Table D6.24. Summary of Risk Characterization for SWMU 26 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	**4.3E-06**	PCB, Total	40%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-238	53%	Dermal	39%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	51%					
Future Industrial Worker	**7.8E-05**	PAH, Total	3%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	40%	Dermal	39%				Dermal	
		Uranium-235	4%	Inhalation	0%				Inhalation	
		Uranium-238	53%	External exposure	51%					
Outdoor Worker	**1.1E-04**	PAH, Total	3%	Ingestion	51%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	39%	Dermal	21%				Dermal	
		Uranium-234	2%	Inhalation	0%				Inhalation	
		Uranium-235	3%	External exposure	28%					
		Uranium-238	53%							
Outdoor Worker	**1.2E-04**	Arsenic	17%	Ingestion	57%	**2.7**	Antimony	21%	Ingestion	98%
(surface and subsurface		PAH, Total	4%	Dermal	17%		Arsenic	5%	Dermal	1%
soil)		PCB, Total	24%	Inhalation	0%		Cobalt	5%	Inhalation	0%
		Uranium-234	2%	External exposure	26%		Iron	5%		
		Uranium-235	2%				Manganese	4%		
		Uranium-238	50%				Mercury	22%		
							Uranium	26%		
							Vanadium	4%		
Excavation Worker	**2.3E-05**	Arsenic	17%	Ingestion	57%	**2.7**	Antimony	21%	Ingestion	98%
(surface and subsurface		PCB, Total	24%	Dermal	17%		Arsenic	5%	Dermal	1%
soil)		Uranium-238	50%	Inhalation	0%		Cobalt	5%	Inhalation	0%
				External exposure	26%		Iron	5%		
							Manganese	4%		
							Mercury	22%		
							Uranium	26%		
							Vanadium	4%		

Table D6.24. Summary of Risk Characterization for SWMU 26 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 Resident (surface soil)	**2.8E-04**	PAH, Total PCB, Total Uranium-234 Uranium-235 Uranium-238	3% 43% 0% 4% 49%	Ingestion Dermal Inhalation External exposure	16% 36% 0% 47%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**3.6**	Iron Uranium Vanadium	15% 74% 11%	Ingestion Dermal Inhalation	100% 0% 0%
Future Adult Recreational User (surface soil)	**8.1E-05**	PAH, Total PCB, Total Uranium-235 Uranium-238	5% 67% 2% 26%	Ingestion Dermal Inhalation External exposure	22% 57% 0% 20%	**<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					**1.4**	Iron Uranium Vanadium	15% 74% 11%	Ingestion Dermal Inhalation	100% 0% 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 D6.25. Summary of Risk Characterization for SWMU 26 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	**9.7E-06**	Arsenic	17%	Ingestion	9%	**<1**	*No COCs		Ingestion	
(surface soil)		Cesium-137	48%	Dermal	17%				Dermal	
		Uranium-238	18%	Inhalation	0%				Inhalation	
				External exposure	74%					
Future Industrial Worker	**1.7E-04**	Arsenic	17%	Ingestion	9%	**1.5**	Arsenic	13%	Ingestion	91%
(surface soil)		PCB, Total	6%	Dermal	17%		Cobalt	7%	Dermal	8%
		Cesium-137	48%	Inhalation	0%		Thallium	69%	Inhalation	1%
		Radium-228	6%	External exposure	74%		Uranium	7%		
		Uranium-235	4%							
		Uranium-238	18%							
Outdoor Worker	**2.3E-04**	Arsenic	37%	Ingestion	48%	**9.6**	Arsenic	5%	Ingestion	99%
(surface soil)		PCB, Total	6%	Dermal	10%		Cobalt	7%	Dermal	1%
		Cesium-137	28%	Inhalation	0%		Iron	2%	Inhalation	0%
		Radium-228	4%	External exposure	42%		Thallium	75%		
		Thorium-230	1%				Uranium	8%		
		Uranium-234	3%							
		Uranium-235	2%							
		Uranium-238	19%							
Outdoor Worker	**2.4E-04**	Arsenic	39%	Ingestion	51%	**10.3**	Antimony	20%	Ingestion	99%
(surface and subsurface		PAH, Total	2%	Dermal	16%		Arsenic	6%	Dermal	1%
soil)		PCB, Total	15%	Inhalation	0%		Cobalt	5%	Inhalation	0%
		Cesium-137	22%	External exposure	33%		Iron	2%		
		Radium-228	4%				Manganese	1%		
		Thorium-230	0%				Mercury	2%		
		Uranium-234	2%				Thallium	50%		
		Uranium-235	2%				Uranium	11%		
		Uranium-238	14%							

