Table D8.1. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 1

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**4.2E-05**	PCB, Total Uranium-238	98% 2%	Ingestion Dermal Inhalation External exposure	50% 49% 0% 1%	**1.1**	Manganese Vanadium	56% 41%	Ingestion Dermal Inhalation	13% 87% 0%
Excavation Worker (surface and subsurface soil)	**8.4E-06**	PCB, Total	98%	Ingestion Dermal Inhalation External exposure	50% 49% 0% 1%	**1.1**	Manganese Vanadium	56% 41%	Ingestion Dermal Inhalation	13% 87% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.4**	Nickel Vanadium	11% 85%	Ingestion Dermal Inhalation	9% 91% 0%

Table D8.1. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 1 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	

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.

Table D8.2. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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 (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.3**	Manganese Nickel Vanadium	67% 6% 24%	Ingestion Dermal Inhalation	2% 98% 0%
Outdoor Worker (surface soil)	**1.2E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	52% 50% 0% 48%	**2.0**	Iron Manganese Nickel Vanadium	7% 64% 6% 23%	Ingestion Dermal Inhalation	17% 83% 0%
Outdoor Worker (surface and subsurface soil)	**2.3E-05**	Arsenic	97%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**2.2**	Arsenic Iron Manganese Nickel Vanadium	6% 7% 60% 6% 22%	Ingestion Dermal Inhalation	20% 79% 0%
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	97%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**2.2**	Arsenic Iron Manganese Nickel Vanadium	6% 7% 60% 6% 22%	Ingestion Dermal Inhalation	20% 79% 0%
Future Adult Resident (surface soil)	**2.8E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	11% 0% 0% 89%	**5.7**	Iron Manganese Nickel Vanadium	3% 66% 6% 24%	Ingestion Dermal Inhalation	2% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**14.6**	Iron Manganese Nickel Vanadium	5% 65% 6% 24%	Ingestion Dermal Inhalation	10% 90% 0%

Table D8.2. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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 Adult Recreational User (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**1.7**	Manganese Nickel Vanadium	66% 6% 24%	Ingestion Dermal Inhalation	2% 98% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**5.2**	Iron Manganese Nickel Vanadium	3% 66% 6% 24%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.8**	Iron Manganese Nickel Vanadium	5% 65% 6% 24%	Ingestion Dermal Inhalation	10% 90% 0%

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.

Table D8.3. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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 (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.4**	Manganese Molybdenum Nickel Vanadium	56% 6% 11% 24%	Ingestion Dermal Inhalation	3% 96% 0%
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.3**	Iron Manganese Molybdenum Nickel Vanadium	7% 50% 13% 9% 21%	Ingestion Dermal Inhalation	24% 75% 0%
Outdoor Worker (surface and subsurface soil)	**7.6E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**2.3**	Iron Manganese Molybdenum Nickel Vanadium	7% 50% 13% 9% 21%	Ingestion Dermal Inhalation	24% 75% 0%
Excavation Worker (surface and subsurface soil)	**1.5E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**2.3**	Iron Manganese Molybdenum Nickel Vanadium	7% 50% 13% 9% 21%	Ingestion Dermal Inhalation	24% 75% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**6.0**	Iron Manganese Molybdenum Nickel Vanadium	3% 56% 6% 11% 24%	Ingestion Dermal Inhalation	4% 96% 0%

Table D8.3. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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 Resident (surface soil)	See Future Adult Resident					**16.0**	Iron	5%	Ingestion	15%
							Manganese	53%	Dermal	85%
							Molybdenum	10%	Inhalation	0%
							Nickel	10%		
							Vanadium	23%		
Future Adult Recreational User (surface soil)	**<1.0E-06**	*No COCs		Ingestion		**1.8**	Manganese	56%	Ingestion	4%
				Dermal			Molybdenum	6%	Dermal	96%
				Inhalation			Nickel	11%	Inhalation	0%
				External exposure			Vanadium	24%		
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**5.5**	Iron	3%	Ingestion	3%
							Manganese	56%	Dermal	97%
							Molybdenum	6%	Inhalation	0%
							Nickel	11%		
							Vanadium	24%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**6.4**	Iron	5%	Ingestion	15%
							Manganese	53%	Dermal	85%
							Molybdenum	10%	Inhalation	0%
							Nickel	10%		
							Vanadium	23%		

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.

