ATTACHMENT D6

RISK SUMMARIES

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Table D6.1. Summary of Risk Characterization 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**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**8.4E-06**	PCB, Total	98%	Ingestion Dermal Inhalation External exposure	50% 49% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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**	*No COCs		Ingestion Dermal Inhalation	

Table D6.1. Summary of Risk Characterization 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 D6.2. Summary of Risk Characterization 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		**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.2E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	52% 50% 0% 48%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.1E-05**	Arsenic	97%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	97%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.8E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	11% 0% 0% 89%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.4**	Iron Manganese Vanadium	33% 49% 18%	Ingestion Dermal Inhalation	99% 0% 1%

Table D6.2. Summary of Risk Characterization 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**	*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 D6.3. Summary of Risk Characterization 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		**<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)	**7.6E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.5E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**2.6**	Iron Manganese Molybdenum Vanadium	19% 23% 48% 10%	Ingestion Dermal Inhalation	99% 0% 1%

Table D6.3. Summary of Risk Characterization 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 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**	Iron Manganese Molybdenum Vanadium	19% 24% 48% 10%	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 D6.4. Summary of Risk Characterization 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 Dermal Inhalation External exposure	9% 88% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**4.0E-05**	PAH, Total PCB, Total Uranium-238	12% 86% 3%	Ingestion Dermal Inhalation External exposure	9% 88% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**5.4E-05**	PAH, Total PCB, Total Uranium-238	12% 85% 3%	Ingestion Dermal Inhalation External exposure	50% 49% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**6.0E-05**	PAH, Total PCB, Total Uranium-238	14% 79% 5%	Ingestion Dermal Inhalation External exposure	49% 47% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.2E-05**	PAH, Total PCB, Total	14% 78%	Ingestion Dermal Inhalation External exposure	48% 46% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.6E-04**	PAH, Total PCB, Total Uranium-238	12% 86% 2%	Ingestion Dermal Inhalation External exposure	22% 76% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.4. Summary of Risk Characterization 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					**<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 D6.5. Summary of Risk Characterization 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 (surface soil)	**3.7E-06**	PCB, Total Uranium-238	33% 42%	Ingestion Dermal Inhalation External exposure	11% 37% 0% 52%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**6.6E-05**	PAH, Total PCB, Total Neptunium-237 Uranium-234 Uranium-235 Uranium-238	8% 33% 2% 2% 12% 43%	Ingestion Dermal Inhalation External exposure	11% 37% 0% 52%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**9.3E-05**	PAH, Total PCB, Total Neptunium-237 Technetium-99 Uranium-234 Uranium-235 Uranium-238	7% 31% 1% 2% 9% 7% 42%	Ingestion Dermal Inhalation External exposure	53% 19% 0% 27%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.3E-05**	PAH, Total PCB, Total Cesium-137 Neptunium-237 Technetium-99 Uranium-234 Uranium-235 Uranium-238	8% 44% 2% 1% 1% 6% 6% 31%	Ingestion Dermal Inhalation External exposure	51% 26% 0% 23%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**2.1E-05**	PAH, Total PCB, Total Uranium-234 Uranium-235 Uranium-238	8% 44% 6% 6% 31%	Ingestion Dermal Inhalation External exposure	51% 26% 0% 23%	**<1**	*No COCs		Ingestion Dermal	

Table D6.5. Summary of Risk Characterization 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 (surface soil)	**2.3E-04**	PAH, Total	8%	Ingestion	17%	**<1**	*No COCs		Ingestion	
		PCB, Total	37%	Dermal	35%				Dermal	
		Neptunium-237	2%	Inhalation	0%					
		Uranium-234	2%	External exposure	48%					
		Uranium-235	11%						Inhalation	
		Uranium-238	40%							
Future Child Resident (surface soil)	See Future Adult Resident					**1.7**	Aluminum	8%	Ingestion	99%
							Iron	26%	Dermal	0%
							Manganese	30%	Inhalation	1%
							Uranium	20%		
							Vanadium	16%		
Future Adult Recreational User (surface soil)	**6.7E-05**	PAH, Total	13%	Ingestion	23%	**<1**	*No COCs		Ingestion	
		PCB, Total	57%	Dermal	56%				Dermal	
		Uranium-234	2%	Inhalation	0%					
		Uranium-235	5%	External exposure	21%				Inhalation	
		Uranium-238	21%							
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 D6.6. Summary of Risk Characterization 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 Uranium-238	45% 33%	Ingestion Dermal Inhalation External exposure	10% 50% 0% 40%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**7.8E-05**	PAH, Total PCB, Total Neptunium-237 Uranium-234 Uranium-235 Uranium-238	9% 45% 6% 1% 5% 33%	Ingestion Dermal Inhalation External exposure	10% 50% 0% 40%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.1E-04**	PAH, Total PCB, Total Neptunium-237 Technetium-99 Uranium-234 Uranium-235 Uranium-238	9% 44% 4% 1% 6% 3% 33%	Ingestion Dermal Inhalation External exposure	52% 26% 0% 22%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**8.3E-05**	PAH, Total PCB, Total Cesium-137 Neptunium-237 Technetium-99 Uranium-234 Uranium-235 Uranium-238	16% 37% 2% 2% 2% 6% 3% 33%	Ingestion Dermal Inhalation External exposure	52% 26% 0% 22%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.7E-05**	PAH, Total PCB, Total Uranium-234 Uranium-238	15% 37% 6% 33%	Ingestion Dermal Inhalation External exposure	52% 26% 0% 22%	**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.6. Summary of Risk Characterization 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 PCB, Total Neptunium-237 Uranium-234 Uranium-235 Uranium-238	10% 49% 6% 1% 4% 30%	Ingestion Dermal Inhalation External exposure	18% 45% 0% 36%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1**	Iron Uranium Vanadium	56% 13% 31%	Ingestion Dermal Inhalation	100% 0% 0%
Future Adult Recreational User (surface soil)	**9.3E-05**	PAH, Total PCB, Total Neptunium-237 Uranium-234 Uranium-235 Uranium-238	14% 67% 2% 1% 2% 14%	Ingestion Dermal Inhalation External exposure	22% 64% 0% 14%	**<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 D6.7. Summary of Risk Characterization 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		**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.1E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	52% 50% 0% 48%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.0E-05**	PCB, Total	94%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.6E-06**	Uranium-238	100%	Ingestion Dermal Inhalation External exposure	11% 0% 0% 89%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.3**	Iron Silver Vanadium	39% 37% 24%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.7. Summary of Risk Characterization 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**	*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 D6.8. Summary of Risk Characterization 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		**<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)	**8.3E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.7E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**1.3**	Iron Manganese Vanadium	34% 47% 19%	Ingestion Dermal Inhalation	99% 1% 0%

Table D6.8. Summary of Risk Characterization 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**	*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 D6.9. Summary of Risk Characterization 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**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**8.2E-06**	Arsenic PAH, Total	66% 17%	Ingestion Dermal Inhalation External exposure	67% 20% 0% 12%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.9. Summary of Risk Characterization 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					**<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 D6.10. Summary of Risk Characterization 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		**<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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**2.9**	Iron Manganese Silver Vanadium	24% 59% 5% 12%	Ingestion Dermal Inhalation	98% 0% 2%

Table D6.10. Summary of Risk Characterization 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 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					**1.1**	Iron Manganese Silver Vanadium	25% 59% 5% 12%	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 D6.11. Summary of Risk Characterization 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**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**9.0E-06**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.3E-04**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	22% 78% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.11. Summary of Risk Characterization 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					**<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 D6.12. Summary of Risk Characterization 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		**<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)	**4.5E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**9.0E-06**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**1.6**	Iron Manganese Silver Vanadium	26% 46% 10% 18%	Ingestion Dermal Inhalation	99% 0% 1%

Table D6.12. Summary of Risk Characterization 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 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 D6.13. Summary of Risk Characterization 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		**<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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**2.8**	Iron Manganese Molybdenum Vanadium	19% 22% 48% 11%	Ingestion Dermal Inhalation	99% 0% 1%

Table D6.13. Summary of Risk Characterization 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**	*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					**1.1**	Iron Manganese Molybdenum Vanadium	19% 22% 48% 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 D6.14. Summary of Risk Characterization 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 Dermal Inhalation External exposure	9% 86% 0% 5%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**2.3E-05**	PCB, Total Uranium-238	93% 6%	Ingestion Dermal Inhalation External exposure	9% 86% 0% 5%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**3.0E-05**	PCB, Total Uranium-238	93% 6%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**5.8E-05**	PAH, Total PCB, Total Uranium-238	14% 80% 6%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.2E-05**	PAH, Total PCB, Total	14% 80%	Ingestion Dermal Inhalation External exposure	50% 47% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**8.8E-05**	PAH, Total PCB, Total Uranium-238	2% 94% 5%	Ingestion Dermal Inhalation External exposure	22% 74% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.14. Summary of Risk Characterization 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					**<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 D6.15. Summary of Risk Characterization for SWMU 15, 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)	**1.6E-06**	PAH, Total	66%	Ingestion	17%	**<1**	*No COCs		Ingestion	
				Dermal	80%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	3%					
Future Industrial Worker (surface soil)	**2.9E-05**	Arsenic	31%	Ingestion	17%	**<1**	*No COCs		Ingestion	
		PAH, Total	66%	Dermal	80%				Dermal	
		Uranium-238	4%	Inhalation	0%				Inhalation	
				External exposure	3%					
Outdoor Worker (surface soil)	**5.3E-05**	Arsenic	47%	Ingestion	66%	**1.1**	Antimony	52%	Ingestion	96%
		PAH, Total	50%	Dermal	33%		Arsenic	15%	Dermal	4%
		Uranium-238	3%	Inhalation	0%		Iron	12%	Inhalation	0%
				External exposure	1%					
Outdoor Worker (surface and subsurface soil)	**4.7E-05**	Arsenic	56%	Ingestion	70%	**5.4**	Antimony	15%	Ingestion	99%
		PAH, Total	38%	Dermal	28%		Arsenic	3%	Dermal	1%
		Technetium-99	4%	Inhalation	0%		Cadmium	2%	Inhalation	0%
		Uranium-238	2%	External exposure	1%		Iron	2%		
							Thallium	73%		
Excavation Worker (surface and subsurface soil)	**9.3E-06**	Arsenic	56%	Ingestion	70%	**5.4**	Antimony	15%	Ingestion	99%
		PAH, Total	38%	Dermal	28%		Arsenic	3%	Dermal	1%
				Inhalation	0%		Cadmium	2%	Inhalation	0%
				External exposure	1%		Iron	2%		
							Thallium	73%		

