

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

522A



FORM APPROVED COUNTY COUNSEL  
BY: GREGORY P. PRIAMOS  
DATE: 4/2/16  
Departmental Concurrent

**FROM:** TLMA – Transportation Department

**SUBMITTAL DATE:**  
April 4, 2016

**SUBJECT:** Adoption of Resolution No. 2016-108, Modification to Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act. 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Districts; [\$0]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Adopt Resolution No. 2016-108, Modification to Financial Assurance Mechanism required by the Surface Mining and Reclamation Act (SMARA), which amends Resolution No. 97-261 that established a Pledge of Revenue to satisfy requirements of Section 2773.1 of the Public Resources Code (PRC) for Financial Assurance to Reclaim Open Pit Mines.

**BACKGROUND:**

**Summary**

The Board of Supervisors 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 County of Riverside Transportation Department (Transportation Department) for road construction and maintenance.

Patricia Romo  
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:** 15/16 -16/17

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

APPROVE

BY:   
Tina Grande

County Executive Office Signature

**MINUTES OF THE BOARD OF SUPERVISORS**

On motion of Supervisor Jeffries, seconded by Supervisor Washington and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

**Ayes:** Jeffries, Washington and Benoit  
**Nays:** None  
**Absent:** Tavaglione and Ashley  
**Date:** May 3, 2016  
**xc:** Transp.

Kecia Harper-Ihem  
Clerk of the Board  
By:   
Deputy

**Prev. Agn. Ref.:** 11/04/97, Item 3-32 | **District:** 1, 3, 4, 5 | **Agenda Number:**

**3-21**

A-30  
 4/5 Vote  
 Positions Added  
 Change Order

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**  
**FORM 11: Adoption of Resolution No. 2016-108, Modification to Financial Assurance Mechanism Required by the Surface Mining and Reclamation Act. 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Districts; [\$0]**

**DATE:** April 4, 2016

**PAGE:** 2 of 2

**BACKGROUND:**

**Summary (continued)**

The 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, PRC 2773.1(a)(3).

The original Resolution No. 97-261, approved by the Board of Supervisors on November 4, 1997 (Agenda Item 3-32), must be modified to adjust for reclamation costs of the individual County of Riverside (County) sites, as contained in the Pledge of Revenue, from \$1,098,250 to \$1,734,072. The actual reclamation cost for each mining site or borrow pit is shown in Attachment A. Resolution No. 2016-108, supersedes any previously approved modification to Resolution No. 97-261 made by Resolution No. 98-323, Resolution No. 2003-178, Resolution No. 2006-118, Resolution No. 2007-388, Resolution No. 2008-196, Resolution No. 2009-184, Resolution No. 2010-157, Resolution No. 2011-163, Resolution No. 2012-142, Resolution No. 2013-070, Resolution No. 2014-110, and Resolution No. 2015-114. 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. ZTR9000

**Impact on Residents and Businesses**

N/A

**SUPPLEMENTAL:**

**Additional Fiscal Information**

N/A

**Contract History and Price Reasonableness**

N/A

**ATTACHMENTS:**

Resolution No. 2016-108

Attachment A

2  
3 **RESOLUTION NO. 2016-108**

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  
9 No. 97-261, which established a pledge of revenue for reclaiming County of Riverside  
10 (County) 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,

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

FORM APPROVED COUNTY COUNSEL  
BY: MICHELLE CLACK  
DATE: 4/19/16

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

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

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

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

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

21           **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
22 increased by Resolution No. 2014-110 on June 17, 2014, to reflect adjustments to account  
23 for new lands disturbed, inflation and for reclamation of lands accomplished in accordance  
24 with the approved reclamation plan; and,

25           **WHEREAS**, the pledge of revenue established by Resolution No. 97-261 was  
26 increased by Resolution No. 2015-114 on June 2, 2015, to reflect adjustments to account  
27 for new lands disturbed, inflation and for reclamation of lands accomplished in accordance

1 with the approved reclamation plan; and,

2 **WHEREAS**, the pledge of revenue needs to be modified to reflect annual adjustments to  
3 account for new lands disturbed, inflation and for reclamation of lands accomplished in  
4 accordance with the approved reclamation plan; now therefore,

5 **BE IT RESOLVED, FOUND, DETERMINED AND ORDERED** by the Board of  
6 Supervisors of the County of Riverside, State of California, in regular session assembled on  
7 May 3, 2016, that:

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

9 Road Fund revenue, located in an account known as Transportation Department  
10 Fund 20000, Department ID 3130100000 in the amount of \$1,734,072.00 is hereby  
11 pledged to reclaim each mine site identified in Attachment A, dated March 24, 2016,  
12 which is incorporated herein by this reference.