Table D8.4. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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 (surface soil)	**2.2E-06**	PCB, Total	86%	Ingestion	9%	**<1**	*No COCs		Ingestion	
				Dermal	88%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	2%					
Future Industrial Worker (surface soil)	**4.0E-05**	PAH, Total	12%	Ingestion	9%	**<1**	*No COCs		Ingestion	
		PCB, Total	86%	Dermal	88%				Dermal	
		Uranium-238	3%	Inhalation	0%				Inhalation	
				External exposure	2%					
Outdoor Worker (surface soil)	**5.4E-05**	PAH, Total	12%	Ingestion	50%	**<1**	*No COCs		Ingestion	
		PCB, Total	85%	Dermal	49%				Dermal	
		Uranium-238	3%	Inhalation	0%				Inhalation	
				External exposure	1%					
Outdoor Worker (surface and subsurface soil)	**6.0E-05**	PAH, Total	14%	Ingestion	49%	**1.9**	Iron	9%	Ingestion	17%
		PCB, Total	79%	Dermal	47%		Manganese	56%	Dermal	82%
		Uranium-238	5%	Inhalation	0%		Nickel	9%	Inhalation	0%
				External exposure	4%		Vanadium	26%		
Excavation Worker (surface and subsurface soil)	**1.2E-05**	PAH, Total	14%	Ingestion	48%	**1.9**	Iron	9%	Ingestion	17%
		PCB, Total	78%	Dermal	46%		Manganese	56%	Dermal	82%
				Inhalation	0%		Nickel	9%	Inhalation	0%
				External exposure	6%		Vanadium	26%		
Future Adult Resident (surface soil)	**1.6E-04**	PAH, Total	12%	Ingestion	22%	**2.1**	Iron	9%	Ingestion	4%
		PCB, Total	86%	Dermal	76%		Nickel	24%	Dermal	96%
		Uranium-238	2%	Inhalation	0%		Vanadium	67%	Inhalation	0%
				External exposure	2%					
Future Child Resident (surface soil)	See Future Adult Resident					**5.7**	Iron	15%	Ingestion	15%
							Nickel	22%	Dermal	85%
							Vanadium	63%	Inhalation	0%

Table D8.4. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, 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)	**7.0E-05**	PAH, Total PCB, Total	12% 87%	Ingestion Dermal Inhalation External exposure	21% 79% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.0**	Iron Nickel Vanadium	9% 24% 68%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.3**	Iron Nickel Vanadium	15% 22% 63%	Ingestion Dermal Inhalation	15% 85% 0%

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.