Table D6.15. Summary of Risk Characterization for SWMU 15, 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)	**1.3E-04**	Arsenic PAH, Total Uranium-238	37% 60% 3%	Ingestion Dermal Inhalation External exposure	36% 61% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**4.8**	Antimony Arsenic Cadmium Iron Nickel Thallium Uranium	50% 16% 6% 11% 7% 6% 3%	Ingestion Dermal Inhalation	93% 7% 0%
Future Adult Recreational User (surface soil)	**5.5E-05**	Arsenic PAH, Total	37% 62%	Ingestion Dermal Inhalation External exposure	34% 65% 0% 1%	**<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					**1.9**	Antimony Arsenic Cadmium Iron Nickel Thallium	50% 16% 6% 12% 7% 6%	Ingestion Dermal Inhalation	93% 7% 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 D6.16. Summary of Risk Characterization for SWMU 15, 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)	**2.5E-06**	PAH, Total	53%	Ingestion	16%	**<1**	*No COCs		Ingestion	
				Dermal	67%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	17%					
Future Industrial Worker (surface soil)	**4.5E-05**	Arsenic	26%	Ingestion	16%	**<1**	*No COCs		Ingestion	
		PAH, Total	53%	Dermal	67%				Dermal	
		PCB, Total	2%	Inhalation	0%				Inhalation	
		Uranium-235	2%	External exposure	17%					
		Uranium-238	16%							
Outdoor Worker (surface soil)	**7.9E-05**	Arsenic	41%	Ingestion	65%	**1.5**	Antimony	51%	Ingestion	97%
		PAH, Total	41%	Dermal	28%		Arsenic	14%	Dermal	2%
		PCB, Total	2%	Inhalation	0%		Iron	12%	Inhalation	0%
		Uranium-234	3%	External exposure	7%		Nickel	8%		
		Uranium-238	13%				Uranium	9		
Outdoor Worker (surface and subsurface soil)	**8.1E-05**	Arsenic	40%	Ingestion	64%	**2.1**	Antimony	39%	Ingestion	97%
		PAH, Total	40%	Dermal	27%		Arsenic	10%	Dermal	2%
		PCB, Total	2%	Inhalation	0%		Iron	8%	Inhalation	1%
		Neptunium-237	2%	External exposure	9%		Manganese	9%		
		Uranium-234	3%				Nickel	11%		
		Uranium-238	13%				Thallium	5%		
							Uranium	6%		
Excavation Worker (surface and subsurface soil)	**1.6E-05**	Arsenic	40%	Ingestion	64%	**2.1**	Antimony	39%	Ingestion	97%
		PAH, Total	40%	Dermal	27%		Arsenic	10%	Dermal	2%
		Uranium-238	13%	Inhalation	0%		Iron	8%	Inhalation	1%
				External exposure	9%		Manganese	9%		
							Nickel	11%		
							Thallium	5%		
							Uranium	6%		

Table D6.16. Summary of Risk Characterization for SWMU 15, 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 Resident (surface soil)	**1.9E-04**	Arsenic	33%	Ingestion	33%	**<1**	*No COCs		Ingestion	
		PAH, Total	50%	Dermal	53%				Dermal	
		PCB, Total	2%	Inhalation	0%				Inhalation	
		Uranium-234	1%	External exposure	13%					
		Uranium-235	2%							
		Uranium-238	13%							
Future Child Resident (surface soil)	See Future Adult Resident					**6.3**	Antimony	50%	Ingestion	95%
							Arsenic	15%	Dermal	4%
							Iron	11%	Inhalation	0%
							Mercury	6%		
							Nickel	8%		
							Uranium	9%		
Future Adult Recreational User (surface soil)	**7.5E-05**	Arsenic	35%	Ingestion	34%	**<1**	*No COCs		Ingestion	
		PAH, Total	56%	Dermal	62%				Dermal	
		PCB, Total	3%	Inhalation	0%				Inhalation	
		Uranium-238	5%	External exposure	4%					
Future Teen 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..										
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Antimony	50%	Ingestion	96%
							Arsenic	15%	Dermal	4%
							Iron	11%	Inhalation	0%
							Mercury	6%		
							Nickel	8%		
							Uranium	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.

Table D6.17. Summary of Risk Characterization for SWMU 15, 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	**3.6E-05**	Arsenic	3%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	3%	Dermal	7%				Dermal	
		Uranium-235	6%	Inhalation	0%				Inhalation	
		Uranium-238	82%	External exposure	81%					
Future Industrial Worker	**6.4E-04**	Arsenic	3%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	3%	Dermal	7%				Dermal	
		PCB, Total	3%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	81%					
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	82%							
Outdoor Worker	**9.3E-04**	Arsenic	6%	Ingestion	55%	**3**	Antimony	18%	Ingestion	97%
(surface soil)		PAH, Total	2%	Dermal	4%		Arsenic	11%	Dermal	2%
		PCB, Total	3%	Inhalation	0%		Cobalt	12%	Inhalation	1%
		Neptunium-237	1%	External exposure	41%		Copper	4%		
		Technetium-99	1%				Iron	13%		
		Thorium-230	0%				Manganese	7%		
		Uranium-234	5%				Mercury	4%		
		Uranium-235	4%				Nickel	17%		
		Uranium-238	78%				Uranium	7%		

Table D6.17. Summary of Risk Characterization for SWMU 15, 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	**1.2E-03**	Arsenic	6%	Ingestion	54%	**8.3**	Antimony	10%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	5%	Dermal	1%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Technetium-99	0%				Iron	5%		
		Thorium-230	0%				Manganese	3%		
		Uranium-234	5%				Mercury	3%		
		Uranium-235	4%				Nickel	6%		
		Uranium-238	76%				Thallium	60%		
							Uranium	3%		
Excavation Worker	**2.4E-04**	Arsenic	6%	Ingestion	54%	**8.3**	Antimony	10%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	5%	Dermal	1%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Uranium-234	5%				Iron	5%		
		Uranium-235	4%				Manganese	3%		
		Uranium-238	76%				Mercury	3%		
							Nickel	6%		
							Thallium	60%		
							Uranium	3%		
Future Adult Resident	**2.2E-03**	Arsenic	5%	Ingestion	14%	**1.4**	Antimony	15%	Ingestion	80%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	22%	Dermal	17%
		PCB, Total	4%	Inhalation	0%		Cobalt	10%	Inhalation	3%
		Neptunium-237	2%	External exposure	78%		Iron	11%		
		Technetium-99	0%				Manganese	7%		
		Thorium-230	0%				Nickel	15%		
		Uranium-234	1%							
Total ELCR and total HI represent total		Uranium-235	6%							
		Uranium-238	79%							

Table D6.17. Summary of Risk Characterization for SWMU 15, 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					**12.7**	Antimony	18%	Ingestion	95%
							Arsenic	13%	Dermal	4%
							Cadmium	2%	Inhalation	0%
							Cobalt	11%		
							Copper	4%		
							Iron	13%		
							Manganese	7%		
							Mercury	4%		
							Nickel	17%		
							Thallium	3%		
							Uranium	7%		
							Vanadium	1%		
Future Adult Recreational User (surface soil)	**4.1E-04**	Arsenic	11%	Ingestion	29%	**<1**	*No COCs		Ingestion	
		PAH, Total	7%	Dermal	18%				Dermal	
		PCB, Total	10%	Inhalation	0%				Inhalation	
		Neptunium-237	1%	External exposure	52%					
		Uranium-234	2%							
		Uranium-235	4%							
		Uranium-238	65%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.1**	Antimony	15%	Ingestion	79%
							Arsenic	24%	Dermal	20%
							Cobalt	9%	Inhalation	0%
							Iron	11%		
							Nickel	14%		

Table D6.17. Summary of Risk Characterization for SWMU 15, 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 Recreational User (surface soil)	See Future Adult Recreational User					**5.1**	Antimony	18%	Ingestion	96%
							Arsenic	13%	Dermal	4%
							Cadmium	2%	Inhalation	0%
							Cobalt	11%		
							Copper	4%		
							Iron	13%		
							Manganese	7%		
							Mercury	4%		
							Nickel	17%		
							Thallium	3%		
							Uranium	7%		