13 2. Attachment A to Resolution No 97-261 is hereby replaced by said Attachment A,  
14 dated March 24, 2016, which is attached and incorporated herein by this reference.

15  
16 ROLL CALL:

17 Ayes: Jeffries, Washington and Benoit  
18 Nays: None  
19 Absent: Tavaglione and Ashley

20 The foregoing is certified to be a true copy of a resolution duly  
adopted by said Board of Supervisors on the date therein set forth.

21 KECLIA HARPER-IHEM, Clerk of said Board

22 By  \_\_\_\_\_

23 Deputy

**ATTACHMENT A**

**County Mining Sites  
Transportation Department  
March 24, 2016**

<b>Name</b>	<b>California Mine I.D Number</b>	<b>Reclamation Cost Estimates</b>
Bradshaw Pit	91-33-0046	\$91,584.00
Brookside Materials Yard	91-33-0094	\$74,733.00
Bundy Canyon Pit	91-33-0049	\$248,312.00
East Benton Pit	91-33-0052	\$116,381.00
Juniper Flats Pit	91-33-0053	\$248,997.00
Little Lake Pit	91-33-0055	\$141,589.00
Markham Pit	91-33-0054	\$172,140.00
Midland Pit	91-33-0051	\$223,926.00
Mountain View Pit	91-33-0048	\$88,159.00
Terwilliger Pit	91-33-0047	\$89,118.00
Thermal Pit	91-33-0090	<u>\$239,133.00</u>
	<b>TOTAL</b>	<b>\$1,734,072.00</b>

ATTACHMENT A

**Bradshaw Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0046**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
CAT 120G Grader w/operator	76.36	76.29	152.65
5-axle Low Bed Truck & Trailer w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.049

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 4:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor.

Methods to be used: A CAT D-8 dozer with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 15 acres.

Production Rate: 1 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	20	5,650.26
CAT 120G Grader w/operator	1	ea	152.65	20	3,053.09
5-axle Low Bed Truck & Trailer w/driver	1	ea	174.99	8	1,399.88
Water Truck w/driver	1	ea	133.20	20	2,664.09
Task 1 Total				68	12,767.32

say 12,800

**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.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	653,400	sf	0.049	na	32,016.60
Task 2 Total				24	35,017.48

say 35,000

ATTACHMENT A

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

**3/24/2016**

**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	32	15,360.00	
Task 3 Total				32	15,360.00	say <u>15,400</u>

**SUBTOTAL 63,200**

**Pledge of Revenue**

<b>Subtotal</b>						<b>63,200</b>
<b>Supervision (5%)</b>						<b>3,160</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>7,584</b>
<b>Contingency (10%)</b>						<b>6,320</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>6,320</b>

**Total Pledge of Revenue 91,584**



**ATTACHMENT A**

**Brookside Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0094**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		Total
	Equipment	Labor	
D-8R Dozer w/operator	206.67	75.85	282.51
CAT 120G Grader w/operator	76.36	76.29	152.65
Water Truck w/driver	72.24	60.96	133.20
5-axle Low Bed Truck & Trailer w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.049

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 3:1  
 Regrade and finish slopes to blend with surrounding area, including  
 furrowing of slopes and ripping pit floor. Pit floor to be graded at 1.5% slope for drainage purposes.  
 Fill in drainage basin.

Methods to be used: A CAT D-8 dozer with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 10 acres.  
 Slopes will be graded to 3:1 ratio.