Table D8.5. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 5

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**3.7E-06**	PCB, Total	33%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-238	42%	Dermal	37%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	52%					
Future Industrial Worker	**6.6E-05**	PAH, Total	8%	Ingestion	11%	**2.8**	Antimony	13%	Ingestion	3%
(surface soil)		PCB, Total	33%	Dermal	37%		Manganese	42%	Dermal	96%
		Neptunium-237	2%	Inhalation	0%		Nickel	14%	Inhalation	0%
		Uranium-234	2%	External exposure	52%		Vanadium	23%		
		Uranium-235	12%							
		Uranium-238	43%							
Outdoor Worker	**9.3E-05**	PAH, Total	7%	Ingestion	53%	**2.6**	Antimony	14%	Ingestion	26%
(surface soil)		PCB, Total	31%	Dermal	19%		Iron	5%	Dermal	74%
		Neptunium-237	1%	Inhalation	0%		Manganese	36%	Inhalation	0%
		Technetium-99	2%	External exposure	27%		Molybdenum	8%		
		Uranium-234	9%				Nickel	12%		
		Uranium-235	7%				Uranium	4%		
		Uranium-238	42%				Vanadium	20%		
Outdoor Worker	**2.3E-05**	PAH, Total	8%	Ingestion	51%	**2.6**	Antimony	14%	Ingestion	26%
(surface and subsurface		PCB, Total	44%	Dermal	26%		Iron	5%	Dermal	74%
soil)		Cesium-137	2%	Inhalation	0%		Manganese	36%	Inhalation	0%
		Neptunium-237	1%	External exposure	23%		Molybdenum	8%		
		Technetium-99	1%				Nickel	11%		
		Uranium-234	6%				Uranium	4%		
		Uranium-235	6%				Vanadium	20%		
		Uranium-238	31%							
Excavation Worker	**2.1E-05**	PAH, Total	8%	Ingestion	51%	**2.6**	Antimony	14%	Ingestion	26%
(surface and subsurface		PCB, Total	44%	Dermal	26%		Iron	5%	Dermal	74%
soil)		Uranium-234	6%	Inhalation	0%		Manganese	36%	Inhalation	0%
		Uranium-235	6%	External exposure	23%		Molybdenum	8%		
		Uranium-238	31%				Nickel	11%		
							Uranium	4%		
							Vanadium	20%		

Table D8.5. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 5 (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	**2.3E-04**	PAH, Total	8%	Ingestion	17%	**6.8**	Antimony	13%	Ingestion	4%
(surface soil)		PCB, Total	37%	Dermal	35%		Iron	2%	Dermal	96%
		Neptunium-237	2%	Inhalation	0%		Manganese	41%	Inhalation	0%
		Uranium-234	2%	External exposure	48%		Molybdenum	3%		
		Uranium-235	11%				Nickel	14%		
		Uranium-238	40%				Uranium	2%		
							Vanadium	23%		
Future Child Resident	See Future Adult Resident					**18.2**	Aluminum	1%	Ingestion	16%
(surface soil)							Antimony	14%	Dermal	84%
							Iron	4%	Inhalation	0%
							Manganese	38%		
							Molybdenum	6%		
							Nickel	13%		
							Uranium	3%		
							Vanadium	21%		

Table D8.5. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 5 (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)	**6.7E-05**	PAH, Total	13%	Ingestion	23%	**2.0**	Antimony	13%	Ingestion	4%
		PCB, Total	57%	Dermal	56%		Manganese	41%	Dermal	96%
		Uranium-234	2%	Inhalation	0%		Nickel	14%	Inhalation	0%
		Uranium-235	5%	External exposure	21%		Vanadium	23%		
		Uranium-238	21%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**6.2**	Antimony	13%	Ingestion	3%
							Iron	2%	Dermal	97%
							Manganese	42%	Inhalation	0%
							Molybdenum	3%		
							Nickel	14%		
							Uranium	2%		
							Vanadium	23%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**7.3**	Antimony	14%	Ingestion	16%
							Iron	4%	Dermal	84%
							Manganese	38%	Inhalation	0%
							Molybdenum	6%		
							Nickel	13%		
							Uranium	3%		
							Vanadium	21%		

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.

