Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values for AOC 204, EU 20

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**1.8E-04**	PCB, Total	8%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		Protactinium-231	1%	Dermal	7%				Dermal	
		Uranium-234	1%	Inhalation	0%					
		Uranium-235	5%	External exposure	82%				Inhalation	
		Uranium-238	85%							
Future Industrial Worker	**3.1E-03**	PCB, Total	8%	Ingestion	10%	**9.5**	Molybdenum	2%	Ingestion	20%
(surface soil)		Cesium-137	<1%	Dermal	7%		Nickel	2%	Dermal	79%
		Protactinium-231	1%	Inhalation	0%		Uranium	89%	Inhalation	1%
		Uranium-234	1%	External exposure	82%		Vanadium	7%		
		Uranium-235	5%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	PCB, Total	8%	Ingestion	52%	**19.3**	Molybdenum	2%	Ingestion	71%
(surface soil)		Americium-241	<1%	Dermal	4%		Nickel	1%	Dermal	29%
		Cesium-137	<1%	Inhalation	0%		Uranium	94%	Inhalation	0%
		Protactinium-231	1%	External exposure	44%		Vanadium	3%		
		Uranium-234	3%							
		Uranium-235	3%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	Arsenic	1%	Ingestion	53%	**21.1**	Arsenic	1%	Ingestion	68%
(surface and subsurface		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	32%
soil)		Americium-241	<1%	Inhalation	0%		Iron	1%	Inhalation	0%
		Cesium-137	<1%	External exposure	43%		Manganese	4%		
		Protactinium-231	1%				Molybdenum	2%		
		Uranium-234	3%				Nickel	1%		
		Uranium-235	3%				Silver	1%		
		Uranium-238	84%				Uranium	86%		
							Vanadium	3%		

Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values for AOC 204, EU 20 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker (surface and subsurface soil)	**8.8E-04**	Arsenic	1%	Ingestion	52%	**21.1**	Arsenic	1%	Ingestion	68%
		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	32%
		Cesium-137	<1%	Inhalation	0%		Iron	1%	Inhalation	0%
		Protactinium-231	1%	External exposure	43%		Manganese	4%		
		Uranium-234	3%				Molybdenum	2%		
		Uranium-235	3%				Nickel	1%		
		Uranium-238	84%				Silver	1%		
							Uranium	86%		
							Vanadium	3%		
Future Adult Resident (surface soil)	**1.0E-02**	PCB, Total	10%	Ingestion	12%	**23.9**	Molybdenum	2%	Ingestion	23%
		Americium-241	<1	Dermal	7%		Nickel	2%	Dermal	76%
		Cesium-137	<1	Inhalation	0%		Uranium	89%	Inhalation	1%
		Protactinium-231	1%	External exposure	80%		Vanadium	7%		
		Uranium-234	1%							
		Uranium-235	5%							
		Uranium-238	84%							
Future Child Resident (surface soil)	See Future Adult Resident					**101.1**	Beryllium	0%	Ingestion	57%
							Molybdenum	2%	Dermal	43%
							Nickel	1%	Inhalation	0%
							Uranium	92%		
							Vanadium	4%		

Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values for AOC 204, EU 20 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**1.9E-03**	PCB, Total	24%	Ingestion	26%	**7.0**	Molybdenum	2%	Ingestion	23%
		Cesium-137	<1%	Dermal	19%		Nickel	2%	Dermal	77%
		Protactinium-231	1%	Inhalation	0%		Uranium	89%	Inhalation	0%
		Uranium-234	1%	External exposure	55%		Vanadium	7%		
		Uranium-235	3%							
		Uranium-238	70%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**20.9**	Molybdenum	2%	Ingestion	19%
							Nickel	2%	Dermal	81%
							Uranium	88%	Inhalation	0%
							Vanadium	7%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**40.4**	Molybdenum	2%	Ingestion	57%
							Nickel	1%	Dermal	43%
							Uranium	92%	Inhalation	0%
							Vanadium	4%		

Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs.

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.