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 D6.18. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	12%	Dermal	80%				Dermal	
		PCB, Total	65%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	7%					
		Uranium-238	5%							
Outdoor Worker	**2.5E-04**	Arsenic	27%	Ingestion	59%	**2.9**	Antimony	20%	Ingestion	96%
(surface soil)		PAH, Total	11%	Dermal	38%		Arsenic	15%	Dermal	3%
		PCB, Total	55%	Inhalation	0%		Iron	10%	Inhalation	0%
		Neptunium-237	1%	External exposure	3%		Manganese	6%		
		Uranium-234	1%				Mercury	11%		
		Uranium-238	5%				Nickel	26%		
							Uranium	4%		
Outdoor Worker	**2.4E-04**	Arsenic	28%	Ingestion	59%	**9.4**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	4%	Dermal	1%
soil)		PCB, Total	58%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Manganese	2%		
		Uranium-234	1%				Mercury	5%		
		Uranium-238	3%				Nickel	8%		
							Thallium	67%		
							Uranium	1%		

Table D6.18. Summary of Risk Characterization 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
Excavation Worker	**4.7E-05**	Arsenic	28%	Ingestion	59%	**9.4**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	4%	Dermal	1%
soil)		PCB, Total	58%	Inhalation	0%		Iron	3%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Manganese	2%		
							Mercury	5%		
							Nickel	8%		
							Thallium	67%		
							Uranium	1%		
Future Adult Resident	**6.4E-04**	Arsenic	20%	Ingestion	29%	**1.4**	Antimony	16%	Ingestion	77%
(surface soil)		PAH, Total	12%	Dermal	66%		Arsenic	27%	Dermal	21%
		PCB, Total	62%	Inhalation	0%		Iron	8%	Inhalation	3%
		Neptunium-237	1%	External exposure	6%		Mercury	8%		
		Uranium-234	0%				Nickel	22%		
		Uranium-235	0%							
		Uranium-238	4%							
Future Child Resident	See Future Adult Resident					**12.5**	Antimony	20%	Ingestion	94%
(surface soil)							Arsenic	16%	Dermal	6%
							Cadmium	3%	Inhalation	0%
							Copper	2%		
							Iron	10%		
							Manganese	6%		
							Mercury	10%		
							Nickel	26%		
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..							Thallium	2%		
							Uranium	4%		
							Vanadium	2%		

Table D6.18. Summary of Risk Characterization 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 Recreational User (surface soil)	**2.7E-04**	Arsenic	20%	Ingestion	28%	**<1**	*No COCs		Ingestion	
		PAH, Total	10%	Dermal	71%				Dermal	
		PCB, Total	67%	Inhalation	0%				Inhalation	
		Neptunium-237	0%	External exposure	2%					
		Uranium-238	2%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.1**	Antimony	16%	Ingestion	75%
							Arsenic	30%	Dermal	25%
							Nickel	20%	Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.0**	Antimony	20%	Ingestion	94%
							Arsenic	16%	Dermal	6%
							Cadmium	3%	Inhalation	0%
							Iron	10%		
							Manganese	6%		
							Mercury	10%		
							Nickel	26%		
							Uranium	4%		

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 D6.19. Summary of Risk Characterization for SWMU 15, 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	**6.0E-06**	PCB, Total	77%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)				Dermal	80%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	9%					
Future Industrial Worker	**1.1E-04**	Arsenic	8%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	5%	Dermal	80%				Dermal	
		PCB, Total	77%	Inhalation	0%				Inhalation	
		Neptunium-237	3%	External exposure	9%					
		Uranium-235	1%							
		Uranium-238	6%							
Outdoor Worker	**1.6E-04**	Arsenic	16%	Ingestion	54%	**1.8**	Antimony	42%	Ingestion	98%
(surface soil)		PAH, Total	5%	Dermal	41%		Arsenic	9%	Dermal	2%
		PCB, Total	71%	Inhalation	0%		Copper	24%	Inhalation	0%
		Neptunium-237	1%	External exposure	5%		Nickel	12%		
		Uranium-235	1%				Uranium	10%		
		Uranium-238	6%							
Outdoor Worker	**2.4E-04**	Arsenic	11%	Ingestion	53%	**2.4**	Antimony	38%	Ingestion	98%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	7%	Dermal	2%
		PCB, Total	83%	Inhalation	0%		Copper	18%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Iron	4%		
		Uranium-238	3%				Manganese	4%		
							Mercury	8%		
							Nickel	9%		
							Uranium	7%		

Table D6.19. Summary of Risk Characterization for SWMU 15, EU 5 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker	**4.9E-05**	Arsenic	11%	Ingestion	53%	**2.4**	Antimony	38%	Ingestion	98%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	7%	Dermal	2%
soil)		PCB, Total	83%	Inhalation	0%		Copper	18%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Iron	4%		
							Manganese	4%		
							Mercury	8%		
							Nickel	9%		
							Uranium	7%		
Future Adult Resident	**4.3E-04**	Arsenic	11%	Ingestion	25%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	5%	Dermal	67%				Dermal	
		PCB, Total	76%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	7%					
		Uranium-235	1%							
		Uranium-238	5%							
Future Child Resident	See Future Adult Resident					**7.8**	Antimony	41%	Ingestion	96%
(surface soil)							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	23%		
							Nickel	12%		
							Uranium	10%		
Future Adult Recreational	**1.8E-04**	Arsenic	12%	Ingestion	24%	**<1**	*No COCs		Ingestion	
User (surface soil)		PAH, Total	6%	Dermal	73%				Dermal	
		PCB, Total	80%	Inhalation	0%				Inhalation	
Total ELCR and total HI represent total		Neptunium-237	1%	External exposure	2%					
		Uranium-238	2%							

Table D6.19. Summary of Risk Characterization for SWMU 15, 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 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					**3.1**	Antimony Arsenic Cadmium Copper Nickel Uranium	41% 10% 4% 23% 12% 10%	Ingestion Dermal Inhalation	96% 4% 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 D6.20. Summary of Risk Characterization for SWMU 15, 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	**3.4E-06**	PAH, Total	30%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	33%	Dermal	67%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	20%					
Future Industrial Worker	**6.1E-05**	Arsenic	14%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	30%	Dermal	67%				Dermal	
		PCB, Total	33%	Inhalation	0%				Inhalation	
		Neptunium-237	4%	External exposure	20%					
		Uranium-235	3%							
		Uranium-238	15%							
Outdoor Worker	**9.6E-05**	Arsenic	26%	Ingestion	59%	**1.5**	Antimony	45%	Ingestion	97%
(surface soil)		PAH, Total	26%	Dermal	31%		Arsenic	10%	Dermal	3%
		PCB, Total	28%	Inhalation	0%		Cobalt	11%	Inhalation	0%
		Neptunium-237	2%	External exposure	10%		Iron	9%		
		Uranium-234	3%				Nickel	12%		
		Uranium-235	1%							
		Uranium-238	14%							
Outdoor Worker	**8.5E-05**	Arsenic	28%	Ingestion	60%	**1.8**	Antimony	42%	Ingestion	97%
(surface and subsurface		PAH, Total	23%	Dermal	32%		Arsenic	8%	Dermal	3%
soil)		PCB, Total	32%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Neptunium-237	2%	External exposure	8%		Cobalt	6%		
		Uranium-234	3%				Iron	8%		
		Uranium-235	1%				Mercury	10%		
		Uranium-238	12%				Nickel	10%		

Table D6.20. Summary of Risk Characterization for SWMU 15, EU 6 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker	**1.7E-05**	Arsenic	28%	Ingestion	60%	**1.8**	Antimony	42%	Ingestion	97%
(surface and subsurface		PAH, Total	23%	Dermal	32%		Arsenic	8%	Dermal	3%
soil)		PCB, Total	32%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Uranium-238	12%	External exposure	8%		Cobalt	6%		
							Iron	8%		
							Mercury	10%		
							Nickel	10%		
Future Adult Resident	**2.4E-04**	Arsenic	19%	Ingestion	27%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	29%	Dermal	56%				Dermal	
		PCB, Total	32%	Inhalation	0%				Inhalation	
		Neptunium-237	3%	External exposure	17%					
		Uranium-234	1%							
		Uranium-235	2%							
		Uranium-238	13%							
Future Child Resident	See Future Adult Resident					**6.4**	Antimony	44%	Ingestion	95%
(surface soil)							Arsenic	12%	Dermal	5%
							Cadmium	5%	Inhalation	0%
							Cobalt	114%		
							Copper	2%		
							Iron	9%		
							Nickel	12%		
							Uranium	4%		
Future Adult Recreational	**9.5E-05**	Arsenic	21%	Ingestion	29%	**<1**	*No COCs		Ingestion	
Total ELCR and total HI represent total		PAH, Total	34%	Dermal	66%				Dermal	
		PCB, Total	37%	Inhalation	0%				Inhalation	
		Neptunium-237	1%	External exposure	5%					
		Uranium-238	5%							