Table D8.6. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 6

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**4.4E-06**	PCB, Total	45%	Ingestion	10%	**<1**	*No COCs		Ingestion	
		Uranium-238	33%	Dermal	50%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	40%					
Future Industrial Worker (surface soil)	**7.8E-05**	PAH, Total	9%	Ingestion	10%	**1.2**	Molybdenum	15%	Ingestion	6%
		PCB, Total	45%	Dermal	50%		Nickel	15%	Dermal	93%
		Neptunium-237	6%	Inhalation	0%		Vanadium	61%	Inhalation	0%
		Uranium-234	1%	External exposure	40%					
		Uranium-235	5%							
		Uranium-238	33%							
Outdoor Worker (surface soil)	**1.1E-04**	PAH, Total	9%	Ingestion	52%	**1.4**	Iron	13%	Ingestion	40%
		PCB, Total	44%	Dermal	26%		Molybdenum	28%	Dermal	60%
		Neptunium-237	4%	Inhalation	0%		Nickel	11%	Inhalation	0%
		Technetium-99	1%	External exposure	22%		Vanadium	44%		
		Uranium-234	6%							
		Uranium-235	3%							
		Uranium-238	33%							
Outdoor Worker (surface and subsurface soil)	**8.3E-05**	PAH, Total	16%	Ingestion	52%	**2.9**	Iron	6%	Ingestion	26%
		PCB, Total	37%	Dermal	26%		Manganese	35%	Dermal	74%
		Cesium-137	2%	Inhalation	0%		Molybdenum	13%	Inhalation	0%
		Neptunium-237	2%	External exposure	22%		Nickel	5%		
		Technetium-99	2%				Silver	17%		
		Uranium-234	6%				Vanadium	21%		
		Uranium-235	3%							
		Uranium-238	33%							
Excavation Worker (surface and subsurface soil)	**1.7E-05**	PAH, Total	15%	Ingestion	52%	**2.9**	Iron	6%	Ingestion	26%
		PCB, Total	37%	Dermal	26%		Manganese	35%	Dermal	74%
		Uranium-234	6%	Inhalation	0%		Molybdenum	13%	Inhalation	0%
		Uranium-238	33%	External exposure	22%		Nickel	5%		
							Silver	17%		
							Vanadium	21%		

Table D8.6. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 6 (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)	**2.8E-04**	PAH, Total	10%	Ingestion	18%	**2.9**	Iron	7%	Ingestion	7%
		PCB, Total	49%	Dermal	45%		Molybdenum	15%	Dermal	93%
		Neptunium-237	6%	Inhalation	0%		Nickel	15%	Inhalation	0%
		Uranium-234	1%	External exposure	36%		Vanadium	60%		
		Uranium-235	4%							
		Uranium-238	30%							
Future Child Resident (surface soil)	See Future Adult Resident					**8.7**	Iron	11%	Ingestion	26%
							Molybdenum	22%	Dermal	74%
							Nickel	13%	Inhalation	0%
							Uranium	3%		
							Vanadium	51%		
Future Adult Recreational User (surface soil)	**9.3E-05**	PAH, Total	14%	Ingestion	22%	**<1**	*No COCs		Ingestion	
		PCB, Total	67%	Dermal	64%				Dermal	
		Neptunium-237	2%	Inhalation	0%				Inhalation	
		Uranium-234	1%	External exposure	14%					
		Uranium-235	2%							
		Uranium-238	14%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Iron	7%	Ingestion	6%
							Molybdenum	15%	Dermal	94%
							Nickel	15%	Inhalation	0%
							Vanadium	61%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.5**	Iron	11%	Ingestion	26%
							Molybdenum	22%	Dermal	74%
							Nickel	13%	Inhalation	0%
							Uranium	3%		
							Vanadium	51%		

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.

Table D8.7. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 7

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.0**	Nickel Silver Vanadium	6% 55% 36%	Ingestion Dermal Inhalation	2% 98% 0%
Outdoor Worker (surface soil)	**1.1E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	52% 50% 0% 48%	**1.8**	Iron Silver Vanadium	9% 52% 34%	Ingestion Dermal Inhalation	18% 82% 0%
Outdoor Worker (surface and subsurface soil)	**5.0E-05**	PCB, Total Uranium-238	94% 6%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**1.3**	Iron Silver Vanadium	13% 31% 48%	Ingestion Dermal Inhalation	20% 80% 0%
Excavation Worker (surface and subsurface soil)	**1.0E-05**	PCB, Total	94%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**1.3**	Iron Silver Vanadium	13% 31% 48%	Ingestion Dermal Inhalation	20% 80% 0%
Future Adult Resident (surface soil)	**2.6E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	11% 0% 0% 89%	**5.0**	Iron Nickel Silver Vanadium	4% 6% 55% 36%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**12.9**	Iron Nickel Silver Vanadium	7% 6% 53% 35%	Ingestion Dermal Inhalation	10% 90% 0%

Table D8.7. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 7 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**1.5**	Silver Vanadium	55% 36%	Ingestion Dermal Inhalation	3% 97% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**4.6**	Iron Nickel Silver Vanadium	4% 6% 55% 36%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.1**	Iron Nickel Silver Vanadium	7% 6% 53% 35%	Ingestion Dermal Inhalation	10% 90% 0%

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.

