

Figure U-43  
 American Kestrel Risk Summary  
 Based on Spatial Exposure Point Concentrations

Study Area	American Kestrel																											
	SW	SW	SWP	SWP	ADB	ADB	BTA	BTA	CDA	CDA	FPP	FPP	LQT	LQT	MSA	MSA	ROS	ROS	RCRA	RCRA	RWA	RWA	WCS	WCS	BKG	BKG		
CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ		
<b>Inorganics</b>																												
Barium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chromium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	<1	<1	2	2	<1	<1		
Cobalt	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1		
Total Cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Manganese	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Molybdenum	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Nickel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Selenium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Vanadium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Zinc	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1	<1	1		
<b>PCDD/PCDFs (Dioxins)</b>																												
Total Avian Dioxin TEQ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total Avian TEQ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
<b>Herbicides</b>																												
MCPA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
MCPP	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
<b>PCBs</b>																												
Aroclor 1260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Sum of PCB Congeners	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total Avian PCB TEQ	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
<b>Pesticides</b>																												
4,4'-DDE	<1	4	<1	4	<1	<1	<1	<1	1	12	2	23	<1	5	1	12	<1	6	<1	5	<1	<1	<1	5	<1	<1		
4,4'-DDT	<1	2	<1	2	<1	<1	<1	<1	<1	1	<1	1	2	20	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	1	<1		
Total DDT	<1	6	<1	5	<1	<1	<1	<1	1	13	2	24	3	25	1	15	<1	8	<1	6	<1	<1	<1	6	<1	<1		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>																												
Bis(2-ethylhexyl)phthalate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
<b>Volatile Organic Compounds (VOCs)</b>																												
Tetrachloroethylene																												
Trichloroethylene																												

**Notes:**  
 Not evaluated  
 Low or High HQ < 1  
 High HQ ≥ 1  
 Low HQ ≥ 1  
 Low HQ > 10  
 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  
 Low HQ is based on LOAEL TRV; High HQ is based on NOAEL TRV.

**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