

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

722A



FROM: TLMA – Transportation Department

SUBMITTAL DATE:
June 2, 2014

SUBJECT: Adoption of Resolution No. 2014-110, Modification to Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act. 1st/1st, 3rd/3rd, 4th/4th, and 5th/5th Districts; [\$0]

RECOMMENDED MOTION: That the Board of Supervisors adopt Resolution 2014-110, 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:

Summary

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 of Riverside (County) operated mining sites or borrow pits used by the Transportation Department for road construction and maintenance.

Patricia Romo
Patricia Romo

Juan C. Perez, Director of Transportation and Land Management

Assistant Director of Transportation

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (Per Exec. Office)
COST	\$ 0	\$ 0	\$ 0	\$ 0	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0	

SOURCE OF FUNDS:

There are no General Funds used in this project.

Budget Adjustment: No
For Fiscal Year: 13/14-14/15

C.E.O. RECOMMENDATION:

APPROVE

BY:

Tina Grande
Tina Grande

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

FORM APPROVED COUNTY COUNSEL
BY: *Michelle Clack*
DATE: 6/2/14
MICHELLE CLACK

Departmental Concurrence

- A-30
- 4/5 Vote
- Positions Added
- Change Order

Prev. Agn. Ref.:

District: 1/1, 3/3, 4/4, 5/5

Agenda Number

3-66

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

FORM 11: Adoption of Resolution No. 2014-110, Modification to Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act. 1st/1st, 3rd/3rd, 4th/4th, and 5th/5th Districts; [\$0]

DATE: June 2, 2014

PAGE: 2 of 2

BACKGROUND:

Summary (continued)

The Surface Mining and Reclamation Act (SMARA) requires that the Financial Assurances be adjusted annually. The adjustments account for the new lands disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved reclamation plan [PRC2773.1 (a) (3)].

The original Resolution 97-261 must be modified to adjust for reclamation costs of the individual County sites, as contained in the Pledge of Revenue, from \$1,073,250 to \$1,098,250. The actual reclamation cost for each mining site or borrow pit is shown in Attachment A. Resolution 2014-110 supersedes any previously approved modification to Resolution 97-261 made by Resolution 98-323, Resolution 2003-178, Resolution 2006-118, Resolution 2007-388, Resolution 2008-196, Resolution 2009-184, Resolution 2010-157, Resolution 2011-163, Resolution 2012-142 and Resolution 2013-070. There is no current fiscal year cost associated with the future reclamation. A future expense would be incurred at the point the 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.

Project No. ZTR 9000

Impact on Residents and Businesses

N/A

SUPPLEMENTAL:

Additional Fiscal Information

N/A

Contract History and Price Reasonableness

N/A

ATTACHMENTS:

Attachment A

2
3 **RESOLUTION NO. 2014-110**

4 AMENDING RESOLUTION NO. 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 Resolution No. 97-
9 261, which established a Pledge of Revenue for reclaiming County mined lands; and

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

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

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

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

23 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
24 by Resolution No. 2008-196 on June 3, 2008, to reflect adjustments to account for new lands
25 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
26 reclamation plan; and

FORM APPROVED COUNTY COUNSEL
BY: MICHELLE STARK DATE: 5/12/14

1 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
2 by Resolution No. 2009-184 on June 23, 2009, to reflect adjustments to account for new lands
3 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
4 reclamation plan; and

5 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
6 by Resolution No. 2010-157 on June 8, 2010, to reflect adjustments to account for new lands
7 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
8 reclamation plan; and

9 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
10 by Resolution No. 2011-163 on June 28, 2011, to reflect adjustments to account for new lands
11 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
12 reclamation plan; and

13 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
14 by Resolution No. 2012-142 on June 26, 2012, to reflect adjustments to account for new lands
15 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
16 reclamation plan; and

17 **WHEREAS**, the Pledge of Revenue established by Resolution No. 97-261 was increased
18 by Resolution No. 2013-070 on April 9, 2013, to reflect adjustments to account for new lands
19 disturbed, inflation, and for reclamation of lands accomplished in accordance with the approved
20 reclamation plan; and

21 **WHEREAS**, the Pledge of Revenue needs to be modified to reflect annual adjustments to
22 account for new lands disturbed, inflation, and for reclamation of lands accomplished in
23 accordance with the approved reclamation plan.
24
25
26
27
28

1 **NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED, AND ORDERED** by
2 the Board of Supervisors of the County of Riverside, State of California, in regular session
3 assembled on _____, 2014, that:

4
5 1. Section 1 of Resolution No. 97-261 is hereby amended to read:

6 Road Fund revenue, located in an account known as Transportation Department Fund
7 20000, Department ID 3130100000 in the amount of \$1,098,250.00 is hereby pledged to
8 reclaim each mine site identified in Attachment A, dated April 21, 2014, which is
9 incorporated by this reference.

