Table D8.28. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, EU 4

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**4.1E-05**	Arsenic	6%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	9%	Dermal	15%				Dermal	
		PCB, Total	4%	Inhalation	0%				Inhalation	
		Uranium-235	6%	External exposure	72%					
		Uranium-238	71%							
Future Industrial Worker	**7.2E-04**	Arsenic	6%	Ingestion	13%	**8.3**	Antimony	2%	Ingestion	6%
(surface soil)		PAH, Total	9%	Dermal	15%		Arsenic	3%	Dermal	94%
		PCB, Total	4%	Inhalation	0%		Mercury	64%	Inhalation	0%
		Cesium-137	1%	External exposure	72%		Molybdenum	3%		
		Neptunium-237	2%				Nickel	6%		
		Plutonium-239/240	<1%				Uranium	11%		
		Technetium-99	<1%				Vanadium	10%		
		Thorium-230	<1%							
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	71%							
Outdoor Worker	**1.1E-03**	Arsenic	11%	Ingestion	58%	**9.3**	Antimony	2%	Ingestion	38%
(surface soil)		PAH, Total	8%	Dermal	7%		Arsenic	8%	Dermal	62%
		PCB, Total	3%	Inhalation	0%		Iron	2%	Inhalation	0%
		Cesium-137	1%	External exposure	35%		Mercury	49%		
		Neptunium-237	1%				Molybdenum	5%		
		Plutonium-239/240	1%				Nickel	4%		
		Technetium-99	1%				Uranium	22%		
		Thorium-230	2%				Vanadium	8%		
		Uranium-234	6%							
		Uranium-235	3%							
		Uranium-238	64%							

Table D8.28. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, EU 4 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**1.3E-03**	Arsenic	9%	Ingestion	56%	**70.1**	Antimony	3%	Ingestion	17%
(surface and subsurface		PAH, Total	5%	Dermal	5%		Arsenic	1%	Dermal	83%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	0%	Inhalation	0%
		Cesium-137	2%	External exposure	39%		Copper	0%		
		Neptunium-237	9%				Iron	0%		
		Plutonium-239/240	1%				Manganese	1%		
		Technetium-99	5%				Mercury	2%		
		Thorium-230	2%				Molybdenum	1%		
		Uranium-234	9%				Nickel	86%		
		Uranium-235	4%				Silver	1%		
		Uranium-238	52%				Thallium	1%		
							Uranium	3%		
							Vanadium	1%		
Excavation Worker	**2.7E-04**	Arsenic	9%	Ingestion	55%	**70.1**	Antimony	3%	Ingestion	17%
(surface and subsurface		PAH, Total	5%	Dermal	5%		Arsenic	1%	Dermal	83%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	0%	Inhalation	0%
		Cesium-137	3%	External exposure	39%		Copper	0%		
		Neptunium-237	9%				Iron	0%		
		Plutonium-239/240	1%				Manganese	1%		
		Technetium-99	5%				Mercury	2%		
		Thorium-230	2%				Molybdenum	1%		
		Uranium-234	8%				Nickel	86%		
		Uranium-235	4%				Silver	1%		
		Uranium-238	52%				Thallium	1%		
							Uranium	3%		
							Vanadium	1%		

Table D8.28. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, EU 4 (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	**2.5E-03**	Arsenic	9%	Ingestion	18%	**20.4**	Antimony	2%	Ingestion	7%
(surface soil)		PAH, Total	10%	Dermal	14%		Arsenic	3%	Dermal	93%
		PCB, Total	4%	Inhalation	0%		Iron	1%	Inhalation	0%
		Cesium-137	1%	External exposure	68%		Mercury	63%		
		Neptunium-237	1%				Molybdenum	3%		
		Plutonium-239/240	<1%				Nickel	6%		
		Technetium-99	<1%				Uranium	12%		
		Thorium-230	<1%				Vanadium	10%		
		Uranium-234	1%							
		Uranium-235	5%							
		Uranium-238	67%							
Future Child Resident	See Future Adult Resident					**60.1**	Aluminum	0%	Ingestion	25%
(surface soil)							Antimony	2%	Dermal	75%
							Arsenic	6%	Inhalation	0%
							Iron	1%		
							Mercury	55%		
							Molybdenum	4%		
							Nickel	5%		
							Uranium	18%		
							Vanadium	9%		

Table D8.28. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, EU 4 (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)	**5.6E-04**	Arsenic	18%	Ingestion	32%	**6.1**	Antimony	2%	Ingestion	7%
		PAH, Total	20%	Dermal	30%		Arsenic	3%	Dermal	93%
		PCB, Total	8%	Inhalation	0%		Mercury	63%	Inhalation	0%
		Cesium-137	1%	External exposure	38%		Molybdenum	3%		
		Neptunium-237	1%				Nickel	6%		
		Plutonium-239/240	<1%				Uranium	12%		
		Technetium-99	<1%				Vanadium	10%		
		Thorium-230	1%							
		Uranium-234	2%							
		Uranium-235	3%							
		Uranium-238	46%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**18.6**	Antimony	2%	Ingestion	6%
							Arsenic	3%	Dermal	94%
							Iron	1%	Inhalation	0%
							Mercury	64%		
							Molybdenum	3%		
							Nickel	6%		
							Uranium	11%		
							Vanadium	10%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**24.0**	Antimony	2%	Ingestion	25%
							Arsenic	6%	Dermal	75%
							Iron	1%	Inhalation	0%
							Mercury	55%		
							Molybdenum	4%		
							Nickel	5%		
							Uranium	17%		
							Vanadium	9%		

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.