mercury	0.0000E+000	2.8633E-009
RI_1	farmer_adult	ESSROC	soil	Methyl mercury	0.0000E+000	3.2213E-006
			Total		0.0000E+000	1.7090E-004

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RL1	farmer_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	farmer_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	3.6033E-009	7.7481E-005
RL1	farmer_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	7.8614E-008	1.3554E-003
RL1	farmer_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	8.3206E-011	2.1324E-006
RL1	farmer_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	1.0142E-010	2.3502E-006
RL1	farmer_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	5.4030E-011	1.3847E-006
RL1	farmer_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	farmer_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	2.7385E-007	4.6591E-003
RL1	farmer_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	4.6748E-009	9.5352E-005
RL1	farmer_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	4.0843E-010	1.0467E-005
	Total				3.6139E-007	6.2037E-003
RL1	farmer_child	ESSROC	air inhalation	Arsenic	7.1464E-009	6.4632E-004
RL1	farmer_child	ESSROC	above ground vegetables	Arsenic	7.4873E-009	1.9412E-004
RL1	farmer_child	ESSROC	beef	Arsenic	1.0630E-009	2.7559E-005
RL1	farmer_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RL1	farmer_child	ESSROC	drinking water	Arsenic	5.1611E-010	1.3381E-005
RL1	farmer_child	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RL1	farmer_child	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RL1	farmer_child	ESSROC	milk	Arsenic	1.4569E-009	3.7773E-005
RL1	farmer_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RL1	farmer_child	ESSROC	soil	Arsenic	5.0792E-015	1.3168E-010
	Total				1.7670E-008	9.1915E-004
RL1	farmer_child	ESSROC	air inhalation	Beryllium	3.9887E-009	9.6949E-004
RL1	farmer_child	ESSROC	above ground vegetables	Beryllium	0.0000E+000	2.9045E-005
RL1	farmer_child	ESSROC	beef	Beryllium	0.0000E+000	2.0616E-006
RL1	farmer_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000

IRAP-h View



PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RL_1	farmer_child	ESSROC	drinking water	Beryllium	0.0000E+000	1.9688E-006
RL_1	farmer_child	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	milk	Beryllium	0.0000E+000	8.4756E-008
RL_1	farmer_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	soil	Beryllium	0.0000E+000	2.7556E-008
			Total		3.9687E-009	1.0027E-003
RL_1	farmer_child	ESSROC	air inhalation	Cadmium	1.7588E-008	5.6997E-004
RL_1	farmer_child	ESSROC	above ground vegetables	Cadmium	1.1131E-008	8.5433E-004
RL_1	farmer_child	ESSROC	beef	Cadmium	9.4720E-011	7.2702E-006
RL_1	farmer_child	ESSROC	chicken	Cadmium	5.9807E-014	4.5905E-009
RL_1	farmer_child	ESSROC	drinking water	Cadmium	7.6620E-010	5.8809E-005
RL_1	farmer_child	ESSROC	eggs	Cadmium	1.6887E-015	1.2961E-010
RL_1	farmer_child	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	milk	Cadmium	2.3440E-010	1.7992E-005
RL_1	farmer_child	ESSROC	pork	Cadmium	3.6618E-012	2.8106E-007
RL_1	farmer_child	ESSROC	soil	Cadmium	4.8483E-013	3.7213E-008
			Total		2.9818E-008	1.5087E-003
RL_1	farmer_child	ESSROC	air inhalation	Chromium, hexavalent	1.9943E-008	2.4237E-003
RL_1	farmer_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	2.1954E-005
RL_1	farmer_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	8.0312E-006
RL_1	farmer_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	1.6574E-004
RL_1	farmer_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RL_1	farmer_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	9.8107E-005

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	farmer_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.2403E-006
	Total				1.9943E-008	2.7197E-003
RI_1	farmer_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.9994E-005
RI_1	farmer_child	ESSROC	beef	Mercuric chloride	0.0000E+000	1.9569E-003
RI_1	farmer_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	7.8024E-005
RI_1	farmer_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	9.7061E-006
RI_1	farmer_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	4.2439E-005
RI_1	farmer_child	ESSROC	fish	Mercuric chloride	0.0000E+000	1.1647E-005
RI_1	farmer_child	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	pork	Mercuric chloride	0.0000E+000	8.9734E-004
RI_1	farmer_child	ESSROC	soil	Mercuric chloride	0.0000E+000	2.1661E-007
	Total				0.0000E+000	5.0379E-004
RI_1	farmer_child	ESSROC	air inhalation	Mercury	0.0000E+000	3.5200E-003
	Total				0.0000E+000	2.7553E-007

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARDOUS QUOTIENT
RI_1	farmer_child	ESSROC	Total		0.0000E+000	2.7553E-007
RI_1	farmer_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	3.2338E-004
RI_1	farmer_child	ESSROC	beef	Methyl mercury	0.0000E+000	1.1031E-006
RI_1	farmer_child	ESSROC	chicken	Methyl mercury	0.0000E+000	9.3591E-008
RI_1	farmer_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	2.2468E-005
RI_1	farmer_child	ESSROC	eggs	Methyl mercury	0.0000E+000	1.1231E-007
RI_1	farmer_child	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	milk	Methyl mercury	0.0000E+000	1.6484E-005
RI_1	farmer_child	ESSROC	pork	Methyl mercury	0.0000E+000	2.1865E-009
RI_1	farmer_child	ESSROC	soil	Methyl mercury	0.0000E+000	3.0065E-005
RI_1	farmer_child	ESSROC	Total		0.0000E+000	3.9371E-004
RI_1	farmer_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	1.1842E-009	1.7761E-004
RI_1	farmer_child	ESSROC	beef	TetraCDD, 2,3,7,8-	7.2031E-009	8.3326E-004
RI_1	farmer_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	7.6650E-012	1.4539E-006
RI_1	farmer_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	3.1528E-011	5.2488E-006
RI_1	farmer_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	5.2560E-012	9.9696E-007
RI_1	farmer_child	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	farmer_child	ESSROC	milk	TetraCDD, 2,3,7,8-	6.7891E-008	7.7299E-003
RI_1	farmer_child	ESSROC	pork	TetraCDD, 2,3,7,8-	5.1335E-010	7.2814E-005
RI_1	farmer_child	ESSROC	soil	TetraCDD, 2,3,7,8-	5.1504E-010	9.7694E-005
RI_1	farmer_child	ESSROC	Total		7.7552E-008	8.9189E-003
RI_1	fisher_adult	ESSROC	air inhalation	Arsenic	3.5732E-008	6.4632E-004
RI_1	fisher_adult	ESSROC	above ground vegetables	Arsenic	1.0602E-008	5.4971E-005
RI_1	fisher_adult	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	ESSROC	drinking water	Arsenic	1.1535E-009	5.9913E-006
RI_1	fisher_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	fish	Arsenic	8.2327E-009	4.2688E-005
RI_1	fisher_adult	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Arsenic	2.7210E-015	1.4109E-011
	Total				5.5722E-008	7.4997E-004
RI_1	fisher_adult	ESSROC	air inhalation	Beryllium	1.9944E-008	9.6949E-004
RI_1	fisher_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	8.2262E-006
RI_1	fisher_adult	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	eggs	Beryllium	0.0000E+000	8.8156E-007
RI_1	fisher_adult	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	milk	Beryllium	0.0000E+000	3.4160E-006
RI_1	fisher_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Beryllium	0.0000E+000	0.0000E+000
	Total				2.9524E-009	2.9524E-009
RI_1	fisher_adult	ESSROC	air inhalation	Cadmium	1.9944E-008	9.8201E-004
RI_1	fisher_adult	ESSROC	above ground vegetables	Cadmium	8.7939E-008	5.6997E-004
RI_1	fisher_adult	ESSROC	beef	Cadmium	1.5765E-008	2.4200E-004
RI_1	fisher_adult	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	eggs	Cadmium	1.7154E-009	2.6332E-005
RI_1	fisher_adult	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	milk	Cadmium	9.7240E-008	1.4927E-003
	Total				0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Cadmium	2.5973E-013	3.9872E-009
	Total				2.0266E-007	2.3310E-003
RI_1	fisher_adult	ESSROC	air inhalation	Chromium, hexavalent	9.9716E-008	2.4237E-003
RI_1	fisher_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	6.3987E-006
RI_1	fisher_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	7.4212E-005
RI_1	fisher_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	1.4657E-005
RI_1	fisher_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.4004E-007
	Total				9.9716E-008	2.5192E-003
RI_1	fisher_adult	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.9994E-005

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	7.2735E-004
RI_1	fisher_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	1.9002E-005
RI_1	fisher_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	5.3977E-005
RI_1	fisher_adult	ESSROC	Total		0.0000E+000	8.2033E-004
RI_1	fisher_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.7553E-007
RI_1	fisher_adult	ESSROC	Total		0.0000E+000	2.7553E-007
RI_1	fisher_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	1.1609E-004
RI_1	fisher_adult	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	1.0060E-005
RI_1	fisher_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	milk	Methyl mercury	0.0000E+000	2.5465E+000
RI_1	fisher_adult	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	soil	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	Total		0.0000E+000	3.2213E-006
RI_1	fisher_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	2.5466E+000
RI_1	fisher_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	1.9428E-009	6.0393E-005
RI_1	fisher_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC		TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RL1	fisher_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	7.0584E-011	2.3502E-006
RL1	fisher_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	fisher_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	1.0813E-007	3.6002E-003
RL1	fisher_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	fisher_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	fisher_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	2.7592E-010	1.0467E-005
RL1	Total				1.1041E-007	3.6734E-003
RL1	fisher_child	ESSROC	air inhalation	Arsenic	7.1464E-009	6.4632E-004
RL1	fisher_child	ESSROC	above ground vegetables	Arsenic	5.1020E-009	1.3227E-004
RL1	fisher_child	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	drinking water	Arsenic	5.1611E-010	1.3381E-005
RL1	fisher_child	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	fish	Arsenic	1.1592E-009	3.0052E-005
RL1	fisher_child	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	soil	Arsenic	5.0792E-015	1.3168E-010
RL1	Total				1.3924E-008	8.2203E-004
RL1	fisher_child	ESSROC	air inhalation	Beryllium	3.9887E-009	9.6949E-004
RL1	fisher_child	ESSROC	above ground vegetables	Beryllium	0.0000E+000	1.9794E-005
RL1	fisher_child	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	drinking water	Beryllium	0.0000E+000	1.9688E-006
RL1	fisher_child	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RL1	fisher_child	ESSROC	fish	Beryllium	0.0000E+000	2.4049E-006
RL1	fisher_child	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	Beryllium	0.0000E+000	2.7556E-008
	Total				3.9887E-009	9.9368E-004
RI_1	fisher_child	ESSROC	air inhalation	Cadmium	1.7588E-008	5.6997E-004
RI_1	fisher_child	ESSROC	above ground vegetables	Cadmium	7.5867E-009	5.8231E-004
RI_1	fisher_child	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	drinking water	Cadmium	7.6620E-010	5.8809E-005
RI_1	fisher_child	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	Cadmium	1.3591E-008	1.0509E-003
RI_1	fisher_child	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	Cadmium	4.8483E-013	3.7213E-008
	Total				3.9632E-008	2.2620E-003
RI_1	fisher_child	ESSROC	air inhalation	Chromium, hexavalent	1.9943E-008	2.4237E-003
RI_1	fisher_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	1.5342E-005
RI_1	fisher_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	1.6574E-004
RI_1	fisher_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	1.0318E-005
RI_1	fisher_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.2403E-006
	Total				1.9943E-008	2.6173E-003
RI_1	fisher_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000



PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	1.9994E-005
RI_1	fisher_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.6225E-003
RI_1	fisher_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	beef	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	4.2439E-005
RI_1	fisher_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	Mercuric chloride	0.0000E+000	5.0379E-004
RI_1	fisher_child	ESSROC	soil	Mercuric chloride	0.0000E+000	2.1887E-003
	Total				0.0000E+000	2.7553E-007
RI_1	fisher_child	ESSROC	air inhalation	Mercury	0.0000E+000	2.7553E-007
	Total				0.0000E+000	2.5762E-004
RI_1	fisher_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	2.2468E-005
RI_1	fisher_child	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	Methyl mercury	0.0000E+000	1.7927E+000
RI_1	fisher_child	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	Methyl mercury	0.0000E+000	3.0065E-005
	Total				0.0000E+000	1.7930E+000
RI_1	fisher_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	8.9812E-010	1.3833E-004
RI_1	fisher_child	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	3.1528E-011	5.2488E-006
RI_1	fisher_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	fish	TetraCDD, 2,3,7,8-	1.5224E-008	2.5345E-003
RI_1	fisher_child	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	soil	TetraCDD, 2,3,7,8-	5.1504E-010	9.7694E-005
	Total				1.6669E-008	2.7758E-003
RI_1	resident_adult	ESSROC	air inhalation	Arsenic	3.5732E-008	6.4632E-004
RI_1	resident_adult	ESSROC	above ground vegetables	Arsenic	1.0602E-008	5.4971E-005
RI_1	resident_adult	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Arsenic	1.1555E-009	5.9913E-006
RI_1	resident_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Arsenic	2.7210E-015	1.4109E-011
			Total		4.7489E-008	7.0728E-004
RI_1	resident_adult	ESSROC	air inhalation	Beryllium	1.9944E-008	9.6949E-004
RI_1	resident_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	8.2262E-006
RI_1	resident_adult	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Beryllium	0.0000E+000	8.8156E-007
RI_1	resident_adult	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Beryllium	0.0000E+000	2.9524E-009
			Total		1.9944E-008	9.7860E-004
RI_1	resident_adult	ESSROC	air inhalation	Cadmium	8.7939E-008	5.6997E-004
RI_1	resident_adult	ESSROC	above ground vegetables	Cadmium	1.5765E-008	2.4200E-004
RI_1	resident_adult	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Cadmium	1.7154E-009	2.6332E-005
RI_1	resident_adult	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Cadmium	2.5973E-013	3.9872E-009
			Total		1.0542E-007	8.3831E-004
RI_1	resident_adult	ESSROC	air inhalation	Chromium, hexavalent	9.9716E-008	2.4237E-003

PATHWAY RISK BY COPC

Date: 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	6.3987E-006
RI_1	resident_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	7.4212E-005
RI_1	resident_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.4004E-007
			Total		9.9716E-008	2.5045E-003
RI_1	resident_adult	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
			Total		0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.9994E-005
RI_1	resident_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	7.2735E-004
RI_1	resident_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	0.0000E+000
			Total		0.0000E+000	1.9002E-005

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	5.3977E-005
	Total				0.0000E+000	8.2033E-004
RI_1	resident_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.7553E-007
	Total				0.0000E+000	2.7553E-007
RI_1	resident_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	1.1609E-004
RI_1	resident_adult	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	1.0060E-005
RI_1	resident_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	soil	Methyl mercury	0.0000E+000	3.2213E-006
	Total				0.0000E+000	1.2937E-004
RI_1	resident_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	1.9428E-009	6.0393E-005
RI_1	resident_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	7.0584E-011	2.3502E-006
RI_1	resident_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RL1	resident_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RL1	resident_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	2.7592E-010	1.0467E-005
	Total					
RL1	resident_child	ESSROC	air inhalation	Arsenic	2.2893E-009	7.3210E-005
RL1	resident_child	ESSROC	above ground vegetables	Arsenic	7.1464E-009	6.4632E-004
RL1	resident_child	ESSROC	beef	Arsenic	5.1020E-009	1.3227E-004
RL1	resident_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	drinking water	Arsenic	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	eggs	Arsenic	5.1611E-010	1.3381E-005
RL1	resident_child	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	soil	Arsenic	0.0000E+000	0.0000E+000
	Total				5.0792E-015	1.3168E-010
RL1	resident_child	ESSROC	air inhalation	Beryllium	1.2765E-008	7.9197E-004
RL1	resident_child	ESSROC	above ground vegetables	Beryllium	3.9887E-009	9.5949E-004
RL1	resident_child	ESSROC	beef	Beryllium	0.0000E+000	1.9794E-005
RL1	resident_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	drinking water	Beryllium	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	eggs	Beryllium	0.0000E+000	1.9688E-006
RL1	resident_child	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RL1	resident_child	ESSROC	soil	Beryllium	0.0000E+000	0.0000E+000
	Total				0.0000E+000	2.7556E-008
RL1	resident_child	ESSROC	air inhalation	Cadmium	3.9887E-009	9.9128E-004
	Total				1.7588E-008	5.6997E-004

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_child	ESSROC	above ground vegetables	Cadmium	7.5867E-009	5.8231E-004
RI_1	resident_child	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	Cadmium	7.6620E-010	5.8809E-005
RI_1	resident_child	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	Cadmium	4.8483E-013	3.7213E-008
RI_1	resident_child	ESSROC	Total	Cadmium	2.5941E-008	1.2111E-003
RI_1	resident_child	ESSROC	air inhalation	Chromium, hexavalent	1.9943E-008	2.4237E-003
RI_1	resident_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	1.5342E-005
RI_1	resident_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	1.6574E-004
RI_1	resident_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.2403E-006
RI_1	resident_child	ESSROC	Total	Chromium, hexavalent	1.9943E-008	2.6070E-003
RI_1	resident_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.9994E-005
RI_1	resident_child	ESSROC	beef	Mercuric chloride	0.0000E+000	1.6225E-003
RI_1	resident_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	4.2439E-005
RI_1	resident_child	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	Mercuric chloride	0.0000E+000	0.0000E+000
	Total				0.0000E+000	5.0379E-004
RI_1	resident_child	ESSROC	air inhalation	Mercury	0.0000E+000	2.1887E-003
	Total				0.0000E+000	2.7553E-007
RI_1	resident_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	2.7553E-007
RI_1	resident_child	ESSROC	beef	Methyl mercury	0.0000E+000	2.5762E-004
RI_1	resident_child	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	eggs	Methyl mercury	0.0000E+000	2.2468E-005
RI_1	resident_child	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000



PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_child	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	Methyl mercury	0.0000E+000	3.0065E-005
	Total				0.0000E+000	3.1016E-004
RI_1	resident_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	8.9812E-010	1.3833E-004
RI_1	resident_child	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	3.1528E-011	5.2488E-006
RI_1	resident_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	soil	TetraCDD, 2,3,7,8-	5.1504E-010	9.7694E-005
	Total				1.4447E-009	2.4127E-004
RI_2	farmer_adult	ESSROC	air inhalation	Arsenic	4.4856E-008	6.0851E-004
RI_2	farmer_adult	ESSROC	above ground vegetables	Arsenic	1.9358E-008	7.5280E-005
RI_2	farmer_adult	ESSROC	beef	Arsenic	1.0748E-008	4.1799E-005
RI_2	farmer_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	drinking water	Arsenic	1.0826E-009	4.2100E-006
RI_2	farmer_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Arsenic	5.4585E-009	2.1228E-005
RI_2	farmer_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	soil	Arsenic	2.5334E-015	1.3136E-011
	Total				8.1503E-008	7.5102E-004
RI_2	farmer_adult	ESSROC	air inhalation	Beryllium	2.5036E-008	9.1277E-004

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	1.1264E-005
RI_2	farmer_adult	ESSROC	beef	Beryllium	0.0000E+000	3.1269E-006
RI_2	farmer_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	drinking water	Beryllium	0.0000E+000	6.2431E-007
RI_2	farmer_adult	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Beryllium	0.0000E+000	4.7632E-008
RI_2	farmer_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	soil	Beryllium	0.0000E+000	2.7488E-009
	Total				2.5036E-008	9.2783E-004
RI_2	farmer_adult	ESSROC	air inhalation	Cadmium	1.1039E-007	5.3663E-004
RI_2	farmer_adult	ESSROC	above ground vegetables	Cadmium	2.8769E-008	3.3132E-004
RI_2	farmer_adult	ESSROC	beef	Cadmium	9.5770E-010	1.1027E-005
RI_2	farmer_adult	ESSROC	chicken	Cadmium	4.0834E-013	6.2684E-009
RI_2	farmer_adult	ESSROC	drinking water	Cadmium	1.6080E-009	1.8513E-005
RI_2	farmer_adult	ESSROC	eggs	Cadmium	1.0918E-014	1.6761E-010
RI_2	farmer_adult	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Cadmium	8.7817E-010	1.0111E-005
RI_2	farmer_adult	ESSROC	pork	Cadmium	2.9800E-011	3.4317E-007
RI_2	farmer_adult	ESSROC	soil	Cadmium	2.4182E-013	3.7122E-009
	Total				1.4264E-007	9.0795E-004
RI_2	farmer_adult	ESSROC	air inhalation	Chromium, hexavalent	1.2518E-007	2.2819E-003
RI_2	farmer_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	8.5405E-006
RI_2	farmer_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	1.2180E-005
RI_2	farmer_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	2.1687E-005

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	5.5132E-005
RI_2	farmer_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.2348E-007
	Total				1.2518E-007	2.3796E-003
RI_2	farmer_adult	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.8821E-005
RI_2	farmer_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	8.2569E-004
RI_2	farmer_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	1.1914E-004
RI_2	farmer_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	1.3361E-005
RI_2	farmer_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	1.7233E-005
RI_2	farmer_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	1.5183E-005
RI_2	farmer_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	5.0773E-004
RI_2	farmer_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	2.6623E-007

