Table D8.33. Alternate Summary of Risk Characterization using KY ABS Values 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%	**2.2**	Manganese Molybdenum Silver Vanadium	32% 15% 23% 27%	Ingestion Dermal Inhalation	23% 77% 0%
Excavation Worker (surface and subsurface soil)	**1.8E-06**	PAH, Total	87%	Ingestion Dermal Inhalation External exposure	52% 42% 0% 6%	**2.2**	Manganese Molybdenum Silver Vanadium	32% 15% 23% 27%	Ingestion Dermal Inhalation	23% 77% 0%
Future Adult Resident (surface soil)	**2.4E-05**	PAH, Total Uranium-238	89% 10%	Ingestion Dermal Inhalation External exposure	22% 68% 0% 9%	**2.1**	Molybdenum Vanadium	12% 85%	Ingestion Dermal Inhalation	5% 95% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**5.7**	Aluminum Molybdenum Vanadium	4% 19% 77%	Ingestion Dermal Inhalation	19% 81% 0%

Table D8.33. Alternate Summary of Risk Characterization using KY ABS Values 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					**1.9**	Molybdenum Vanadium	11% 86%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.3**	Aluminum Molybdenum Vanadium	4% 19% 77%	Ingestion Dermal Inhalation	19% 81% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.34. Alternate Summary of Risk Characterization using KY ABS Values 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	31%	**<1**	*No COCs		Ingestion	
				Dermal	63%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	6%					
Future Industrial Worker (surface soil)	**3.5E-05**	Arsenic	91%	Ingestion	31%	**1.2**	Arsenic	17%	Ingestion	9%
		Uranium-238	7%	Dermal	63%		Molybdenum	12%	Dermal	91%
				Inhalation	0%		Nickel	9%	Inhalation	0%
				External exposure	6%		Vanadium	62%		
Outdoor Worker (surface soil)	**9.5E-05**	Arsenic	96%	Ingestion	81%	**1.6**	Arsenic	37%	Ingestion	49%
		Uranium-238	3%	Dermal	18%		Molybdenum	19%	Dermal	50%
				Inhalation	0%		Vanadium	39%	Inhalation	0%
				External exposure	2%					
Outdoor Worker (surface and subsurface soil)	**9.4E-05**	Arsenic	97%	Ingestion	81%	**2.6**	Arsenic	22%	Ingestion	38%
		Uranium-238	3%	Dermal	18%		Iron	6%	Dermal	62%
				Inhalation	0%		Manganese	34%	Inhalation	0%
				External exposure	1%		Molybdenum	11%		
							Nickel	4%		
							Vanadium	23%		
Excavation Worker (surface and subsurface soil)	**1.9E-05**	Arsenic	97%	Ingestion	81%	**2.6**	Arsenic	22%	Ingestion	38%
				Dermal	18%		Iron	6%	Dermal	62%
				Inhalation	0%		Manganese	34%	Inhalation	0%
				External exposure	1%		Molybdenum	11%		
							Nickel	4%		
							Vanadium	23%		
Future Adult Resident (surface soil)	**1.8E-04**	Arsenic	94%	Ingestion	55%	**2.9**	Arsenic	18%	Ingestion	10%
		PAH, Total	1%	Dermal	41%		Molybdenum	12%	Dermal	89%
		Uranium-238	4%	Inhalation	0%		Nickel	9%	Inhalation	0%
				External exposure	4%		Vanadium	61%		
Future Child Resident (surface soil)	See Future Adult Resident					**9.4**	Arsenic	29%	Ingestion	34%
							Molybdenum	16%	Dermal	65%
							Nickel	7%	Inhalation	0%
							Vanadium	47%		

Table D8.34. Alternate Summary of Risk Characterization using KY ABS Values 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	97%	Ingestion	54%	**<1**	*No COCs		Ingestion	
		PAH, Total	2%	Dermal	45%				Dermal	
		Uranium-238	2%	Inhalation	0%				Inhalation	
				External exposure	1%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Arsenic	17%	Ingestion	9%
							Molybdenum	12%	Dermal	91%
							Nickel	9%	Inhalation	0%
							Vanadium	62%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.7**	Arsenic	29%	Ingestion	34%
							Molybdenum	16%	Dermal	65%
							Nickel	7%	Inhalation	0%
							Vanadium	47%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.35. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Silver Vanadium	31% 69%	Ingestion Dermal Inhalation	1% 99% 0%
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%	**2.5**	Arsenic Manganese Molybdenum Silver Vanadium	5% 44% 16% 11% 24%	Ingestion Dermal Inhalation	26% 74% 0%
Excavation Worker (surface and subsurface soil)	**4.9E-06**	Arsenic	90%	Ingestion Dermal Inhalation External exposure	79% 17% 0% 4%	**2.5**	Arsenic Manganese Molybdenum Silver Vanadium	5% 44% 16% 11% 24%	Ingestion Dermal Inhalation	26% 74% 0%
Future Adult Resident (surface soil)	**6.2E-06**	PAH, Total Uranium-238	25% 75%	Ingestion Dermal Inhalation External exposure	14% 19% 0% 66%	**2.6**	Silver Vanadium	31% 69%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**6.5**	Silver Vanadium	31% 69%	Ingestion Dermal Inhalation	7% 93% 0%