Table D6.25. Summary of Risk Characterization for SWMU 26 EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker	**5.4E-05**	Arsenic	35%	Ingestion	48%	**10.3**	Antimony	20%	Ingestion	99%
(surface and subsurface		PAH, Total	2%	Dermal	14%		Arsenic	6%	Dermal	1%
soil)		PCB, Total	13%	Inhalation	0%		Cobalt	5%	Inhalation	0%
		Cesium-137	25%	External exposure	38%		Iron	2%		
		Radium-228	8%				Manganese	1%		
		Uranium-238	12%				Mercury	2%		
							Thallium	50%		
							Uranium	11%		
Future Adult Resident	**6.3E-04**	Arsenic	25%	Ingestion	19%	**4.1**	Arsenic	12%	Ingestion	92%
(surface soil)		PCB, Total	7%	Dermal	16%		Cobalt	7%	Dermal	7%
		Cesium-137	43%	Inhalation	0%		Thallium	70%	Inhalation	1%
		Neptunium-237	0%	External exposure	66%		Uranium	7%		
		Radium-228	5%							
		Uranium-234	1%							
		Uranium-235	3%							
		Uranium-238	16%							
Future Child Resident	See Future Adult Resident					**40.7**	Aluminum	1%	Ingestion	98%
(surface soil)							Arsenic	6%	Dermal	2%
							Cobalt	7%	Inhalation	0%
							Iron	2%		
							Nickel	1%		
							Thallium	75%		
							Uranium	8%		
							Vanadium	1%		

Table D6.25. Summary of Risk Characterization for SWMU 26 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)	**1.5E-04**	Arsenic	47%	Ingestion	33%	**1.2**	Arsenic	12%	Ingestion	92%
		PCB, Total	13%	Dermal	32%		Thallium	70%	Dermal	8%
		Cesium-137	23%	Inhalation	0%				Inhalation	0%
		Radium-228	3%	External exposure	35%					
		Uranium-234	1%							
		Uranium-235	2%							
		Uranium-238	10%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.1**	Arsenic	13%	Ingestion	91%
							Cobalt	7%	Dermal	9%
							Thallium	69%	Inhalation	0%
							Uranium	7%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**16.3**	Aluminum	1%	Ingestion	98%
							Arsenic	6%	Dermal	2%
							Cobalt	7%	Inhalation	0%
							Iron	2%		
							Nickel	1%		
							Thallium	75%		
							Uranium	8%		
							Vanadium	1%		

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 D6.27. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	3%	Dermal	50%				Dermal	
		PCB, Total	22%	Inhalation	0%				Inhalation	
		Cesium-137	30%	External exposure	34%					
		Neptunium-237	1%							
		Uranium-238	3%							
Outdoor Worker	**2.3E-04**	Arsenic	64%	Ingestion	65%	**2.9**	Arsenic	32%	Ingestion	94%
(surface soil)		PAH, Total	2%	Dermal	21%		Iron	5%	Dermal	6%
		PCB, Total	17%	Inhalation	0%		Molybdenum	14%	Inhalation	0%
		Cesium-137	13%	External exposure	15%		Thallium	38%		
		Neptunium-237	1%				Uranium	7%		
		Uranium-234	1%							
		Uranium-238	3%							
Outdoor Worker	**2.1E-04**	Arsenic	71%	Ingestion	68%	**3.5**	Antimony	15%	Ingestion	95%
(surface and subsurface		PAH, Total	3%	Dermal	20%		Arsenic	27%	Dermal	5%
soil)		PCB, Total	11%	Inhalation	0%		Iron	4%	Inhalation	0%
		Pentachlorophenol	1%	External exposure	12%		Mercury	5%		
		Cesium-137	11%				Molybdenum	13%		
		Neptunium-237	1%				Thallium	22%		
		Uranium-234	1%				Uranium	6%		
		Uranium-238	2%							
Excavation Worker	**4.3E-05**	Arsenic	69%	Ingestion	66%	**3.5**	Antimony	15%	Ingestion	95%
(surface and subsurface		PAH, Total	2%	Dermal	20%		Arsenic	27%	Dermal	5%
soil)		PCB, Total	11%	Inhalation	0%		Iron	4%	Inhalation	0%
		Cesium-137	13%	External exposure	14%		Mercury	5%		
							Molybdenum	13%		
							Thallium	22%		
							Uranium	6%		

Table D6.27. Summary of Risk Characterization 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 (surface soil)	**5.6E-04**	Arsenic	50%	Ingestion	35%	**1.6**	Arsenic	52%	Ingestion	66%
		PAH, Total	3%	Dermal	39%		Molybdenum	10%	Dermal	33%
		PCB, Total	20%	Inhalation	0%		Thallium	27%	Inhalation	1%
		Cesium-137	23%	External exposure	26%					
		Neptunium-237	1%							
		Uranium-235	0%							
		Uranium-238	2%							
Future Child Resident (surface soil)	See Future Adult Resident					**12.9**	Arsenic	35%	Ingestion	90%
							Iron	5%	Dermal	10%
							Molybdenum	14%	Inhalation	0%
							Thallium	37%		
							Uranium	7%		
							Vanadium	3%		
Future Adult Recreational User (surface soil)	**2.0E-04**	Arsenic	61%	Ingestion	40%	**<1**	*No COCs		Ingestion	
		PAH, Total	3%	Dermal	51%				Dermal	
		PCB, Total	26%	Inhalation	0%				Inhalation	
		Cesium-137	8%	External exposure	9%					
		Uranium-238	1%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.3**	Arsenic	56%	Ingestion	61%
							Molybdenum	9%	Dermal	39%
							Thallium	25%	Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.1**	Arsenic	35%	Ingestion	90%
							Iron	5%	Dermal	10%
							Molybdenum	13%	Inhalation	0%
							Thallium	37%		
							Uranium	7%		
							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.