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	5.0661E-005
RI_2	farmer_adult	ESSROC	Total		0.0000E+000	1.5681E-003
RI_2	farmer_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
RI_2	farmer_adult	ESSROC	Total		0.0000E+000	2.5937E-007
RI_2	farmer_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	1.3674E-004
RI_2	farmer_adult	ESSROC	beef	Methyl mercury	0.0000E+000	1.6859E-006
RI_2	farmer_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	1.2883E-007
RI_2	farmer_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	9.1233E-006
RI_2	farmer_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	1.4640E-007
RI_2	farmer_adult	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	Methyl mercury	0.0000E+000	9.3385E-006
RI_2	farmer_adult	ESSROC	pork	Methyl mercury	0.0000E+000	2.6877E-009
RI_2	farmer_adult	ESSROC	soil	Methyl mercury	0.0000E+000	3.0234E-006
RI_2	farmer_adult	ESSROC	Total		0.0000E+000	1.6019E-004
RI_2	farmer_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	3.3686E-009	7.2392E-005
RI_2	farmer_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	7.3932E-008	1.2744E-003
RI_2	farmer_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	7.7590E-011	1.9885E-006
RI_2	farmer_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	8.3040E-011	1.8199E-006
RI_2	farmer_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	5.0383E-011	1.2912E-006
RI_2	farmer_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	farmer_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	2.5760E-007	4.3818E-003
RI_2	farmer_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	4.3851E-009	8.9313E-005
RI_2	farmer_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	3.8086E-010	9.7607E-006
RI_2	farmer_adult	ESSROC	Total		3.3988E-007	5.8327E-003
RI_2	farmer_child	ESSROC	air inhalation	Arsenic	6.7283E-009	6.0851E-004

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_child	ESSROC	above ground vegetables	Arsenic	6.9811E-009	1.8099E-004
RI_2	farmer_child	ESSROC	beef	Arsenic	9.9112E-010	2.5696E-005
RI_2	farmer_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	drinking water	Arsenic	3.6267E-010	9.4024E-006
RI_2	farmer_child	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Arsenic	1.3584E-009	3.5219E-005
RI_2	farmer_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	soil	Arsenic	4.7289E-015	1.2260E-010
RI_2	farmer_child	ESSROC	Total	Arsenic	1.6422E-008	8.5981E-004
RI_2	farmer_child	ESSROC	air inhalation	Beryllium	3.7554E-009	9.1277E-004
RI_2	farmer_child	ESSROC	above ground vegetables	Beryllium	0.0000E+000	2.7081E-005
RI_2	farmer_child	ESSROC	beef	Beryllium	0.0000E+000	1.9223E-006
RI_2	farmer_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	drinking water	Beryllium	0.0000E+000	1.3943E-006
RI_2	farmer_child	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Beryllium	0.0000E+000	7.9026E-008
RI_2	farmer_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	soil	Beryllium	0.0000E+000	2.5655E-008
RI_2	farmer_child	ESSROC	Total	Beryllium	3.7554E-009	9.4327E-004
RI_2	farmer_child	ESSROC	air inhalation	Cadmium	1.6559E-008	5.3663E-004
RI_2	farmer_child	ESSROC	above ground vegetables	Cadmium	1.0378E-008	7.9657E-004
RI_2	farmer_child	ESSROC	beef	Cadmium	8.8316E-011	6.7787E-006
RI_2	farmer_child	ESSROC	chicken	Cadmium	5.5682E-014	4.2739E-009
RI_2	farmer_child	ESSROC	drinking water	Cadmium	5.3868E-010	4.1346E-005

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_child	ESSROC	eggs	Cadmium	1.5722E-015	1.2068E-010
RI_2	farmer_child	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Cadmium	2.1856E-010	1.6775E-005
RI_2	farmer_child	ESSROC	pork	Cadmium	3.4142E-012	2.6205E-007
RI_2	farmer_child	ESSROC	soil	Cadmium	4.5139E-013	3.4647E-008
	Total				2.7786E-008	1.3984E-003
RI_2	farmer_child	ESSROC	air inhalation	Chromium, hexavalent	1.8776E-008	2.2819E-003
RI_2	farmer_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	2.0467E-005
RI_2	farmer_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	7.4877E-006
RI_2	farmer_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	4.8435E-005
RI_2	farmer_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	9.1470E-005
RI_2	farmer_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.0858E-006
	Total				1.8776E-008	2.4518E-003
RI_2	farmer_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIOID	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.8821E-005
RI_2	farmer_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.8369E-003
RI_2	farmer_child	ESSROC	beef	Mercuric chloride	0.0000E+000	7.3239E-005
RI_2	farmer_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	9.1098E-006
RI_2	farmer_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	3.8487E-005
RI_2	farmer_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	1.0932E-005
RI_2	farmer_child	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Mercuric chloride	0.0000E+000	8.4239E-004
RI_2	farmer_child	ESSROC	pork	Mercuric chloride	0.0000E+000	2.0331E-007
RI_2	farmer_child	ESSROC	soil	Mercuric chloride	0.0000E+000	4.7284E-004
	Total				0.0000E+000	3.3029E-003
RI_2	farmer_child	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
	Total				0.0000E+000	2.5937E-007
RI_2	farmer_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	3.0374E-004
RI_2	farmer_child	ESSROC	beef	Methyl mercury	0.0000E+000	1.0364E-006
RI_2	farmer_child	ESSROC	chicken	Methyl mercury	0.0000E+000	8.7841E-008
RI_2	farmer_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	2.0375E-005
RI_2	farmer_child	ESSROC	eggs	Methyl mercury	0.0000E+000	1.0541E-007
RI_2	farmer_child	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	Methyl mercury	0.0000E+000	1.5494E-005
RI_2	farmer_child	ESSROC	pork	Methyl mercury	0.0000E+000	2.0524E-009
RI_2	farmer_child	ESSROC	soil	Methyl mercury	0.0000E+000	2.8218E-005
	Total				0.0000E+000	3.6906E-004
RI_2	farmer_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	farmer_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	1.1073E-009	1.6596E-004
RI_2	farmer_child	ESSROC	beef	TetraCDD, 2,3,7,8-	6.7745E-009	7.8341E-004
RI_2	farmer_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	7.1476E-012	1.3558E-006
RI_2	farmer_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	2.6201E-011	4.0644E-006
RI_2	farmer_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	4.9012E-012	9.2967E-007
RI_2	farmer_child	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	farmer_child	ESSROC	milk	TetraCDD, 2,3,7,8-	6.3865E-008	7.2699E-003
RI_2	farmer_child	ESSROC	pork	TetraCDD, 2,3,7,8-	4.8142E-010	6.8202E-005
RI_2	farmer_child	ESSROC	soil	TetraCDD, 2,3,7,8-	4.8028E-010	9.1100E-005
	Total				7.2747E-008	8.3850E-003
RI_2	fisher_adult	ESSROC	air inhalation	Arsenic	3.3642E-008	6.0851E-004
RI_2	fisher_adult	ESSROC	above ground vegetables	Arsenic	5.8848E-009	5.1254E-005
RI_2	fisher_adult	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Arsenic	8.1194E-010	4.2100E-006
RI_2	fisher_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Arsenic	5.7851E-009	2.9997E-005
RI_2	fisher_adult	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Arsenic	2.5334E-015	1.3136E-011
	Total				5.0123E-008	6.9397E-004
RI_2	fisher_adult	ESSROC	air inhalation	Beryllium	1.8777E-008	9.1277E-004
RI_2	fisher_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	7.6700E-006
RI_2	fisher_adult	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Beryllium	0.0000E+000	6.2431E-007



PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_adult	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Beryllium	0.0000E+000	2.4192E-006
RI_2	fisher_adult	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Beryllium	0.0000E+000	2.7488E-009
			Total		1.8777E-008	9.2348E-004
RI_2	fisher_adult	ESSROC	air inhalation	Cadmium	8.2794E-008	5.3663E-004
RI_2	fisher_adult	ESSROC	above ground vegetables	Cadmium	1.4699E-008	2.2564E-004
RI_2	fisher_adult	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Cadmium	1.2060E-009	1.8513E-005
RI_2	fisher_adult	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Cadmium	6.8365E-008	1.0495E-003
RI_2	fisher_adult	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Cadmium	2.4182E-013	3.7122E-009
			Total		1.6706E-007	1.8303E-003
RI_2	fisher_adult	ESSROC	air inhalation	Chromium, hexavalent	9.3882E-008	2.2819E-003
RI_2	fisher_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	5.9649E-006
RI_2	fisher_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	2.1687E-005
RI_2	fisher_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	4.2832E-006
RI_2	fisher_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
			Total		0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.2348E-007
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Lead	9.3882E-008	2.3140E-003
RI_2	fisher_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.8821E-005
RI_2	fisher_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	6.8274E-004
RI_2	fisher_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	1.7233E-005
RI_2	fisher_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	0.0000E+000
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Mercury	0.0000E+000	5.0661E-005
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Mercury	0.0000E+000	7.6946E-004
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
	Total					
RI_2	fisher_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
	Total					

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	1.0902E-004
RI_2	fisher_adult	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	9.1233E-006
RI_2	fisher_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	Methyl mercury	0.0000E+000	2.3093E+000
RI_2	fisher_adult	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	Methyl mercury	0.0000E+000	3.0234E-006
RI_2	fisher_adult	ESSROC	Total	Methyl mercury	0.0000E+000	2.3094E+000
RI_2	fisher_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	1.8160E-009	5.6413E-005
RI_2	fisher_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	5.8658E-011	1.8199E-006
RI_2	fisher_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	8.9857E-008	2.7878E-003
RI_2	fisher_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	2.5729E-010	9.7607E-006
RI_2	fisher_adult	ESSROC	Total	TetraCDD, 2,3,7,8-	9.1989E-008	2.8558E-003
RI_2	fisher_child	ESSROC	air inhalation	Arsenic	6.7283E-009	6.0851E-004
RI_2	fisher_child	ESSROC	above ground vegetables	Arsenic	4.7571E-009	1.2333E-004
RI_2	fisher_child	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Arsenic	3.6267E-010	9.4024E-006