Table D6.20. Summary of Risk Characterization for SWMU 15, 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 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					**2.6**	Antimony Arsenic Cadmium Cobalt Iron Nickel Uranium	44% 12% 5% 11% 9% 12% 4%	Ingestion Dermal Inhalation	95% 5% 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 D6.21. Summary of Risk Characterization for SWMU 15, 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)	**5.8E-06**	PCB, Total	81%	Ingestion	12%	**<1**	*No COCs		Ingestion	
				Dermal	82%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	5%					
Future Industrial Worker (surface soil)	**1.0E-04**	Arsenic	11%	Ingestion	12%	**<1**	*No COCs		Ingestion	
		PAH, Total	2%	Dermal	83%				Dermal	
		PCB, Total	81%	Inhalation	0%				Inhalation	
		Uranium-235	1%	External exposure	5%					
		Uranium-238	5%							
Outdoor Worker (surface soil)	**1.6E-04**	Arsenic	20%	Ingestion	57%	**2.2**	Antimony	48%	Ingestion	97%
		PAH, Total	2%	Dermal	40%		Arsenic	9%	Dermal	2%
		PCB, Total	72%	Inhalation	0%		Iron	7%	Inhalation	0%
		Uranium-234	1%	External exposure	3%		Manganese	7%		
		Uranium-235	1%				Nickel	16%		
		Uranium-238	4%							
Outdoor Worker (surface and subsurface soil)	**1.5E-04**	Arsenic	21%	Ingestion	57%	**2.2**	Antimony	50%	Ingestion	97%
		PAH, Total	1%	Dermal	41%		Arsenic	9%	Dermal	3%
		PCB, Total	73%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Uranium-234	1%	External exposure	2%		Iron	7%		
		Uranium-238	4%				Manganese	7%		
							Nickel	16%		

Table D6.21. Summary of Risk Characterization for SWMU 15, EU 7 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker	**3.1E-05**	Arsenic	21%	Ingestion	57%	**2.2**	Antimony	50%	Ingestion	97%
(surface and subsurface		PCB, Total	73%	Dermal	41%		Arsenic	9%	Dermal	3%
soil)		Uranium-238	4%	Inhalation	0%		Cadmium	5%	Inhalation	0%
				External exposure	2%		Iron	7%		
							Manganese	7%		
							Nickel	16%		
Future Adult Resident	**4.2E-04**	Arsenic	14%	Ingestion	27%	**1**	Antimony	40%	Ingestion	81%
(surface soil)		PAH, Total	2%	Dermal	68%		Arsenic	18%	Dermal	16%
		PCB, Total	79%	Inhalation	0%		Nickel	14%	Inhalation	3%
		Uranium-234	0%	External exposure	4%					
		Uranium-235	1%							
		Uranium-238	4%							
Future Child Resident	See Future Adult Resident					**9.3**	Antimony	47%	Ingestion	95%
(surface soil)							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	3%		
							Iron	7%		
							Manganese	7%		
							Nickel	15%		
							Thallium	4%		
							Uranium	2%		

Table D6.21. Summary of Risk Characterization for SWMU 15, 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)	**1.8E-04**	Arsenic	14%	Ingestion	26%	**<1**	*No COCs		Ingestion	
		PAH, Total	2%	Dermal	73%				Dermal	
		PCB, Total	82%	Inhalation	0%				Inhalation	
		Uranium-238	1%	External exposure	1%					
Future Teen Recreational	See Future Adult Recreational User					**<1**	*No COCs		Ingestion	
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..									Dermal	
									Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.7**	Antimony	47%	Ingestion	96%
							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	3%		
							Iron	7%		
							Manganese	7%		
							Nickel	15%		
							Thallium	4%		

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 D6.22. Summary of Risk Characterization for SWMU 15, 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)	**1.9E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	15% 70% 0% 15%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**3.4E-05**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	24% 12% 48% 4% 12%	Ingestion Dermal Inhalation External exposure	15% 70% 0% 15%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**5.7E-05**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	40% 10% 38% 2% 10%	Ingestion Dermal Inhalation External exposure	62% 31% 0% 7%	**1.2**	Antimony Arsenic Iron Mercury Nickel	48% 12% 10% 9% 10%	Ingestion Dermal Inhalation	96% 3% 0%
Outdoor Worker (surface and subsurface soil)	**5.9E-05**	Arsenic PAH, Total PCB, Total Uranium-238	38% 7% 46% 6%	Ingestion Dermal Inhalation External exposure	62% 34% 0% 4%	**1.5**	Antimony Arsenic Iron Mercury Nickel	51% 9% 8% 12% 7%	Ingestion Dermal Inhalation	97% 3% 0%

Table D6.22. Summary of Risk Characterization for SWMU 15, EU 8 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic PCB, Total	38% 46%	Ingestion Dermal Inhalation External exposure	62% 34% 0% 4%	**1.5**	Antimony Arsenic Iron Mercury Nickel	51% 9% 8% 12% 7%	Ingestion Dermal Inhalation	97% 3% 0%
Future Adult Resident (surface soil)	**1.4E-04**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	31% 11% 45% 3% 9%	Ingestion Dermal Inhalation External exposure	32% 57% 0% 12%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**5**	Antimony Arsenic Cadmium Iron Mercury Nickel Uranium	47% 14% 7% 10% 9% 9% 4%	Ingestion Dermal Inhalation	94% 6% 0%
Future Adult Recreational User (surface soil)	**5.8E-05**	Arsenic PAH, Total PCB, Total Uranium-238	33% 12% 50% 4%	Ingestion Dermal Inhalation External exposure	32% 64% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.22. Summary of Risk Characterization for SWMU 15, EU 8 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Total ELCR and total HI rep	See Future Adult Recreational User					**2**	Antimony	47%	Ingestion	94%
User (surface soil)							Arsenic	14%	Dermal	6%
							Cadmium	6%	Inhalation	0%
							Iron	10%		
							Mercury	8%		
							Nickel	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.

Table D6.23. Summary of Risk Characterization for SWMU 15, 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)	**2.0E-06**	PCB, Total	58%	Ingestion	15%	**<1**	*No COCs		Ingestion	
				Dermal	74%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	11%					
Future Industrial Worker (surface soil)	**3.5E-05**	Arsenic	22%	Ingestion	15%	**<1**	*No COCs		Ingestion	
		PAH, Total	8%	Dermal	74%				Dermal	
		PCB, Total	58%	Inhalation	0%				Inhalation	
		Uranium-238	12%	External exposure	11%					
Outdoor Worker (surface soil)	**5.9E-05**	Arsenic	37%	Ingestion	62%	**1.3**	Antimony	63%	Ingestion	97%
		PAH, Total	6%	Dermal	33%		Arsenic	10%	Dermal	3%
		PCB, Total	47%	Inhalation	0%		Iron	9%	Inhalation	0%
		Uranium-238	10%	External exposure	5%					
Outdoor Worker (surface and subsurface soil)	**6.1E-05**	Arsenic	42%	Ingestion	64%	**1.9**	Antimony	49%	Ingestion	97%
		PAH, Total	5%	Dermal	33%		Arsenic	8%	Dermal	3%
		PCB, Total	46%	Inhalation	0%		Cadmium	6%	Inhalation	1%
		Uranium-238	6%	External exposure	3%		Iron	7%		
							Manganese	11%		
							Mercury	10%		
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic	42%	Ingestion	64%	**1.9**	Antimony	49%	Ingestion	97%
		PCB, Total	46%	Dermal	33%		Arsenic	8%	Dermal	3%
				Inhalation	0%		Cadmium	6%	Inhalation	1%
				External exposure	3%		Iron	7%		
							Manganese	11%		
							Mercury	10%		

Table D6.23. Summary of Risk Characterization for SWMU 15, 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 Resident (surface soil)	**1.5E-04**	Arsenic	28%	Ingestion	31%	**<1**	*No COCs		Ingestion	
		PAH, Total	7%	Dermal	60%				Dermal	
		PCB, Total	55%	Inhalation	0%				Inhalation	
		Uranium-238	10%	External exposure	9%					
Future Child Resident (surface soil)	See Future Adult Resident					**5.8**	Antimony	62%	Ingestion	95%
							Arsenic	11%	Dermal	5%
							Cadmium	6%	Inhalation	0%
							Iron	9%		
							Nickel	7%		
							Uranium	2%		
							Vanadium	3%		
Future Adult Recreational User (surface soil)	**6.1E-05**	Arsenic	29%	Ingestion	31%	**<1**	*No COCs		Ingestion	
		PAH, Total	8%	Dermal	67%				Dermal	
		PCB, Total	59%	Inhalation	0%				Inhalation	
		Uranium-238	4%	External exposure	3%					
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					**2.3**	Antimony	62%	Ingestion	95%
							Arsenic	11%	Dermal	5%
							Cadmium	6%	Inhalation	0%
							Iron	9%		
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all							Nickel	6%		

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 D6.24. Summary of Risk Characterization for SWMU 15, 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)	**1.4E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	10% 90% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.0E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**1.3**	Antimony Nickel	72% 11%	Ingestion Dermal Inhalation	99% 1% 0%
Outdoor Worker (surface and subsurface soil)	**2.1E-05**	Arsenic PAH, Total	91% 9%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**1.5**	Antimony Arsenic Nickel	66% 8% 10%	Ingestion Dermal Inhalation	97% 2% 0%
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	91%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**1.5**	Antimony Arsenic Nickel	66% 8% 10%	Ingestion Dermal Inhalation	97% 2% 0%

Table D6.24. Summary of Risk Characterization for SWMU 15, 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)	**5.7E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	24% 76% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**5.6**	Antimony Cadmium Mercury Nickel Uranium	71% 6% 6% 10% 7%	Ingestion Dermal Inhalation	98% 2% 0%
Future Adult Recreational User (surface soil)	**2.6E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	22% 78% 0% 0%	**<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					**2.2**	Antimony Cadmium Mercury Nickel Uranium	71% 6% 6% 10% 7%	Ingestion Dermal Inhalation	98% 2% 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.

Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..

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.

Table D6.29. Summary of Risk Characterization for SWMU 77

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)	**1.5E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	11% 58% 0% 31%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**2.7E-05**	PCB, Total Uranium-238	61% 34%	Ingestion Dermal Inhalation External exposure	11% 58% 0% 31%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**4.0E-05**	PAH, Total PCB, Total Thorium-230 Uranium-238	3% 55% 10% 33%	Ingestion Dermal Inhalation External exposure	55% 29% 0% 16%	**1**	Iron Uranium Vanadium	22% 68% 10%	Ingestion Dermal Inhalation	100% 0% 0%
Outdoor Worker (surface and subsurface soil)	**4.0E-05**	PAH, Total PCB, Total Thorium-230 Uranium-238	3% 55% 10% 33%	Ingestion Dermal Inhalation External exposure	55% 29% 0% 16%	**1**	Iron Uranium Vanadium	22% 68% 10%	Ingestion Dermal Inhalation	100% 0% 0%
Excavation Worker (surface and subsurface soil)	**7.9E-06**	PCB, Total Uranium-238	55% 32%	Ingestion Dermal Inhalation External exposure	55% 29% 0% 16%	**1**	Iron Uranium Vanadium	22% 68% 10%	Ingestion Dermal Inhalation	100% 0% 0%
Future Adult Resident (surface soil)	**1.0E-04**	PAH, Total PCB, Total Thorium-230 Uranium-238	3% 64% 2% 31%	Ingestion Dermal Inhalation External exposure	20% 52% 0% 27%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**4.2**	Iron Uranium Vanadium	22% 68% 10%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.29. Summary of Risk Characterization for SWMU 77 (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)	**3.6E-05**	PAH, Total PCB, Total Uranium-238	4% 81% 13%	Ingestion Dermal Inhalation External exposure	23% 67% 0% 10%	**<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					**1.7**	Iron Uranium Vanadium	22% 68% 10%	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 D6.30. Summary of Risk Characterization for SWMU 80 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)	**2.2E-05**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	10% 90% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**3.9E-04**	Dioxins/Furans, Total PCB, Total	<1% >99%	Ingestion Dermal Inhalation External exposure	10% 90% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**5.3E-04**	Dioxins/Furans, Total PCB, Total	2% 98%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**5.2E-04**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.1E-04**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	50% 50% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.5E-03**	Dioxins/Furans, Total PCB, Total	1% 99%	Ingestion Dermal Inhalation External exposure	23% 77% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**2.0**	Uranium Dioxins/Furans, Total	21% 79%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.30. Summary of Risk Characterization for SWMU 80 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)	**7.0E-04**	Dioxins/Furans, Total PCB, Total	1% 99%	Ingestion Dermal Inhalation External exposure	21% 79% 0% 0%	**<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 D6.31. Summary of Risk Characterization for SWMU 80 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	**7.4E-05**	PCB, Total	3%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-235	6%	Dermal	3%				Dermal	
		Uranium-238	88%	Inhalation	0%				Inhalation	
				External exposure	86%					
Future Industrial Worker	**1.3E-03**	PAH, Total	1%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	3%	Dermal	3%				Dermal	
		Americium-241	0%	Inhalation	0%				Inhalation	
		Cesium-137	1%	External exposure	86%					
		Neptunium-237	0%							
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	88%							
Outdoor Worker	**1.8E-03**	PAH, Total	1%	Ingestion	52%	**6.7**	Antimony	7%	Ingestion	99%
(surface soil)		PCB, Total	3%	Dermal	2%		Cobalt	3%	Dermal	0%
		Americium-241	<1%	Inhalation	0%		Iron	2%	Inhalation	1%
		Cesium-137	<1%	External exposure	46%		Uranium	87%		
		Neptunium-237	<1%							
		Uranium-234	4%							
		Uranium-235	4%							
		Uranium-238	88%							

Table D6.31. Summary of Risk Characterization for SWMU 80 EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**1.9E-03**	Arsenic	1%	Ingestion	53%	**7.1**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	2%		Arsenic	2%	Dermal	0%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	3%	Inhalation	1%
		Americium-241	<1%	External exposure	45%		Iron	2%		
		Cesium-137	<1%				Manganese	2%		
		Neptunium-237	<1%				Uranium	82%		
		Uranium-234	4%							
		Uranium-235	4%							
		Uranium-238	87%							
Excavation Worker	**3.7E-04**	Arsenic	1%	Ingestion	53%	**7.1**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	2%		Arsenic	2%	Dermal	0%
soil)		PCB, Total	3%	Inhalation	0%		Cobalt	3%	Inhalation	1%
		Cesium-137	<1%	External exposure	45%		Iron	2%		
		Uranium-234	4%				Manganese	2%		
		Uranium-235	4%				Uranium	82%		
		Uranium-238	87%							
Future Adult Resident	**4.4E-03**	PAH, Total	1%	Ingestion	12%	**2.7**	Antimony	6%	Ingestion	96%
(surface soil)		PCB, Total	4%	Dermal	3%		Uranium	88%	Dermal	0%
		Americium-241	<1%	Inhalation	0%				Inhalation	4%
		Cesium-137	1%	External exposure	85%					
		Neptunium-237	<1%							
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	88%							

Table D6.31. Summary of Risk Characterization for SWMU 80 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 Child Resident (surface soil)	See Future Adult Resident					**28.2**	Antimony	7%	Ingestion	100%
							Cobalt	3%	Dermal	0%
							Iron	2%	Inhalation	0%
							Uranium	87%		
							Vanadium	1%		
Future Adult Recreational User (surface soil)	**7.2E-04**	PAH, Total	2%	Ingestion	26%	**<1**	*No COCs		Ingestion	
		PCB, Total	10%	Dermal	9%				Dermal	
		Cesium-137	<1%	Inhalation	0%				Inhalation	
		Uranium-234	2%	External exposure	64%					
		Uranium-235	5%							
		Uranium-238	81%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2**	Antimony	7%	Ingestion	99%
							Uranium	87%	Dermal	0%
									Inhalation	1%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**11.2**	Antimony	7%	Ingestion	100%
							Cobalt	3%	Dermal	0%
							Iron	2%	Inhalation	0%
							Uranium	87%		
							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 D6.32. Summary of Risk Characterization for SWMU 80 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-04**	PCB, Total	100%	Ingestion	9%	**<1**	*No COCs		Ingestion	
				Dermal	91%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	0%					
Future Industrial Worker (surface soil)	**1.9E-03**	PCB, Total	100%	Ingestion	9%	**<1**	*No COCs		Ingestion	
				Dermal	91%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	0%					
Outdoor Worker (surface soil)	**2.5E-03**	PCB, Total	>99%	Ingestion	50%	**<1**	*No COCs		Ingestion	
		Uranium-238	<1%	Dermal	50%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	0%					
Outdoor Worker (surface and subsurface soil)	**2.5E-03**	Arsenic	<1%	Ingestion	50%	**2.6**	Antimony	30%	Ingestion	98%
		PAH, Total	<1%	Dermal	50%		Arsenic	5%	Dermal	2%
		PCB, Total	99%	Inhalation	0%		Iron	6%	Inhalation	0%
		Uranium-238	<1%	External exposure	0%		Manganese	5%		
							Mercury	32%		
							Molybdenum	14%		
Excavation Worker (surface and subsurface soil)	**5.0E-04**	Arsenic	<1%	Ingestion	50%	**2.6**	Antimony	30%	Ingestion	98%
		PAH, Total	<1%	Dermal	50%		Arsenic	5%	Dermal	2%
		PCB, Total	99%	Inhalation	0%		Iron	6%	Inhalation	0%
				External exposure	0%		Manganese	5%		
							Mercury	32%		
							Molybdenum	14%		
Future Adult Resident (surface soil)	**7.2E-03**	PCB, Total	>99%	Ingestion	22%	**<1**	*No COCs		Ingestion	
		Uranium-238	<1%	Dermal	77%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	0%					
Future Child Resident (surface soil)	See Future Adult Resident					**2.7**	Iron	21%	Ingestion	99%
							Manganese	19%	Dermal	0%
							Molybdenum	37%	Inhalation	1%
							Uranium	12%		
							Vanadium	12%		

Table D6.32. Summary of Risk Characterization for SWMU 80 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)	**3.3E-03**	PCB, Total	100%	Ingestion Dermal Inhalation External exposure	21% 79% 0% 0%	**<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					**1.1**	Iron Manganese Molybdenum Uranium Vanadium	21% 19% 37% 11% 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 D6.33. Summary of Risk Characterization for AOC 204 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)	**6.3E-06**	PAH, Total	88%	Ingestion Dermal Inhalation External exposure	10% 79% 0% 11%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**8.7E-06**	PAH, Total Uranium-238	88% 12%	Ingestion Dermal Inhalation External exposure	52% 42% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**8.7E-06**	PAH, Total Uranium-238	87% 13%	Ingestion Dermal Inhalation External exposure	52% 42% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.8E-06**	PAH, Total	87%	Ingestion Dermal Inhalation External exposure	52% 42% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.4E-05**	PAH, Total Uranium-238	89% 10%	Ingestion Dermal Inhalation External exposure	22% 68% 0% 9%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident								Ingestion Dermal Inhalation	