Table D8.8. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 8

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.2**	Manganese Nickel Vanadium	64% 6% 27%	Ingestion Dermal Inhalation	2% 98% 0%
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**1.9**	Iron Manganese Nickel Vanadium	7% 61% 6% 26%	Ingestion Dermal Inhalation	17% 83% 0%
Outdoor Worker (surface and subsurface soil)	**8.3E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**1.9**	Iron Manganese Nickel Vanadium	7% 61% 6% 26%	Ingestion Dermal Inhalation	17% 83% 0%
Excavation Worker (surface and subsurface soil)	**1.7E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**1.9**	Iron Manganese Nickel Vanadium	7% 61% 6% 26%	Ingestion Dermal Inhalation	17% 83% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**5.4**	Iron Manganese Nickel Vanadium	3% 64% 6% 27%	Ingestion Dermal Inhalation	2% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**13.9**	Iron Manganese Nickel Vanadium	5% 62% 6% 26%	Ingestion Dermal Inhalation	10% 90% 0%

Table D8.8. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 8 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**1.6**	Manganese Vanadium	64% 27%	Ingestion Dermal Inhalation	2% 98% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**5.0**	Iron Manganese Nickel Vanadium	3% 64% 6% 27%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.5**	Iron Manganese Nickel Vanadium	5% 62% 6% 26%	Ingestion Dermal Inhalation	10% 90% 0%

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.

Table D8.9. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 9

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**5.5E-06**	Neptunium-237 Uranium-238	50% 45%	Ingestion Dermal Inhalation External exposure	6% 5% 0% 89%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**6.0E-06**	Neptunium-237 Uranium-238	36% 57%	Ingestion Dermal Inhalation External exposure	37% 3% 0% 60%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**4.1E-05**	Arsenic PAH, Total Cesium-137 Neptunium-237 Uranium-238	67% 17% 4% 4% 8%	Ingestion Dermal Inhalation External exposure	68% 20% 0% 12%	**1.1**	Arsenic Molybdenum Nickel Vanadium	15% 17% 11% 55%	Ingestion Dermal Inhalation	34% 66% 0%
Excavation Worker (surface and subsurface soil)	**8.2E-06**	Arsenic PAH, Total	66% 17%	Ingestion Dermal Inhalation External exposure	67% 20% 0% 12%	**1.1**	Arsenic Molybdenum Nickel Vanadium	15% 17% 11% 55%	Ingestion Dermal Inhalation	34% 66% 0%
Future Adult Resident (surface soil)	**1.8E-05**	PAH, Total Neptunium-237 Uranium-238	6% 49% 45%	Ingestion Dermal Inhalation External exposure	7% 5% 0% 88%	**2.3**	Molybdenum Nickel Vanadium	9% 15% 75%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**6.1**	Molybdenum Nickel Vanadium	15% 14% 70%	Ingestion Dermal Inhalation	15% 85% 0%

Table D8.9. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 9 (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)	**2.9E-06**	Neptunium-237 Uranium-238	39% 43%	Ingestion Dermal Inhalation External exposure	17% 14% 0% 69%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.1**	Molybdenum Nickel Vanadium	9% 15% 75%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Molybdenum Nickel Vanadium	15% 14% 70%	Ingestion Dermal Inhalation	15% 85% 0%

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.

