

**SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

458A



**FROM:** TLMA – Transportation Department

**SUBMITTAL DATE:**  
May 23, 2008

**SUBJECT:** Modification of Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act (SMARA).

**RECOMMENDED MOTION:** That the Board of Supervisors approve Resolution 2008-196, which amends Resolution 97-261 that established a Pledge of Revenue to satisfy requirements of Section 2773.1 of the Public Resources Code for Financial Assurance to Reclaim Open Pit Mines.

**BACKGROUND:** The Board previously established a Pledge of Revenue as a Financial Assurance Mechanism to Reclaim Surface Mining Operations, as required by the Public Resources Code for County-operated mining sites or borrow pits used by the Transportation Department for road construction and maintenance. SMARA requires that the Financial Assurances be adjusted annually. The adjustments account for new lands disturbed, inflation and for reclamation of lands accomplished in accordance with the approved reclamation plan (PRC 2773.1(a)(3)). The original Resolution 97-261 must be modified to adjust the reclamation costs of the individual County's sites, as contained in the Pledge of Revenue, from \$707,600.00 to \$844,940.00. The actual reclamation cost for each mining site or borrow pit is shown on Attachment A. Resolution 2008-196 supersedes any previously approved modification to Resolution 97-261 made by Resolution 98-323, Resolution 2003-178, Resolution 2006-118 and Resolution 2007-388. There is no current fiscal year cost associated with the future reclamation. A future expense would be incurred at the point that existing mining sites are closed. Currently, no estimated date is known or projected for the closure of any of the County's existing mining sites.

DKD:dkd

Juan C. Perez  
Director of Transportation

<b>FINANCIAL DATA</b>	Current F.Y. Total Cost:	\$ 0	In Current Year Budget:	N/A
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	N/A
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2007/08

<b>SOURCE OF FUNDS:</b> Road Funds (100%)	<b>Positions To Be Deleted Per A-30</b>	<input type="checkbox"/>
	<b>Requires 4/5 Vote</b>	<input type="checkbox"/>

**C.E.O. RECOMMENDATION:**

APPROVE

BY:   
Tina Grande

**County Executive Office Signature**

FORM APPROVED COUNTY COUNSEL  
BY:   
DAVID H.K. HUFF  
DATE: 5/20/08

Dept't Recomm.:  Consent  Policy  
Per Exec. Ofc.:  Consent  Policy

Prev. Agn. Ref.: 3.46 of 9/4/07

District: 1,3,4,5

Agenda Number:

**3.60**

2  
3 **RESOLUTION NO. 2008-196**  
4 **AMMENDING RESOLUTION 97-261**  
5 **ESTABLISHING A PLEDGE OF REVENUE**  
6 **FOR RECLAMATION OF COUNTY MINED LANDS**  
7

8 **WHEREAS**, the Board of Supervisors on November 4, 1997 adopted  
9 Resolution No. 97-261, which established a pledge of revenue for reclaiming County  
10 mined lands; and

11 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261, was  
12 increased by Resolution No. 98-323 on November 11, 1998 for the reclamation of two  
13 additional mining sites; and

14 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
15 increased by Resolution No. 2003-178 on April 29, 2003 for the reclamation of two  
16 additional mining sites, and for the removal of two former mining sites; and

17 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
18 increased by Resolution No. 2006-118 on August 15, 2006 for the reclamation of the  
19 expansion of one current mining site; and

20 **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
21 increased by Resolution No. 2007-388 on September 4, 2007 to reflect adjustments to  
22 account for new lands disturbed, inflation and for reclamation of lands accomplished in  
23 accordance with the approved reclamation plan; and  
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**WHEREAS**, the pledge of revenue needs to be modified to reflect annual adjustments to account for new lands disturbed, inflation and for reclamation of lands accomplished in accordance with the approved reclamation plan.

**BE IT RESOLVED, DETERMINED AND ORDERED** by the Board of Supervisors of the County of Riverside, State of California, in regular session assembled on June 3, 2008, that:

- 1. Section 1 of Resolution No. 97-261 is hereby amended to read:  
Road Fund revenue, located in an account known as Transportation Department Fund 20000, Department ID 3130100000 in the amount of \$844,940 is hereby pledged to reclaim each mine site identified in Attachment A, dated April 21, 2008, which is incorporated herein by this reference.
  
