

Site Features

Area of Investigation	Sample Group	Surface Soil, Subsurface Soil, or Aquatic Sediment	Source Characterization			Complete Migration Pathways					Notes	Likely Future Land Use	Arsenic EPC (mg/kg unless noted below)	Cancer Risk Drivers	Noncancer Hazard Drivers	Lead EPC (mg/kg unless noted below)
			Principal Threat Waste	Low-level Threat Waste	Source Volume (cy)	Surface Water Transport	Surface Water Partitioning	Air Particulate Migration	Leaching to Ground Water	Ground Water to Surface Water						
Iron King Mine	Iron King Mine Main Tailings Pile	SS	X		6.4 million	X		X	X		AMD	R/T ⁽²⁾	7,678	Arsenic	Antimony, Arsenic, Iron	2,887
Iron King Mine	Iron King Mine Main Tailings Pile	SB	X			X		X	X		AMD	R/T ⁽²⁾	5,148	Arsenic	Antimony, Arsenic, Cadmium, Iron	2,990
Iron King Mine	Impoundment-Pond - Iron King Mine Main	SS	X			X	X	X	X		AMD	R/T	5,251	Arsenic	Antimony, Arsenic, Iron, Thallium	5,369
Iron King Mine	Iron King Mine Mine Plant	SS		X	14,800	X		X				C/I	1,919	Arsenic	Arsenic	5,184
Iron King Mine	Iron King Mine Mine Plant	SB										C/I	42	Arsenic	--	27
Iron King Mine	Impoundment-Pond - Iron King Mine Mine	SS		X	4,400	X		X				R/T	2,602	Arsenic	Arsenic, Iron	4,729
Iron King Mine	Iron King Mine Operations Area	SS		X	90,800	X		X				C/I	3,016	Arsenic	Arsenic	11,220
Iron King Mine	Iron King Mine Operations Area	SB		X	90,800	X		X				C/I	4,715	Arsenic	Arsenic	6,122
Iron King Mine	Iron King Mine Glory Hole	SS				X		X	X			C/I	131	Arsenic	--	272
Iron King Mine	Iron King Mine Glory Hole	SB				X		X	X			C/I	278	Arsenic	--	424
Iron King Mine	Iron King Mine Operations Area - Miscellaneous	SS		X	7,400	X		X				C/I	414	Arsenic	Arsenic	1,612
Iron King Mine	Iron King Mine Operations Area - Miscellaneous	SB			7,400	X		X				C/I	49	Arsenic	--	162
Iron King Mine	Iron King Mine Small Tailings Pile	SS	X		22,200	X		X			AMD	Res	1,045	Arsenic, Chromium	Arsenic, Iron	1,388
Iron King Mine	Iron King Mine Small Tailings Pile	SB	X		22,200	X		X			AMD	Res	762	Arsenic, Chromium	Arsenic	415
Iron King Mine	Iron King Mine Former Fertilizer Plant	SS		X	11,100	X		X				C/I	1,244	Arsenic	Arsenic	5,066
Iron King Mine	Iron King Mine Former Fertilizer Plant	SB			11,100	X		X				C/I	160	Arsenic	--	279
Iron King Mine	Iron King Mine Salvage Yard	SS				X		X				C/I	40	Arsenic	--	26
Humboldt Smelter	Humboldt Smelter Ash Pile	SS	X		250,000	X		X				Res	822	Arsenic, Chromium, Chromium VI, Cobalt, Aroclor-1248	Aluminum, Arsenic, Chromium, Copper	1,129
Humboldt Smelter	Humboldt Smelter Ash Pile	SB	X		250,000	X		X				Res	184	Arsenic, Chromium, Cobalt	Aluminum, Arsenic, Chromium, Cobalt, Copper, Manganese	7,523
Humboldt Smelter	Humboldt Smelter Slag	SS		X	1.7 million	X		X				R/T	297	Arsenic	Arsenic, Copper	972
Humboldt Smelter	Humboldt Smelter Slag	SB		X	1.7 million	X		X				R/T	38	Arsenic	Arsenic	58
Humboldt Smelter	Humboldt Smelter Operations Area	SS		X	42,200	X		X			Asbestos	Res	242	Arsenic, Chromium, Cobalt, Benzo(a)pyrene, Dibenz(a,h)anthracene	Arsenic, Cobalt	285
Humboldt Smelter	Humboldt Smelter Operations Area	SB		X	42,200	X		X			Asbestos	Res	19	Arsenic, Chromium, Cobalt	Manganese	28