10 2. Attachment A to Resolution No 97-261 is hereby replaced by said Attachment A,
11 dated April 21, 2014, which is attached and incorporated herein by this reference.

ATTACHMENT A

**County Mining Sites
Transportation Department
April 21, 2014**

Name	California Mine I.D Number	Reclamation Cost Estimates
Bradshaw Pit	91-33-0046	\$60,000.00
Brookside Materials Yard	91-33-0094	\$360,375.00
Bundy Canyon Pit	91-33-0049	\$119,125.00
East Benton Pit	91-33-0052	\$40,625.00
Juniper Flats Pit	91-33-0053	\$85,500.00
Little Lake Pit	91-33-0055	\$57,500.00
Markham Pit	91-33-0054	\$146,000.00
Midland Pit	91-33-0051	\$92,875.00
Mountain View Pit	91-33-0048	\$36,125.00
Terwilliger Pit	91-33-0047	\$40,000.00
Thermal Pit	91-33-0090	\$60,125.00
	TOTAL	\$1,098,250.00

ATTACHMENT A

Bradshaw Material Site Financial Assurance Calculations for Reclamation

California Mine I.D Number 91-33-0046

4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
CAT 120G Grader w/operator	87.92	72.64	160.55
5-axle Low Bed Truck & Trailer w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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	Total			
D-8R Dozer w/operator	1	ea	311.54	9	2,804			
Motor Grader w/operator	1	ea	160.55	9	1,445			
Low Bed Truck w/driver	1	ea	183.61	8	1,469			
Water Truck w/driver	1	ea	144.87	9	1,304			
Task 1 Total				35	7,022	say		7,000

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	Total			
Foreman	1	ea	110.00	8	880			
Laborer	2	ea	51.90	20	2,076			
Water Truck w/driver	1	ea	144.87	20	2,897			
Seed mix application	435,600	sf	0.045	na	19,602			
Task 4 Total	0			48	25,455	say		25,500

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		
				Hrs	Total			
Report Preparation	4	years	120.00	24	11,520			
Task 5 Total					11,520	say		11,500

SUBTOTAL 44,000

Bond Amount

Subtotal 44,000

Supervision (5%) 2,200

Mobilization & Demobilization (lump sum) 5,000

Profit & Overhead (included in Hrly rates for Labor & Equipment)

Contingency (10%) 4,400

Lead Agency Administrative Cost (10%) 4,400

Total Bond Amount 60,000

ATTACHMENT A

Brookside Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0094
4/21/2014

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = **29.81**
- 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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
963 Loader w/operator	125.57	72.64	198.20
Water Truck w/driver	86.55	58.32	144.87
Low Bed Truck w/driver	125.29	58.32	183.61
3-axle End Dump Truck w/driver	82.88	58.32	141.20
Truck mounted crane w/operator	97.77	72.64	170.41
Foreman		89.87	89.87
Laborer		42.67	42.67
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 w/operator	2	ea	311.54	343	106,702		
Water Truck w/driver	1	ea	144.87	171	24,809		
Task 1 Total					131,510	say	131,500

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	110.00	40	4,400		
Laborer	2	ea	51.90	40	4,152		
966 Loader w/operator	1	ea	198.20	40	7,928		
Truck mounted crane w/operator	1	ea	170.41	40	6,816		
Low Bed Truck w/driver	0	ea	183.61	24	0		
3-axle End Dump Truck w/driver	1	ea	141.20	24	3,389		
Task 3 Total					26,685	say	26,700

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	110.00	24	2,640		
Laborer	2	ea	51.90	40	4,152		
Water Truck w/driver	1	ea	144.87	24	3,477		
Seed mix application	1,298,524	sf	0.045	na	58,434		
Task 4 Total					68,702	say	68,700

Task 5 Monitoring

Profit & Overhead (included in Hrly rates for Labor & Equipment)

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	120.00	24	8,640		
Task 5 Total					8,640	say	8,600

SUBTOTAL 284,300

Bond Amount

Subtotal 284,300

Supervision (5%) 14,215

Mobilization & Demobilization (lump sum) 5,000

Profit & Overhead (included in Hrly rates for Labor & Equipment)

Contingency (10%) 28,430

Lead Agency Administrative Cost (10%) 28,430

Total Bond Amount 360,375

ATTACHMENT A

Bundy Canyon Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0049
4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/operator	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	1	ea	311.54	18		5,608		
Motor Grader w/operator	1	ea	160.55	18		2,890		
Low Bed Truck w/driver	1	ea	183.61	4		734		
Water Truck w/operator	1	ea	144.87	18		2,608		
Task 1 Total				58		11,840	say	11,800