- 2. Attachment A to Resolution No 97-261 is hereby replaced by said Attachment A, dated April 21, 2008, which is attached and incorporated herein by this reference.

FORM APPROVED COUNTY COUNSEL  
BY: DAVID H.K. HUFF 5/28/08  
DATE

**ATTACHMENT A**

**County Mining Sites  
Transportation Department  
April 21, 2008**

<b>Name</b>	<b>California Mine I.D Number</b>	<b>Reclamation Cost Estimates</b>
Bradshaw Pit	91-33-0046	\$39,560.00
Brookside Materials Yard	91-33-0095	\$315,800.00
Bundy Canyon Pit	91-33-0049	\$66,680.00
East Benton Pit	91-33-0052	\$27,320.00
Juniper Flats Pit	91-33-0053	\$50,000.00
Little Lake Pit	91-33-0055	\$25,640.00
Markham Pit	91-33-0054	\$126,440.00
Midland Pit	91-33-0051	\$70,640.00
Mountain View Pit	91-33-0048	\$25,520.00
Terwilliger Pit	91-33-0047	\$28,760.00
Thermal Pit	91-33-0090	\$39,080.00
River Road Sand Removal	91-33-0083	<u>\$29,500.00</u>
	<b>TOTAL</b>	<b>\$844,940.00</b>

**ATTACHMENT A**

**Bradshaw Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0046**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 15
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours—>>>>>> 35

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	140.04	9		1,260		
Motor Grader	1	ea	126.10	9		1,135		
Low Bed Truck & Trailer	1	ea	163.52	8		1,308		
Water Truck	1	ea	119.91	9		1,079		
Task 1 Total				35		4,783	say	4,800

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours —>>>>> 48

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	8		746		
Laborer	2	ea	60.36	20		2,414		
Water truck	1	ea	119.91	20		2,398		
Seed mix application	130,680	sf	0.08	na		9,801		
Task 4 Total				48		15,360	say	15,400

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 28,800**

**Bond Amount**

**Subtotal 28,800**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 2,880**

**Lead Agency Administrative Cost (10%) 2,880**

**Total Bond Amount 39,560**

**ATTACHMENT A**

**Brookside Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0095**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance 29.81 acres
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

Unit costs for equipment, material and labor to be used for reclamation:  
 (equipment hourly rate includes driver/operator)

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
966 Loader	46.56	68.60	115.16
Water Truck	51.31	68.60	119.91
Low Bed Truck	89.32	74.20	163.52
End Dump Truck	48.21	72.28	120.49
Truck mounted crane	130.00	68.60	198.60
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 3:1 (2000 cy/ac)  
 Estimated time to regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor: 685 hours.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
D-8R Dozer	2	ea	140.04	343	47,964		
Water Truck	1	ea	119.91	171	20,535		
Task 1 Total					68,498	say	68,500

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain, install rip rap, install chain link fence and gate.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Interceptor Drain	2,875	LF	5.00	na	14,375		
Down Drain	130	LF	5.00	na	650		
Rip Rap Pad	2	ea	500.00	na	1,000		
Install Chain Link Fence & Gate	3,275	LF	10.00	na	32,750		
Task 2 Total					48,775	say	48,800

**Task 3 Remove Mining Equipment**

Remove non-mobile mining equipment, processing equipment, equipment boneyard, storage sheds, and other structures or equipment which was not at the site prior to mining.  
 5 working days are estimated to complete this task.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Foreman	1	ea	93.27	40	3,731		
Laborer	2	ea	60.36	40	4,829		
966 Loader	1	ea	115.16	40	4,606		
Truck mounted crane	1	ea	198.60	40	7,944		
Low bed truck	1	ea	163.52	24	3,924		
End Dump Truck	1	ea	120.49	24	2,892		
Task 3 Total					27,926	say	27,900

**ATTACHMENT A**

**Brookside Material Site Financial Assurance Calculations for Reclamation**

**Task 4 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 57 pounds per acre (29.81 acres) by broadcasting with an automatic pressure sprayer. Mix seed into soil by dragging a chain over the area.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Foreman	1	ea	93.27	24	2,238		
Laborer	2	ea	60.36	40	4,829		
Water truck	1	ea	119.91	24	2,878		
Seed mix application	1,298,524	sf	0.08	na	97,389		
Task 4 Total					107,334	say	107,300