Table D8.35. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.4**	Silver Vanadium	31% 69%	Ingestion Dermal Inhalation	1% 99% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Silver Vanadium	31% 69%	Ingestion Dermal Inhalation	7% 93% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.36. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.5**	Molybdenum Silver Vanadium	17% 23% 54%	Ingestion Dermal Inhalation	6% 94% 0%
Outdoor Worker (surface soil)	**1.9E-06**	Uranium-238	81%	Ingestion Dermal Inhalation External exposure	52% 9% 0% 39%	**1.7**	Iron Molybdenum Silver Vanadium	10% 33% 17% 40%	Ingestion Dermal Inhalation	38% 62% 0%
Outdoor Worker (surface and subsurface soil)	**2.4E-05**	Arsenic Uranium-238	92% 6%	Ingestion Dermal Inhalation External exposure	80% 17% 0% 3%	**2.8**	Arsenic Iron Manganese Molybdenum Silver Vanadium	5% 6% 34% 20% 11% 25%	Ingestion Dermal Inhalation	32% 68% 0%
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	92%	Ingestion Dermal Inhalation External exposure	80% 17% 0% 3%	**2.8**	Arsenic Iron Manganese Molybdenum Silver Vanadium	5% 6% 34% 20% 11% 25%	Ingestion Dermal Inhalation	32% 68% 0%
Future Adult Resident (surface soil)	**4.7E-06**	PAH, Total Uranium-238	22% 78%	Ingestion Dermal Inhalation External exposure	14% 17% 0% 69%	**3.8**	Iron Molybdenum Silver Vanadium	5% 18% 23% 54%	Ingestion Dermal Inhalation	7% 93% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**11.1**	Iron Molybdenum Silver Vanadium	8% 26% 20% 46%	Ingestion Dermal Inhalation	25% 75% 0%

Table D8.36. Alternate Summary of Risk Characterization using KY ABS Values 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	24%	**1.1**	Molybdenum	18%	Ingestion	7%
				Dermal	36%		Silver	23%	Dermal	93%
				Inhalation	0%		Vanadium	54%	Inhalation	0%
				External exposure	40%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.4**	Iron	5%	Ingestion	6%
							Molybdenum	17%	Dermal	94%
							Silver	23%	Inhalation	0%
							Vanadium	55%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**4.4**	Iron	8%	Ingestion	25%
							Molybdenum	26%	Dermal	75%
							Silver	20%	Inhalation	0%
							Vanadium	46%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.37. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Arsenic Nickel Vanadium	23% 10% 65%	Ingestion Dermal Inhalation	8% 91% 0%
Outdoor Worker (surface soil)	**1.2E-04**	Arsenic Uranium-238	95% 4%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**1.4**	Arsenic Vanadium	49% 43%	Ingestion Dermal Inhalation	47% 53% 0%
Outdoor Worker (surface and subsurface soil)	**1.2E-04**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**2.8**	Arsenic Cobalt Manganese Molybdenum Vanadium	25% 5% 37% 7% 22%	Ingestion Dermal Inhalation	37% 62% 0%
Excavation Worker (surface and subsurface soil)	**2.4E-05**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**2.8**	Arsenic Cobalt Manganese Molybdenum Vanadium	25% 5% 37% 7% 22%	Ingestion Dermal Inhalation	37% 62% 0%
Future Adult Resident (surface soil)	**2.3E-04**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	55% 40% 0% 4%	**2.7**	Arsenic Nickel Vanadium	23% 10% 65%	Ingestion Dermal Inhalation	10% 90% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**8.7**	Antimony Arsenic Nickel Vanadium	2% 39% 8% 51%	Ingestion Dermal Inhalation	32% 68% 0%

Table D8.37. Alternate Summary of Risk Characterization using KY ABS Values 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					**3.5**	Arsenic Nickel Vanadium	22% 10% 66%	Ingestion Dermal Inhalation	8% 92% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.3**	Arsenic Nickel Vanadium	39% 8% 51%	Ingestion Dermal Inhalation	32% 68% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.38. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Molybdenum Nickel Vanadium	20% 13% 68%	Ingestion Dermal Inhalation	6% 94% 0%
Outdoor Worker (surface soil)	**3.6E-06**	Uranium-238	86%	Ingestion Dermal Inhalation External exposure	52% 7% 0% 41%	**1.2**	Molybdenum Nickel Vanadium	39% 10% 52%	Ingestion Dermal Inhalation	36% 64% 0%
Outdoor Worker (surface and subsurface soil)	**2.3E-05**	Arsenic Uranium-238	85% 13%	Ingestion Dermal Inhalation External exposure	78% 16% 0% 6%	**4.3**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	3% 4% 65% 11% 3% 14%	Ingestion Dermal Inhalation	24% 76% 0%
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 16% 0% 6%	**4.3**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	3% 4% 65% 11% 3% 14%	Ingestion Dermal Inhalation	24% 76% 0%
Future Adult Resident (surface soil)	**8.7E-06**	PAH, Total Uranium-238	16% 84%	Ingestion Dermal Inhalation External exposure	13% 13% 0% 74%	**2.7**	Molybdenum Nickel Vanadium	20% 12% 67%	Ingestion Dermal Inhalation	6% 94% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.9**	Molybdenum Nickel Vanadium	31% 11% 58%	Ingestion Dermal Inhalation	23% 77% 0%

