Table 3-14
Demonstration of Cumulative Hazard and Cancer Risk for Soil Preliminary Remediation Goals
Riverside Industrial Park Superfund Site
Newark, New Jersey

Receptor	Lot	Chemical of Potential Concern	Non-cancer Hazard-Based RBC[1] mg/kg	Cancer risk-Based RBC[1] mg/kg		Preliminary Remediation Goal (PRG) [2] mg/kg	Target ILCR	Target HI		PRG-associated Risk and Hazard [3]		
										Cancer	Non-cancer	
										ILCR	HI	Target Organ [4]
Future Child Visitor	63	Copper	526	NC		526	1E-05	1		---	1	Gastrointestinal
						Total Risk/Hazard:		**Total Risk/Hazard**		---	**1**	*(no HI breakdown needed)*
Future Indoor Worker	62	Naphthalene	22	0.62		0.62	1E-05	1		1E-06	0.03	Respiratory; Nervous
	58	Trichloroethene	0.05	0.02		0.02	1E-05	1		1E-06	0.4	Immune; Development; Cardiovascular
	58	Total Xylenes	6.5	NC		6.5	1E-05	1		NC	1	Nervous
						Total Risk/Hazard:		**Total Risk/Hazard**		**2E-06**	**1.4**	
									Worker HI breakdown by target organ:		*1.0*	*Nervous*
											0.03	*Respiratory*
											0.4	*Immune; Development; Cardiovascular*

Notes:
mg/kg - milligrams per kilogram
HI - hazard index associated with soil PRG
ILCR - incremental lifetime cancer risk associated with soil PRG
RBC - risk-based concentration
NC - not calculated; COPC not classified as a carcinogen
[1]Cancer risk and non-cancer h [1]Cancer and noncancer risk based calculations, when applicable, were calculated based on an ILCR of 1E-05 and HQ of 1.0, as shown on Table 3-13.
[2] Indicates the final selected F [2] Indicates the final selected PRG, as presented on Table 3-13
[3] The target risk/hazard associated with the PRG, as calculated using the following equation:

$$Risk = \frac{(Target\ ILCR\ or\ HQ * PRG)}{RBC\ (cancer\ or\ noncancer}$$

[4] Primary target organ information as presented in Table 5.02 in Appendix A of the Baseline Human Health Risk Assessment (Ramboll, 2020)