

SUMMARY OF COSTS

CAPITAL COSTS	COMPONENT NAME	COST	LAND LIABILITY	WATER LIABILITY
OPEN PIT		\$0	\$0	\$0
UNDERGROUND MINE		\$0	\$0	\$0
TAILINGS FACILITY		\$0	\$0	\$0
ROCK PILE		\$0	\$0	\$0
BUILDINGS AND EQUIPMENT		\$14,230	\$6,230	\$0
CHEMICALS AND CONTAMINATED SOIL MANAGEMEN		\$3,771	\$30	\$2,883
SURFACE AND GROUNDWATER MANAGEMENT		\$0	-	\$0
INTERIM CARE AND MAINTENANCE		\$0	-	\$0
	SUBTOTAL: Capital Costs	\$18,001	\$6,260	\$2,883
	PERCENT OF SUBTOTAL		35%	16%
INDIRECT COSTS		COST	LAND LIABILITY	WATER LIABILITY
MOBILIZATION/DEMOBILIZATION	50	\$0	\$0	\$0
POST-CLOSURE MONITORING AND MAINTENANCE		\$0	\$0	\$0
ENGINEERING	1%	\$180	\$63	\$29
PROJECT MANAGEMENT	5%	\$900	\$313	\$144
HEALTH AND SAFETY PLANS/MONITORING & QA/QC	1%	\$180	\$63	\$29
BONDING/INSURANCE	1%	\$180	\$63	\$29
CONTINGENCY	20%	\$3,600	\$1,252	\$577
MARKET PRICE FACTOR ADJUSTMENT	0%	\$0	\$0	\$0
	SUBTOTAL: Indirect Costs	\$5,040	\$1,753	\$807
TOTAL COSTS		\$23,041	\$8,013	\$3,690

1 Chemicals/Soil Area Name:

Note: The procedures, equipment and packaging for clean up and removal of chemicals or contaminated soils are highly dependent on the nature of the chemicals and their existing state of containment. Government guidelines should be consulted on an individual chemical basis. Any estimate made here should be considered very rough unless specific evaluations have been conducted.

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	% Cost	Land Cost	Water Cost
HAZARDOUS MATERIALS AUDIT								
Hazardous materials audit		mandays	1	#N/A	\$0.00	\$0	\$0	\$0
BUILDING DECONTAMINATION & CONSOLIDATION OF HAZARDOUS MATERIALS								
Environmental technician/coordinator		mandays	1	envcoH	#####	\$130	\$0	\$130
Decontaminate: oil, fuel		mandays		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate maintenance shop		mandays		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate power plant		mandays		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate bulk fuel storage		mandays		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate ANFO plant		mandays		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate offices/warehouse/accom		mandays		#N/A	\$0.00	\$0	\$0	\$0
Removal of asbestos siding on buildings		m2		#N/A	\$0.00	\$0	\$0	\$0
Removal of friable asbestos on equipment		m2		#N/A	\$0.00	\$0	\$0	\$0
Other				#N/A	\$0.00	\$0	\$0	\$0
HAZARDOUS MATERIALS REMOVAL								
Waste oils		litre	615	ORH	\$1.20	\$738	100%	\$0
Waste fuel		litre	410	ORH	\$1.20		100%	\$0
Waste batteries		kg	100	ORH	\$1.20	\$120	100%	\$0
Assay & environmental lab reagents		kg		#N/A	\$0.00	\$0		\$0
Machine shop paints, solvents etc		litre	5	ORH	\$1.20	\$6	100%	\$6
Glycol		litre	20	ORH	\$1.20	\$24	100%	\$24
Process reagents		kg		#N/A	\$0.00	\$0		\$0
Nuclear sources		allow		#N/A	\$0.00	\$0		\$0
Other hazardous materials		allow		#N/A	\$0.00	\$0		\$0
HAZARDOUS MATERIALS								
Transportation to disposal facility		litre	1147	ORH	\$1.20	\$1,376		\$0
Disposal fees		litre	1147	ORH	\$1.20	\$1,376		\$0
Other				#N/A	\$0.00	\$0		\$0
CONTAMINATED SOILS								
Contam. soil investigation - Phase 1		each		#N/A	\$0.00	\$0		\$0
Contam. soil investigation - Phase 2		each		#N/A	\$0.00	\$0		\$0
CONTAMINATED SOIL REMOVAL								
Excavate and transport to onsite facility		m3		#N/A	\$0.00	\$0		\$0
Manage hydrocarbon remediation at facility		m3		#N/A	\$0.00	\$0		\$0
Reagents/stabilizing agent		m2		#N/A	\$0.00	\$0		\$0
Excavate and transport to offsite facility		m3		#N/A	\$0.00	\$0		\$0
Contour decontaminated area		m3		#N/A	\$0.00	\$0		\$0
CONTAMINATED SOIL VERY LOW PERMEABILITY COVER								
Supply geomembrane, HDPE, ES3, GCL		m2		#N/A	\$0.00	\$0		\$0
Upper and lower bedding layers		m3		#N/A	\$0.00	\$0		\$0
Install geomembrane, HDPE, ES3, GCL		m2		#N/A	\$0.00	\$0		\$0
Erosion protection layer		m3		#N/A	\$0.00	\$0		\$0
Vegetate		m2		#N/A	\$0.00	\$0		\$0
Install infiltration/seepage instrumentation		allow		#N/A	\$0.00	\$0		\$0
Other				#N/A	\$0.00	\$0		\$0
OTHER								
				#N/A	\$0.00	\$0		\$0
Total						\$3,771	\$30	\$2,883
% of Total							1%	76%