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_child	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Arsenic	8.1454E-010	2.1118E-005
RI_2	fisher_child	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Arsenic	4.7289E-015	1.2260E-010
	Total				1.2663E-008	7.6236E-004
RI_2	fisher_child	ESSROC	air inhalation	Beryllium	3.7554E-009	9.1277E-004
RI_2	fisher_child	ESSROC	above ground vegetables	Beryllium	0.0000E+000	1.8456E-005
RI_2	fisher_child	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Beryllium	0.0000E+000	1.3943E-006
RI_2	fisher_child	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Beryllium	0.0000E+000	1.7031E-006
RI_2	fisher_child	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Beryllium	0.0000E+000	0.0000E+000
	Total				3.7554E-009	2.5655E-008
RI_2	fisher_child	ESSROC	air inhalation	Cadmium	1.6559E-008	9.3434E-004
RI_2	fisher_child	ESSROC	above ground vegetables	Cadmium	7.0738E-009	5.3663E-004
RI_2	fisher_child	ESSROC	beef	Cadmium	0.0000E+000	5.4294E-004
RI_2	fisher_child	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	eggs	Cadmium	5.3868E-010	4.1346E-005
RI_2	fisher_child	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	milk	Cadmium	9.6259E-009	7.3883E-004
RI_2	fisher_child	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_child	ESSROC	soil	Cadmium	4.5139E-013	3.4647E-008
	Total				3.3798E-008	1.8598E-003
RI_2	fisher_child	ESSROC	air inhalation	Chromium, hexavalent	1.8776E-008	2.2819E-003
RI_2	fisher_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	1.4302E-005
RI_2	fisher_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	4.8435E-005
RI_2	fisher_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	3.0154E-006
RI_2	fisher_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.0858E-006
	Total				1.8776E-008	2.3497E-003
RI_2	fisher_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
	Total				0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.8821E-005
RI_2	fisher_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.5230E-003

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_child	ESSROC	beef	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	3.8487E-005
RI_2	fisher_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Mercuric chloride	0.0000E+000	4.7284E-004
RI_2	fisher_child	ESSROC	Total		0.0000E+000	2.0531E-003
RI_2	fisher_child	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
RI_2	fisher_child	ESSROC	Total		0.0000E+000	2.5937E-007
RI_2	fisher_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	2.4195E-004
RI_2	fisher_child	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	2.0375E-005
RI_2	fisher_child	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	Methyl mercury	0.0000E+000	1.6258E+000
RI_2	fisher_child	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	Methyl mercury	0.0000E+000	2.8218E-005
RI_2	fisher_child	ESSROC	Total		0.0000E+000	1.6261E+000
RI_2	fisher_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	8.3957E-010	1.2922E-004
RI_2	fisher_child	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	2.6201E-011	4.0644E-006

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	fisher_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	fish	TetraCDD, 2,3,7,8-	1.2652E-008	1.9626E-003
RI_2	fisher_child	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	soil	TetraCDD, 2,3,7,8-	4.8028E-010	9.1100E-005
	Total				1.3998E-008	2.1870E-003
RI_2	resident_adult	ESSROC	air inhalation	Arsenic	3.3642E-008	6.0851E-004
RI_2	resident_adult	ESSROC	above ground vegetables	Arsenic	9.8848E-009	5.1254E-005
RI_2	resident_adult	ESSROC	beef	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Arsenic	8.1194E-010	4.2100E-006
RI_2	resident_adult	ESSROC	eggs	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	Arsenic	2.5334E-015	1.3136E-011
	Total				4.4338E-008	6.6397E-004
RI_2	resident_adult	ESSROC	air inhalation	Beryllium	1.8777E-008	9.1277E-004
RI_2	resident_adult	ESSROC	above ground vegetables	Beryllium	0.0000E+000	7.6700E-006
RI_2	resident_adult	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Beryllium	0.0000E+000	6.2431E-007
RI_2	resident_adult	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_adult	ESSROC	soil	Beryllium	0.0000E+000	2.7488E-009
			Total		1.8777E-008	9.2106E-004
RI_2	resident_adult	ESSROC	air inhalation	Cadmium	8.2794E-008	5.3663E-004
RI_2	resident_adult	ESSROC	above ground vegetables	Cadmium	1.4699E-008	2.2564E-004
RI_2	resident_adult	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Cadmium	1.2060E-009	1.8513E-005
RI_2	resident_adult	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	Cadmium	2.4182E-013	3.7122E-009
			Total		9.8699E-008	7.8078E-004
RI_2	resident_adult	ESSROC	air inhalation	Chromium, hexavalent	9.3882E-008	2.2819E-003
RI_2	resident_adult	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	5.9649E-006
RI_2	resident_adult	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	2.1687E-005
RI_2	resident_adult	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	Chromium, hexavalent	0.0000E+000	0.0000E+000
			Total		0.0000E+000	2.2348E-007
RI_2	resident_adult	ESSROC	air inhalation	Lead	9.3882E-008	2.3097E-003
RI_2	resident_adult	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
			Total		0.0000E+000	0.0000E+000



PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_adult	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
			Total		0.0000E+000	1.8821E-005
RI_2	resident_adult	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	6.8274E-004
RI_2	resident_adult	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	beef	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Mercuric chloride	0.0000E+000	1.7233E-005
RI_2	resident_adult	ESSROC	drinking water	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Mercuric chloride	0.0000E+000	5.0661E-005
RI_2	resident_adult	ESSROC	soil	Mercuric chloride	0.0000E+000	7.6946E-004
			Total		0.0000E+000	2.5937E-007
RI_2	resident_adult	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
			Total		0.0000E+000	1.0902E-004
RI_2	resident_adult	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	Methyl mercury	0.0000E+000	9.1233E-006

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_adult	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	Methyl mercury	0.0000E+000	3.0234E-006
RI_2	resident_adult	ESSROC	Total		0.0000E+000	1.2117E-004
RI_2	resident_adult	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	beef	TetraCDD, 2,3,7,8-	1.8160E-009	5.6413E-005
RI_2	resident_adult	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	drinking water	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	eggs	TetraCDD, 2,3,7,8-	5.8658E-011	1.8199E-006
RI_2	resident_adult	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	soil	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	Total		2.5729E-010	9.7607E-006
RI_2	resident_child	ESSROC	air inhalation	Arsenic	2.1319E-009	6.7993E-005
RI_2	resident_child	ESSROC	above ground vegetables	Arsenic	6.7283E-009	6.0851E-004
RI_2	resident_child	ESSROC	beef	Arsenic	4.7571E-009	1.2333E-004
RI_2	resident_child	ESSROC	chicken	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	eggs	Arsenic	3.6267E-010	9.4024E-006
RI_2	resident_child	ESSROC	fish	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Arsenic	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Arsenic	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_child	ESSROC	soil	Arsenic	4.7289E-015	1.2260E-010
	Total				1.1848E-008	7.4124E-004
RI_2	resident_child	ESSROC	air inhalation	Beryllium	3.7554E-009	9.1277E-004
RI_2	resident_child	ESSROC	above ground vegetables	Beryllium	0.0000E+000	1.8456E-005
RI_2	resident_child	ESSROC	beef	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Beryllium	0.0000E+000	1.3943E-006
RI_2	resident_child	ESSROC	eggs	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Beryllium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Beryllium	0.0000E+000	2.5655E-008
	Total				3.7554E-009	9.3264E-004
RI_2	resident_child	ESSROC	air inhalation	Cadmium	1.6559E-008	5.3663E-004
RI_2	resident_child	ESSROC	above ground vegetables	Cadmium	7.0738E-009	5.4294E-004
RI_2	resident_child	ESSROC	beef	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Cadmium	5.3868E-010	4.1346E-005
RI_2	resident_child	ESSROC	eggs	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Cadmium	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Cadmium	4.5139E-013	3.4647E-008
	Total				2.4172E-008	1.1209E-003
RI_2	resident_child	ESSROC	air inhalation	Chromium, hexavalent	1.8776E-008	2.2819E-003
RI_2	resident_child	ESSROC	above ground vegetables	Chromium, hexavalent	0.0000E+000	1.4302E-005

PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_child	ESSROC	beef	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Chromium, hexavalent	0.0000E+000	4.8435E-005
RI_2	resident_child	ESSROC	eggs	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Chromium, hexavalent	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Chromium, hexavalent	0.0000E+000	2.0858E-006
			Total		1.8776E-008	2.3467E-003
RI_2	resident_child	ESSROC	air inhalation	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	above ground vegetables	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	beef	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	eggs	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Lead	0.0000E+000	0.0000E+000
			Total		0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	air inhalation	Mercuric chloride	0.0000E+000	1.8821E-005
RI_2	resident_child	ESSROC	above ground vegetables	Mercuric chloride	0.0000E+000	1.5230E-003
RI_2	resident_child	ESSROC	beef	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Mercuric chloride	0.0000E+000	3.8487E-005
RI_2	resident_child	ESSROC	eggs	Mercuric chloride	0.0000E+000	0.0000E+000

PATHWAY RISK BY COPC

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_child	ESSROC	fish	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Mercuric chloride	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Mercuric chloride	0.0000E+000	4.7284E-004
	Total				0.0000E+000	2.0531E-003
RI_2	resident_child	ESSROC	air inhalation	Mercury	0.0000E+000	2.5937E-007
	Total				0.0000E+000	2.5937E-007
RI_2	resident_child	ESSROC	above ground vegetables	Methyl mercury	0.0000E+000	2.4195E-004
RI_2	resident_child	ESSROC	beef	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	Methyl mercury	0.0000E+000	2.0375E-005
RI_2	resident_child	ESSROC	eggs	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	Methyl mercury	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	soil	Methyl mercury	0.0000E+000	2.8218E-005
	Total				0.0000E+000	2.9054E-004
RI_2	resident_child	ESSROC	air inhalation	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	above ground vegetables	TetraCDD, 2,3,7,8-	8.3957E-010	1.2922E-004
RI_2	resident_child	ESSROC	beef	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	chicken	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	drinking water	TetraCDD, 2,3,7,8-	2.6201E-011	4.0644E-006
RI_2	resident_child	ESSROC	eggs	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	fish	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	milk	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	pork	TetraCDD, 2,3,7,8-	0.0000E+000	0.0000E+000

