Treatability Study Cost Analysis for SWMU B-28 - CSSA

Technology: Off-Site Disposal of Affected Soils

Cost	Type of				
Item	Cost Description	Unit	No. of Units	Unit Costs	Totals
1	CAPITAL				
	Mobilization/Demobilization			0140	0.1.10
	a. Mobilization of personnel and equipment	each	1	\$140	\$140
	b. Demobilization of personnel and equipment	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	BCY	730		
	a) Excavate and load affected soil into dump trucks (assume 95%) for transport to a Class 1 NonHaz landfill	BCY	694	\$15	\$10,410
	b) Transport and dispose affected soil ^c	RT Loads	48	\$210	\$10,080
	(assume 95%) at a Class 1 NonHaz landfill			*=:-	¥ 12,000
	c) Excavate, stabilize, and load affected soil into dump trucks	BCY	37	\$65	\$2,405
	(assume 5%) for transport to a Class 2 Haz landfill	DTI	0	#040	# 000
	d) Transport and dispose affected soil ^c (assume 5%) at a Class 2 Haz landfill	RT Loads	3	\$210	\$630
	Total Operations and Maintenance Cost				\$23,525
Ш	OTHER TECHNOLOGY-SPECIFIC COSTS				
1	Waste Characterization		_		
	a) TCLP (include Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Ag)	sample	1	\$150	\$150
	Confirmation Sampling in Excavation ^d a) Metals (include Ba, Cu, Zn as recommended)	sample	4	\$150	\$548
	Validation	Jampie	7	Ψ100	ΨΟ-ΤΟ
İ	a) Data Validation	sample	4	\$100	\$365
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	Total Technology Cost				\$1,063
	SUBTOTAL				\$35,868
IV	OTHER PROJECT COSTS				
	Engineering ^b	10%			\$3,587
	(for design and management) Contingency ^b	15%			\$5,380
		1370			# 5,360
Calculated Remediation Cost ^b					\$44,830

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.

d Assume 10 confirmation samples for every 2000 BCY removed from the site (includes one duplicate and one MS/MSD). Based on guidance of one confirmation sample per 100 feet of sidewall.