Table D8.10. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 10

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**5.4**	Iron Manganese Molybdenum Nickel Silver Vanadium	2% 72% 4% 2% 6% 14%	Ingestion Dermal Inhalation	3% 97% 0%
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**4.9**	Iron Manganese Molybdenum Nickel Silver Vanadium	5% 66% 9% 2% 5% 13%	Ingestion Dermal Inhalation	20% 79% 0%
Outdoor Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**4.9**	Iron Manganese Molybdenum Nickel Silver Vanadium	5% 66% 9% 2% 5% 13%	Ingestion Dermal Inhalation	20% 79% 0%
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**4.9**	Iron Manganese Molybdenum Nickel Silver Vanadium	5% 66% 9% 2% 5% 13%	Ingestion Dermal Inhalation	20% 79% 0%

Table D8.10. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 10 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**13.3**	Iron Manganese Molybdenum Nickel Silver Vanadium	2% 72% 4% 2% 6% 14%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**34.8**	Iron Manganese Molybdenum Nickel Silver Vanadium	3% 69% 6% 2% 6% 14%	Ingestion Dermal Inhalation	12% 88% 0%
Future Adult Recreational User (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**3.9**	Manganese Molybdenum Silver Vanadium	72% 4% 6% 14%	Ingestion Dermal Inhalation	3% 97% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**12.2**	Iron Manganese Molybdenum Nickel Silver Vanadium	2% 72% 4% 2% 6% 14%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**13.9**	Iron Manganese Molybdenum Nickel Silver Vanadium	3% 68% 6% 2% 6% 14%	Ingestion Dermal Inhalation	12% 88% 0%

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.

Table D8.11. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 11

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**1.9E-06**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	9% 91% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**3.4E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	9% 91% 0%	**1.3**	Silver Vanadium	47% 51%	Ingestion Dermal Inhalation	2% 98% 0%
Outdoor Worker (surface soil)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**1.1**	Silver Vanadium	46% 50%	Ingestion Dermal Inhalation	13% 87% 0%
Outdoor Worker (surface and subsurface soil)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**1.9**	Manganese Silver Vanadium	42% 27% 29%	Ingestion Dermal Inhalation	13% 87% 0%
Excavation Worker (surface and subsurface soil)	**9.0E-06**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**1.9**	Manganese Silver Vanadium	42% 27% 29%	Ingestion Dermal Inhalation	13% 87% 0%
Future Adult Resident (surface soil)	**1.3E-04**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	22% 78% 0%	**3.3**	Silver Vanadium	47% 51%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**8.2**	Nickel Silver Vanadium	2% 46% 51%	Ingestion Dermal Inhalation	8% 92% 0%

Table D8.11. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 11 (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)	**6.0E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	21% 79% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Silver Vanadium	47% 51%	Ingestion Dermal Inhalation	1% 99% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.3**	Silver Vanadium	46% 51%	Ingestion Dermal Inhalation	8% 92% 0%

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.

Table D8.12. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 12

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**3.3**	Manganese Molybdenum Nickel Silver Vanadium	52% 3% 5% 16% 21%	Ingestion Dermal Inhalation	2% 97% 0%
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**3.0**	Iron Manganese Molybdenum Nickel Silver Vanadium	5% 48% 8% 5% 15% 20%	Ingestion Dermal Inhalation	20% 80% 0%
Outdoor Worker (surface and subsurface soil)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**3.3**	Iron Manganese Molybdenum Nickel Silver Vanadium	4% 44% 7% 4% 23% 18%	Ingestion Dermal Inhalation	19% 81% 0%
Excavation Worker (surface and subsurface soil)	**9.0E-06**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**3.3**	Iron Manganese Molybdenum Nickel Silver Vanadium	4% 44% 7% 4% 23% 18%	Ingestion Dermal Inhalation	19% 81% 0%

Table D8.12. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 12 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**8.0**	Iron Manganese Molybdenum Nickel Silver Vanadium	2% 52% 3% 5% 16% 21%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**20.9**	Iron Manganese Molybdenum Nickel Silver Vanadium	3% 50% 6% 5% 16% 20%	Ingestion Dermal Inhalation	12% 88% 0%
Future Adult Recreational User (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.4**	Manganese Nickel Silver Vanadium	52% 5% 16% 21%	Ingestion Dermal Inhalation	3% 97% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**7.3**	Iron Manganese Molybdenum Nickel Silver Vanadium	2% 52% 3% 5% 16% 21%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**8.4**	Iron Manganese Molybdenum Nickel Silver Vanadium	3% 50% 6% 5% 16% 20%	Ingestion Dermal Inhalation	12% 88% 0%

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.