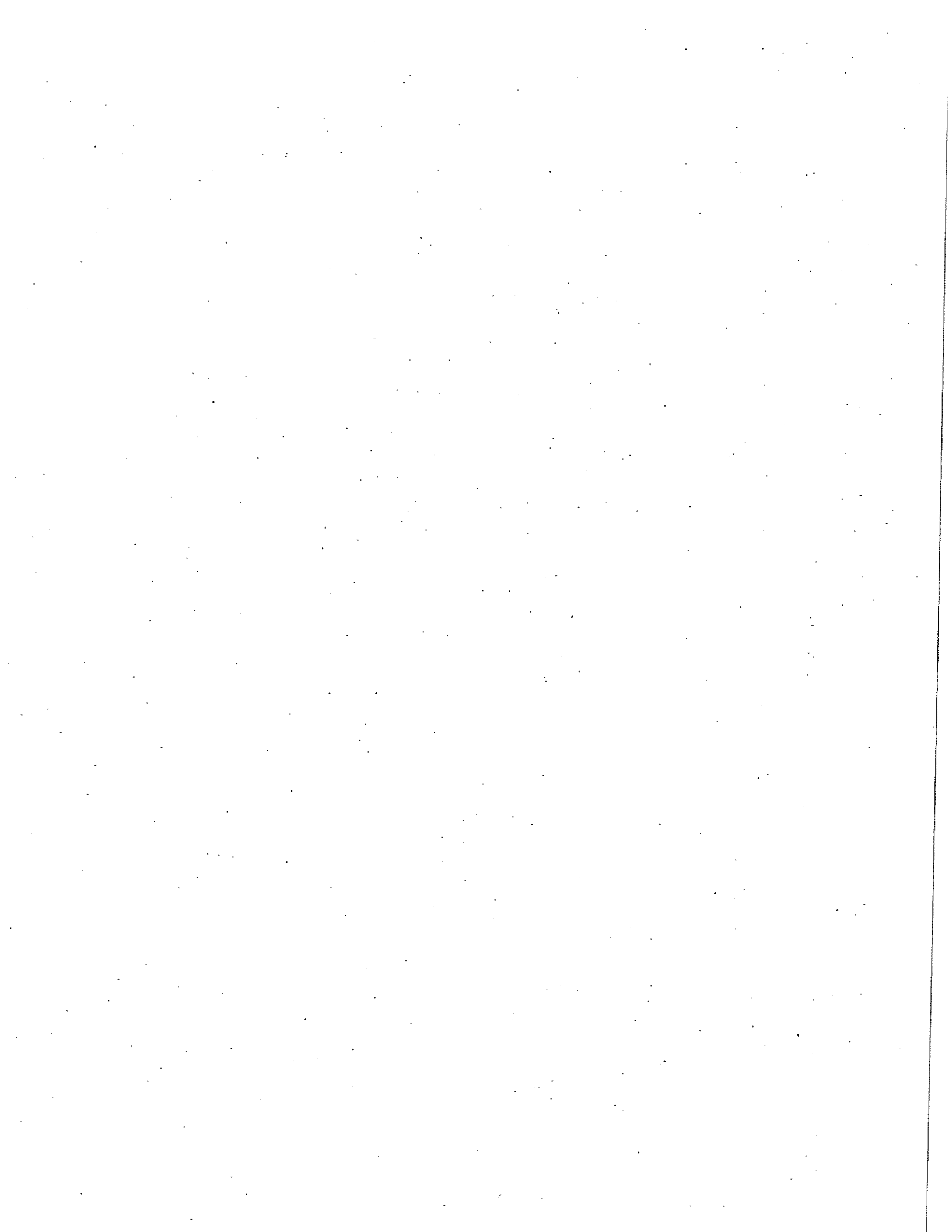
PATHWAY RISK BY COPC

Date : 5/28/2012

RECEPTOR	SCENARIO	SOURCE	PATHWAY	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RJ_2	resident_child	ESSROC	soil	TetraCDD, 2,3,7,8-	4.8028E-010	9.1100E-005
			Total		1.3461E-009	2.2439E-004

### Site-Specific Modified Parameters

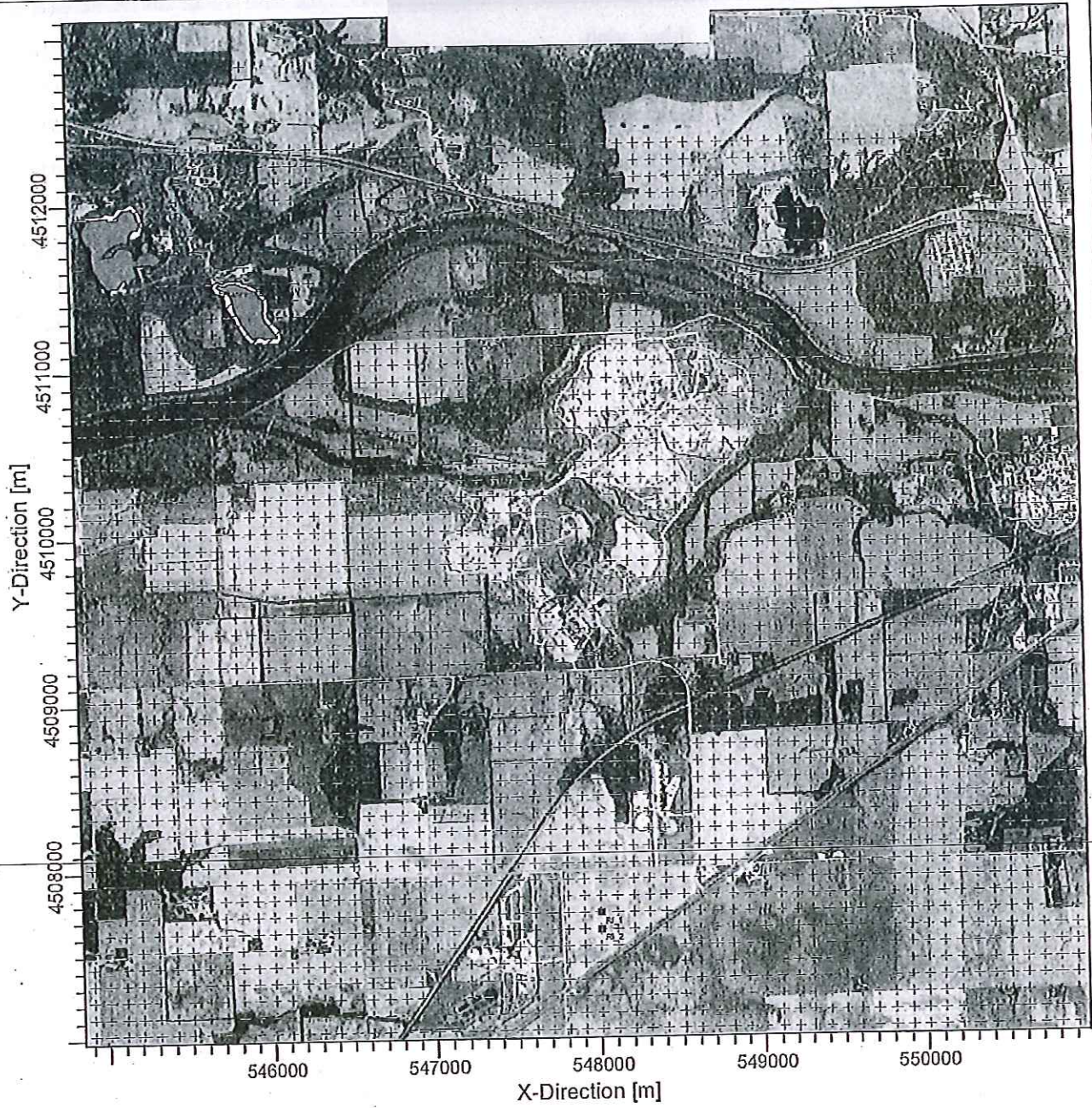
Risk Receptor	Description	Symbol	Current	Original	Comments
RI_1	Average annual evapotranspiration	e-v	60		
RI_1	Average annual irrigation	i	0		
RI_1	Average annual precipitation	p	96.5		
RI_1	Average annual runoff	r	30		
RI_1	Wind velocity	w	2.16	3.9	
RI_2	Average annual evapotranspiration	e-v	60		
RI_2	Average annual irrigation	i	0		
RI_2	Average annual precipitation	p	96.5		
RI_2	Average annual runoff	r	30		
RI_2	Wind velocity	w	2.16	3.9	





*RA field report  
Appendix*

PROJECT TITLE:  
Essroc, Logansport, IN  
June 19, 2012



COMMENTS:  
ESSROC Facility with Waterbodies and Grid

COMPANY NAME: <b>USEPA R5 LCD RB</b>	
MODELER: <b>C. Lambesis</b>	
SCALE: 1:38,544	
DATE: 6/21/2012	PROJECT NO.: <b>ESSROC</b>

RISK SUMMARY

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	4.8846E-007	2.5566E+000
RI_1	fisher_child	9.4157E-008	1.8038E+000
RI_1	resident_adult	2.7486E-007	6.0299E-003
RI_1	resident_child	6.4082E-008	8.2694E-003
RI_2	fisher_adult	4.2184E-007	2.3180E+000
RI_2	fisher_child	8.2990E-008	1.6355E+000
RI_2	resident_adult	2.5783E-007	5.6140E-003
RI_2	resident_child	5.9898E-008	7.6425E-003

RISK BY COPC

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	ESSROC	Arsenic	5.5722E-008	7.4997E-004
RI_1	fisher_adult	ESSROC	Beryllium	1.9944E-008	9.8201E-004
RI_1	fisher_adult	ESSROC	Cadmium	2.0266E-007	2.3310E-003
RI_1	fisher_adult	ESSROC	Chromium, hexavalent	9.9716E-008	2.5192E-003
RI_1	fisher_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_adult	ESSROC	Mercuric chloride	0.0000E+000	8.2033E-004
RI_1	fisher_adult	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	fisher_adult	ESSROC	Methyl mercury	0.0000E+000	2.5466E+000
RI_1	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	1.1041E-007	2.5714E-003
			Total	4.8846E-007	2.5566E+000
RI_1	fisher_child	ESSROC	Arsenic	1.3924E-008	8.2203E-004
RI_1	fisher_child	ESSROC	Beryllium	3.9887E-009	9.9368E-004
RI_1	fisher_child	ESSROC	Cadmium	3.9632E-008	2.2620E-003
RI_1	fisher_child	ESSROC	Chromium, hexavalent	1.9943E-008	2.6173E-003
RI_1	fisher_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	fisher_child	ESSROC	Mercuric chloride	0.0000E+000	2.1887E-003
RI_1	fisher_child	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	fisher_child	ESSROC	Methyl mercury	0.0000E+000	1.7930E+000
RI_1	fisher_child	ESSROC	TetraCDD, 2,3,7,8-	1.6669E-008	1.9431E-003
			Total	9.4157E-008	1.8038E+000
RI_1	resident_adult	ESSROC	Arsenic	4.7489E-008	7.0728E-004
RI_1	resident_adult	ESSROC	Beryllium	1.9944E-008	9.7860E-004
RI_1	resident_adult	ESSROC	Cadmium	1.0542E-007	8.3831E-004
RI_1	resident_adult	ESSROC	Chromium, hexavalent	9.9716E-008	2.5045E-003
RI_1	resident_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	resident_adult	ESSROC	Mercuric chloride	0.0000E+000	8.2033E-004
RI_1	resident_adult	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	resident_adult	ESSROC	Methyl mercury	0.0000E+000	1.2937E-004
RI_1	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	2.2893E-009	5.1247E-005
			Total	2.7486E-007	6.0299E-003
RI_1	resident_child	ESSROC	Arsenic	1.2765E-008	7.9197E-004
RI_1	resident_child	ESSROC	Beryllium	3.9887E-009	9.9128E-004
RI_1	resident_child	ESSROC	Cadmium	2.5941E-008	1.2111E-003
RI_1	resident_child	ESSROC	Chromium, hexavalent	1.9943E-008	2.6070E-003
RI_1	resident_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_1	resident_child	ESSROC	Mercuric chloride	0.0000E+000	2.1887E-003