**Task 5 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for three years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	3	years	90.00	24	6,480		
Task 5 Total					6,480	say	6,500

**SUBTOTAL 259,000**

**Bond Amount**

**Subtotal 259,000**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 25,900**

**Lead Agency Administrative Cost (10%) 25,900**

**Total Bond Amount 315,800**

**ATTACHMENT A**

**Bundy Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0049**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 50
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 58

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	140.04	18		2,521		
Motor Grader	1	ea	126.10	18		2,270		
Low Bed Truck & Trailer	1	ea	163.52	4		654		
Water Truck	1	ea	119.91	18		2,158		
Task 1 Total				58		7,603	say	7,600

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>> 22

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	4		373		
Laborer	2	ea	60.36	9		1,086		
Water truck	1	ea	119.91	9		1,079		
Seed mix application	435,600	sf	0.08	na		32,670		
Task 4 Total				22		35,209	say	35,200

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 51,400**

**Bond Amount**

**Subtotal 51,400**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 5,140**

**Lead Agency Administrative Cost (10%) 5,140**

**Total Bond Amount 66,680**

**ATTACHMENT A**

**East Benton Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0052**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 4
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 31

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer	1	ea	140.04	9	1,260			
Motor Grader	1	ea	126.10	9	1,135			
Low Bed Truck & Trailer	1	ea	163.52	4	654			
Water Truck	1	ea	119.91	9	1,079			
Task 1 Total				31	4,129	say		4,100

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	93.27	8	746			
Laborer	2	ea	60.36	8	966			
Water truck	1	ea	119.91	8	959			
Seed mix application	43,560	sf	0.08	na	3,267			
Task 4 Total				24	5,938	say		5,900

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 18,600**

**Bond Amount**

**Subtotal 18,600**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 1,860**

**Lead Agency Administrative Cost (10%) 1,860**

**Total Bond Amount 27,320**

ATTACHMENT A

**Juniper Material Site Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0053**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 30
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		Total
	Equipment	Labor	
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
Regrade and finish slopes to blend with surrounding area, including  
furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 48

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	140.04	20		2,801		
Motor Grader	1	ea	126.10	10		1,261		
Low Bed Truck & Trailer	1	ea	163.52	8		1,308		
Water Truck	1	ea	119.91	10		1,199		
Task 1 Total				48		6,569	say	6,600

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	8		746		
Laborer	2	ea	60.36	8		966		
Water truck	1	ea	119.91	8		959		
Seed mix application	261,360	sf	0.08	na		19,602		
Task 4 Total				24		22,273	say	22,300

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 37,500**

**Bond Amount**

**Subtotal 37,500**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 3,750**

**Lead Agency Administrative Cost (10%) 3,750**

**Total Bond Amount 50,000**

**ATTACHMENT A**

**Little Lake Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0055**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 2
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 31

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer	1	ea	140.04	9	1,260			
Motor Grader	1	ea	126.10	9	1,135			
Low Bed Truck & Trailer	1	ea	163.52	4	654			
Water Truck	1	ea	119.91	9	1,079			
<b>Task 1 Total</b>				<b>31</b>	<b>4,129</b>		<b>say</b>	<b>4,100</b>

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 20

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	93.27	4	373			
Laborer	2	ea	60.36	9	1,086			
Water truck	1	ea	119.91	7	839			
Seed mix application	29,040	sf	0.08	na	2,178			
<b>Task 4 Total</b>				<b>20</b>	<b>4,477</b>		<b>say</b>	<b>4,500</b>

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
<b>Task 5 Total</b>					<b>8,640</b>	<b>say</b>	<b>8,600</b>

**SUBTOTAL 17,200**

**Bond Amount**

<b>Subtotal</b>	<b>17,200</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>	<b>5,000</b>
<b>Contingency (10%)</b>	<b>1,720</b>
<b>Lead Agency Administrative Cost (10%)</b>	<b>1,720</b>
<b>Total Bond Amount</b>	<b><u>25,640</u></b>

**ATTACHMENT A**

**Markham Material Site Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0054**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 11.8
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.80	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
Regrade and finish slopes to blend with surrounding area, including  
furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 233

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
D-8R Dozer	2	ea	140.04	120	16,805			
Motor Grader	1	ea	126.10	40	5,044			
Low Bed Truck & Trailer	1	ea	163.52	8	1,308			
Water Truck	1	ea	119.91	65	7,794			
Task 1 Total				233	30,951	say		31,000

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain & install rip rap.