Table D6.33. Summary of Risk Characterization for AOC 204 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-05**	PAH, Total	96%	Ingestion Dermal Inhalation External exposure	22% 75% 0% 3%	**<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 D6.34. Summary of Risk Characterization for AOC 204 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)	**2.0E-06**	Arsenic	91%	Ingestion Dermal Inhalation External exposure	31% 63% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**3.5E-05**	Arsenic Uranium-238	91% 7%	Ingestion Dermal Inhalation External exposure	31% 63% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**9.5E-05**	Arsenic Uranium-238	96% 3%	Ingestion Dermal Inhalation External exposure	81% 18% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**9.4E-05**	Arsenic Uranium-238	97% 3%	Ingestion Dermal Inhalation External exposure	81% 18% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.9E-05**	Arsenic	97%	Ingestion Dermal Inhalation External exposure	81% 18% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.8E-04**	Arsenic PAH, Total Uranium-238	94% 1% 4%	Ingestion Dermal Inhalation External exposure	55% 41% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**3.1**	Arsenic Vanadium	90% 10%	Ingestion Dermal Inhalation	74% 26% 0%

Table D6.34. Summary of Risk Characterization for AOC 204 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)	**7.7E-05**	Arsenic PAH, Total Uranium-238	97% 2% 2%	Ingestion Dermal Inhalation External exposure	54% 45% 0% 1%	**<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					**1.2**	Arsenic Vanadium	90% 10%	Ingestion Dermal Inhalation	74% 26% 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 D6.35. Summary of Risk Characterization for AOC 204 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)	**1.8E-06**	Uranium-238	78%	Ingestion Dermal Inhalation External exposure	10% 20% 0% 70%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.5E-06**	Uranium-238	78%	Ingestion Dermal Inhalation External exposure	52% 11% 0% 37%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.4E-05**	Arsenic Uranium-238	90% 8%	Ingestion Dermal Inhalation External exposure	79% 17% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.9E-06**	Arsenic	90%	Ingestion Dermal Inhalation External exposure	79% 17% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**6.2E-06**	PAH, Total Uranium-238	25% 75%	Ingestion Dermal Inhalation External exposure	14% 19% 0% 66%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident								Ingestion Dermal Inhalation	

Table D6.35. Summary of Risk Characterization for AOC 204 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)	**1.4E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	24% 39% 0% 37%	**<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 D6.36. Summary of Risk Characterization for AOC 204 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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**1.4E-06**	Uranium-238	81%	Ingestion Dermal Inhalation External exposure	10% 17% 0% 72%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.9E-06**	Uranium-238	81%	Ingestion Dermal Inhalation External exposure	52% 9% 0% 39%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.4E-05**	Arsenic Uranium-238	92% 6%	Ingestion Dermal Inhalation External exposure	80% 17% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	92%	Ingestion Dermal Inhalation External exposure	80% 17% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**4.7E-06**	PAH, Total Uranium-238	22% 78%	Ingestion Dermal Inhalation External exposure	14% 17% 0% 69%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**2.8**	Iron Molybdenum Silver Vanadium	19% 63% 5% 13%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.36. Summary of Risk Characterization for AOC 204 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)	**1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	24% 36% 0% 40%	**<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					**1.1**	Iron Molybdenum Vanadium	19% 63% 13%	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 D6.37. Summary of Risk Characterization for AOC 204 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 (surface soil)	**2.5E-06**	Arsenic	91%	Ingestion Dermal Inhalation External exposure	31% 62% 0% 7%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**4.4E-05**	Arsenic Uranium-238	92% 8%	Ingestion Dermal Inhalation External exposure	31% 62% 0% 7%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.2E-04**	Arsenic Uranium-238	95% 4%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**1.2E-04**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**1.0**	Arsenic Cobalt Manganese	69% 11% 13%	Ingestion Dermal Inhalation	87% 12% 1%
Excavation Worker (surface and subsurface soil)	**2.4E-05**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**1.0**	Arsenic Cobalt Manganese	69% 11% 13%	Ingestion Dermal Inhalation	87% 12% 1%
Future Adult Resident (surface soil)	**2.3E-04**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	55% 40% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**3.7**	Arsenic Vanadium	92% 8%	Ingestion Dermal Inhalation	74% 26% 0%

Table D6.37. Summary of Risk Characterization for AOC 204 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)	**9.5E-05**	Arsenic Uranium-238	98% 2%	Ingestion Dermal Inhalation External exposure	54% 45% 0% 1%	**<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					**1.5**	Arsenic Vanadium	92% 8%	Ingestion Dermal Inhalation	74% 26% 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 D6.38. Summary of Risk Characterization for AOC 204 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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**2.6E-06**	Uranium-238	86%	Ingestion Dermal Inhalation External exposure	10% 13% 0% 77%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**3.6E-06**	Uranium-238	86%	Ingestion Dermal Inhalation External exposure	52% 7% 0% 41%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.3E-05**	Arsenic Uranium-238	85% 13%	Ingestion Dermal Inhalation External exposure	78% 16% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 16% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**8.7E-06**	PAH, Total Uranium-238	16% 84%	Ingestion Dermal Inhalation External exposure	13% 13% 0% 74%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.38. Summary of Risk Characterization for AOC 204 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 Recreational User (surface soil)	**1.7E-06**	Uranium-238	63%	Ingestion Dermal Inhalation External exposure	25% 29% 0% 46%	**<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 D6.39. Summary of Risk Characterization for AOC 204 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)	**1.3E-06**	Uranium-238	92%	Ingestion Dermal Inhalation External exposure	10% 7% 0% 82%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.9E-06**	Uranium-238	92%	Ingestion Dermal Inhalation External exposure	52% 4% 0% 44%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**3.6E-05**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**7.1E-06**	Arsenic	95%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**4.5E-06**	Uranium-238	91%	Ingestion Dermal Inhalation External exposure	12% 7% 0% 80%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.9**	Iron Manganese Vanadium	28% 55% 17%	Ingestion Dermal Inhalation	98% 0% 2%