Table D8.38. Alternate Summary of Risk Characterization using KY ABS Values 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	25%	**<1**	*No COCs		Ingestion	
				Dermal	29%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	46%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Molybdenum	19%	Ingestion	5%
							Nickel	13%	Dermal	95%
							Vanadium	68%	Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.1**	Molybdenum	31%	Ingestion	23%
							Nickel	11%	Dermal	77%
							Vanadium	58%	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 D8.39. Alternate Summary of Risk Characterization using KY ABS Values 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%	**3.3**	Manganese Vanadium	74% 23%	Ingestion Dermal Inhalation	2% 98% 0%
Outdoor Worker (surface soil)	**1.9E-06**	Uranium-238	92%	Ingestion Dermal Inhalation External exposure	52% 4% 0% 44%	**2.8**	Iron Manganese Vanadium	6% 72% 22%	Ingestion Dermal Inhalation	16% 84% 0%
Outdoor Worker (surface and subsurface soil)	**3.6E-05**	Arsenic Uranium-238	95% 5%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**4.3**	Arsenic Cobalt Iron Manganese Vanadium	5% 5% 4% 69% 15%	Ingestion Dermal Inhalation	21% 79% 0%
Excavation Worker (surface and subsurface soil)	**7.1E-06**	Arsenic	95%	Ingestion Dermal Inhalation External exposure	81% 17% 0% 2%	**4.3**	Arsenic Cobalt Iron Manganese Vanadium	5% 5% 4% 69% 15%	Ingestion Dermal Inhalation	21% 79% 0%
Future Adult Resident (surface soil)	**4.5E-06**	Uranium-238	91%	Ingestion Dermal Inhalation External exposure	12% 7% 0% 80%	**8.0**	Iron Manganese Vanadium	3% 74% 23%	Ingestion Dermal Inhalation	2% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**20.5**	Iron Manganese Vanadium	4% 73% 23%	Ingestion Dermal Inhalation	9% 91% 0%

Table D8.39. Alternate Summary of Risk Characterization using KY ABS Values 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		**2.4**	Manganese Vanadium	74% 23%	Ingestion Dermal Inhalation	2% 98% 0%
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**7.4**	Iron Manganese Vanadium	2% 74% 23%	Ingestion Dermal Inhalation	2% 98% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**8.2**	Iron Manganese Vanadium	4% 73% 23%	Ingestion Dermal Inhalation	9% 91% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.40. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Nickel Vanadium	12% 72%	Ingestion Dermal Inhalation	5% 95% 0%
Outdoor Worker (surface soil)	**2.8E-06**	PAH, Total Uranium-238	40% 60%	Ingestion Dermal Inhalation External exposure	52% 19% 0% 29%	**1.1**	Cobalt Iron Nickel Vanadium	17% 15% 10% 58%	Ingestion Dermal Inhalation	32% 68% 0%
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%	**2.7**	Arsenic Cobalt Iron Manganese Nickel Vanadium	4% 7% 7% 54% 4% 24%	Ingestion Dermal Inhalation	23% 76% 0%
Excavation Worker (surface and subsurface soil)	**3.9E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 18% 0% 4%	**2.7**	Arsenic Cobalt Iron Manganese Nickel Vanadium	4% 7% 7% 54% 4% 24%	Ingestion Dermal Inhalation	23% 76% 0%
Future Adult Resident (surface soil)	**7.3E-06**	PAH, Total Uranium-238	45% 55%	Ingestion Dermal Inhalation External exposure	17% 34% 0% 49%	**2.7**	Cobalt Iron Nickel Vanadium	8% 8% 12% 72%	Ingestion Dermal Inhalation	5% 95% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.6**	Cobalt Iron Nickel Vanadium	13% 12% 11% 64%	Ingestion Dermal Inhalation	20% 80% 0%

