

Figure U-25  
Amphibian Risk Summary  
Based on Non-Spatial Exposure Point Concentrations

Study Area	Amphibians										
	SW	STW	ASP	P13	P18	PA5	RCF	NDR	ADR	UCD	LCD
<b>CPEC</b>											
<b>Inorganics</b>											
Antimony	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	975	1775	725	1775	225	625	1000	58	5	16	23
Barium	65	83	61	65	87	65	83	43	10	24	21
Beryllium	7	14	<1	14	5	11	3	51	<1	2	<1
Cadmium	36	13	13	<1	36	<1	<1	266	6	9	11
Chromium	234	307	100	307	137	323	200	33	<1	7	6
Cobalt	<1	<1	<1	<1	<1	<1	<1	22	<1	2	3
Copper	2100	610	610	<1	1000	2100	<1	700	<1	<1	100
Lead	24	24	<1	<1	<1	<1	24	50	<1	<1	1
Manganese	1558	1060	1060	980	580	4000	340	2800	<1	46	280
Mercury	14	21	21	13	17	9	6	5	<1	<1	<1
Molybdenum	129	118	105	108	153	158	118	170	35	55	75
Nickel	42510	100000	22000	100000	16500	27000	23000	1750	315	900	1100
Selenium	1643	3222	911	3222	400	1044	1778	133	1	6	7
Silver	11	<1	<1	<1	11	<1	<1	24	<1	<1	<1
Thallium	10	<1	<1	<1	10	<1	<1	10	<1	2	3
Tin											
Vanadium	2100	2100	2100	<1	1133	1800	<1	5333	<1	1333	1333
Zinc	1272	2085	2085	638	1617	1681	957	3617	81	174	162
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>											
Total LMW PAH	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total HMW PAH	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
<b>Semi-Volatile Organic Compounds (SVOCs)</b>											
Bis(2-chloroethyl)ether											
Bis(2-ethylhexyl)phthalate	1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
N-Nitrosodiethylamine											
N-Nitrosodipropylamine											
N-Nitrosopyrrolidine											
<b>Volatile Organic Compounds (VOCs)</b>											
1,1-Dichloroethane	7	<1	<1	<1	2	7	<1	<1	<1	<1	<1
1,2-Dibromoethane (EDB)											
Acetone	<1	<1	<1	<1	<1	<1	<1	16	<1	<1	56
Acetonitrile	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	32
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylene glycol	<1	<1	<1	<1	<1	<1	<1	1	1	2	2
Methyl isobutyl ketone (MIBK)											
Methylene chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nonanal											
Propanal											
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**Notes:**

Not evaluated
HQ < 1
HQ ≥ 1
HQ > 10
HQ > 100

CPEC = Constituent of Potential Ecological Concern  
 HQ = Hazard Quotient  
 LMW PAH = Low Molecular Weight Polycyclic Aromatic Hydrocarbons  
 HMW PAH = High Molecular Weight Polycyclic Aromatic Hydrocarbons  
 NOAEL = No Observed Adverse Effect Level  
 LOAEL = Lowest Observed Effect Level  
 TRV = Toxicity Reference Value  
 NOAEL and LOAEL TRVs are not available for ecological communities.  
 HQs presented for these receptors are based on a single TV (with the exception of sediment invertebrates). Low and high TVs are available in the literature for sediment invertebrates and were used for risk estimation.

**Study Areas:**

SW = Sitewide  
 SWP = Sitewide Including Ponds (Ponds 18 and A-5)  
 ADB = Administration Building Area  
 BTA = Burial Trench Area  
 CDA = Central Drainage Area  
 FPP = Former Ponds and Pads  
 LQT = Liquid Treatment Area  
 MSA = Maintenance Shed Area  
 ROS = Remaining On-site Areas  
 RCRA = RCRA Canyon  
 RWA = Roadway Areas  
 WCS = West Canyon Spray Area  
 ASP = A-Series Pond  
 P13 = Pond 13  
 P18 = Pond 18  
 PA5 = Pond A-5  
 RCF = RCF Pond  
 STW = Stormwater Ponds (Pond 13, A-Series Pond, and RCF Pond)  
 NDR = North Drainage  
 ADR = A Drainage  
 BDR = B Drainage  
 UCD = Upper C Drainage  
 LCD = Lower C Drainage  
 BKG = Background