Table D6.39. Summary of Risk Characterization for AOC 204 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**	*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 D6.40. Summary of Risk Characterization for AOC 204 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)	**2.0E-06**	Uranium-238	60%	Ingestion Dermal Inhalation External exposure	10% 36% 0% 53%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.8E-06**	PAH, Total Uranium-238	40% 60%	Ingestion Dermal Inhalation External exposure	52% 19% 0% 29%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.0E-05**	Arsenic PAH, Total Uranium-238	86% 6% 9%	Ingestion Dermal Inhalation External exposure	78% 18% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**3.9E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 18% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**7.3E-06**	PAH, Total Uranium-238	45% 55%	Ingestion Dermal Inhalation External exposure	17% 34% 0% 49%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.5**	Cobalt Iron Vanadium	41% 37% 23%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.40. Summary of Risk Characterization for AOC 204 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)	**2.1E-06**	PAH, Total	71%	Ingestion Dermal Inhalation External exposure	23% 55% 0% 22%	**<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 D6.41. Summary of Risk Characterization for AOC 204 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)	**3.2E-06**	PAH, Total	98%	Ingestion Dermal Inhalation External exposure	10% 88% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**5.7E-05**	PAH, Total Uranium-238	98% 2%	Ingestion Dermal Inhalation External exposure	10% 88% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**7.9E-05**	PAH, Total Uranium-238	98% 2%	Ingestion Dermal Inhalation External exposure	52% 47% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**9.6E-05**	Arsenic PAH, Total Uranium-238	17% 81% 2%	Ingestion Dermal Inhalation External exposure	57% 42% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.9E-05**	Arsenic PAH, Total	17% 81%	Ingestion Dermal Inhalation External exposure	57% 42% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.3E-04**	PAH, Total Uranium-238	98% 2%	Ingestion Dermal Inhalation External exposure	24% 75% 0% 2%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.41. Summary of Risk Characterization for AOC 204 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)	**1.0E-04**	PAH, Total	99%	Ingestion Dermal Inhalation External exposure	22% 78% 0% 0%	**<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 D6.42. Summary of Risk Characterization for AOC 204 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)	**2.6E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	10% 25% 0% 65%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**3.6E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	52% 13% 0% 35%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**5.5E-06**	Cesium-137 Uranium-238	34% 48%	Ingestion Dermal Inhalation External exposure	35% 9% 0% 57%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**1.2E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	32% 8% 0% 60%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**9.2E-06**	PAH, Total Uranium-238	31% 69%	Ingestion Dermal Inhalation External exposure	15% 24% 0% 61%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.2**	Antimony Iron Vanadium	30% 45% 24%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.42. Summary of Risk Characterization for AOC 204 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 Recreational User (surface soil)	**2.2E-06**	PAH, Total	57%	Ingestion Dermal Inhalation External exposure	24% 45% 0% 31%	**<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 D6.43. Summary of Risk Characterization for AOC 204 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)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**2.9E-06**	PAH, Total Uranium-238	35% 65%	Ingestion Dermal Inhalation External exposure	10% 31% 0% 58%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**4.0E-06**	PAH, Total Uranium-238	35% 65%	Ingestion Dermal Inhalation External exposure	52% 17% 0% 31%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.2E-05**	Arsenic PAH, Total Uranium-238	80% 8% 12%	Ingestion Dermal Inhalation External exposure	76% 18% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	80%	Ingestion Dermal Inhalation External exposure	76% 18% 0% 6%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.0E-05**	PAH, Total Uranium-238	39% 61%	Ingestion Dermal Inhalation External exposure	16% 30% 0% 54%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.43. Summary of Risk Characterization for AOC 204 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)	**2.7E-06**	PAH, Total	65%	Ingestion Dermal Inhalation External exposure	23% 51% 0% 25%	**<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 D6.44. Summary of Risk Characterization for AOC 204 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)	**2.7E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	10% 24% 0% 66%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**3.7E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	52% 13% 0% 35%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.5E-05**	Arsenic Cesium-137 Uranium-238	77% 8% 11%	Ingestion Dermal Inhalation External exposure	71% 16% 0% 13%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**5.1E-06**	Arsenic	76%	Ingestion Dermal Inhalation External exposure	70% 15% 0% 14%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**9.4E-06**	PAH, Total Uranium-238	30% 70%	Ingestion Dermal Inhalation External exposure	15% 23% 0% 62%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.2**	Iron Thallium Vanadium	45% 23% 32%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.44. Summary of Risk Characterization for AOC 204 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 Recreational User (surface soil)	**2.3E-06**	PAH, Total	56%	Ingestion Dermal Inhalation External exposure	24% 44% 0% 32%	**<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 D6.45. Summary of Risk Characterization for AOC 204 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)	**7.5E-06**	PAH, Total Uranium-238	76% 24%	Ingestion Dermal Inhalation External exposure	10% 68% 0% 22%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.0E-05**	PAH, Total Uranium-238	76% 24%	Ingestion Dermal Inhalation External exposure	52% 37% 0% 12%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.9E-05**	Arsenic PAH, Total Cesium-137 Uranium-238	58% 27% 7% 9%	Ingestion Dermal Inhalation External exposure	66% 23% 0% 11%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**5.9E-06**	Arsenic PAH, Total	57% 26%	Ingestion Dermal Inhalation External exposure	65% 23% 0% 12%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.8E-05**	PAH, Total Uranium-238	79% 21%	Ingestion Dermal Inhalation External exposure	21% 60% 0% 19%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.45. Summary of Risk Characterization for AOC 204 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)	**1.1E-05**	PAH, Total	91%	Ingestion Dermal Inhalation External exposure	22% 72% 0% 6%	**<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 D6.46. Summary of Risk Characterization for AOC 204 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)	**5.6E-06**	Arsenic	96%	Ingestion	32%	**<1**	*No COCs		Ingestion	
				Dermal	66%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	2%					
Future Industrial Worker (surface soil)	**1.0E-04**	Arsenic	96%	Ingestion	32%	**<1**	*No COCs		Ingestion	
		PAH, Total	1%	Dermal	66%				Dermal	
		Uranium-238	3%	Inhalation	0%				Inhalation	
				External exposure	2%					
Outdoor Worker (surface soil)	**2.8E-04**	Arsenic	98%	Ingestion	82%	**2.1**	Arsenic	82%	Ingestion	85%
		PAH, Total	1%	Dermal	18%		Iron	7%	Dermal	15%
		Uranium-238	1%	Inhalation	0%		Uranium	7%	Inhalation	0%
				External exposure	1%					
Outdoor Worker (surface and subsurface soil)	**2.8E-04**	Arsenic	98%	Ingestion	82%	**2.2**	Arsenic	78%	Ingestion	86%
		PAH, Total	1%	Dermal	18%		Iron	7%	Dermal	14%
		Uranium-238	1%	Inhalation	0%		Manganese	5%	Inhalation	0%
				External exposure	1%		Uranium	6%		
Excavation Worker (surface and subsurface soil)	**5.5E-05**	Arsenic	98%	Ingestion	82%	**2.2**	Arsenic	78%	Ingestion	86%
				Dermal	18%		Iron	7%	Dermal	14%
				Inhalation	0%		Manganese	5%	Inhalation	0%
				External exposure	1%		Uranium	6%		
Future Adult Resident (surface soil)	**5.2E-04**	Arsenic	97%	Ingestion	56%	**1.7**	Arsenic	91%	Ingestion	41%
		PAH, Total	1%	Dermal	42%				Dermal	59%
		Uranium-238	2%	Inhalation	0%				Inhalation	1%
				External exposure	1%					
Future Child Resident (surface soil)	See Future Adult Resident					**9.7**	Arsenic	84%	Ingestion	76%
							Iron	6%	Dermal	24%
							Uranium	6%	Inhalation	0%
							Vanadium	4%		

Table D6.46. Summary of Risk Characterization for AOC 204 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)	**2.2E-04**	Arsenic	98%	Ingestion	54%	**<1**	*No COCs		Ingestion	
		PAH, Total	1%	Dermal	45%				Dermal	
		Uranium-238	1%	Inhalation	0%				Inhalation	
				External exposure	0%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.4**	Arsenic	92%	Ingestion	36%
									Dermal	64%
									Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.9**	Arsenic	84%	Ingestion	76%
							Iron	6%	Dermal	24%
							Uranium	6%	Inhalation	0%
							Vanadium	4%		

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 D6.47. Summary of Risk Characterization for AOC 204 EU 15

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)	**8.9E-06**	Cesium-137 Uranium-238	62% 36%	Ingestion Dermal Inhalation External exposure	4% 1% 0% 95%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**8.9E-06**	Cesium-137 Uranium-238	47% 51%	Ingestion Dermal Inhalation External exposure	28% 1% 0% 71%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**1.2E-05**	PAH, Total Cesium-137 Uranium-238	25% 36% 39%	Ingestion Dermal Inhalation External exposure	34% 12% 0% 54%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**2.5E-06**	Cesium-137	41%	Ingestion Dermal Inhalation External exposure	31% 11% 0% 58%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**2.9E-05**	Cesium-137 Uranium-238	61% 37%	Ingestion Dermal Inhalation External exposure	5% 1% 0% 94%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.47. Summary of Risk Characterization for AOC 204 EU 15 (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)	**4.1E-06**	Cesium-137 Uranium-238	55% 39%	Ingestion Dermal Inhalation External exposure	12% 5% 0% 83%	**<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 D6.48. Summary of Risk Characterization for AOC 204 EU 16

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)	**1.7E-05**	Arsenic	98%	Ingestion Dermal Inhalation External exposure	81% 19% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**3.3E-06**	Arsenic	98%	Ingestion Dermal Inhalation External exposure	81% 19% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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**	*No COCs		Ingestion Dermal Inhalation	

Table D6.48. Summary of Risk Characterization for AOC 204 EU 16 (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)	**4.1E-06**	Cesium-137 Uranium-238	55% 39%	Ingestion Dermal Inhalation External exposure	12% 5% 0% 83%	**<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 D6.49. Summary of Risk Characterization for AOC 204 EU 17

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)	**2.2E-06**	Uranium-238	69%	Ingestion Dermal Inhalation External exposure	10% 28% 0% 62%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**3.0E-06**	Uranium-238	69%	Ingestion Dermal Inhalation External exposure	52% 15% 0% 33%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.3E-05**	Arsenic PAH, Total Uranium-238	81% 10% 9%	Ingestion Dermal Inhalation External exposure	76% 19% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	81%	Ingestion Dermal Inhalation External exposure	76% 19% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**7.6E-06**	PAH, Total Uranium-238	34% 65%	Ingestion Dermal Inhalation External exposure	15% 26% 0% 58%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.49. Summary of Risk Characterization for AOC 204 EU 17 (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-06**	PAH, Total	61%	Ingestion Dermal Inhalation External exposure	24% 48% 0% 29%	**<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 D6.50. Summary of Risk Characterization for AOC 204 EU 18

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)	**1.2E-06**	Uranium-238	93%	Ingestion Dermal Inhalation External exposure	10% 6% 0% 84%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**1.6E-06**	Uranium-238	93%	Ingestion Dermal Inhalation External exposure	52% 3% 0% 45%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**1.8E-06**	Uranium-238	82%	Ingestion Dermal Inhalation External exposure	52% 9% 0% 39%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**3.9E-06**	Uranium-238	92%	Ingestion Dermal Inhalation External exposure	12% 6% 0% 82%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**1.5**	Iron Uranium Vanadium	42% 32% 26%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.50. Summary of Risk Characterization for AOC 204 EU 18 (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 D6.51. Summary of Risk Characterization for AOC 204 EU 19

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)	**3.1E-06**	PAH, Total Uranium-238	47% 53%	Ingestion Dermal Inhalation External exposure	10% 43% 0% 47%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**4.2E-06**	PAH, Total Uranium-238	47% 53%	Ingestion Dermal Inhalation External exposure	52% 23% 0% 25%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.8E-05**	Arsenic PAH, Total Uranium-238	85% 7% 8%	Ingestion Dermal Inhalation External exposure	78% 19% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**5.6E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 19% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**1.1E-05**	PAH, Total Uranium-238	52% 48%	Ingestion Dermal Inhalation External exposure	18% 39% 0% 43%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.51. Summary of Risk Characterization for AOC 204 EU 19 (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)	**3.4E-06**	PAH, Total	76%	Ingestion Dermal Inhalation External exposure	23% 60% 0% 17%	**<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 D6.52. Summary of Risk Characterization for AOC 204 EU 20

