

# **FINANCIAL ASSURANCE COST ESTIMATE**

**FOR:**

**LOS ANGELES COUNTY  
CASTAIC CLAY**

**CA MINE ID # 91-19-0041**

Prepared by:

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**Reclamation Objective:** Site leveled and prepared for industrial area.

**Please note:** Equipment rates used in this Financial Assurance Estimate utilize Caltrans "Labor Surcharge Equipment Rental Rates". Labor Rates are reflective of California Prevailing Wages obtained from the California Division of Labor Statistics & Research.

**I. PRIMARY RECLAMATION ACTIVITIES**

**Task: General Grading. (Quarry Surfaces, Roads and Processing Area)**

Applicability: General grading of quarry surfaces, processing areas and roads.

Method: General grading and scarifying for approximately 40 acres to gently slope/grade the land and approximately 2.0 acres of road areas. Total acres equal 42.

Calculation Basis and Other Miscellaneous Information: D8R Dozer with a 14' blade (2ft. Overlap); Avg. Speed: 2.5 mph; 50 minute hour; Production Rate: 3.0 Acres/Hr.

Miscellaneous Information:

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	14	\$1,988
Water Truck	1	\$47	3.5	\$165

Total Equipment Cost for this Task: \$2,153

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	14	\$630
Truck Driver	1	\$29	3.5	\$102
Supervisor	1	\$65	8	\$520

Total Labor Cost for this Task: \$1,252

C. Materials List

Item	Quantity	\$/Unit	Cost (\$)
N/A	0	0	\$0

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$3,404

**Task: Grade site high wall to meet final reclamation angle(s).**

Applicability: Rip and general grading high wall is necessary to meet final reclamation sloped angles.

Method: Contour high wall with D8 dozer (Active Quarry Area) to grade slope angle.

Calculation Basis and Other Miscellaneous Information: 100 ft. of quarry wall x 30 ft. avg. depth = 3,400 cu. yards. Caterpillar D8R Dozer: Production Rate: 750 cu. Yds/hr. or 8 hours. Grade slopes surrounding quarry pit.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	8	\$1,136
Water Truck	1	\$47	8	\$376

Total Equipment Cost for this Task: \$1,136

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	8	\$360
Truck Driver	1	\$29	8	\$232
Supervisor	1	\$65	8	\$520

Total Labor Cost for this Task: \$1,112

C. Materials List (Ave. Quoted Cost Per)

Item	Quantity	\$/Unit	Cost (\$)
N/A	0	\$0	\$0

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$2,248

## II. REVEGETATION

**Description of Task:** *Revegetate mining and slope areas.*

Applicability: Revegetation of slopes to control erosion. Revegetation is specified in mining areas, as the site will be blended into surrounding topography and vegetated areas.

Methods to be Used: Revegetation tasks are also aimed at controlling erosion on slopes and berms.

Calculation Basis and Other Miscellaneous Information: 42 Acres of former quarry, operations areas and slopes at \$200/Acre includes labor and materials. Assumes follow up seeding will be required on 25% of site's original 42 acres.

### A. Equipment List

Equipment	Quantity	\$/Hour	# of Acres	Cost (\$)
Seeding	1	\$400	42	\$16,800
Seeding (Year 2 Follow Up)	1	\$400	10	\$4,000

Total Equipment Cost for this Task: \$20,800

### D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$20,800 \$20,800

### III. PLANT STRUCTURES AND EQUIPMENT REMOVAL

**Description of Task:** Remove any stationary equipment and facilities, concrete and asphaltic concrete on roads.

**Applicability:** Equipment and facilities associated with mining and processing, as well as concrete and asphalt, will be removed. Office buildings, scale house and scale, paved roads and ready mix and asphalt production areas require removal of these materials during reclamation. Note: NOT APPLICABLE DUE TO AREA WITH PAVEMENTS (CONCRETE/ASPHALT) ARE RECLAIMED AS INDUSTRIAL.

**Methods to be Used:** Use backhoe and dumpster bins to remove and dispose materials.

**Calculation Basis and Other Miscellaneous Information:** Demolition/removal costs. Disposal costs are per dumpster including hauling and tipping fees. Concrete (10 cy dumpster).

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
CAT Backhoe	0	85	0	\$0
CAT 436 Front End Loader	0	35	0	\$0

Total Equipment Cost for this Task: \$0

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	0	\$45	0	\$0
Supervisor	0	\$65	0	\$0
Laborer	0	\$33	0	\$0

Total Labor Cost for this Task: \$0

C. Disposal

Structure/Equipment	Type of Material	Volume (quantity)	Unit Cost Basis	Disposal Cost (\$)	Cost (\$)
Foundation/Footings	Concrete	0	350	\$0	\$0
Road	Asphalt	0	1500	\$0	\$0
General Site Cleanup	Misc.	0	2	\$0	\$0

Total Material Cost for this Task: \$0

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$0



**V. MONITORING**

Applicability: Applicable to slopes and general mining areas that are revegetated.

Method: Monitor for successful revegetation and maintenance. Prepare closure report.

Calculation Basis and Other Miscellaneous Information: Revegetation monitoring estimated at \$3,000 per visit, with one visit per year. Preparation of closure report estimated at \$1,600/year.

Monitoring Task	\$/Visit	#Visits/Year	# of Monitoring Years	Cost (\$)
Revegetation Monitoring/Maintenance Year 1	\$1,600	1	1	\$1,600
Revegetation Monitoring/Maintenance Year 2	\$1,600	1	1	\$1,600
Closure Report	\$1,600	1	2	\$3,200

Total Monitoring Costs: \$6,400

**VII. SUMMARY OF COST**

Total of all Primary Reclamation Activities Costs	<u>\$5,652</u>
Total of all Revegetation Costs	<u>\$20,800</u>
Total of all Plant Structures and Equipment Removal Costs	<u>\$0</u>
Total of all Miscellaneous Costs	<u>\$0</u>
Total of all Monitoring Costs	<u>\$6,400</u>
	<i>Total of Direct Costs</i>
	<u>\$32,852</u>
Supervision (5% of Direct Costs)	<u>\$1,643</u>
Profit/Overhead (10%)	<u>\$3,285</u>
Contingencies (10%)	<u>\$3,285</u>
Mobilization (3%)	<u>\$986</u>
	<i>Total of Indirect Costs</i>
	<u>\$9,199</u>
	<i>Total of Direct and Indirect Costs</i>
	<u>\$42,051</u>
(Calculated at 5% of Direct Costs)	<i>Lead Agency Administrative Cost*</i>
	<u>\$1,643</u>
	 <b>Total Estimated Cost of Reclamation</b>
	<u><b>\$43,693</b></u>

\*Estimated at 5% of Direct Costs