Table D8.13. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 13

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.4**	Manganese Molybdenum Vanadium	60% 7% 30%	Ingestion Dermal Inhalation	4% 96% 0%
Outdoor Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.3**	Iron Manganese Molybdenum Vanadium	7% 51% 16% 25%	Ingestion Dermal Inhalation	27% 73% 0%
Outdoor Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.3**	Iron Manganese Molybdenum Vanadium	7% 51% 16% 25%	Ingestion Dermal Inhalation	27% 73% 0%
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.3**	Iron Manganese Molybdenum Vanadium	7% 51% 16% 25%	Ingestion Dermal Inhalation	27% 73% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**5.8**	Iron Manganese Molybdenum Vanadium	3% 59% 7% 30%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**15.9**	Iron Manganese Molybdenum Vanadium	6% 55% 12% 27%	Ingestion Dermal Inhalation	16% 84% 0%

Table D8.13. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 13 (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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**1.7**	Manganese Molybdenum Vanadium	59% 8% 30%	Ingestion Dermal Inhalation	4% 96% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**5.3**	Iron Manganese Molybdenum Vanadium	3% 60% 7% 30%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**6.3**	Iron Manganese Molybdenum Vanadium	6% 55% 12% 27%	Ingestion Dermal Inhalation	16% 84% 0%

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.

Table D8.14. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 14

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**1.3E-06**	PCB, Total	93%	Ingestion	9%	**<1**	*No COCs		Ingestion	
				Dermal	86%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	5%					
Future Industrial Worker (surface soil)	**2.3E-05**	PCB, Total	93%	Ingestion	9%	**1.4**	Silver	40%	Ingestion	1%
		Uranium-238	6%	Dermal	86%		Vanadium	53%	Dermal	99%
				Inhalation	0%				Inhalation	0%
				External exposure	5%					
Outdoor Worker (surface soil)	**3.0E-05**	PCB, Total	93%	Ingestion	50%	**1.1**	Silver	40%	Ingestion	12%
		Uranium-238	6%	Dermal	47%		Vanadium	53%	Dermal	88%
				Inhalation	0%				Inhalation	0%
				External exposure	3%					
Outdoor Worker (surface and subsurface soil)	**5.8E-05**	PAH, Total	14%	Ingestion	50%	**1.8**	Manganese	33%	Ingestion	12%
		PCB, Total	80%	Dermal	47%		Silver	29%	Dermal	88%
		Uranium-238	6%	Inhalation	0%		Vanadium	34%	Inhalation	0%
				External exposure	3%					
Excavation Worker (surface and subsurface soil)	**1.2E-05**	PAH, Total	14%	Ingestion	50%	**1.8**	Manganese	33%	Ingestion	12%
		PCB, Total	80%	Dermal	47%		Silver	29%	Dermal	88%
				Inhalation	0%		Vanadium	34%	Inhalation	0%
				External exposure	3%					
Future Adult Resident (surface soil)	**8.8E-05**	PAH, Total	2%	Ingestion	22%	**3.3**	Nickel	7%	Ingestion	2%
		PCB, Total	94%	Dermal	74%		Silver	40%	Dermal	98%
		Uranium-238	5%	Inhalation	0%		Vanadium	53%	Inhalation	0%
				External exposure	4%					
Future Child Resident (surface soil)	See Future Adult Resident					**8.4**	Nickel	7%	Ingestion	7%
							Silver	40%	Dermal	93%
							Vanadium	53%	Inhalation	0%

Table D8.14. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 13, EU 14 (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)	**3.9E-05**	PCB, Total	97%	Ingestion Dermal Inhalation External exposure	21% 78% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.1**	Nickel Silver Vanadium	7% 40% 53%	Ingestion Dermal Inhalation	1% 99% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.4**	Nickel Silver Vanadium	7% 40% 53%	Ingestion Dermal Inhalation	7% 93% 0%

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.