

**Table A49-3b**      *Estimated Cost of Soil Excavation and Landfill Disposal*  
*FS Group A49-3*  
*Site C4*  
*Perimeter Groundwater Operable Unit RI/FS*  
*Aerojet Superfund Site*  
*Sacramento County, California*

DESCRIPTION	QUANTITY		ESTIMATED COST	
	NUMBER	UNIT	UNIT COST (\$)	TOTAL COST (\$)
<b>DIRECT CAPITAL COST</b>				
<b>Reporting</b>				
RD/RA Workplan	1	LS	\$2,000	\$2,000
Remedial Action Summary (Construction Completion Report)	1	LS	\$2,000	\$2,000
			<b>SUBTOTAL - REPORTING</b>	<b>\$4,000</b>
<b>Excavation and Disposal</b>				
Surveying (pre- and post-excavation)	2	DAY	\$1,500	\$3,000
Equipment mobilization/demobilization	1	LS	\$6,000	\$3,000
Excavate and stockpile soil for Class II Landfill	270	TON	\$6	\$1,600
Soil transportation and disposal (Class II Landfill)	270	TON	\$40	\$10,800
Excavate and stockpile soil for Class I Landfill	0	TON	\$36	\$0
Soil transportation and disposal (Class I Landfill)	0	TON	\$91	\$0
Backfill excavations with clean fill and compact fill	0	TON	\$10	\$0
Water truck	1	DAY	\$500	\$500
Regulatory Oversight	0.25	LS	\$10,000	\$2,500
			<b>SUBTOTAL - EXCAVATION AND DISPOSAL</b>	<b>\$21,400</b>
<b>Confirmation and Stockpile Sample Analyses</b>				
Stockpile sampling - Title 22 metals (1 sample/100 CY)	1	EA	\$130	\$100
Excavation floor confirmatory sampling	4	EA	\$130	\$500
Excavation sidewall sampling	8	EA	\$130	\$1,000
			<b>SUBTOTAL - SAMPLING</b>	<b>\$1,600</b>
			<b>SUBTOTAL - DIRECT CAPITAL COST</b>	<b>\$27,000</b>
<b>INDIRECT CAPITAL COST</b>				
Engineering Design, Procurement, Administrative, and Legal Costs (% of Direct Capital Costs)	1	%	10	\$2,700
Construction Management (% of Direct Capital Costs)	1	%	10	\$2,700
Project Management (% of Direct Capital Costs)	1	%	6	\$1,600
Contractor's General Requirements (assume monthly rental of job trailer, storage box, and portable toilet; and administration support)	0.2	Week	\$1,000	\$200
			<b>SUBTOTAL - INDIRECT CAPITAL COST</b>	<b>\$7,200</b>
			<b>SUBTOTAL - CAPITAL COST (DIRECT AND INDIRECT)</b>	<b>\$34,000</b>
			Capital Cost Contingency (scope and cost) 20%	\$7,000
			<b>TOTAL ESTIMATED CAPITAL COST</b>	<b>\$41,000</b>

**Notes and Key:**

Excavation Floor Confirmation Samples assumes 1 sample per 1,000 square feet or 1 sample from excavation less than 1,000 square feet.

Excavation Sidewall Samples - Assumes 1 sample every 25 liner foot or 1 sample from each sidewall for excavation.

LS = Lump Sum

% = Percent

EA = Each

Ton = 2,000 pounds