Table D8.31. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 80, EU 2

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**7.4E-05**	PCB, Total	3%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-235	6%	Dermal	3%				Dermal	
		Uranium-238	88%	Inhalation	0%				Inhalation	
				External exposure	86%					
Future Industrial Worker	**1.3E-03**	PAH, Total	1%	Ingestion	10%	**6.6**	Antimony	23%	Ingestion	15%
(surface soil)		PCB, Total	3%	Dermal	3%		Cobalt	2%	Dermal	84%
		Americium-241	<1%	Inhalation	0%		Molybdenum	3%	Inhalation	1%
		Cesium-137	1%	External exposure	86%		Nickel	2%		
		Neptunium-237	<1%				Uranium	56%		
		Uranium-234	1%				Vanadium	12%		
		Uranium-235	6%							
		Uranium-238	88%							
Outdoor Worker	**1.8E-03**	PAH, Total	1%	Ingestion	52%	**11.2**	Antimony	13%	Ingestion	63%
(surface soil)		PCB, Total	3%	Dermal	2%		Cobalt	2%	Dermal	37%
		Americium-241	<1%	Inhalation	0%		Iron	2%	Inhalation	0%
		Cesium-137	<1%	External exposure	46%		Molybdenum	4%		
		Neptunium-237	<1%				Nickel	1%		
		Uranium-234	4%				Uranium	71%		
		Uranium-235	4%				Vanadium	6%		
		Uranium-238	88%							

Table D8.31. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 80, EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**1.9E-03**	Arsenic	1%	Ingestion	53%	**13.3**	Antimony	15%	Ingestion	56%
(surface and subsurface		PAH, Total	1%	Dermal	2%		Arsenic	1%	Dermal	44%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Americium-241	<1%	External exposure	45%		Iron	2%		
		Cesium-137	<1%				Manganese	9%		
		Neptunium-237	<1%				Molybdenum	4%		
		Uranium-234	4%				Nickel	3%		
		Uranium-235	4%				Uranium	60%		
		Uranium-238	87%				Vanadium	5%		
Excavation Worker	**3.7E-04**	Arsenic	1%	Ingestion	53%	**13.3**	Antimony	15%	Ingestion	56%
(surface and subsurface		PAH, Total	1%	Dermal	2%		Arsenic	1%	Dermal	44%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Cesium-137	<1%	External exposure	45%		Iron	2%		
		Uranium-234	4%				Manganese	9%		
		Uranium-235	4%				Molybdenum	4%		
		Uranium-238	87%				Nickel	3%		
							Uranium	60%		
							Vanadium	5%		
Future Adult Resident	**4.4E-03**	PAH, Total	1%	Ingestion	12%	**16.5**	Antimony	22%	Ingestion	17%
(surface soil)		PCB, Total	4%	Dermal	3%		Cobalt	2%	Dermal	82%
		Americium-241	<1%	Inhalation	0%		Iron	1%	Inhalation	1%
		Cesium-137	1%	External exposure	85%		Molybdenum	3%		
		Neptunium-237	<1%				Nickel	2%		
		Uranium-234	1%				Uranium	57%		
		Uranium-235	6%				Vanadium	11%		
		Uranium-238	88%							

Table D8.31. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 80, EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Child Resident (surface soil)	See Future Adult Resident					**61.9**	Antimony	16%	Ingestion	48%
							Barium	0%	Dermal	52%
							Cobalt	2%	Inhalation	0%
							Iron	2%		
							Mercury	0%		
							Molybdenum	4%		
							Nickel	1%		
							Uranium	66%		
							Vanadium	8%		
Future Adult Recreational User (surface soil)	**7.3E-04**	PAH, Total	2%	Ingestion	26%	**4.9**	Antimony	22%	Ingestion	17%
		PCB, Total	10%	Dermal	9%		Molybdenum	3%	Dermal	83%
		Cesium-137	<1%	Inhalation	0%		Nickel	2%	Inhalation	0%
		Uranium-234	2%	External exposure	64%		Uranium	56%		
		Uranium-235	5%				Vanadium	12%		
		Uranium-238	81%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**14.6**	Antimony	23%	Ingestion	14%
							Cobalt	2%	Dermal	86%
							Iron	1%	Inhalation	0%
							Molybdenum	3%		
							Nickel	2%		
							Uranium	55%		
							Vanadium	12%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**24.7**	Antimony	16%	Ingestion	48%
							Cobalt	2%	Dermal	52%
							Iron	2%	Inhalation	0%
							Molybdenum	4%		
							Nickel	1%		
							Uranium	66%		
							Vanadium	8%		

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.

Table D8.31. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 80, EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI

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