

Table 9.5

Treatability Study Cost Analysis for SWMU Demo Dud - CSSA
Technology: Off-site Disposal of Affected Soils

Cost Item	Type of Cost	Description	Unit	No. of Units	Unit Costs	Totals
I	CAPITAL					
		Mobilization/Demobilization				
		a. Mobilization of personnel and equipment ^a	each	1	\$140	\$140
		b. Demobilization of personnel and equipment ^a	each	1	\$140	\$140
		Plan Preparation^b				
		a. Health & safety/work plan	each	1	\$4,000	\$4,000
		b. Closure Plan	each	1	\$7,000	\$7,000
		Total Capital Cost				\$11,280
II	OPERATIONS AND MAINTENANCE					
		Disposal of Affected Soils				
		a) Excavate and load affected soil into dump trucks (assume 95%) for transport to a Class 1 NonHaz landfill	BCY	278		
		b) Transport and dispose affected soil ^c (assume 95%) at a Class 1 NonHaz landfill	BCY	264	\$15	\$3,960
		c) Excavate, stabilize, and load affected soil into dump trucks (assume 5%) for transport to a Class 2 Haz landfill	RT Loads	18	\$210	\$3,780
		d) Transport and dispose affected soil ^c (assume 5%) at a Class 2 Haz landfill	BCY	14	\$65	\$910
			RT Loads	1	\$210	\$210
		Total Operations and Maintenance Cost				\$8,860
III	OTHER TECHNOLOGY-SPECIFIC COSTS					
		Waste Characterization				
		a) TCLP (include Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Ag)	sample	2	\$150	\$300
		b) TCLP VOCs	sample	2	\$210	\$420
		c) TCLP SVOCs	sample	2	\$265	\$530
		Confirmation Sampling in Excavation				
		a) Metals (include Cu, Pb, Hg, Zn as recommended)	sample	12	\$150	\$1,800
		b) VOCs	sample	12	\$200	\$2,400
		c) SVOCs	sample	12	\$250	\$3,000
		Validation				
		a) Data Validation	sample	12	\$100	\$1,200
		Total Technology Cost				\$9,650
		SUBTOTAL				\$29,790
IV	OTHER PROJECT COSTS					
		Engineering^b (for design and management)	10%			\$2,979
		Contingency^b	15%			\$4,469
		Calculated Remediation Cost^b				\$37,240

Costs obtained from Eagle Construction and Environmental Services unless otherwise noted.

a Assume that the excavation equipment includes one dozer and one trackhoe.

b Estimate based on engineering experience

c Assume that 18 LCY can be transported per each RT and the one BCY is equivalent to 1.25 LCY.

BCY bench or in-place cubic yard

LCY Loose Cubic Yard

RT round trip