Table D6.28. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	9%	Dermal	15%				Dermal	
		PCB, Total	4%	Inhalation	0%				Inhalation	
		Cesium-137	1%	External exposure	72%					
		Neptunium-237	2%							
		Plutonium-239/240	<1%							
		Technetium-99	<1%							
		Thorium-230	<1%							
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	71%							
Outdoor Worker	**1.1E-03**	Arsenic	11%	Ingestion	58%	**3.6**	Arsenic	20%	Ingestion	96%
(surface soil)		PAH, Total	8%	Dermal	7%		Iron	3%	Dermal	4%
		PCB, Total	3%	Inhalation	0%		Mercury	20%	Inhalation	0%
		Cesium-137	1%	External exposure	35%		Molybdenum	10%		
		Neptunium-237	1%				Uranium	41%		
		Plutonium-239/240	1%							
		Technetium-99	1%							
		Thorium-230	2%							
		Uranium-234	6%							
		Uranium-235	3%							
		Uranium-238	64%							

Table D6.28. Summary of Risk Characterization 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%	**11.9**	Antimony	5%	Ingestion	98%
(surface and subsurface		PAH, Total	5%	Dermal	5%		Arsenic	6%	Dermal	1%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	1%	Inhalation	0%
		Cesium-137	2%	External exposure	39%		Copper	2%		
		Neptunium-237	9%				Iron	1%		
		Plutonium-239/240	1%				Manganese	1%		
		Technetium-99	5%				Mercury	2%		
		Thorium-230	2%				Molybdenum	3%		
		Uranium-234	9%				Nickel	62%		
		Uranium-235	4%				Thallium	4%		
		Uranium-238	52%				Uranium	11%		
Excavation Worker	**2.7E-04**	Arsenic	9%	Ingestion	55%	**11.9**	Antimony	5%	Ingestion	98%
(surface and subsurface		PAH, Total	5%	Dermal	5%		Arsenic	6%	Dermal	1%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	1%	Inhalation	0%
		Cesium-137	3%	External exposure	39%		Copper	2%		
		Neptunium-237	9%				Iron	1%		
		Plutonium-239/240	1%				Manganese	1%		
		Technetium-99	5%				Mercury	2%		
		Thorium-230	2%				Molybdenum	3%		
		Uranium-234	8%				Nickel	62%		
		Uranium-235	4%				Thallium	4%		
		Uranium-238	52%				Uranium	11%		

Table D6.28. Summary of Risk Characterization 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%	**1.9**	Arsenic	37%	Ingestion	75%
(surface soil)		PAH, Total	10%	Dermal	14%		Mercury	16%	Dermal	24%
		PCB, Total	4%	Inhalation	0%		Molybdenum	8%	Inhalation	2%
		Cesium-137	1%	External exposure	68%		Uranium	34%		
		Neptunium-237	1%							
		Plutonium-239/240	<1%							
		Technetium-99	<1%							
		Thorium-230	<1%							
		Uranium-234	1%							
		Uranium-235	5%							
		Uranium-238	67%							
Future Child Resident	See Future Adult Resident					**15.7**	Aluminum	1%	Ingestion	93%
(surface soil)							Arsenic	23%	Dermal	7%
							Iron	3%	Inhalation	0%
							Mercury	20%		
							Molybdenum	9%		
							Nickel	1%		
							Uranium	40%		
							Vanadium	2%		

Table D6.28. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
		PAH, Total	20%	Dermal	30%				Dermal	
		PCB, Total	8%	Inhalation	0%				Inhalation	
		Cesium-137	1%	External exposure	38%					
		Neptunium-237	1%							
		Plutonium-239/240	<1%							
		Technetium-99	<1%							
		Thorium-230	1%							
		Uranium-234	2%							
		Uranium-235	3%							
		Uranium-238	46%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.4**	Arsenic	41%	Ingestion	72%
							Mercury	15%	Dermal	28%
							Molybdenum	7%	Inhalation	0%
							Uranium	31%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**6.3**	Arsenic	23%	Ingestion	93%
							Iron	3%	Dermal	7%
							Mercury	20%	Inhalation	0%
							Molybdenum	10%		
							Uranium	40%		
							Vanadium	2%		

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.