Table D8.40. Alternate Summary of Risk Characterization using KY ABS Values 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	23%	**<1**	*No COCs		Ingestion	
				Dermal	55%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	22%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Cobalt	8%	Ingestion	4%
							Iron	7%	Dermal	96%
							Nickel	12%	Inhalation	0%
							Vanadium	72%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Cobalt	13%	Ingestion	20%
							Iron	12%	Dermal	80%
							Nickel	11%	Inhalation	0%
							Vanadium	64%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.41. Alternate Summary of Risk Characterization using KY ABS Values 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	10%	**<1**	*No COCs		Ingestion	
				Dermal	88%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	2%					
Future Industrial Worker (surface soil)	**5.7E-05**	PAH, Total	98%	Ingestion	10%	**1.1**	Nickel	15%	Ingestion	3%
		Uranium-238	2%	Dermal	88%		Vanadium	78%	Dermal	97%
				Inhalation	0%				Inhalation	0%
				External exposure	2%					
Outdoor Worker (surface soil)	**7.9E-05**	PAH, Total	98%	Ingestion	52%	**<1**	*No COCs		Ingestion	
		Uranium-238	2%	Dermal	47%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	1%					
Outdoor Worker (surface and subsurface soil)	**9.6E-05**	Arsenic	17%	Ingestion	57%	**2.5**	Arsenic	4%	Ingestion	30%
		PAH, Total	81%	Dermal	42%		Iron	7%	Dermal	70%
		Uranium-238	2%	Inhalation	0%		Manganese	39%	Inhalation	0%
				External exposure	1%		Molybdenum	17%		
							Nickel	5%		
							Vanadium	27%		
Excavation Worker (surface and subsurface soil)	**1.9E-05**	Arsenic	17%	Ingestion	57%	**2.5**	Arsenic	4%	Ingestion	30%
		PAH, Total	81%	Dermal	42%		Iron	7%	Dermal	70%
				Inhalation	0%		Manganese	39%	Inhalation	0%
				External exposure	1%		Molybdenum	17%		
							Nickel	5%		
							Vanadium	27%		
Future Adult Resident (surface soil)	**2.3E-04**	PAH, Total	98%	Ingestion	24%	**2.6**	Iron	8%	Ingestion	3%
		Uranium-238	2%	Dermal	75%		Nickel	15%	Dermal	96%
				Inhalation	0%		Vanadium	77%	Inhalation	0%
				External exposure	2%					
Future Child Resident (surface soil)	See Future Adult Resident					**6.9**	Iron	13%	Ingestion	14%
							Nickel	14%	Dermal	86%
							Vanadium	73%	Inhalation	0%

Table D8.41. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.4**	Iron Nickel Vanadium	8% 15% 78%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.8**	Iron Nickel Vanadium	13% 14% 73%	Ingestion Dermal Inhalation	14% 86% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.42. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.3**	Antimony Nickel Vanadium	25% 12% 56%	Ingestion Dermal Inhalation	3% 96% 0%
Outdoor Worker (surface soil)	**3.6E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	52% 13% 0% 35%	**1.2**	Antimony Iron Nickel Vanadium	26% 15% 11% 49%	Ingestion Dermal Inhalation	26% 74% 0%
Outdoor Worker (surface and subsurface soil)	**5.5E-06**	Cesium-137 Uranium-238	34% 48%	Ingestion Dermal Inhalation External exposure	35% 9% 0% 57%	**1.7**	Antimony Iron Molybdenum Nickel Vanadium	18% 14% 20% 8% 39%	Ingestion Dermal Inhalation	37% 63% 0%
Excavation Worker (surface and subsurface soil)	**1.2E-06**	*No COCs		Ingestion Dermal Inhalation External exposure	32% 8% 0% 60%	**1.7**	Antimony Iron Molybdenum Nickel Vanadium	18% 14% 20% 8% 39%	Ingestion Dermal Inhalation	37% 63% 0%
Future Adult Resident (surface soil)	**9.2E-06**	PAH, Total Uranium-238	31% 69%	Ingestion Dermal Inhalation External exposure	15% 24% 0% 61%	**3.1**	Antimony Iron Nickel Vanadium	25% 7% 12% 56%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**8.4**	Antimony Iron Nickel Vanadium	25% 11% 11% 52%	Ingestion Dermal Inhalation	16% 84% 0%

Table D8.42. Alternate Summary of Risk Characterization using KY ABS Values 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	24%	**<1**	*No COCs		Ingestion	
				Dermal	45%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	31%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.8**	Antimony	25%	Ingestion	3%
							Iron	7%	Dermal	97%
							Nickel	12%	Inhalation	0%
							Vanadium	56%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.3**	Antimony	25%	Ingestion	16%
							Iron	11%	Dermal	84%
							Nickel	11%	Inhalation	0%
							Vanadium	52%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.43. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.4**	Molybdenum Nickel Vanadium	17% 13% 63%	Ingestion Dermal Inhalation	6% 94% 0%
Outdoor Worker (surface soil)	**4.0E-06**	PAH, Total Uranium-238	35% 65%	Ingestion Dermal Inhalation External exposure	52% 17% 0% 31%	**1.6**	Iron Molybdenum Nickel Vanadium	12% 33% 9% 46%	Ingestion Dermal Inhalation	40% 60% 0%
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%	**2.7**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	4% 7% 38% 19% 5% 27%	Ingestion Dermal Inhalation	31% 69% 0%
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	80%	Ingestion Dermal Inhalation External exposure	76% 18% 0% 6%	**2.7**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	4% 7% 38% 19% 5% 27%	Ingestion Dermal Inhalation	31% 69% 0%
Future Adult Resident (surface soil)	**1.0E-05**	PAH, Total Uranium-238	39% 61%	Ingestion Dermal Inhalation External exposure	16% 30% 0% 54%	**3.3**	Iron Molybdenum Nickel Vanadium	6% 18% 13% 63%	Ingestion Dermal Inhalation	7% 93% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**9.9**	Iron Molybdenum Nickel Vanadium	9% 27% 11% 53%	Ingestion Dermal Inhalation	26% 74% 0%