Production Rate: 1 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	40	11,300.52
5-axle Low Bed Truck & Trailer w/driver	1	ea	174.99	8	1,399.88
Water Truck w/driver	1	ea	133.20	40	5,328.18
<b>Task 1 Total</b>				<b>88</b>	<b>18,028.58</b>

say 18,000

**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.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	435,600	sf	0.049	na	21,344.40
<b>Task 2 Total</b>				<b>24</b>	<b>24,345.28</b>

say 24,300

**ATTACHMENT A**

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

**Task 3 Monitoring**

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.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
Report Preparation	3	years	120.00	24	8,640.00	
Task 5 Total					8,640.00	say <u>8,600</u>

**SUBTOTAL 50,900**

**Pledge of Revenue**

<b>Subtotal</b>						<b>50,900</b>
<b>Supervision (5%)</b>						<b>2,545</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>6,108</b>
<b>Contingency (10%)</b>						<b>5,090</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>5,090</b>
<b>Total Pledge of Revenue</b>						<b><u>74,733</u></b>

**ATTACHMENT A**

**Bundy Canyon Material Site Financial Assurance Calculations for Reclamation**

**California Mine I.D Number 91-33-0049**

**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/operator	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
5-axle Low Bed Truck & Trailer w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 2:1, fill in drainage basin, regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor.

Methods to be used: Two (2) CAT D-8 dozers with a ripper attachments will traverse the compacted areas to promote plant growth. Dozers and a grader will grade available soil over the 50 acres. Slopes will be graded to 2:1 ratio.

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	2	ea	282.51	30	16,950.77
Motor Grader w/operator	1	ea	152.65	30	4,579.63
5-axle Low Bed Truck & Trailer w/driver	1	ea	174.99	8	1,399.88
Water Truck w/operator	1	ea	133.20	30	3,996.14

Task 1 Total 42 26,926.43

say 26,900

**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.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	24	3,091.92
Laborer	2	ea	56.54	24	2,713.80
Water Truck w/operator	1	ea	133.20	24	3,196.91
Seed mix application	2,178,000	sf	0.058	na	126,324.00

Task 2 Total 72 135,326.64

say 135,300

**ATTACHMENT A**

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

**3/24/2016**

**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	32	15,360.00
Task 3 Total					15,360.00

say 15,400

**SUBTOTAL 177,600**

**Pledge of Revenue**

<b>Subtotal</b>						<b>177,600</b>
<b>Supervision (5%)</b>						<b>8,880</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>21,312</b>
<b>Contingency (10%)</b>						<b>17,760</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>17,760</b>
<b>Total Pledge of Revenue</b>						<b><u>248,312</u></b>

ATTACHMENT A

**East Benton Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0052**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
5-axle Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 2:1, fill in existing drainage basins, regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor.

Methods to be used: A CAT D-8 dozer will push material to create 2:1 slopes on any oversteepened slopes, and stockpiles will be rough graded as needed. A water truck will be available for dust control.

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	40	11,300.52
Low Bed Truck w/driver	1	ea	174.99	4	699.94
Water Truck w/driver	1	ea	133.20	40	5,328.18
<b>Task 1 Total</b>				<b>84</b>	<b>17,328.64</b>

say 17,300

**Task 2 Construct Drainage Structures**

Construct interceptor drain & install rip rap pads.

Labor & Equipment	Qty	Unit	Rate	Total
Interceptor Drain	1,450	LF	15.00	21,750.00
Rip Rap Pad	5	ea	1,000.00	5,000.00
<b>Task 2 Total</b>				<b>26,750.00</b>

say 26,800

**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 (9 acres net total) by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	392,040	sf	0.058	na	22,738.32
<b>Task 3 Total</b>				<b>24</b>	<b>25,739.20</b>

say 25,700

ATTACHMENT A

**East Benton Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0052**  
**3/24/2016**

**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	11,520.00	
Task 4 Total					11,520.00	say <u>11,500</u>

**SUBTOTAL 81,300**

**Pledge of Revenue**

<b>Subtotal</b>						<b>81,300</b>
<b>Supervision (5%)</b>						<b>4,065</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>9,756</b>
<b>Contingency (10%)</b>						<b>8,130</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>8,130</b>
<b>Total Pledge of Revenue</b>						<b><u>116,381</u></b>

**ATTACHMENT A**

**Juniper Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0053**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 32
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
5-axle Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 2:1 (or 1.5:1 per reclamation plan) fill in drainage basins, regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor.

Methods to be used: Two (2) CAT D-8 dozers with a ripper attachments will traverse the compacted areas to promote plant growth. Dozers and a grader will grade available soil over the 32 acres. Slopes will be graded to 2:1 ratio (or 1.5:1 per reclamation plan).

