Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**3.6E-05**	Arsenic	3%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	3%	Dermal	7%				Dermal	
		Uranium-235	6%	Inhalation	0%				Inhalation	
		Uranium-238	82%	External exposure	81%					
Future Industrial Worker	**6.4E-04**	Arsenic	3%	Ingestion	11%	**11.2**	Antimony	16%	Ingestion	4%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	1%	Dermal	96%
		PCB, Total	3%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	2%	External exposure	81%		Iron	2%		
		Uranium-234	1%				Manganese	18%		
		Uranium-235	6%				Mercury	7%		
		Uranium-238	82%				Molybdenum	1%		
							Nickel	45%		
							Uranium	1%		
							Vanadium	4%		
Outdoor Worker	**9.3E-04**	Arsenic	6%	Ingestion	55%	**11.0**	Antimony	17%	Ingestion	28%
(surface soil)		PAH, Total	2%	Dermal	4%		Arsenic	3%	Dermal	72%
		PCB, Total	3%	Inhalation	0%		Cobalt	4%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	2%		
		Technetium-99	1%				Iron	5%		
		Thorium-230	0%				Manganese	15%		
		Uranium-234	5%				Mercury	6%		
		Uranium-235	4%				Molybdenum	2%		
		Uranium-238	78%				Nickel	38%		
							Thallium	1%		
							Uranium	3%		
							Vanadium	3%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**1.2E-03**	Arsenic	6%	Ingestion	54%	**19.6**	Antimony	15%	Ingestion	43%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	2%	Dermal	57%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Technetium-99	0%				Iron	3%		
		Thorium-230	0%				Manganese	9%		
		Uranium-234	5%				Mercury	7%		
		Uranium-235	4%				Molybdenum	1%		
		Uranium-238	76%				Nickel	21%		
							Thallium	35%		
							Uranium	2%		
							Vanadium	2%		
Excavation Worker	**2.4E-04**	Arsenic	6%	Ingestion	54%	**19.6**	Antimony	15%	Ingestion	43%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	2%	Dermal	57%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Uranium-234	5%				Iron	3%		
		Uranium-235	4%				Manganese	9%		
		Uranium-238	76%				Mercury	7%		
							Molybdenum	1%		
							Nickel	21%		
							Thallium	35%		
							Uranium	2%		
							Vanadium	2%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Resident	**2.2E-03**	Arsenic	5%	Ingestion	14%	**27.4**	Antimony	16%	Ingestion	4%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	1%	Dermal	95%
		PCB, Total	4%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	2%	External exposure	78%		Copper	1%		
		Technetium-99	0%				Iron	2%		
		Thorium-230	0%				Manganese	18%		
		Uranium-234	1%				Mercury	7%		
		Uranium-235	6%				Molybdenum	1%		
		Uranium-238	79%				Nickel	45%		
							Silver	1%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	4%		
Future Child Resident	See Future Adult Resident					**75.2**	Antimony	17%	Ingestion	17%
(surface soil)							Arsenic	2%	Dermal	83%
							Barium	0%	Inhalation	0%
							Cadmium	0%		
							Cobalt	3%		
							Copper	1%		
							Iron	4%		
							Manganese	16%		
							Mercury	6%		
							Molybdenum	2%		
							Nickel	41%		
							Silver	1%		
							Thallium	1%		
							Uranium	2%		
							Vanadium	4%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (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)	**4.1E-04**	Arsenic	11%	Ingestion	29%	**8.1**	Antimony	16%	Ingestion	4%
		PAH, Total	7%	Dermal	18%		Cobalt	2%	Dermal	96%
		PCB, Total	10%	Inhalation	0%		Iron	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	52%		Manganese	18%		
		Uranium-234	2%				Mercury	7%		
		Uranium-235	4%				Nickel	45%		
		Uranium-238	65%				Uranium	1%		
							Vanadium	4%		
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**25.1**	Antimony	16%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Cobalt	2%	Inhalation	0%
							Copper	1%		
							Iron	2%		
							Manganese	18%		
							Mercury	7%		
							Molybdenum	1%		
							Nickel	45%		
							Silver	1%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	4%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**30.1**	Antimony	17%	Ingestion	17%
							Arsenic	2%	Dermal	83%
							Cobalt	3%	Inhalation	0%
							Copper	1%		
							Iron	4%		
							Manganese	16%		
							Mercury	6%		
							Molybdenum	2%		
							Nickel	41%		
							Silver	1%		
							Thallium	1%		
							Uranium	2%		
							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.