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**1.8E-04**	PCB, Total	8%	Ingestion	10%	**<1**	*No COCs		Ingestion	
(surface soil)		Protactinium-231	1%	Dermal	7%				Dermal	
		Uranium-234	1%	Inhalation	0%					
		Uranium-235	5%	External exposure	82%				Inhalation	
		Uranium-238	85%							
Future Industrial Worker	**3.1E-03**	PCB, Total	8%	Ingestion	10%	**2**	Uranium	100%	Ingestion	94%
(surface soil)		Cesium-137	<1%	Dermal	7%				Dermal	0%
		Protactinium-231	1%	Inhalation	0%				Inhalation	6%
		Uranium-234	1%	External exposure	82%					
		Uranium-235	5%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	PCB, Total	8%	Ingestion	52%	**13.4**	*No COCs		Ingestion	
(surface soil)		Americium-241	<1%	Dermal	4%				Dermal	
		Cesium-137	<1%	Inhalation	0%				Inhalation	
		Protactinium-231	1%	External exposure	44%					
		Uranium-234	3%							
		Uranium-235	3%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	Arsenic	1%	Ingestion	53%	**14.1**	Arsenic	1%	Ingestion	99%
(surface and subsurface		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	0%
soil)		Americium-241	<1%	Inhalation	0%		Iron	1%	Inhalation	1%
		Cesium-137	<1%	External exposure	43%		Manganese	1%		
		Protactinium-231	1%				Uranium	95%		
		Uranium-234	3%							
		Uranium-235	3%							
		Uranium-238	84%							
Excavation Worker	**8.8E-04**	Arsenic	1%	Ingestion	52%	**14.1**	Arsenic	1%	Ingestion	99%
(surface and subsurface		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	0%
soil)		Cesium-137	<1%	Inhalation	0%		Iron	1%	Inhalation	1%
		Protactinium-231	1%	External exposure	43%		Manganese	1%		
		Uranium-234	3%				Uranium	95%		
		Uranium-235	3%							
		Uranium-238	84%							

Table D6.52. Summary of Risk Characterization for AOC 204 EU 20 (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-02**	PCB, Total	10%	Ingestion	12%	**5.5**	Uranium	99%	Ingestion	95%
		Americium-241	<1	Dermal	7%				Dermal	
		Cesium-137	<1	Inhalation	0%				Inhalation	5%
		Protactinium-231	1%	External exposure	80%					
		Uranium-234	1%							
		Uranium-235	5%							
		Uranium-238	84%							
Future Child Resident (surface soil)	See Future Adult Resident					**56.2**	Uranium	99%	Ingestion	100%
							Vanadium	1%	Dermal	
									Inhalation	0%
Future Adult Recreational User (surface soil)	**1.9E-03**	PCB, Total	24%	Ingestion	26%	**1.6**	Uranium	99%	Ingestion	99%
		Cesium-137	<1%	Dermal	19%				Dermal	0%
		Protactinium-231	1%	Inhalation	0%				Inhalation	1%
		Uranium-234	1%	External exposure	55%					
		Uranium-235	3%							
		Uranium-238	70%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.9**	Uranium	99%	Ingestion	99%
									Dermal	0%
									Inhalation	1%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**22.4**	Uranium	99%	Ingestion	100%
							Vanadium	1%	Dermal	0%
									Inhalation	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 D6.53. Summary of Risk Characterization for AOC 204 EU 21

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)	**1.7E-05**	Arsenic	98%	Ingestion Dermal Inhalation External exposure	82% 18% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**3.5E-06**	Arsenic	99%	Ingestion Dermal Inhalation External exposure	82% 18% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
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					**1.1**	Cobalt Vanadium	72% 28%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.53. Summary of Risk Characterization for AOC 204 EU 21 (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 D6.54. Summary of Risk Characterization for SWMU 211-A

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**6.5E-06**	Neptunium-237	20%	Ingestion	9%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-238	62%	Dermal	2%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	89%					
Future Industrial Worker	**1.2E-04**	PAH, Total	1%	Ingestion	9%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	1%	Dermal	2%				Dermal	
		Cesium-137	13%	Inhalation	0%				Inhalation	
		Neptunium-237	20%	External exposure	88%					
		Uranium-234	3%							
		Uranium-238	62%							
Outdoor Worker	**1.6E-04**	PAH, Total	1%	Ingestion	50%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	1%	Dermal	1%				Dermal	
		Cesium-137	7%	Inhalation	0%				Inhalation	
		Neptunium-237	12%	External exposure	49%					
		Uranium-234	14%							
		Uranium-238	64%							
Outdoor Worker	**2.0E-04**	Arsenic	10%	Ingestion	58%	**1.9**	Antimony	38%	Ingestion	98%
(surface and subsurface		PAH, Total	1%	Dermal	13%		Arsenic	6%	Dermal	2%
soil)		PCB, Total	22%	Inhalation	0%		Cobalt	26%	Inhalation	0%
		Uranium-234	11%	External exposure	28%		Iron	11%		
		Uranium-235	5%				Thallium	10%		
		Uranium-238	51%							
Excavation Worker	**3.9E-05**	Arsenic	10%	Ingestion	58%	**1.9**	Antimony	38%	Ingestion	98%
(surface and subsurface		PCB, Total	22%	Dermal	13%		Arsenic	6%	Dermal	2%
soil)		Uranium-234	11%	Inhalation	0%		Cobalt	26%	Inhalation	0%
		Uranium-235	5%	External exposure	28%		Iron	11%		
		Uranium-238	51%				Thallium	10%		

Table D6.54. Summary of Risk Characterization for SWMU 211-A (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)	**3.8E-04**	PAH, Total	1%	Ingestion	11%	**<1**	*No COCs		Ingestion	
		PCB, Total	1%	Dermal	2%				Dermal	
		Cesium-137	12%	Inhalation	0%				Inhalation	
		Neptunium-237	20%	External exposure	87%					
		Uranium-234	3%							
		Uranium-238	62%							
Future Child Resident (surface soil)	See Future Adult Resident					**3.3**	Antimony	63%	Ingestion	100%
							Iron	17%	Dermal	0%
							Thallium	13%	Inhalation	0%
							Vanadium	8%		
Future Adult Recreational User (surface soil)	**6.0E-05**	PAH, Total	3%	Ingestion	25%	**<1**	*No COCs		Ingestion	
		PCB, Total	3%	Dermal	5%				Dermal	
		Cesium-137	10%	Inhalation	0%				Inhalation	
		Neptunium-237	16%	External exposure	70%					
		Uranium-234	7%							
		Uranium-238	60%							
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					**1.3**	Antimony	63%	Ingestion	100%
							Iron	17%	Dermal	0%
							Thallium	13%	Inhalation	0%
							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.

Table D6.55. Summary of Risk Characterization for SWMU 224

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)	**1.5E-05**	PAH, Total Uranium-238	44% 56%	Ingestion Dermal Inhalation External exposure	10% 40% 0% 50%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.1E-05**	PAH, Total Uranium-238	44% 56%	Ingestion Dermal Inhalation External exposure	52% 21% 0% 27%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**4.3E-05**	Arsenic PAH, Total Cesium-137 Uranium-238	46% 21% 6% 27%	Ingestion Dermal Inhalation External exposure	63% 18% 0% 19%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**8.7E-06**	Arsenic PAH, Total Uranium-238	45% 21% 27%	Ingestion Dermal Inhalation External exposure	62% 18% 0% 20%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**5.4E-05**	PAH, Total Uranium-238	49% 51%	Ingestion Dermal Inhalation External exposure	17% 37% 0% 46%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**3.6**	Antimony Uranium	95% 5%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.55. Summary of Risk Characterization for SWMU 224 (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)	**1.6E-05**	PAH, Total Uranium-238	74% 26%	Ingestion Dermal Inhalation External exposure	23% 58% 0% 19%	**<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					**1.5**	Antimony	95%	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 D6.56. Summary of Risk Characterization for SWMU 225

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)	**2.1E-06**	Uranium-238	59%	Ingestion Dermal Inhalation External exposure	10% 37% 0% 53%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.9E-06**	PAH, Total Uranium-238	41% 59%	Ingestion Dermal Inhalation External exposure	52% 20% 0% 28%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface and subsurface soil)	**2.2E-05**	Arsenic PAH, Total Cesium-137 Uranium-238	74% 6% 13% 8%	Ingestion Dermal Inhalation External exposure	68% 16% 0% 16%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**4.5E-06**	Arsenic	72%	Ingestion Dermal Inhalation External exposure	66% 15% 0% 19%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Adult Resident (surface soil)	**7.5E-06**	PAH, Total Uranium-238	46% 54%	Ingestion Dermal Inhalation External exposure	17% 35% 0% 48%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**2.4**	Antimony Thallium Vanadium	73% 15% 12%	Ingestion Dermal Inhalation	100% 0% 0%

Table D6.56. Summary of Risk Characterization for SWMU 225 (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)	**2.2E-06**	PAH, Total	71%	Ingestion Dermal Inhalation External exposure	23% 56% 0% 21%	**<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 D6.57. Summary of Risk Characterization for AOC 565

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)	**2.6E-06**	Cesium-137	100%	Ingestion Dermal Inhalation External exposure	1% 0% 0% 99%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
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								Ingestion Dermal Inhalation	

Table D6.57. Summary of Risk Characterization for AOC 565 (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								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.