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Interceptor Drain	1,150	LF	10.00	na	11,500			
Down Drain	60	LF	10.00	na	600			
Rip Rap Pad	3	ea	500.00	na	1,500			
Task 2 Total					13,600	say		13,600

**Task 3 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre (6.8 acres total) by broadcasting with an automatic pressure sprayer.  
Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 84

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs	Total			
Foreman	1	ea	93.27	24	2,238			
Laborer	2	ea	60.36	36	4,346			
Water truck	1	ea	119.91	24	2,878			
Seed mix application	514,008	sf	0.08	na	38,551			
Task 4 Total				84	48,013	say		48,000

**Task 4 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 101,200**

**Bond Amount**

**Subtotal 101,200**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 10,120**

**Lead Agency Administrative Cost (10%) 10,120**

**Total Bond Amount 126,440**

ATTACHMENT A

**Midland Material Site Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0051**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 52
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
Regrade and finish slopes to blend with surrounding area, including  
furrowing of slopes and ripping pit floor. Estimated manhours---->>>>>>> 71

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	140.04	27		3,781		
Motor Grader	1	ea	126.10	9		1,135		
Low Bed Truck & Trailer	1	ea	163.52	8		1,308		
Water Truck	1	ea	119.91	27		3,238		
Task 1 Total				71		9,462	say	9,500

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	8		746		
Laborer	2	ea	60.36	8		966		
Water truck	1	ea	119.91	8		959		
Seed mix application	453,024	sf	0.08	na		33,977		
Task 4 Total				24		36,648	say	36,600

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 54,700**

**Bond Amount**

**Subtotal 54,700**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 5,470**

**Lead Agency Administrative Cost (10%) 5,470**

**Total Bond Amount 70,640**

**ATTACHMENT A**

**Mountain View Road Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0048**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 3
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		Total
	Equipment	Labor	
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor. Estimated manhours----->>>>>> 31

Labor & Equipment	Qty	Unit	Rate	No. Man	Total		
				Hrs			
D-8R Dozer	1	ea	140.04	9	1,260		
Motor Grader	1	ea	126.10	9	1,135		
Low Bed Truck & Trailer	1	ea	163.52	4	654		
Water Truck	1	ea	119.91	9	1,079		
<b>Task 1 Total</b>				<b>31</b>	<b>4,129</b>	say	<b>4,100</b>

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ----->>>>> 10

Labor & Equipment	Qty	Unit	Rate	No. Man	Total		
				Hrs			
Foreman	1	ea	93.27	2	187		
Laborer	2	ea	60.36	4	483		
Water truck	1	ea	119.91	4	480		
Seed mix application	43,560	sf	0.08	na	3,267		
<b>Task 4 Total</b>				<b>10</b>	<b>4,416</b>	say	<b>4,400</b>

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
<b>Task 5 Total</b>					<b>8,640</b>	say	<b>8,600</b>

**SUBTOTAL** **17,100**

**Bond Amount**

**Subtotal** **17,100**

**Mobilization & Demobilization (lump sum)** **5,000**

**Contingency (10%)** **1,710**

**Lead Agency Administrative Cost (10%)** **1,710**

**Total Bond Amount** **25,520**

**ATTACHMENT A**

**Terwilliger Road Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0047**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 10
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 26

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	140.04	9		1,260		
Motor Grader	1	ea	126.10	4		504		
Low Bed Truck & Trailer	1	ea	163.52	4		654		
Water Truck	1	ea	119.91	9		1,079		
Task 1 Total				26		3,498	say	3,500

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>>> 10

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	2		187		
Laborer	2	ea	60.36	4		483		
Water truck	1	ea	119.91	4		480		
Seed mix application	87,120	sf	0.08	na		6,534		
Task 4 Total				10		7,683	say	7,700

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Task 5 Total					8,640	say	8,600

**SUBTOTAL 19,800**

**Bond Amount**

**Subtotal 19,800**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 1,980**

**Lead Agency Administrative Cost (10%) 1,980**

**Total Bond Amount 28,760**

**ATTACHMENT A**

**New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0090**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 10
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation work to be accomplished using Riverside County Transportation in-house forces.