Humboldt Smelter	Impoundment-Pond - Humboldt Smelter	SS	X		3,000	X		X				Res	65	Arsenic, Chromium, Cobalt	Aluminum, Arsenic, Chromium, Copper, Manganese	940
Humboldt Smelter	Humboldt Smelter Off-site Migration	SS				X		X				Res	32	Arsenic, Chromium, Cobalt	Arsenic, Manganese	85
Humboldt Smelter	Humboldt Smelter Tailings Pile	SS	X		185,000	X		X	X			Res	13,891	Arsenic, Chromium, Cobalt	Antimony, Arsenic, Cobalt, Iron, Manganese	1,114
Humboldt Smelter	Humboldt Smelter Tailings Pile	SB	X		185,000	X		X	X			Res	34	Arsenic, Chromium, Cobalt	Arsenic, Manganese	42
Waterways	Galena Gulch	SS		X	37,000	X		X				R/T	1,058	Arsenic	Arsenic	4,297
Waterways	Upper Chaparral Gulch	SS		X	??	X		X				Res	219	Arsenic, Chromium, Cobalt	Arsenic	333
Waterways	Middle Chaparral Gulch	SS		X	37,000	X		X				Res	294	Arsenic, Chromium, Cobalt	Arsenic	344
Waterways	Lower Chaparral Gulch	SS	X		417,000	X	X	X	X	X	AMD	R/T	614	Arsenic	Arsenic	1,285
Waterways	Lower Chaparral Gulch	SB	X		417,000	X	X	X	X	X	AMD	R/T	1,491	Arsenic	Antimony, Arsenic	1,970
Waterways	Lower Chaparral Gulch Dam-Confluence	SD		X	18,000	X				X		R/T	1,620	Arsenic	Arsenic	266
Waterways	Lower Chaparral Gulch Dam-Confluence	SW		X	18,000	X				X		R/T	118 µg/L	Arsenic	--	41.6 µg/L
Waterways	Agua Fria	SD		X	6,700	X				X		R/T	722	Arsenic	Arsenic	3,419
Waterways	Agua Fria	SW		X	6,700	X				X		R/T	7.2 µg/L	--	--	2.7 µg/L
Waterways	Background Agua Fria	SD			6,700	X				X		R/T	34	Arsenic	--	12
Waterways	Background Agua Fria	SW			6,700	X				X		R/T	13.5 µg/L	Arsenic	--	0.85 µg/L
Waterways	Background Chaparral Gulch	SD			6,700	X				X		R/T	37	Arsenic, Chromium	Arsenic	17
Waterways	Background Galena Gulch	SD			6,700	X				X		R/T	25	Arsenic	--	24
Off-Site Soil	Background Soil Type 1	SS				X		X				Res	61	Arsenic, Chromium, Cobalt	Arsenic	55
Off-Site Soil	Background Soil Type 2	SS				X		X				Res	17	Arsenic, Chromium, Cobalt	Cobalt, Iron, Manganese	13
Off-Site Soil	Background Soil Type 3	SS				X		X				Res	13	Arsenic, Chromium, Cobalt	Cobalt	14
Off-Site Soil	Off-site Soil Background H1	SS				X		X				Res	32	Arsenic, Chromium	Arsenic	21
Off-Site Soil	Off-site Soil Background H2	SS				X		X				Res	99	Arsenic	Arsenic	76
Off-Site Soil	Off-site Soil	SS				X		X				Res	50	Arsenic, Chromium, Cobalt	Arsenic	129
Off-Site Soil	Off-site Soil	SB				X		X				Res	30	Arsenic	Arsenic, Iron	2.2

Notes:

BOLD = Bold values have exposure point concentrations greater than the lead Preliminary Remediation Goal 99th Percentile.

C/I = Commercial/Industrial Worker

CW = Construction Worker

Res = Adult/Child Resident - The Adult/Child Resident exposure scenario represents the unrestricted reuse scenario.

R/T = Recreational or Trespasser

cy = Cubic yards

AMD = Acid mine drainage

EPC = Exposure point concentration

µg/L = Micrograms per liter

mg/kg = Milligrams per kilogram

SD = Aquatic sediment from 0 to 0.5-foot bgs

SS = Surface soil/sediment from 0 to 2-foot bgs

SB = Subsurface soil from 2 to 10-foot bgs

SW = Surface water

DP = Deep soil > 10-foot bgs

Bioavailability Factor may be updated as new information is developed.