Table D8.43. Alternate Summary of Risk Characterization using KY ABS Values 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	23%	**<1**	*No COCs		Ingestion	
				Dermal	51%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	25%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Iron	6%	Ingestion	6%
							Molybdenum	17%	Dermal	94%
							Nickel	13%	Inhalation	0%
							Vanadium	64%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**4.0**	Iron	9%	Ingestion	26%
							Molybdenum	27%	Dermal	74%
							Nickel	11%	Inhalation	0%
							Vanadium	53%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.44. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Nickel Vanadium	13% 76%	Ingestion Dermal Inhalation	4% 96% 0%
Outdoor Worker (surface soil)	**3.7E-06**	Uranium-238	73%	Ingestion Dermal Inhalation External exposure	52% 13% 0% 35%	**1.1**	Iron Nickel Vanadium	15% 11% 65%	Ingestion Dermal Inhalation	26% 73% 0%
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%	**3.8**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	3% 4% 59% 11% 3% 19%	Ingestion Dermal Inhalation	24% 76% 0%
Excavation Worker (surface and subsurface soil)	**5.1E-06**	Arsenic	76%	Ingestion Dermal Inhalation External exposure	70% 15% 0% 14%	**3.8**	Arsenic Iron Manganese Molybdenum Nickel Vanadium	3% 4% 59% 11% 3% 19%	Ingestion Dermal Inhalation	24% 76% 0%
Future Adult Resident (surface soil)	**9.4E-06**	PAH, Total Uranium-238	30% 70%	Ingestion Dermal Inhalation External exposure	15% 23% 0% 62%	**2.8**	Iron Nickel Thallium Vanadium	7% 13% 4% 76%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.5**	Iron Nickel Thallium Vanadium	12% 12% 6% 70%	Ingestion Dermal Inhalation	16% 84% 0%

Table D8.44. Alternate Summary of Risk Characterization using KY ABS Values 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	24%	**<1**	*No COCs		Ingestion	
				Dermal	44%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	32%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Iron	7%	Ingestion	3%
							Nickel	13%	Dermal	97%
							Vanadium	76%	Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Iron	12%	Ingestion	16%
							Nickel	12%	Dermal	84%
							Thallium	6%	Inhalation	0%
							Vanadium	70%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.45. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Molybdenum Vanadium	19% 81%	Ingestion Dermal Inhalation	5% 95% 0%
Outdoor Worker (surface soil)	**1.0E-05**	PAH, Total Uranium-238	76% 24%	Ingestion Dermal Inhalation External exposure	52% 37% 0% 12%	**1.2**	Molybdenum Vanadium	37% 63%	Ingestion Dermal Inhalation	35% 65% 0%
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%	**2.4**	Arsenic Manganese Molybdenum Vanadium	4% 45% 21% 30%	Ingestion Dermal Inhalation	28% 72% 0%
Excavation Worker (surface and subsurface soil)	**5.9E-06**	Arsenic PAH, Total	57% 26%	Ingestion Dermal Inhalation External exposure	65% 23% 0% 12%	**2.4**	Arsenic Manganese Molybdenum Vanadium	4% 45% 21% 30%	Ingestion Dermal Inhalation	28% 72% 0%
Future Adult Resident (surface soil)	**2.8E-05**	PAH, Total Uranium-238	79% 21%	Ingestion Dermal Inhalation External exposure	21% 60% 0% 19%	**2.6**	Molybdenum Vanadium	19% 81%	Ingestion Dermal Inhalation	6% 94% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.5**	Molybdenum Vanadium	29% 71%	Ingestion Dermal Inhalation	22% 78% 0%

Table D8.45. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.4**	Molybdenum Vanadium	18% 82%	Ingestion Dermal Inhalation	5% 95% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Molybdenum Vanadium	29% 71%	Ingestion Dermal Inhalation	22% 78% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.46. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.8**	Arsenic	33%	Ingestion	14%
		PAH, Total	1%	Dermal	66%		Nickel	9%	Dermal	86%
		Uranium-238	3%	Inhalation	0%		Vanadium	48%	Inhalation	0%
				External exposure	2%					
Outdoor Worker (surface soil)	**2.8E-04**	Arsenic	98%	Ingestion	82%	**2.9**	Arsenic	58%	Ingestion	60%
		PAH, Total	1%	Dermal	18%		Iron	6%	Dermal	39%
		Uranium-238	1%	Inhalation	0%		Nickel	5%	Inhalation	0%
				External exposure	1%		Uranium	6%		
							Vanadium	24%		
Outdoor Worker (surface and subsurface soil)	**2.8E-04**	Arsenic	98%	Ingestion	82%	**3.8**	Arsenic	44%	Ingestion	49%
		PAH, Total	1%	Dermal	18%		Iron	5%	Dermal	50%
		Uranium-238	1%	Inhalation	0%		Manganese	23%	Inhalation	0%
				External exposure	1%		Nickel	4%		
							Uranium	5%		
							Vanadium	19%		
Excavation Worker (surface and subsurface soil)	**5.5E-05**	Arsenic	98%	Ingestion	82%	**3.8**	Arsenic	44%	Ingestion	49%
				Dermal	18%		Iron	5%	Dermal	50%
				Inhalation	0%		Manganese	23%	Inhalation	0%
				External exposure	1%		Nickel	4%		
							Uranium	5%		
							Vanadium	19%		

