

FINANCIAL ASSURANCE COST ESTIMATE

FOR:

**LOS ANGELES COUNTY
LANG STATION**

CA MINE ID # 91-19-0036

Prepared by:

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Reclamation Objective: Site prepared for industrial use.

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 former quarry surfaces, processing areas and roads.

Method: General grading and scarifying for approximately 19.8 acres to gently slope/grade the land.

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	8	\$1,136
Water Truck	1	\$47	8	\$376

Total Equipment Cost for this Task: \$1,512

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

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: \$2,624

Task: *Grade quarry pit slopes (active mining areas) to meet final reclamation slope angle(s).*

Applicability: Rip and general grading of quarry pit slopes is necessary to meet final reclamation slope angles.

Method: Contour quarry pit slopes with D8 dozer (Active Quarry Area) to rough grade.

Calculation Basis and Other Miscellaneous Information: Grading completed. Use Caterpillar D8R Dozer:
Production Rate: 750 cu. Yds/hr.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
Caterpillar D8 Dozer	1	\$142	0	\$0
Water Truck	1	\$47	0	\$0

Total Equipment Cost for this Task: _____ \$0

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	2	\$45	0	\$0
Truck Driver	1	\$29	0	\$0
Supervisor	1	\$65	0	\$0

Total Labor Cost for this Task: _____ \$0

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: _____ \$0

II. REVEGETATION

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

Applicability: Revegetation of slopes to control erosion. Note: Current revegetation of slope is being evaluated for its success.

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

Calculation Basis and Other Miscellaneous Information: Former quarry, operations areas and slopes at \$400/Acre includes labor and materials. Assumes follow up seeding will be required on 25% of site's original 52 acres.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Acres	Cost (\$)
Broadcast Seeding	1	\$400	20	\$8,000
Broadcast Seeding (Year 2 Follow Up)	1	\$400	5	\$2,000

Total Equipment Cost for this Task: \$10,000

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$10,000

III. PLANT STRUCTURES AND EQUIPMENT REMOVAL

Description of Task: Remove any stationary equipment and facilities, concrete and asphaltic concrete on roads. (Does not include tenant storage of materials at site)

Applicability: Equipment and facilities associated with mining and processing, as well as concrete and asphalt, will be removed. Office buildings, and paved roads are not considered to be removed because site has secondary land use 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.

A. Equipment List

Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
CAT 436 Front End Loader w/B	1	\$36	80	\$2,870
				\$0

Total Equipment Cost for this Task: \$2,870

B. Labor List

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Operating Engineer	1	\$45	80	\$3,600
Supervisor	1	\$65	40	\$2,600
Laborer	1	\$33	40	\$1,320

Total Labor Cost for this Task: \$7,520

C. Disposal

Structure/Equipment	Type of Material	Volume (quantity)	Unit Cost Basis	Disposal Cost (\$)	Cost (\$)
General Site Cleanup	Misc.	300	10	\$3,000	\$3,000

Total Material Cost for this Task: \$3,000

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost: \$13,390

IV. MISCELLANEOUS COSTS

Electrical Power Closure, Fencing, and Well Closure.

Applicability: Restoring site to open space requires removal of telephone poles.

Method: Public utilities contracted for power removal.

Calculation Basis and Other Miscellaneous Information: SCE/SDG&E fees for closure estimated at usual rates of \$5,000.

Item / Task	Quantity	\$/Unit	#	Cost (\$)
Power Removal	1	\$5,000	1	\$5,000
Total Miscellaneous Costs				<u>\$5,000</u>

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 \$1,600 per visit, with two visits per year. Preparation of closure report estimated at \$3,000/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	\$3,000	1	2	\$6,000
Total Monitoring Costs:				\$9,200

VII. SUMMARY OF COST

Total of all Primary Reclamation Activities Costs	<u>\$2,624</u>
Total of all Revegetation Costs	<u>\$10,000</u>
Total of all Plant Structures and Equipment Removal Costs	<u>\$13,390</u>
Total of all Miscellaneous Costs	<u>\$5,000</u>
Total of all Monitoring Costs	<u>\$9,200</u>
<i>Total of Direct Costs</i>	<u>\$40,214</u>
Supervision (5% of Direct Costs)	<u>\$2,011</u>
Profit/Overhead (10%)	<u>\$4,021</u>
Contingencies (10%)	<u>\$4,021</u>
Mobilization (3%)	<u>\$1,206</u>
<i>Total of Indirect Costs</i>	<u>\$11,260</u>
<i>Total of Direct and Indirect Costs</i>	<u>\$51,474</u>
(Calculated at 5% of Direct Costs)	<u>\$2,011</u>
<i>Lead Agency Administrative Cost*</i>	<u>\$2,011</u>
 Total Estimated Cost of Reclamation	 <u>\$53,485</u>

*Estimated at 5% of Direct Costs