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	2	ea	282.51	40	22,601.03
Motor Grader w/operator	1	ea	152.65	40	6,106.18
5-axle Low Bed Truck w/driver	1	ea	174.99	4	699.94
Water Truck w/driver	1	ea	133.20	40	5,328.18

Task 1 Total 124 34,735.33 say 34,700

**Task 2 Construct Drainage Structures**

Construct interceptor drain & install rip rap pads.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Interceptor Drain	2,300	LF	15.00	na	34,500.00
Rip Rap Pad	3	ea	1,000.00	na	3,000.00

Task 2 Total 37,500.00 say 37,500

**Task 3 Install Fencing**

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Install 4-strand barb wire fencing	7,200	LF	5.00	na	36,000.00

Task 3 Total 36,000.00 say 36,000

ATTACHMENT A

**Juniper Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0053**  
**3/24/2016**

**Task 4 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 (19 acres net total) by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	16	2,061.28
Laborer	2	ea	56.54	16	1,809.20
Water Truck w/driver	1	ea	133.20	16	2,131.27
Seed mix application	836,352	sf	0.058	na	48,508.42
Task 4 Total				48	54,510.17

say 54,500

**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	32	15,360.00
Task 4 Total					15,360.00

say 15,400

**SUBTOTAL 178,100**

**Pledge of Revenue**

<b>Subtotal</b>						<b>178,100</b>
<b>Supervision (5%)</b>						<b>8,905</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>21,372</b>
<b>Contingency (10%)</b>						<b>17,810</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>17,810</b>

**Total Pledge of Revenue 248,997**



**ATTACHMENT A**

**Little Lake Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0055**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 16
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient varying from 1.5/1 & 4:1, fill drainage basins, regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor.

Methods to be used: A CAT D-8 dozer will push material to create slopes varying from 1.5:1 and 4:1 in accordance with the reclamation plan. Stockpiles will be rough graded as needed. A water truck will be available for dust control.

Production Rate: 1 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator		ea	282.51	40	11,300.52
Low Bed Truck w/driver		ea	174.99	4	699.94
Water Truck w/driver		ea	133.20	40	5,328.18
<b>Task 1 Total</b>				<b>84</b>	<b>17,328.64</b>

say 17,300

**Task 2 Install Fencing**

	Qty	Unit	Rate	No. Hrs	Total
Install 4-strand barb wire fencing	4,800	LF	5.00	42	24,000.00
				40	24,000.00

say 24,000

**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 by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	1	ea	56.54	8	452.30
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	696,960	sf	0.058	na	40,423.68
<b>Task 3 Total</b>				<b>24</b>	<b>42,972.26</b>

say 43,000

ATTACHMENT A

**Little Lake Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0055**  
**3/24/2016**

**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	32	15,360.00
<b>Task 4 Total</b>					15,360.00

say 15,400

**SUBTOTAL 99,700**

**Pledge of Revenue**

<b>Subtotal</b>					<b>99,700</b>
<b>Supervision (5%)</b>					<b>4,985</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>					<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>					<b>11,964</b>
<b>Contingency (10%)</b>					<b>9,970</b>
<b>Lead Agency Administrative Cost (10%)</b>					<b>9,970</b>

**Total Bond Amount**

**141,589**

**ATTACHMENT A**

**Markham Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0054**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 37
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		Total
	Equipment	Labor	
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area using stockpiled topsoil & fill in existing drainage basins. Regrade and finish slopes to blend with surrounding area, including furrowing of slopes and ripping pit floor.

Methods to be used: A CAT D-8 dozer with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 6 acres of the expanded area of the pit. Slopes will be graded to 2:1 ratio.

Production Rate: 1 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	40	11,300.52
Motor Grader w/operator	1	ea	152.65	20	3,053.09
Low Bed Truck w/driver	1	ea	174.99	8	1,399.88
Water Truck w/driver	1	ea	133.20	40	5,328.18

Task 1 Total 108 21,081.67 say 21,100

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain & install rip rap.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Interceptor Drain	1,500	LF	15.00	na	22,500.00
Down Drain	60	LF	15.00	na	900.00
Rip Rap Pad	3	ea	1,000.00	na	3,000.00

