Table D8.27. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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	**7.4E-06**	Arsenic	40%	Ingestion	16%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	22%	Dermal	50%				Dermal	
		Cesium-137	30%	Inhalation	0%				Inhalation	
				External exposure	34%					
Future Industrial Worker	**1.3E-04**	Arsenic	40%	Ingestion	16%	**9.9**	Arsenic	3%	Ingestion	5%
(surface soil)		PAH, Total	3%	Dermal	50%		Mercury	64%	Dermal	95%
		PCB, Total	22%	Inhalation	0%		Molybdenum	3%	Inhalation	0%
		Cesium-137	30%	External exposure	34%		Nickel	4%		
		Neptunium-237	1%				Silver	6%		
		Uranium-238	3%				Thallium	7%		
							Uranium	1%		
							Vanadium	9%		
Outdoor Worker	**2.3E-04**	Arsenic	64%	Ingestion	65%	**10.7**	Arsenic	9%	Ingestion	35%
(surface soil)		PAH, Total	2%	Dermal	21%		Iron	2%	Dermal	65%
		PCB, Total	17%	Inhalation	0%		Mercury	52%	Inhalation	0%
		Cesium-137	13%	External exposure	15%		Molybdenum	5%		
		Neptunium-237	1%				Nickel	3%		
		Uranium-234	1%				Silver	5%		
		Uranium-238	3%				Thallium	14%		
							Uranium	3%		
							Vanadium	7%		

Table D8.27. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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	**2.1E-04**	Arsenic	71%	Ingestion	68%	**8.1**	Antimony	22%	Ingestion	42%
(surface and subsurface		PAH, Total	3%	Dermal	20%		Arsenic	11%	Dermal	58%
soil)		PCB, Total	11%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Pentachlorophenol	1%	External exposure	12%		Iron	3%		
		Cesium-137	11%				Manganese	7%		
		Neptunium-237	1%				Mercury	14%		
		Uranium-234	1%				Molybdenum	7%		
		Uranium-238	2%				Nickel	4%		
							Silver	4%		
							Thallium	13%		
							Uranium	4%		
							Vanadium	9%		
Excavation Worker	**4.3E-05**	Arsenic	69%	Ingestion	66%	**8.1**	Antimony	22%	Ingestion	42%
(surface and subsurface		PAH, Total	2%	Dermal	20%		Arsenic	11%	Dermal	58%
soil)		PCB, Total	11%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Cesium-137	13%	External exposure	14%		Iron	3%		
							Manganese	7%		
							Mercury	14%		
							Molybdenum	7%		
							Nickel	4%		
							Silver	4%		
							Thallium	13%		
							Uranium	4%		
							Vanadium	9%		

Table D8.27. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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	**5.6E-04**	Arsenic	50%	Ingestion	35%	**24.3**	Arsenic	4%	Ingestion	6%
(surface soil)		PAH, Total	3%	Dermal	39%		Barium	1%	Dermal	94%
		PCB, Total	20%	Inhalation	0%		Iron	1%	Inhalation	0%
		Cesium-137	23%	External exposure	26%		Mercury	64%		
		Neptunium-237	1%				Molybdenum	3%		
		Uranium-235	0%				Nickel	4%		
		Uranium-238	2%				Silver	6%		
							Thallium	7%		
							Uranium	1%		
							Vanadium	9%		
Future Child Resident	See Future Adult Resident					**70.0**	Antimony	0%	Ingestion	23%
(surface soil)							Arsenic	6%	Dermal	77%
							Barium	1%	Inhalation	0%
							Beryllium	0%		
							Iron	2%		
							Mercury	57%		
							Molybdenum	4%		
							Nickel	3%		
							Silver	5%		
							Thallium	11%		
							Uranium	2%		
							Vanadium	8%		

Table D8.27. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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)	**2.0E-04**	Arsenic	61%	Ingestion	40%	**7.2**	Arsenic	4%	Ingestion	6%
		PAH, Total	3%	Dermal	51%		Mercury	64%	Dermal	94%
		PCB, Total	26%	Inhalation	0%		Molybdenum	3%	Inhalation	0%
		Cesium-137	8%	External exposure	9%		Nickel	4%		
		Uranium-238	1%				Silver	6%		
							Thallium	7%		
							Vanadium	9%		
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**22.2**	Arsenic	3%	Ingestion	5%
							Barium	1%	Dermal	95%
							Iron	1%	Inhalation	0%
							Mercury	65%		
							Molybdenum	3%		
							Nickel	4%		
							Silver	6%		
							Thallium	7%		
							Uranium	1%		
							Vanadium	9%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**28.0**	Arsenic	6%	Ingestion	23%
							Barium	1%	Dermal	77%
							Iron	2%	Inhalation	0%
							Mercury	57%		
							Molybdenum	4%		
							Nickel	3%		
							Silver	5%		
							Thallium	11%		
							Uranium	2%		
							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.

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