Table D4.1. Toxicity Values and Information Used in Soils OU RI 2 Risk Analysis

AnaType	Analyte	GI Absorption Factor	RfDo	RfDd	RfC	RfDi	SFo	SFow	SFos	SFof	SFd	IUR	SFe	PEF Res	PEF Ind	VF Res	VF Ind	EPA_ABS	KY_ABS	Kp	Lambda
I	Aluminum	1	1	1	0.005									930000000	620000000				0.05	0.001	
I	Antimony	0.15	0.0004	0.00006										930000000	620000000				0.05	0.001	
I	Arsenic	1	0.0003	0.0003	0.000015		1.5				1.5	0.0000043		930000000	620000000			0.03	0.03	0.001	
I	Barium	0.07	0.2	0.014	0.0005									930000000	620000000				0.05	0.001	
I	Beryllium	0.007	0.002	0.000014	0.00002							0.0000024		930000000	620000000				0.007	0.001	
I	Boron	1	0.2	0.2	0.02									930000000	620000000				0.05	0.001	
I	Cadmium	0.025	0.001	0.000025	0.00001							0.0000018		930000000	620000000			0.001	0.001	0.001	
I	Chromium	0.013	1.5	0.0195								0.000084		930000000	620000000				0.013	0.001	
I	Cobalt	1	0.0003	0.0003	0.000006							0.000009		930000000	620000000				0.05	0.0004	
I	Copper	1	0.04	0.04										930000000	620000000				0.05	0.001	
I	Iron	1	0.7	0.7										930000000	620000000				0.05	0.001	
I	Manganese	0.04	0.024	0.00096	0.00005									930000000	620000000				0.04	0.001	
I	Mercury	0.07	0.0003	0.000021										930000000	620000000				0.05	0.001	
I	Molybdenum	1	0.005	0.005										930000000	620000000				0.05	0.001	
I	Nickel	0.04	0.02	0.0008	0.00009							0.00000026		930000000	620000000				0.04	0.0002	
I	Selenium	1	0.005	0.005	0.02									930000000	620000000				0.05	0.001	
I	Silver	0.04	0.005	0.0002										930000000	620000000				0.04	0.0006	
I	Thallium	1	0.00001	0.00001										930000000	620000000				0.05	0.001	
I	Uranium	1	0.003	0.003	0.00004									930000000	620000000				0.05	0.001	
I	Vanadium	0.026	0.00504	0.00013104	0.0001									930000000	620000000				0.026	0.001	
I	Zinc	1	0.3	0.3										930000000	620000000				0.05	0.0006	
O	Benzo[a]pyrene	1					7.3				7.3	0.0000011		930000000	620000000			0.13	0.13	0.713	
O	Dioxins/Furans, Total	1	7E-10		0.00000004		130000				130000	0.038		930000000	620000000			0.03	0.03	0.808	
O	PAH, Total	1					7.3				7.3	0.0000011		930000000	620000000			0.13	0.13	0.713	
O	PCB, Total	1					2				2	0.000000571		930000000	620000000			0.14	0.14	0.545	
O	Pentachlorophenol	1	0.005	0.005			0.4				0.4	0.0000051		930000000	620000000			0.25	0.1	0.127	
R	Americium-241	0.0005						1.04E-10	1.84E-10			3.77E-08	2.77E-08	930000000	620000000						0.0016
R	Cesium-137	1						3.05E-11	4.26E-11			1.12E-10	0.00000253	930000000	620000000						0.023
R	Cobalt-60	0.1						1.58E-11	3.81E-11			1.01E-10	0.0000124	930000000	620000000						0.131
R	Neptunium-237	0.0005						6.85E-11	1.41E-10			2.87E-08	0.000000855	930000000	620000000						0.000000323
R	Plutonium-238	0.0005						1.31E-10	2.25E-10			5.22E-08	6.91E-11	930000000	620000000						0.0079
R	Plutonium-239	0.0005						1.35E-10	2.28E-10			5.55E-08	2.09E-10	930000000	620000000						0.0000287
R	Plutonium-239/240	0.0005						1.35E-10	2.28E-10			5.55E-08	2.09E-10	930000000	620000000						0.0000287
R	Plutonium-240	0.0005						1.35E-10	2.28E-10			5.55E-08	7.12E-11	930000000	620000000						0.000106
R	Protactinium-231	0.0005						1.72E-10	2.98E-10			7.62E-08	0.000000127	930000000	620000000						0.0000212
R	Radium-228	0.2						1.04E-09	1.98E-09			4.37E-08	0.00000404	930000000	620000000						0.121
R	Technetium-99	0.5						2.75E-12	7.25E-12			3.81E-11	8.28E-11	930000000	620000000						0.00000328
R	Thorium-229	0.0005						2.23E-10	3.85E-10			0.000000175	0.000000224	930000000	620000000						0.0000944
R	Thorium-230	0.0005						9.14E-11	1.66E-10			3.41E-08	8.45E-10	930000000	620000000						0.00000919
R	Uranium-234	0.02						7.07E-11	1.48E-10			2.78E-08	2.53E-10	930000000	620000000						0.00000282
R	Uranium-235	0.02						7.18E-11	1.54E-10			0.000000025	0.000000576	930000000	620000000						9.84E-10
R	Uranium-238	0.02						8.7E-11	1.97E-10			2.37E-08	0.000000119	930000000	620000000						1.55E-10