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.