The production rates and unit costs used for the equipment are based on the Riverside County Transportation Department Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:**  
**(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	65.84	74.20	140.04
Water Truck	51.31	68.60	119.91
Motor Grader	45.94	80.16	126.10
Low Bed Truck	89.32	74.20	163.52
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor: Estimated manhours---->>>>>> 80

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs			
D-8R Dozer	1	ea	140.04	27		3,781	
Motor Grader	1	ea	126.10	18		2,270	
Low Bed Truck & Trailer	1	ea	163.52	8		1,308	
Water Truck	1	ea	119.91	27		3,238	
<b>Task 1 Total</b>				<b>80</b>		<b>10,597</b>	say 10,600

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be distributed at a rate of 30 pounds per acre by broadcasting with an automatic pressure sprayer.  
 Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total	
				Hrs			
Foreman	1	ea	93.27	8		746	
Laborer	2	ea	60.36	8		966	
Water truck	1	ea	119.91	8		959	
Seed mix application	87,120	sf	0.08	na		6,534	
<b>Task 4 Total</b>				<b>24</b>		<b>9,205</b>	say 9,200

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Report Preparation	4	years	90.00	24	8,640	
<b>Task 5 Total</b>					<b>8,640</b>	say <b>8,600</b>

**SUBTOTAL 28,400**

**Bond Amount**

**Subtotal 28,400**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 2,840**

**Lead Agency Administrative Cost (10%) 2,840**

**Total Bond Amount 39,080**

ATTACHMENT A

**River Road Bridge Excavation Financial Assurance Calculations for Reclamation  
California Mine I.D Number 91-33-0083**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 15
- 2) Slopes will be recontoured and graded to blend with the surrounding area.
- 3) The finished slopes and floor of the material site will be furrowed to retain rainfall and seeds to promote revegetation.
- 4) The finished slopes and floor of the site will be reseeded by pressure spraying with a seed mix of plants native to the area.
- 5) Reclamation to be accomplished using contractor services.

The production rates and unit costs used for the equipment are based on Caltrans Labor & Equipment Rates for 2008/2009, and Caterpillar Performance Handbook (Edition 34)

**I. Unit costs for equipment, material and labor to be used for reclamation:  
(equipment hourly rate includes driver/operator)**

	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer	158.00	74.20	232.20
Water Truck	51.31	68.60	119.91
Motor Grader	57.19	80.16	137.35
Low Bed Truck	26.39	74.20	100.59
Foreman		93.27	93.27
Laborer		60.36	60.36
Seed Mix @ \$35/lb			35.00

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour area to a gradient no steeper than 2:1  
Regrade and finish slopes to blend with surrounding area  
Erosion Control (berm removal)

Estimated manhours---->>>>>> 40

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
D-8R Dozer	1	ea	232.20	18		4,180		
Motor Grader	1	ea	137.35	0		0		
Low Bed Truck & Trailer	1	ea	100.59	4		402		
Water Truck	1	ea	119.91	18		2,158		
<b>Task 1 Total</b>				<b>40</b>		<b>6,740</b>	say	<b>6,700</b>

**Task 2 Remove Trash & Debris**

Trash & Debris Removal

Estimated manhours---->>>>>> 19

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	93.27	3		280		
Laborer	2	ea	60.36	16		1,932		
<b>Task 2 Total</b>				<b>19</b>		<b>2,211</b>	say	<b>2,200</b>

**Task 3 Monitoring**

Perform a field investigation of the site each spring to monitor revegetation. Monitoring will take place for up to four years following reclamation to verify the success standards are being met.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Report Preparation	4	years	90.00	24	8,640		
<b>Task 3 Total</b>					<b>8,640</b>	say	<b>8,600</b>

**SUBTOTAL 17,500**

**Bond Amount**

**Subtotal 17,500**

**Supervision (6%) 1,050**

**Profit/Overhead (14%) 2,450**

**Mobilization & Demobilization (lump sum) 5,000**

**Contingency (10%) 1,750**

**Lead Agency Administrative Cost (10%) 1,750**

**Total Bond Amount 29,500**