1 Building / Equip Name:		Bldg / Equip #: 1		Cost	Unit	%	Land	Water
ACTIVITY/MATERIAL	Notes	Units	Quantity	Code	Cost	Cost	Cost	Cost
DISPOSE MOBILE EQUIPMENT								
Decontaminate and ship off-site		allow		#N/A	\$0.00	\$0	\$0	\$0
Decontaminate and dispose on-site		allow		#N/A	\$0.00	\$0	\$0	\$0
Other				#N/A	\$0.00	\$0	\$0	\$0
REMOVE BUILDINGS - see note below								
Accommodation Complex	temporary tent frames piled and burned	m2	200	BRWH	\$41.00		100%	\$100
Process Facilities				#N/A	\$0.00	\$0		\$0
Offices, Repair, Lab, Warehouse	emporary tent frames piled and burned	m2	200	BRWH	\$41.00	\$8,200	100%	\$100
Storage Facilities		m2		#N/A	\$0.00	\$0		\$0
Water and Wastewater Treatment Facilities		m2		#N/A	\$0.00	\$0		\$0
U/G Heating Plant		m2		#N/A	\$0.00	\$0		\$0
Emulsion Plant		m2		#N/A	\$0.00	\$0		\$0
AN Storage Facility		m2		#N/A	\$0.00	\$0		\$0
Warehouse, Shops and Other		m2		#N/A	\$0.00	\$0		\$0
Storage Facility at Laydown/Airstrip		m2		#N/A	\$0.00	\$0		\$0
Fuel tanks		m2		#N/A	\$0.00	\$0		\$0
Fuel Tanks		m2		#N/A	\$0.00	\$0		\$0
Freshwater intake		m2		#N/A	\$0.00	\$0		\$0
Reclaim pumps		m2		#N/A	\$0.00	\$0		\$0
Outfall & Diffuser		m2		#N/A	\$0.00	\$0		\$0
Airstrip lighting, navigation, electrician		mandays		#N/A	\$0.00	\$0		\$0
Airstrip lighting, navigation, mechanical		mandays		#N/A	\$0.00	\$0		\$0
Break foundation slabs	total of all buildings	m2		#N/A	\$0.00	\$0		\$0
Consolidate & dump boneyard debris		m3		#N/A	\$0.00	\$0		\$0
Other				#N/A	\$0.00	\$0		\$0
LANDFILL FOR DEMOLITION WASTE								
Place rock cover	Blast rock fill	m3		#N/A	\$0.00	\$0		\$0
Place soil cover	Soil Cap - Landfill and Septic Field	m3		#N/A	\$0.00	\$0		\$0
Vegetate		ha		#N/A	\$0.00	\$0		\$0
GRADE AND CONTOUR PADS								
Accommodation Complex		ha	0.5	SCFYH	#####	\$3,015	100%	\$3,015
Process Facilities		ha		#N/A	\$0.00	\$0		\$0
Offices, Repair, Lab, Warehouse		ha	0.5	SCFYH	#####	\$3,015	100%	\$3,015
Storage Facilities		ha		#N/A	\$0.00	\$0		\$0
Water and Wastewater Treatment Facilities		ha		#N/A	\$0.00	\$0		\$0
U/G Heating Plant		ha		#N/A	\$0.00	\$0		\$0
Emulsion Plant		ha		#N/A	\$0.00	\$0		\$0
Warehouse, Shops and Other		ha		#N/A	\$0.00	\$0		\$0
Place rock cover		m3		#N/A	\$0.00	\$0		\$0
Vegetate		ha		#N/A	\$0.00	\$0		\$0
Other				#N/A	\$0.00	\$0		\$0
PUNCTURE LINED SUMPS								
Puncture liner and place soil cover		m3		#N/A	\$0.00	\$0		\$0
RECLAIM ROADS								
Remove culverts		each		#N/A	\$0.00	\$0		\$0
Remove bridges		each		#N/A	\$0.00	\$0		\$0
Scarify and install water breaks		ha		#N/A	\$0.00	\$0		\$0
Scarify airstrip		ha		#N/A	\$0.00	\$0		\$0
Scarify laydown areas		ha		#N/A	\$0.00	\$0		\$0
Vegetate		ha		#N/A	\$0.00	\$0		\$0
Other				#N/A	\$0.00	\$0		\$0
SPECIALIZED ITEMS								
Dispose of misc. debris and laydown area refuse				#N/A	\$0.00	\$0		\$0
Total						\$14,230		\$6,230
% of Total								44%
								0%

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. 10m high building multiply area by 3.3 (10/3)