Task 2 Total 26,400.00 say 26,400

ATTACHMENT A

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

3/24/2016

**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 (22 net acres total) by broadcasting with an automatic pressure sprayer. Area to be hydroseeded includes both new and old sections of pit.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	967,032	sf	0.058	na	56,087.86
Task 3 Total				24	59,088.73

say 59,100

**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	32	15,360.00
Task 4 Total					15,360.00

say 15,400

**SUBTOTAL 122,000**

**Pledge of Revenue**

Subtotal									<b>122,000</b>
Supervision (5%)									<b>6,100</b>
Mobilization & Demobilization (lump sum)									<b>5,000</b>
Profit & Overhead (12%)									<b>14,640</b>
Contingency (10%)									<b>12,200</b>
Lead Agency Administrative Cost (10%)									<b>12,200</b>

**Total Pledge of Revenue 172,140**

**ATTACHMENT A**

**Midland Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0051**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 57
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 4:1  
 Regrade and finish slopes to blend with surrounding area.

Methods to be used: A CAT D-8 dozer with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 15 acres.

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	40	11,300.52
Motor Grader w/operator	1	ea	152.65	20	3,053.09
Low Bed Truck w/driver	1	ea	174.99	8	1,399.88
Water Truck w/driver	1	ea	133.20	30	3,996.14

Task 1 Total 98 19,749.62 say 19,700

**Task 2 Broadcast Seeding**

Distribute native plant mix over finished slopes and mine floor. Seed mix will be dist of 30 pounds per acre by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	2,482,920	sf	0.049	na	121,663.08

Task 2 Total 24 124,663.96 say 124,700

**ATTACHMENT A**

**Midland Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0051**  
**3/24/2016**

**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	32	15,360.00
Task 3 Total					15,360.00

say 15,400

**SUBTOTAL 159,800**

**Pledge of Revenue**

<b>Subtotal</b>						<b>159,800</b>
<b>Supervision (5%)</b>						<b>7,990</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>19,176</b>
<b>Contingency (10%)</b>						<b>15,980</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>15,980</b>

**Total Pledge of Revenue 223,926**

**ATTACHMENT A**

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

**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 7
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour area to a gradient no steeper than 2:1 & and finish slopes to blend with surrounding area.

Methods to be used: A CAT D-8 dozer will push material to create 2:1 slopes on any oversteepened slopes, and stockpiles will be rough graded as needed. A water truck will be available for dust control.

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	8	2,260.10
Low Bed Truck w/driver	1	ea	174.99	4	699.94
Water Truck w/driver	1	ea	133.20	8	1,065.64

Task 1 Total 20 4,025.68

say 4,000

**Task 2 Construct Drainage Structures**

Construct interceptor drain & install rip rap pads.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Interceptor Drain	1,500	LF	15.00	42	22,500.00
Rip Rap Pad	2	ea	1,000.00	40	2,000.00

Task 2 Total 82 24,500.00

say 24,500

**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 by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Water Truck w/driver	1	ea	133.20	8	1,065.64
Seed mix application	304,920	sf	0.058	na	17,685.36

Task 3 Total 24 20,686.24

say 20,700

ATTACHMENT A

**Mountain View Road Material Site Financial Assurance Calculations for Reclamation**

California Mine I.D Number 91-33-0048

3/24/2016

**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	11,520.00	
Task 4 Total					11,520.00	say <u>11,500</u>

**SUBTOTAL 60,700**

**Pledge of Revenue**

<b>Subtotal</b>						<b>60,700</b>
<b>Supervision (5%)</b>						<b>3,035</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>						<b>7,284</b>
<b>Contingency (10%)</b>						<b>6,070</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>6,070</b>
<b>Total Pledge of Revenue</b>						<b><u>88,159</u></b>



ATTACHMENT A

**Terwilliger Road Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0047**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 9
- 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 for 2016.
- 6) Production rates were obtained from the Caterpillar Performance Handbook (Edition 42)

Unit Costs for Labor & Equipment & Materials	Hourly Rate		
	Equipment	Labor	Total
D-8R Dozer w/operator	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.058

**I. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Regrade and recontour slopes to a gradient between 1.5:1 and 2:1, regrade and finish slopes, fill drainage basin, furrowing slopes and ripping pit floor.

Methods to be used: A CAT D-8 dozer with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 9 acres.

Slopes will be graded to between 1.5:1 and 2:1 in accordance with the reclamation plan.