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 ----->>>>>>> 22

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	110.00	4		440		
Laborer	2	ea	51.90	9		934		
Water Truck w/operator	1	ea	144.87	9		1,304		
Seed mix application	1,452,000	sf	0.045	na		65,340		
Task 4 Total	0			22		68,018	say	68,000

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					11,520	say	11,500

SUBTOTAL 91,300

Bond Amount

Subtotal	91,300
Supervision (5%)	4,565
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	9,130
Lead Agency Administrative Cost (10%)	9,130
Total Bond Amount	<u>119,125</u>

ATTACHMENT A

East Benton Material Site Financial Assurance Calculations for Reclamation

California Mine I.D Number 91-33-0052

4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	1	ea	311.54	9	2,804			
Motor Grader w/operator	1	ea	160.55	9	1,445			
Low Bed Truck w/driver	1	ea	183.61	4	734			
Water Truck w/driver	1	ea	144.87	9	1,304			
Task 1 Total				31	6,287	say		6,300

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	110.00	8	880			
Laborer	2	ea	51.90	8	830			
Water Truck w/driver	1	ea	144.87	8	1,159			
Seed mix application	174,240	sf	0.045	na	7,841			
Task 4 Total				24	10,710	say		10,700

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		
Report Preparation	4	years	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 28,500

Bond Amount

Subtotal	28,500
Supervision (5%)	1,425
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	2,850
Lead Agency Administrative Cost (10%)	2,850
Total Bond Amount	<u>40,625</u>

ATTACHMENT A

Juniper Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0053
4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	1	ea	311.54	20		6,231		
Motor Grader w/operator	1	ea	160.55	10		1,606		
Low Bed Truck w/driver	1	ea	183.61	8		1,469		
Water Truck w/driver	1	ea	144.87	10		1,449		
Task 1 Total				48		10,754	say	10,800

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 ---->>>>> 24

Labor & Equipment	Qty	Unit	Rate	No. Man		Total		
				Hrs				
Foreman	1	ea	110.00	8		880		
Laborer	2	ea	51.90	8		830		
Water Truck w/driver	1	ea	144.87	8		1,159		
Seed mix application	871,200	sf	0.045	na		39,204		
Task 4 Total	0			24		42,073	say	42,100

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	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 64,400

Bond Amount

Subtotal	64,400
Supervision (5%)	3,220
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrlly rates for Labor & Equipment)	
Contingency (10%)	6,440
Lead Agency Administrative Cost (10%)	6,440
Total Bond Amount	<u>85,500</u>

ATTACHMENT A

**Little Lake Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0055
4/21/2014**

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) = 5
- 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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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---->>>>>> 79

Labor & Equipment	Qty	Unit	Rate	No. Man	Total	
				Hrs		
D-8R Dozer w/operator	1	ea	311.54	25	7,788	
Motor Grader w/operator	1	ea	160.55	25	4,014	
Low Bed Truck w/driver	1	ea	183.61	4	734	
Water Truck w/driver	1	ea	144.87	25	3,622	
Task 1 Total				79	16,158	say 16,200

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 ---->>>>>> 37

Labor & Equipment	Qty	Unit	Rate	No. Man	Total	
				Hrs		
Foreman	1	ea	110.00	4	440	
Laborer	2	ea	51.90	18	1,868	
Water Truck w/driver	1	ea	144.87	15	2,173	
Seed mix application	217,800	sf	0.045	na	9,801	
Task 4 Total	0			37	14,282	say 14,300

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	120.00	24	11,520	
Task 5 Total					11,520	say 11,500

SUBTOTAL 42,000

Bond Amount

Subtotal	42,000
Supervision (5%)	2,100
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrlr rates for Labor & Equipment)	
Contingency (10%)	4,200
Lead Agency Administrative Cost (10%)	4,200
Total Bond Amount	<u>57,500</u>

ATTACHMENT A

Markham Material Site Financial Assurance Calculations for Reclamation

California Mine I.D Number 91-33-0054

4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	2	ea	311.54	120	37,384			
Motor Grader w/operator	1	ea	160.55	40	6,422			
Low Bed Truck w/driver	1	ea	183.61	8	1,469			
Water Truck w/driver	1	ea	144.87	65	9,416			
Task 1 Total				233	54,692	say		54,700

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	110.00	24	2,640			
Laborer	2	ea	51.90	36	3,737			
Water Truck w/driver	1	ea	144.87	24	3,477			
Seed mix application	514,008	sf	0.045	na	23,130			
Task 4 Total	0			84	32,984	say		33,000