RISK BY COPC

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_child	ESSROC	Mercury	0.0000E+000	2.7553E-007
RI_1	resident_child	ESSROC	Methyl mercury	0.0000E+000	3.1016E-004
RI_1	resident_child	ESSROC	TetraCDD, 2,3,7,8-	1.4447E-009	1.6889E-004
			Total	6.4082E-008	8.2694E-003
RI_2	fisher_adult	ESSROC	Arsenic	5.0123E-008	6.9397E-004
RI_2	fisher_adult	ESSROC	Beryllium	1.8777E-008	9.2348E-004
RI_2	fisher_adult	ESSROC	Cadmium	1.6706E-007	1.8303E-003
RI_2	fisher_adult	ESSROC	Chromium, hexavalent	9.3882E-008	2.3140E-003
RI_2	fisher_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_adult	ESSROC	Mercuric chloride	0.0000E+000	7.6946E-004
RI_2	fisher_adult	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	fisher_adult	ESSROC	Methyl mercury	0.0000E+000	2.3094E+000
RI_2	fisher_adult	ESSROC	TetraCDD, 2,3,7,8-	9.1989E-008	1.9991E-003
			Total	4.2184E-007	2.3180E+000
RI_2	fisher_child	ESSROC	Arsenic	1.2663E-008	7.6236E-004
RI_2	fisher_child	ESSROC	Beryllium	3.7554E-009	9.3434E-004
RI_2	fisher_child	ESSROC	Cadmium	3.3798E-008	1.8598E-003
RI_2	fisher_child	ESSROC	Chromium, hexavalent	1.8776E-008	2.3497E-003
RI_2	fisher_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	fisher_child	ESSROC	Mercuric chloride	0.0000E+000	2.0531E-003
RI_2	fisher_child	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	fisher_child	ESSROC	Methyl mercury	0.0000E+000	1.6261E+000
RI_2	fisher_child	ESSROC	TetraCDD, 2,3,7,8-	1.3998E-008	1.5309E-003
			Total	8.2990E-008	1.6355E+000
RI_2	resident_adult	ESSROC	Arsenic	4.4338E-008	6.6397E-004
RI_2	resident_adult	ESSROC	Beryllium	1.8777E-008	9.2106E-004
RI_2	resident_adult	ESSROC	Cadmium	9.8699E-008	7.8078E-004
RI_2	resident_adult	ESSROC	Chromium, hexavalent	9.3882E-008	2.3097E-003
RI_2	resident_adult	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	resident_adult	ESSROC	Mercuric chloride	0.0000E+000	7.6946E-004
RI_2	resident_adult	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	resident_adult	ESSROC	Methyl mercury	0.0000E+000	1.2117E-004
RI_2	resident_adult	ESSROC	TetraCDD, 2,3,7,8-	2.1319E-009	4.7595E-005
			Total	2.5783E-007	5.6140E-003
RI_2	resident_child	ESSROC	Arsenic	1.1848E-008	7.4124E-004
RI_2	resident_child	ESSROC	Beryllium	3.7554E-009	9.3264E-004

## RISK BY COPC

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	SOURCE	COPC	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_child	ESSROC	Cadmium	2.4172E-008	1.1209E-003
RI_2	resident_child	ESSROC	Chromium, hexavalent	1.8776E-008	2.3467E-003
RI_2	resident_child	ESSROC	Lead	0.0000E+000	0.0000E+000
RI_2	resident_child	ESSROC	Mercuric chloride	0.0000E+000	2.0531E-003
RI_2	resident_child	ESSROC	Mercury	0.0000E+000	2.5937E-007
RI_2	resident_child	ESSROC	Methyl mercury	0.0000E+000	2.9054E-004
RI_2	resident_child	ESSROC	TetraCDD, 2,3,7,8-	1.3461E-009	1.5707E-004
RI_2	resident_child	ESSROC	Total	5.9898E-008	7.6425E-003

PATHWAY RISK

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	fisher_adult	air inhalation	2.4333E-007	4.6297E-003
RI_1	fisher_adult	above ground vegetables	2.8309E-008	1.1973E-003
RI_1	fisher_adult	beef	0.0000E+000	0.0000E+000
RI_1	fisher_adult	chicken	0.0000E+000	0.0000E+000
RI_1	fisher_adult	drinking water	2.9414E-009	1.3812E-004
RI_1	fisher_adult	eggs	0.0000E+000	0.0000E+000
RI_1	fisher_adult	fish	2.1360E-007	2.5505E+000
RI_1	fisher_adult	milk	0.0000E+000	0.0000E+000
RI_1	fisher_adult	pork	0.0000E+000	0.0000E+000
RI_1	fisher_adult	soil	2.7618E-010	6.4773E-005
		soil	4.8846E-007	2.5566E+000
RI_1	fisher_child	air inhalation	4.8666E-008	4.6297E-003
RI_1	fisher_child	above ground vegetables	1.3587E-008	2.7266E-003
RI_1	fisher_child	beef	0.0000E+000	0.0000E+000
RI_1	fisher_child	chicken	0.0000E+000	0.0000E+000
RI_1	fisher_child	drinking water	1.3138E-009	3.0848E-004
RI_1	fisher_child	eggs	0.0000E+000	0.0000E+000
RI_1	fisher_child	fish	3.0075E-008	1.7956E+000
RI_1	fisher_child	milk	0.0000E+000	0.0000E+000
RI_1	fisher_child	pork	0.0000E+000	0.0000E+000
RI_1	fisher_child	soil	5.1553E-010	6.0454E-004
		soil	9.4157E-008	1.8038E+000
RI_1	resident_adult	air inhalation	2.4333E-007	4.6297E-003
RI_1	resident_adult	above ground vegetables	2.8309E-008	1.1973E-003
RI_1	resident_adult	beef	0.0000E+000	0.0000E+000
RI_1	resident_adult	chicken	0.0000E+000	0.0000E+000
RI_1	resident_adult	drinking water	2.9414E-009	1.3812E-004
RI_1	resident_adult	eggs	0.0000E+000	0.0000E+000
RI_1	resident_adult	fish	0.0000E+000	0.0000E+000
RI_1	resident_adult	milk	0.0000E+000	0.0000E+000
RI_1	resident_adult	pork	0.0000E+000	0.0000E+000
RI_1	resident_adult	soil	2.7618E-010	6.4773E-005
		soil	2.7486E-007	6.0299E-003
RI_1	resident_child	air inhalation	4.8666E-008	4.6297E-003
RI_1	resident_child	above ground vegetables	1.3587E-008	2.7266E-003
RI_1	resident_child	beef	0.0000E+000	0.0000E+000

PATHWAY RISK

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_1	resident_child	chicken	0.0000E+000	0.0000E+000
RI_1	resident_child	drinking water	1.3138E-009	3.0848E-004
RI_1	resident_child	eggs	0.0000E+000	0.0000E+000
RI_1	resident_child	fish	0.0000E+000	0.0000E+000
RI_1	resident_child	milk	0.0000E+000	0.0000E+000
RI_1	resident_child	pork	0.0000E+000	0.0000E+000
RI_1	resident_child	soil	5.1553E-010	6.0454E-004
		soil	6.4082E-008	8.2694E-003
RI_2	fisher_adult	air inhalation	2.2909E-007	4.3588E-003
RI_2	fisher_adult	above ground vegetables	2.6400E-008	1.1218E-003
RI_2	fisher_adult	beef	0.0000E+000	0.0000E+000
RI_2	fisher_adult	chicken	0.0000E+000	0.0000E+000
RI_2	fisher_adult	drinking water	2.0766E-009	7.2665E-005
RI_2	fisher_adult	eggs	0.0000E+000	0.0000E+000
RI_2	fisher_adult	fish	1.6401E-007	2.3124E+000
RI_2	fisher_adult	milk	0.0000E+000	0.0000E+000
RI_2	fisher_adult	pork	0.0000E+000	0.0000E+000
RI_2	fisher_adult	soil	2.5754E-010	6.0747E-005
		soil	4.2184E-007	2.3180E+000
RI_2	fisher_child	air inhalation	4.5819E-008	4.3588E-003
RI_2	fisher_child	above ground vegetables	1.2670E-008	2.5544E-003
RI_2	fisher_child	beef	0.0000E+000	0.0000E+000
RI_2	fisher_child	chicken	0.0000E+000	0.0000E+000
RI_2	fisher_child	drinking water	9.2755E-010	1.6228E-004
RI_2	fisher_child	eggs	0.0000E+000	0.0000E+000
RI_2	fisher_child	fish	2.3092E-008	1.6279E+000
RI_2	fisher_child	milk	0.0000E+000	0.0000E+000
RI_2	fisher_child	pork	0.0000E+000	0.0000E+000
RI_2	fisher_child	soil	4.8073E-010	5.6697E-004
		soil	8.2990E-008	1.6355E+000
RI_2	resident_adult	air inhalation	2.2909E-007	4.3588E-003
RI_2	resident_adult	above ground vegetables	2.6400E-008	1.1218E-003
RI_2	resident_adult	beef	0.0000E+000	0.0000E+000
RI_2	resident_adult	chicken	0.0000E+000	0.0000E+000
RI_2	resident_adult	drinking water	2.0766E-009	7.2665E-005
RI_2	resident_adult	eggs	0.0000E+000	0.0000E+000

PATHWAY RISK

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	PATHWAY	TOTAL CANCER RISK	TOTAL HAZARD QUOTIENT
RI_2	resident_adult	fish	0.0000E+000	0.0000E+000
RI_2	resident_adult	milk	0.0000E+000	0.0000E+000
RI_2	resident_adult	pork	0.0000E+000	0.0000E+000
RI_2	resident_adult	soil	2.5754E-010	6.0747E-005
		soil	2.5783E-007	5.6140E-003
RI_2	resident_child	air inhalation	4.5819E-008	4.3588E-003
RI_2	resident_child	above ground vegetables	1.2670E-008	2.5544E-003
RI_2	resident_child	beef	0.0000E+000	0.0000E+000
RI_2	resident_child	chicken	0.0000E+000	0.0000E+000
RI_2	resident_child	drinking water	9.2755E-010	1.6228E-004
RI_2	resident_child	eggs	0.0000E+000	0.0000E+000
RI_2	resident_child	fish	0.0000E+000	0.0000E+000
RI_2	resident_child	milk	0.0000E+000	0.0000E+000
RI_2	resident_child	pork	0.0000E+000	0.0000E+000
RI_2	resident_child	soil	4.8073E-010	5.6697E-004
		soil	5.9898E-008	7.6425E-003