Production Rate: 1 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	1	ea	282.51	30	8,475.39
Motor Grader w/operator	1	ea	152.65	30	4,579.63
Low Bed Truck w/driver	1	ea	174.99	4	699.94
Water Truck w/driver	1	ea	133.20	30	3,996.14

Task 1 Total 94 17,751.10 say 17,800

**Task 2 Construct Drainage Structures**

Construct interceptor drain, down drain & install rip rap.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Interceptor Drain	200	LF	15.00	na	3,000.00
Down Drain	10	LF	15.00	na	150.00
Rip Rap Pad	1	ea	1,000.00	na	1,000.00

Task 2 Total 4,150.00 say 4,200

ATTACHMENT A

**Terwilliger Road Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0047**  
**3/24/2016**

**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 by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total		
Foreman	1	ea	128.83	2	257.66		
Laborer	2	ea	56.54	4	452.30		
Water Truck w/driver	1	ea	133.20	4	532.82		
Seed mix application	392,040	sf	0.058	na	22,738.32		
Task 3 Total	0			10	23,981.10	say	24,000

**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	32	15,360.00		
Task 4 Total					15,360.00	say	<u>15,400</u>

**SUBTOTAL 61,400**

**Pledge of Revenue**

<b>Subtotal</b>							<b>61,400</b>
<b>Supervision (5%)</b>							<b>3,070</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>							<b>5,000</b>
<b>Profit &amp; Overhead (12%)</b>							<b>7,368</b>
<b>Contingency (10%)</b>							<b>6,140</b>
<b>Lead Agency Administrative Cost (10%)</b>							<b>6,140</b>
<b>Total Pledge of Revenue</b>							<b><u>89,118</u></b>

ATTACHMENT A

**New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0090**  
**3/24/2016**

This cost estimate is based on the following assumptions:

- 1) The existing amount of disturbance (acres) = 32
- 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 for 2016.
- 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	206.67	75.85	282.51
Water Truck w/driver	72.24	60.96	133.20
Motor Grader w/operator	76.36	76.29	152.65
Low Bed Truck w/driver	113.21	61.78	174.99
Foreman		128.83	128.83
Laborer		56.54	56.54
Seed Mix @ \$/sf			0.080

**II. Reclamation Tasks**

**Task 1 Regrade & Finish Slopes**

Task description: Regrade and recontour slopes to a gradient no steeper than 4:1. Grade pit floor to 2% grade.

Methods to be used: Two (2) CAT D-8 dozers with a ripper attachment will traverse the compacted areas to promote plant growth. A dozer and grader will grade available soil over the 32 acres.

Production Rate: 2 acres/hour

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
D-8R Dozer w/operator	2	ea	282.51	42	23,731.08
Motor Grader w/operator	1	ea	152.65	40	6,106.18
Low Bed Truck w/driver	1	ea	174.99	8	1,399.88
Water Truck w/driver	1	ea	133.20	40	5,328.18

Task 1 Total 130 36,565.33 say 36,600

**Task 2 Remove Structure in Compound Area**

Disassemble wooden building within compound area.

Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total
Foreman	1	ea	128.83	8	1,030.64
Laborer	2	ea	56.54	8	904.60
Remove Concrete Foundation	1	ea	2,500.00	na	2,500.00

Task 2 Total 4,435.24 say 4,400

ATTACHMENT A

**New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation**  
**California Mine I.D Number 91-33-0090**  
**3/24/2016**

**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 by broadcasting with an automatic pressure sprayer.

Labor & Equipment	Qty	Unit	Rate	Hrs	Total	
Foreman	1	ea	128.83	8	1,030.64	
Laborer	2	ea	56.54	8	904.60	
Water Truck w/driver	1	ea	133.20	8	1,065.64	
Seed mix application	1,393,920	sf	0.080	na	111,513.60	
Task 4 Total	0			24	114,514.48	say 114,500

**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	
Report Preparation	4	years	120.00	32	15,360.00	
Task 5 Total					15,360.00	say <u>15,400</u>

**SUBTOTAL 170,900**

**Pledge of Revenue**

<b>Subtotal</b>						<b>170,900</b>
<b>Supervision (5%)</b>						<b>8,545</b>
<b>Mobilization &amp; Demobilization (lump sum)</b>						<b>5,000</b>
<b>Profit &amp; Overhead (included in Hrly rates for Labor &amp; Equipment)</b>						<b>20,508</b>
<b>Contingency (10%)</b>						<b>17,090</b>
<b>Lead Agency Administrative Cost (10%)</b>						<b>17,090</b>

**Total Pledge of Revenue 239,133**