Table D8.46. Alternate Summary of Risk Characterization using KY ABS Values 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 Resident (surface soil)	**5.2E-04**	Arsenic	97%	Ingestion	56%	**4.5**	Arsenic	34%	Ingestion	15%
		PAH, Total	1%	Dermal	42%		Iron	5%	Dermal	84%
		Uranium-238	2%	Inhalation	0%		Nickel	9%	Inhalation	0%
				External exposure	1%		Uranium	5%		
							Vanadium	47%		
Future Child Resident (surface soil)	See Future Adult Resident					**16.3**	Arsenic	50%	Ingestion	45%
							Iron	6%	Dermal	55%
							Nickel	6%	Inhalation	0%
							Uranium	6%		
							Vanadium	32%		
Future Adult Recreational User (surface soil)	**2.2E-04**	Arsenic	98%	Ingestion	54%	**1.3**	Arsenic	34%	Ingestion	16%
		PAH, Total	1%	Dermal	45%		Nickel	9%	Dermal	84%
		Uranium-238	1%	Inhalation	0%		Vanadium	47%	Inhalation	0%
				External exposure	0%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**4.0**	Arsenic	33%	Ingestion	13%
							Iron	5%	Dermal	87%
							Nickel	9%	Inhalation	0%
							Uranium	5%		
							Vanadium	48%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**6.5**	Arsenic	50%	Ingestion	45%
							Iron	6%	Dermal	55%
							Nickel	6%	Inhalation	0%
							Uranium	6%		
							Vanadium	32%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.47. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Molybdenum Nickel Vanadium	18% 12% 62%	Ingestion Dermal Inhalation	7% 93% 0%
Outdoor Worker (surface soil)	**8.9E-06**	Cesium-137 Uranium-238	47% 51%	Ingestion Dermal Inhalation External exposure	28% 1% 0% 71%	**1.3**	Iron Molybdenum Nickel Vanadium	13% 33% 8% 44%	Ingestion Dermal Inhalation	42% 58% 0%
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%	**2.4**	Iron Manganese Molybdenum Vanadium	12% 39% 20% 29%	Ingestion Dermal Inhalation	32% 68% 0%
Excavation Worker (surface and subsurface soil)	**2.5E-06**	Cesium-137	41%	Ingestion Dermal Inhalation External exposure	31% 11% 0% 58%	**2.4**	Iron Manganese Molybdenum Vanadium	12% 39% 20% 29%	Ingestion Dermal Inhalation	32% 68% 0%

Table D8.47. Alternate Summary of Risk Characterization using KY ABS Values 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 Resident (surface soil)	**2.9E-05**	Cesium-137	61%	Ingestion	5%	**2.7**	Iron	7%	Ingestion	8%
		Uranium-238	37%	Dermal	1%		Molybdenum	19%	Dermal	92%
				Inhalation	0%		Nickel	12%	Inhalation	0%
				External exposure	94%		Vanadium	62%		
Future Child Resident (surface soil)	See Future Adult Resident					**8.1**	Iron	11%	Ingestion	28%
							Molybdenum	27%	Dermal	72%
							Nickel	10%	Inhalation	0%
							Uranium	1%		
							Vanadium	51%		
Future Adult Recreational User (surface soil)	**4.1E-06**	Cesium-137	55%	Ingestion	12%	**<1**	*No COCs		Ingestion	
		Uranium-238	39%	Dermal	5%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	83%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.4**	Iron	7%	Ingestion	6%
							Molybdenum	18%	Dermal	94%
							Nickel	12%	Inhalation	0%
							Vanadium	62%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.3**	Iron	11%	Ingestion	28%
							Molybdenum	27%	Dermal	72%
							Nickel	10%	Inhalation	0%
							Vanadium	51%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.48. Alternate Summary of Risk Characterization using KY ABS Values 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		**1.2**	Iron Molybdenum Vanadium	15% 34% 51%	Ingestion Dermal Inhalation	42% 58% 0%
Outdoor Worker (surface and subsurface soil)	**1.7E-05**	Arsenic	98%	Ingestion Dermal Inhalation External exposure	81% 19% 0% 0%	**3.5**	Arsenic Iron Manganese Molybdenum Silver Vanadium	3% 5% 54% 13% 7% 17%	Ingestion Dermal Inhalation	25% 74% 0%
Excavation Worker (surface and subsurface soil)	**3.3E-06**	Arsenic	98%	Ingestion Dermal Inhalation External exposure	81% 19% 0% 0%	**3.5**	Arsenic Iron Manganese Molybdenum Silver Vanadium	3% 5% 54% 13% 7% 17%	Ingestion Dermal Inhalation	25% 74% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.5**	Iron Molybdenum Vanadium	8% 19% 73%	Ingestion Dermal Inhalation	8% 92% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.4**	Iron Molybdenum Vanadium	12% 28% 60%	Ingestion Dermal Inhalation	28% 72% 0%