## LEAD EXPOSURE

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	SOURCE	AVERAGE SOIL CONCENTRATION (mg/kg)	MAXIMUM SOIL CONCENTRATION (mg/kg)	AIR CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )
RI_1	fisher_adult	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	fisher_child	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_adult	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_child	ESSROC	1.7344E-005	1.7349E-005	1.1888E-004
RI_2	fisher_adult	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	fisher_child	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_adult	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_child	ESSROC	1.6148E-005	1.6153E-005	1.1192E-004

CUMULATIVE LEAD EXPOSURE

Date : 6/21/2012

RECEPTOR NAME	SCENARIO	AVERAGE SOIL CONCENTRATION (mg/kg)	MAXIMUM SOIL CONCENTRATION (mg/kg)	AIR CONCENTRATION (µg/m <sup>3</sup> )
RI_1	fisher_adult	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	fisher_child	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_adult	1.7344E-005	1.7349E-005	1.1888E-004
RI_1	resident_child	1.7344E-005	1.7349E-005	1.1888E-004
RI_2	fisher_adult	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	fisher_child	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_adult	1.6148E-005	1.6153E-005	1.1192E-004
RI_2	resident_child	1.6148E-005	1.6153E-005	1.1192E-004

## Site-Specific Modified Parameters

<i>Risk Receptor</i>	<i>Description</i>	<i>Symbol</i>	<i>Current</i>	<i>Original</i>
RI_1	Average annual evapotranspiration	e.v	60	
RI_1	Average annual irrigation	i	0	
RI_1	Average annual precipitation	p	96.5	
RI_1	Average annual runoff	r	30	
RI_1	Wind velocity	w	2.16	3.9
RI_2	Average annual evapotranspiration	e.v	60	
RI_2	Average annual irrigation	i	0	
RI_2	Average annual precipitation	p	96.5	
RI_2	Average annual runoff	r	30	
RI_2	Wind velocity	w	2.16	3.9

# Source List

SOURCE	UTM X	UTM Y	ACTIVE
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ESSROC	547910.000	4509328.000	Yes
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# Source Specific Emission Rate

SOURCE: ESSROC

UTM X: 547910.000

UTM Y: 4509328.000

Active: Yes

CAS NO.	COPC NAME	EMISSION RATE
7440-38-2	Arsenic	1.82E-03
7440-41-7	Beryllium	1.82E-03
7440-43-9	Cadmium	1.07E-02
18540-29-9	Chromium, hexavalent	1.82E-03
7439-92-1	Lead	1.07E-02
7487-94-7	Mercuric chloride	2.07E-003
7439-97-6	Mercury	7.78E-006
1746-01-6	TetraCDD, 2,3,7,8-	6.48E-09

**EXPOSURE SCENARIOS EVALUATED**



Resident Adult



Resident Child



Farmer Adult



Farmer Child



Fisher Adult

RECEPTOR	UTM X	UTM Y	WB TYPE	WB ID	
RI_1 Entire Grid Quarry Lake	548,010.00	4,507,728.00		France Quarry	Yes
RI_2 Entire Grid Lake Elzbeck	548,010.00	4,507,628.00		Lake Elzbeck	Yes

AIR PARAMETERS

Date: 6/21/2012

RECEPTOR: RI\_1 UTM X: 548,010.00 UTM Y: 4,507,728.00

Entire Grid Quarry Lake

SOURCE: ESSROC

AIR PARAMETER DESCRIPTION	VALUE	SYMBOL	UNITS
Hourly air concentration - particle phase	0	chp	ug-s/g-m <sup>3</sup>
Hourly air concentration - particle bound	0	chp_pb	ug-s/g-m <sup>3</sup>
Hourly air concentration - vapor phase	0	chv	ug-s/g-m <sup>3</sup>
Hourly air concentration - vapor phase hg	0	chv_hg	ug-s/g-m <sup>3</sup>
Air concentration - particle phase	0.01111	cyp	ug-s/g-m <sup>3</sup>
Air concentration - particle bound	0.01116	cyp_pb	ug-s/g-m <sup>3</sup>
Air concentration - vapor phase	0.01114	cyv	ug-s/g-m <sup>3</sup>
Air concentration - vapor phase hg	0.01108	cyv_hg	ug-s/g-m <sup>3</sup>
Dry deposition - particle phase	0.00269	dydp	s/m <sup>2</sup> year
Dry deposition - particle bound	0.00055	dydp_pb	s/m <sup>2</sup> year
Dry deposition - vapor phase	0.00117	dydv	s/m <sup>2</sup> year
Dry deposition - vapor phase hg	0.00504	dydv_hg	s/m <sup>2</sup> year
Wet deposition - particle phase	0.00282	dywp	s/m <sup>2</sup> year
Wet deposition - particle bound	0.00049	dywp_pb	s/m <sup>2</sup> year
Wet deposition - vapor phase	0.00031	dywv	s/m <sup>2</sup> year
Wet deposition - vapor phase hg	0.00082	dywv_hg	s/m <sup>2</sup> year

RECEPTOR: RI\_2 UTM X: 548,010.00 UTM Y: 4,507,628.00

Entire Grid Lake Elzbeck

SOURCE: ESSROC

AIR PARAMETER DESCRIPTION	VALUE	SYMBOL	UNITS
Hourly air concentration - particle phase	0	chp	ug-s/g-m <sup>3</sup>
Hourly air concentration - particle bound	0	chp_pb	ug-s/g-m <sup>3</sup>
Hourly air concentration - vapor phase	0	chv	ug-s/g-m <sup>3</sup>
Hourly air concentration - vapor phase hg	0	chv_hg	ug-s/g-m <sup>3</sup>
Air concentration - particle phase	0.01046	cyp	ug-s/g-m <sup>3</sup>
Air concentration - particle bound	0.01051	cyp_pb	ug-s/g-m <sup>3</sup>
Air concentration - vapor phase	0.01049	cyv	ug-s/g-m <sup>3</sup>
Air concentration - vapor phase hg	0.01043	cyv_hg	ug-s/g-m <sup>3</sup>
Dry deposition - particle phase	0.00251	dydp	s/m <sup>2</sup> year
Dry deposition - particle bound	0.00051	dydp_pb	s/m <sup>2</sup> year
Dry deposition - vapor phase	0.00109	dydv	s/m <sup>2</sup> year
Dry deposition - vapor phase hg	0.00473	dydv_hg	s/m <sup>2</sup> year
Wet deposition - particle phase	0.00262	dywp	s/m <sup>2</sup> year
Wet deposition - particle bound	0.00046	dywp_pb	s/m <sup>2</sup> year
Wet deposition - vapor phase	0.00029	dywv	s/m <sup>2</sup> year
Wet deposition - vapor phase hg	0.00077	dywv_hg	s/m <sup>2</sup> year





SITE PARAMETERS

Date : 6/21/2012

RECEPTOR: RI_1	UTM X: 548,010.00	UTM Y: 4,507,728.00
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SITE PARAMETER	VALUE	SYMBOL	UNITS
Average annual precipitation	96.5	p	cm/yr
Fraction of grain grown on contam. soil eaten by PIGS	1.0	pork_fi_grain	--
Fraction of silage grown on contam. soil and eaten by PIGS	1.0	pork_fi_silage	--
Qty of grain eaten by PIGS each day	3.3	pork_qp_grain	kg DW/day
Qty of silage eaten by PIGS each day	1.4	pork_qp_silage	kg DW/day
Qty of soil eaten by CATTLE	0.5	qs_beef	kg/day
Qty of soil eaten by CHICKEN	0.022	qs_chick	kg/day
Qty of soil eaten by DAIRY CATTLE	0.4	qs_milk	kg/day
Qty of soil eaten by PIGS	0.37	qs_pork	kg/day
Average annual runoff	30	r	cm/yr
Density of air	1.2e-3	rho_a	g/cm^3
Solids particle density	2.7	rho_s	g/cm^3
Interception fraction - edible portion ABOVEGROUND	0.39	rp	--
Interception fraction - edible portion FORAGE	0.5	rp_forage	--
Interception fraction - edible portion SILAGE	0.46	rp_silage	--
Ambient air temperature	298	t	K
Temperature correction factor	1.026	theta	--
Soil volumetric water content	0.2	theta_s	mL/cm^3
Length of plant expos. to depos. - ABOVEGROUND	0.16	tp	Yr
Length of plant expos. to depos. - FORAGE	0.12	tp_forage	Yr
Length of plant expos. to depos. - SILAGE	0.16	tp_silage	Yr
Dry deposition velocity	0.5	vdv	cm/s
Dry deposition velocity for mercury	2.9	vdv_hg	cm/s
Wind velocity	2.16	w	m/s
Yield/standing crop biomass - edible portion ABOVEGROUND	2.24	yp	kg DW/m^2
Yield/standing crop biomass - edible portion FORAGE	0.24	yp_forage	kg DW/m^2
Yield/standing crop biomass - edible portion SILAGE	0.8	yp_silage	kg DW/m^2
Soil mixing zone depth	2.0	z	cm
Soil mixing zone depth for produce	2.0	z_p	cm