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	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 112,800

Bond Amount

Subtotal	112,800
Supervision (5%)	5,640
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	11,280
Lead Agency Administrative Cost (10%)	11,280
Total Bond Amount	<u>146,000</u>

ATTACHMENT A

**Midland Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0051
4/21/2014**

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	1	ea	311.54	27		8,412	
Motor Grader w/operator	1	ea	160.55	9		1,445	
Low Bed Truck w/driver	1	ea	183.61	8		1,469	
Water Truck w/driver	1	ea	144.87	27		3,911	
Task 1 Total				71		15,237	say 15,200

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	110.00	8		880	
Laborer	2	ea	51.90	8		830	
Water Truck w/driver	1	ea	144.87	8		1,159	
Seed mix application	906,048	sf	0.045	na		40,772	
Task 4 Total				24		43,642	say 43,600

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	
Report Preparation	4	years	120.00	24	11,520	
Task 5 Total					11,520	say <u>11,500</u>

SUBTOTAL 70,300

Bond Amount

Subtotal	70,300
Supervision (5%)	3,515
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	7,030
Lead Agency Administrative Cost (10%)	7,030
Total Bond Amount	<u>92,875</u>

ATTACHMENT A

**Mountain View Road Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0048
4/21/2014**

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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 w/operator	1	ea	311.54	9		2,804		
Motor Grader w/operator	1	ea	160.55	9		1,445		
Low Bed Truck w/driver	1	ea	183.61	4		734		
Water Truck w/driver	1	ea	144.87	9		1,304		
Task 1 Total				31		6,287	say	6,300

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	110.00	2		220		
Laborer	2	ea	51.90	4		415		
Water Truck w/driver	1	ea	144.87	4		579		
Seed mix application	130,680	sf	0.045	na		5,881		
Task 4 Total				10		7,095	say	7,100

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	120.00	24	11,520		
Task 5 Total					11,520	say	11,500

SUBTOTAL 24,900

Bond Amount

Subtotal 24,900

Supervision (5%) 1,245

Mobilization & Demobilization (lump sum) 5,000

Profit & Overhead (included in Hrly rates for Labor & Equipment)

Contingency (10%) 2,490

Lead Agency Administrative Cost (10%) 2,490

Total Bond Amount 36,125

ATTACHMENT A

Terwilliger Road Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0047
4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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	Total			
D-8R Dozer w/operator	1	ea	311.54	9	2,804			
Motor Grader w/operator	1	ea	160.55	4	642			
Low Bed Truck w/driver	1	ea	183.61	4	734			
Water Truck w/driver	1	ea	144.87	9	1,304			
Task 1 Total				26	5,484		say	5,500

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	Total			
Foreman	1	ea	110.00	2	220			
Laborer	2	ea	51.90	4	415			
Water Truck w/driver	1	ea	144.87	4	579			
Seed mix application	217,800	sf	0.045	na	9,801			
Task 4 Total	0			10	11,016		say	11,000

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					11,520	say	11,500

SUBTOTAL 28,000

Bond Amount

Subtotal	28,000
Supervision (5%)	1,400
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	2,800
Lead Agency Administrative Cost (10%)	2,800
Total Bond Amount	<u>40,000</u>

ATTACHMENT A

New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation
California Mine I.D Number 91-33-0090
4/21/2014

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) Labor & equipment rates were based on current general prevailing wage rates issued by California Department of Industrial Relations, and Caltrans Labor Surcharge and Equipment Rental Rates.
- 6) Production rates were obtained from the 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 w/operator	238.90	72.64	311.54
Water Truck w/driver	86.55	58.32	144.87
Motor Grader w/operator	87.92	72.64	160.55
Low Bed Truck w/driver	125.29	58.32	183.61
Foreman		110.00	110.00
Laborer		51.90	51.90
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	Total		
D-8R Dozer w/operator	1	ea	311.54	27	8,412		
Motor Grader w/operator	1	ea	160.55	18	2,890		
Low Bed Truck w/driver	1	ea	183.61	8	1,469		
Water Truck w/driver	1	ea	144.87	27	3,911		
Task 1 Total				80	16,682	say	16,700

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	110.00	8	880		
Laborer	2	ea	51.90	8	830		
Water Truck w/driver	1	ea	144.87	8	1,159		
Seed mix application	290,400	sf	0.045	na	13,068		
Task 4 Total	0			24	15,937	say	15,900

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	120.00	24	11,520	
Task 5 Total					11,520	say 11,500

SUBTOTAL 44,100

Bond Amount

Subtotal	44,100
Supervision (5%)	2,205
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	4,410
Lead Agency Administrative Cost (10%)	4,410
Total Bond Amount	<u>60,125</u>