Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, 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	**8.9E-06**	Arsenic	15%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	12%	Dermal	80%				Dermal	
		PCB, Total	65%	Inhalation	0%				Inhalation	
				External exposure	7%					
Future Industrial Worker	**1.6E-04**	Arsenic	15%	Ingestion	13%	**14.7**	Antimony	13%	Ingestion	3%
(surface soil)		PAH, Total	12%	Dermal	80%		Arsenic	1%	Dermal	97%
		PCB, Total	65%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	2%	External exposure	7%		Manganese	11%		
		Uranium-238	5%				Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Vanadium	3%		
Outdoor Worker	**2.5E-04**	Arsenic	27%	Ingestion	59%	**13.4**	Antimony	15%	Ingestion	21%
(surface soil)		PAH, Total	11%	Dermal	38%		Arsenic	3%	Dermal	79%
		PCB, Total	55%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	3%		Manganese	10%		
		Uranium-234	1%				Mercury	14%		
		Uranium-238	5%				Nickel	46%		
							Silver	2%		
							Uranium	1%		
							Vanadium	3%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, 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	**2.4E-04**	Arsenic	28%	Ingestion	59%	**23.4**	Antimony	10%	Ingestion	40%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	2%	Dermal	60%
soil)		PCB, Total	58%	Inhalation	0%		Iron	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Manganese	6%		
		Uranium-234	1%				Mercury	14%		
		Uranium-238	3%				Nickel	27%		
							Silver	1%		
							Thallium	37%		
							Uranium	1%		
							Vanadium	2%		
Excavation Worker	**4.7E-05**	Arsenic	28%	Ingestion	59%	**23.4**	Antimony	10%	Ingestion	40%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	2%	Dermal	60%
soil)		PCB, Total	58%	Inhalation	0%		Iron	2%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Manganese	6%		
							Mercury	14%		
							Nickel	27%		
							Silver	1%		
							Thallium	37%		
							Uranium	1%		
							Vanadium	2%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, 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 (surface soil)	**6.4E-04**	Arsenic	20%	Ingestion	29%	**35.8**	Antimony	13%	Ingestion	3%
		PAH, Total	12%	Dermal	66%		Arsenic	1%	Dermal	97%
		PCB, Total	62%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	1%	External exposure	6%		Manganese	11%		
		Uranium-234	0%				Mercury	15%		
		Uranium-235	0%				Nickel	51%		
		Uranium-238	4%				Silver	2%		
							Uranium	1%		
							Vanadium	3%		
Future Child Resident (surface soil)	See Future Adult Resident					**94.4**	Antimony	14%	Ingestion	13%
							Arsenic	2%	Dermal	87%
							Barium	0%	Inhalation	0%
							Cadmium	0%		
							Copper	0%		
							Iron	2%		
							Manganese	11%		
							Mercury	15%		
							Nickel	49%		
							Silver	2%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	3%		
Future Adult Recreational User (surface soil)	**2.8E-04**	Arsenic	20%	Ingestion	28%	**10.6**	Antimony	13%	Ingestion	3%
		PAH, Total	13%	Dermal	71%		Arsenic	1%	Dermal	97%
		PCB, Total	65%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	0%	External exposure	2%		Manganese	11%		
		Uranium-238	1%				Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Vanadium	3%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, 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 Teen Recreational User (surface soil)	See Future Adult Recreational User					**32.9**	Antimony	13%	Ingestion	3%
							Arsenic	1%	Dermal	97%
							Iron	1%	Inhalation	0%
							Manganese	11%		
							Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Uranium	1%		
							Vanadium	3%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**37.8**	Antimony	14%	Ingestion	13%
							Arsenic	2%	Dermal	87%
							Cadmium	0%	Inhalation	0%
							Copper	0%		
							Iron	2%		
							Manganese	11%		
							Mercury	15%		
							Nickel	49%		
							Silver	2%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	3%		

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.