SITE PARAMETERS

Date : 6/21/2012

RECEPTOR: RI\_2 UTM X: 548,010.00 UTM Y: 4,507,628.00

SITE PARAMETER	VALUE	SYMBOL	UNITS
Soil dry bulk density	1.5	bd	g/cm <sup>3</sup>
Forage fraction grown on contam. soil eaten by CATTLE	1.0	beef_fi_forage	--
Grain fraction grown on contam. soil eaten by CATTLE	1.0	beef_fi_grain	--
Silage fraction grown on contam. eaten by CATTLE	1.0	beef_fi_silage	--
Qty of forage eaten by CATTLE each day	8.8	beef_qp_forage	kg DW/day
Qty of grain eaten by CATTLE each day	0.47	beef_qp_grain	kg DW/day
Qty of silage eaten by CATTLE each day	2.5	beef_qp_silage	kg DW/day
Grain fraction grown on contam. soil eaten by CHICKEN	1.0	chick_fi_grain	--
Qty of grain eaten by CHICKEN each day	0.2	chick_qp_grain	kg DW/day
Average annual evapotranspiration	60	e_v	cm/yr
Fish lipid content	0.07	f_lipid	--
Fraction of CHICKEN's diet that is soil	0.1	fd_chicken	--
Universal gas constant	8.205e-5	gas_r	atm-m <sup>3</sup> /mol-K
Average annual irrigation	0	i	cm/yr
Plant surface loss coefficient	18	kp	yr <sup>-1</sup>
Fraction of mercury emissions NOT lost to the global cycle	0.48	merc_d_corr	--
Fraction of mercury speciated into methyl mercury in Aboveground	0.22	mercmethyl_pd	--
Fraction of mercury speciated into methyl mercury in Aboveground	0.22	mercmethyl_pv	--
Fraction of mercury speciated into methyl mercury in soil	0.02	mercmethyl_sc	--
Forage fraction grown contam. soil, eaten by MILK CATTLE	1.0	milk_fi_forage	--
Grain fraction grown contam. soil, eaten by MILK CATTLE	1.0	milk_fi_grain	--
Silage fraction grown contam. soil, eaten by MILK CATTLE	1.0	milk_fi_silage	--
Qty of forage eaten by MILK CATTLE each day	13.2	milk_qp_forage	kg DW/day
Qty of grain eaten by MILK CATTLE each day	3.0	milk_qp_grain	kg DW/day
Qty of silage eaten by MILK CATTLE each day	4.1	milk_qp_silage	kg DW/day
Averaging time	1	milkfat_at	yr
Body weight of infant	9.4	milkfat_bw_infant	kg
Exposure duration of infant to breast milk	1	milkfat_ed	yr
Proportion of ingested dioxin that is stored in fat	0.9	milkfat_f1	--
Proportion of mothers weight that is fat	0.3	milkfat_f2	--
Fraction of fat in breast milk	0.04	milkfat_f3	--
Fraction of ingested contaminant that is absorbed	0.9	milkfat_f4	--
Half-life of dioxin in adults	2555	milkfat_h	days
Ingestion rate of breast milk	0.688	milkfat_ir_milk	kg/day
Viscosity of air corresponding to air temp.	1.81e-04	mu_a	g/cm-s

SITE PARAMETERS

Date : 6/21/2012













RECEPTOR: RL2	UTM X: 548,010.00	UTM Y: 4,507,628.00
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SITE PARAMETER	VALUE	SYMBOL	UNITS
Average annual precipitation	96.5	p	cm/yr
Fraction of grain grown on contam. soil eaten by PIGS	1.0	pork_fi_grain	--
Fraction of silage grown on contam. soil and eaten by PIGS	1.0	pork_fi_silage	--
Qty of grain eaten by PIGS each day	3.3	pork_qp_grain	kg DW/day
Qty of silage eaten by PIGS each day	1.4	pork_qp_silage	kg DW/day
Qty of soil eaten by CATTLE	0.5	qs_beef	kg/day
Qty of soil eaten by CHICKEN	0.022	qs_chick	kg/day
Qty of soil eaten by DAIRY CATTLE	0.4	qs_milk	kg/day
Qty of soil eaten by PIGS	0.37	qs_pork	kg/day
Average annual runoff	30	r	cm/yr
Density of air	1.2e-3	rho_a	g/cm^3
Solids particle density	2.7	rho_s	g/cm^3
Interception fraction - edible portion ABOVEGROUND	0.39	rp	--
Interception fraction - edible portion FORAGE	0.5	rp_forage	--
Interception fraction - edible portion SILAGE	0.46	rp_silage	--
Ambient air temperature	298	t	K
Temperature correction factor	1.026	theta	--
Soil volumetric water content	0.2	theta_s	mL/cm^3
Length of plant expos. to depos. - ABOVEGROUND	0.16	tp	Yr
Length of plant expos. to depos. - FORAGE	0.12	tp_forage	Yr
Length of plant expos. to depos. - SILAGE	0.16	tp_silage	Yr
Dry deposition velocity	0.5	vdv	cm/s
Dry deposition velocity for mercury	2.9	vdv_hg	cm/s
Wind velocity	2.16	w	m/s
Yield/standing crop biomass - edible portion ABOVEGROUND	2.24	yp	kg DW/m^2
Yield/standing crop biomass - edible portion FORAGE	0.24	yp_forage	kg DW/m^2
Yield/standing crop biomass - edible portion SILAGE	0.8	yp_silage	kg DW/m^2
Soil mixing zone depth	2.0	z	cm
Soil mixing zone depth for produce	2.0	z_p	cm

EXPOSURE SCENARIO PARAMETERS

Date : 6/21/2012













RECEPTOR: RL1 UTM X: 548,010.00 UTM Y: 4,507,728.00

	 Resident Adult Yes	 Resident Child Yes	 Farmer Adult Yes	 Farmer Child Yes	 Fisher Adult Yes	 Fisher Child Yes	
DESCRIPTION							UNITS
Averaging time for carcinogens	70	70	70	70	70	70	yr
Averaging time for noncarcinogens	30	6	40	6	30	6	yr
Consumption rate of BEEF	0.0	0.0	0.00122	0.00075	0.0	0.0	kg/kg-day FW
Body weight	70	15	70	15	70	15	kg
Consumption rate of POULTRY	0.0	0.0	0.00066	0.00045	0.0	0.0	kg/kg-day FW
Consumption rate of ABOVEGROUND PRODUCE	0.00032	0.00077	0.00047	0.00113	0.00032	0.00077	kg/kg-day DW
Consumption rate of BELOWGROUND PRODUCE	0.00014	0.00023	0.00017	0.00028	0.00014	0.00023	kg/kg-day DW
Consumption rate of DRINKING WATER	1.4	0.67	1.4	0.67	1.4	0.67	L/day
Consumption rate of PROTECTED ABOVEGROUND P	0.00061	0.0015	0.00064	0.00157	0.00061	0.00150	kg/kg-day DW
Consumption rate of SOIL	0.0001	0.0002	0.0001	0.0002	0.0001	0.0002	kg/d
Exposure duration	30	6	40	6	30	6	yr
Exposure frequency	350	350	350	350	350	350	day/yr
Consumption rate of EGGS	0.0	0.0	0.00075	0.00054	0.0	0.0	kg/kg-day FW
Fraction of contaminated ABOVEGROUND PRODUCE	1.0	1.0	1.0	1.0	1.0	1.0	--
Fraction of contaminated DRINKING WATER	1.0	1.0	1.0	1.0	1.0	1.0	--
Fraction contaminated SOIL	1.0	1.0	1.0	1.0	1.0	1.0	--
Consumption rate of FISH	0.0	0.0	0.0	0.0	0.00125	0.00088	kg/kg-day FW
Fraction of contaminated FISH	1.0	1.0	1.0	1.0	1.0	1.0	--
Inhalation exposure duration	30	6	40	6	30	6	yr
Inhalation exposure frequency	350	350	350	350	350	350	day/yr
Inhalation exposure time	24	24	24	24	24	24	hr/day
Fraction of contaminated BEEF	1	1	1	1	1	1	--
Fraction of contaminated POULTRY	1	1	1	1	1	1	--
Fraction of contaminated EGGS	1	1	1	1	1	1	--
Fraction of contaminated MILK	1	1	1	1	1	1	--
Fraction of contaminated PORK	1	1	1	1	1	1	--
Inhalation rate	0.83	0.30	0.83	0.30	0.83	0.30	m <sup>3</sup> /hr
Consumption rate of MILK	0.0	0.0	0.01367	0.02268	0.0	0.0	kg/kg-day FW
Consumption rate of PORK	0.0	0.0	0.00055	0.00042	0.0	0.0	kg/kg-day FW
Time period at the beginning of combustion	0	0	0	0	0	0	yr
Length of exposure duration	30	6	40	6	30	6	yr

EXPOSURE SCENARIO PARAMETERS

Date : 6/21/2012

RECEPTOR: RI\_2 UTM X: 548,010.00 UTM Y: 4,507,628.00

	 Resident Adult Yes	 Resident Child Yes	 Farmer Adult No	 Farmer Child No	 Fisher Adult Yes	 Fisher Child Yes	
DESCRIPTION							UNITS
Averaging time for carcinogens	70	70	70	70	70	70	yr
Averaging time for noncarcinogens	30	6	40	6	30	6	yr
Consumption rate of BEEF	0.0	0.0	0.00122	0.00075	0.0	0.0	kg/kg-day FW
Body weight	70	15	70	15	70	15	kg
Consumption rate of POULTRY	0.0	0.0	0.00066	0.00045	0.0	0.0	kg/kg-day FW
Consumption rate of ABOVEGROUND PRODUCE	0.00032	0.00077	0.00047	0.00113	0.00032	0.00077	kg/kg-day DW
Consumption rate of BELOWGROUND PRODUCE	0.00014	0.00023	0.00017	0.00028	0.00014	0.00023	kg/kg-day DW
Consumption rate of DRINKING WATER	1.4	0.67	1.4	0.67	1.4	0.67	L/day
Consumption rate of PROTECTED ABOVEGROUND P	0.00061	0.0015	0.00064	0.00157	0.00061	0.00150	kg/kg-day DW
Consumption rate of SOIL	0.0001	0.0002	0.0001	0.0002	0.0001	0.0002	kg/d
Exposure duration	30	6	40	6	30	6	yr
Exposure frequency	350	350	350	350	350	350	day/yr
Consumption rate of EGGS	0.0	0.0	0.00075	0.00054	0.0	0.0	kg/kg-day FW
Fraction of contaminated ABOVEGROUND PRODUCE	1.0	1.0	1.0	1.0	1.0	1.0	--
Fraction of contaminated DRINKING WATER	1.0	1.0	1.0	1.0	1.0	1.0	--
Fraction contaminated SOIL	1.0	1.0	1.0	1.0	1.0	1.0	--
Consumption rate of FISH	0.0	0.0	0.0	0.0	0.00125	0.00088	kg/kg-day FW
Fraction of contaminated FISH	1.0	1.0	1.0	1.0	1.0	1.0	--
Inhalation exposure duration	30	6	40	6	30	6	yr
Inhalation exposure frequency	350	350	350	350	350	350	day/yr
Inhalation exposure time	24	24	24	24	24	24	hr/day
Fraction of contaminated BEEF	1	1	1	1	1	1	--
Fraction of contaminated POULTRY	1	1	1	1	1	1	--
Fraction of contaminated EGGS	1	1	1	1	1	1	--
Fraction of contaminated MILK	1	1	1	1	1	1	--
Fraction of contaminated PORK	1	1	1	1	1	1	--
Inhalation rate	0.83	0.30	0.83	0.30	0.83	0.30	m <sup>3</sup> /hr
Consumption rate of MILK	0.0	0.0	0.01367	0.02268	0.0	0.0	kg/kg-day FW
Consumption rate of PORK	0.0	0.0	0.00055	0.00042	0.0	0.0	kg/kg-day FW
Time period at the beginning of combustion	0	0	0	0	0	0	yr
Length of exposure duration	30	6	40	6	30	6	yr