Table D8.48. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.2**	Iron Molybdenum Vanadium	8% 18% 74%	Ingestion Dermal Inhalation	7% 93% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Iron Molybdenum Vanadium	12% 28% 60%	Ingestion Dermal Inhalation	28% 72% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.49. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.0**	Molybdenum Vanadium	20% 72%	Ingestion Dermal Inhalation	7% 93% 0%
Outdoor Worker (surface soil)	**3.0E-06**	Uranium-238	69%	Ingestion Dermal Inhalation External exposure	52% 15% 0% 33%	**1.2**	Iron Molybdenum Vanadium	15% 35% 50%	Ingestion Dermal Inhalation	43% 57% 0%
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%	**2.2**	Arsenic Iron Manganese Molybdenum Vanadium	5% 8% 40% 19% 28%	Ingestion Dermal Inhalation	33% 67% 0%
Excavation Worker (surface and subsurface soil)	**4.7E-06**	Arsenic	81%	Ingestion Dermal Inhalation External exposure	76% 19% 0% 4%	**2.2**	Arsenic Iron Manganese Molybdenum Vanadium	5% 8% 40% 19% 28%	Ingestion Dermal Inhalation	33% 67% 0%
Future Adult Resident (surface soil)	**7.6E-06**	PAH, Total Uranium-238	34% 65%	Ingestion Dermal Inhalation External exposure	15% 26% 0% 58%	**2.5**	Iron Molybdenum Vanadium	8% 20% 72%	Ingestion Dermal Inhalation	8% 92% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.6**	Iron Molybdenum Vanadium	12% 29% 59%	Ingestion Dermal Inhalation	29% 71% 0%

Table D8.49. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.3**	Iron Molybdenum Vanadium	8% 19% 73%	Ingestion Dermal Inhalation	7% 93% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.0**	Iron Molybdenum Vanadium	12% 29% 59%	Ingestion Dermal Inhalation	29% 71% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.50. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.2**	Nickel Vanadium	12% 75%	Ingestion Dermal Inhalation	4% 96% 0%
Outdoor Worker (surface soil)	**1.6E-06**	Uranium-238	93%	Ingestion Dermal Inhalation External exposure	52% 3% 0% 45%	**1.2**	Iron Nickel Uranium Vanadium	16% 9% 12% 62%	Ingestion Dermal Inhalation	30% 70% 0%
Outdoor Worker (surface and subsurface soil)	**1.8E-06**	Uranium-238	82%	Ingestion Dermal Inhalation External exposure	52% 9% 0% 39%	**2.8**	Iron Manganese Nickel Silver Uranium Vanadium	7% 40% 4% 16% 5% 27%	Ingestion Dermal Inhalation	20% 80% 0%
Excavation Worker (surface and subsurface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.8**	Iron Manganese Nickel Silver Uranium Vanadium	7% 40% 4% 16% 5% 27%	Ingestion Dermal Inhalation	20% 80% 0%
Future Adult Resident (surface soil)	**3.9E-06**	Uranium-238	92%	Ingestion Dermal Inhalation External exposure	12% 6% 0% 82%	**3.0**	Iron Nickel Uranium Vanadium	8% 11% 6% 75%	Ingestion Dermal Inhalation	5% 95% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**8.2**	Iron Nickel Uranium Vanadium	13% 10% 10% 68%	Ingestion Dermal Inhalation	19% 81% 0%

Table D8.50. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.7**	Iron Nickel Uranium Vanadium	8% 12% 6% 75%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.3**	Iron Nickel Uranium Vanadium	13% 10% 9% 68%	Ingestion Dermal Inhalation	19% 81% 0%

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.51. Alternate Summary of Risk Characterization using KY ABS Values 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%	**1.1**	Nickel Silver Vanadium	12% 29% 55%	Ingestion Dermal Inhalation	2% 97% 0%
Outdoor Worker (surface soil)	**4.2E-06**	PAH, Total Uranium-238	47% 53%	Ingestion Dermal Inhalation External exposure	52% 23% 0% 25%	**1.0**	Nickel Silver Uranium Vanadium	11% 27% 11% 51%	Ingestion Dermal Inhalation	19% 81% 0%
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%	**2.6**	Arsenic Manganese Nickel Silver Uranium Vanadium	6% 52% 4% 11% 5% 23%	Ingestion Dermal Inhalation	19% 81% 0%
Excavation Worker (surface and subsurface soil)	**5.6E-06**	Arsenic	85%	Ingestion Dermal Inhalation External exposure	78% 19% 0% 4%	**2.6**	Arsenic Manganese Nickel Silver Uranium Vanadium	6% 52% 4% 11% 5% 23%	Ingestion Dermal Inhalation	19% 81% 0%
Future Adult Resident (surface soil)	**1.1E-05**	PAH, Total Uranium-238	52% 48%	Ingestion Dermal Inhalation External exposure	18% 39% 0% 43%	**2.8**	Nickel Silver Uranium Vanadium	11% 29% 5% 55%	Ingestion Dermal Inhalation	3% 97% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**7.3**	Nickel Silver Uranium Vanadium	11% 28% 8% 53%	Ingestion Dermal Inhalation	11% 89% 0%

Table D8.51. Alternate Summary of Risk Characterization using KY ABS Values 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	23%	**<1**	*No COCs		Ingestion	
				Dermal	60%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	17%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Nickel	12%	Ingestion	2%
							Silver	29%	Dermal	98%
							Uranium	5%	Inhalation	0%
							Vanadium	55%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.9**	Nickel	11%	Ingestion	11%
							Silver	28%	Dermal	89%
							Uranium	8%	Inhalation	0%
							Vanadium	53%		

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

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.

Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values 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%	**9.5**	Molybdenum	2%	Ingestion	20%
(surface soil)		Cesium-137	<1%	Dermal	7%		Nickel	2%	Dermal	79%
		Protactinium-231	1%	Inhalation	0%		Uranium	89%	Inhalation	1%
		Uranium-234	1%	External exposure	82%		Vanadium	7%		
		Uranium-235	5%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	PCB, Total	8%	Ingestion	52%	**19.3**	Molybdenum	2%	Ingestion	71%
(surface soil)		Americium-241	<1%	Dermal	4%		Nickel	1%	Dermal	29%
		Cesium-137	<1%	Inhalation	0%		Uranium	94%	Inhalation	0%
		Protactinium-231	1%	External exposure	44%		Vanadium	3%		
		Uranium-234	3%							
		Uranium-235	3%							
		Uranium-238	85%							
Outdoor Worker	**4.4E-03**	Arsenic	1%	Ingestion	53%	**21.1**	Arsenic	1%	Ingestion	68%
(surface and subsurface		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	32%
soil)		Americium-241	<1%	Inhalation	0%		Iron	1%	Inhalation	0%
		Cesium-137	<1%	External exposure	43%		Manganese	4%		
		Protactinium-231	1%				Molybdenum	2%		
		Uranium-234	3%				Nickel	1%		
		Uranium-235	3%				Silver	1%		
		Uranium-238	84%				Uranium	86%		
							Vanadium	3%		

Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values 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
Excavation Worker (surface and subsurface soil)	**8.8E-04**	Arsenic	1%	Ingestion	52%	**21.1**	Arsenic	1%	Ingestion	68%
		PCB, Total	8%	Dermal	4%		Cobalt	1%	Dermal	32%
		Cesium-137	<1%	Inhalation	0%		Iron	1%	Inhalation	0%
		Protactinium-231	1%	External exposure	43%		Manganese	4%		
		Uranium-234	3%				Molybdenum	2%		
		Uranium-235	3%				Nickel	1%		
		Uranium-238	84%				Silver	1%		
							Uranium	86%		
							Vanadium	3%		
Future Adult Resident (surface soil)	**1.0E-02**	PCB, Total	10%	Ingestion	12%	**23.9**	Molybdenum	2%	Ingestion	23%
		Americium-241	<1	Dermal	7%		Nickel	2%	Dermal	76%
		Cesium-137	<1	Inhalation	0%		Uranium	89%	Inhalation	1%
		Protactinium-231	1%	External exposure	80%		Vanadium	7%		
		Uranium-234	1%							
		Uranium-235	5%							
		Uranium-238	84%							
Future Child Resident (surface soil)	See Future Adult Resident					**101.1**	Beryllium	0%	Ingestion	57%
							Molybdenum	2%	Dermal	43%
							Nickel	1%	Inhalation	0%
							Uranium	92%		
							Vanadium	4%		

Table D8.52. Alternate Summary of Risk Characterization using KY ABS Values 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 Recreational User (surface soil)	**1.9E-03**	PCB, Total	24%	Ingestion	26%	**7.0**	Molybdenum	2%	Ingestion	23%
		Cesium-137	<1%	Dermal	19%		Nickel	2%	Dermal	77%
		Protactinium-231	1%	Inhalation	0%		Uranium	89%	Inhalation	0%
		Uranium-234	1%	External exposure	55%		Vanadium	7%		
		Uranium-235	3%							
		Uranium-238	70%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**20.9**	Molybdenum	2%	Ingestion	19%
							Nickel	2%	Dermal	81%
							Uranium	88%	Inhalation	0%
							Vanadium	7%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**40.4**	Molybdenum	2%	Ingestion	57%
							Nickel	1%	Dermal	43%
							Uranium	92%	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 D8.53. Alternate Summary of Risk Characterization using KY ABS Values 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%	**2.7**	Arsenic Cobalt Manganese Molybdenum Nickel Vanadium	4% 9% 44% 16% 4% 22%	Ingestion Dermal Inhalation	30% 69% 0%
Excavation Worker (surface and subsurface soil)	**3.5E-06**	Arsenic	99%	Ingestion Dermal Inhalation External exposure	82% 18% 0% 0%	**2.7**	Arsenic Cobalt Manganese Molybdenum Nickel Vanadium	4% 9% 44% 16% 4% 22%	Ingestion Dermal Inhalation	30% 69% 0%
Future Adult Resident (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**2.4**	Cobalt Nickel Vanadium	12% 14% 72%	Ingestion Dermal Inhalation	4% 95% 0%
Future Child Resident (surface soil)	See Future Adult Resident					**6.6**	Barium Cobalt Nickel Vanadium	2% 19% 13% 66%	Ingestion Dermal Inhalation	17% 83% 0%

Table D8.53. Alternate Summary of Risk Characterization using KY ABS Values 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					**2.2**	Cobalt Nickel Vanadium	11% 14% 72%	Ingestion Dermal Inhalation	4% 96% 0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Cobalt Nickel Vanadium	19% 13% 66%	Ingestion Dermal Inhalation	17% 83% 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.