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



FROM: TLMA - Transportation Department

**SUBMITTAL DATE:** March 12, 2013

SUBJECT:

Modification of Financial Assurance Mechanism Required by the Surface Mining

and Reclamation Act (SMARA).

**RECOMMENDED MOTION:** That the Board of Supervisors approve Resolution 2013-070, 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

Juan C. Perez

Director of Transportation and Land Management

JCP:

Departmental Concurrence

(Continued On Attached Page)

	FINIANICIAL	Current F.Y. Total Cost:	\$ 0	In Current Year Bud	get: N	/Α
	FINANCIAL DATA	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment	N.	/A
		Annual Net County Cost:	\$ 0	For Fiscal Year:	2012/201	3
	SOURCE OF FL	INDS: Road Funds (100%)			Positions To Be	-

**Deleted Per A-30** Requires 4/5 Vote

There are no General Funds used in this project.

C.E.O. RECOMMENDATION:

APPROVE

**County Executive Office Signature** 

 $\boxtimes$ 

Dep't Recomm.: ofc:: Per Exec.

Prev. Agn. Ref. 3.35 of 6/26/12

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

Agenda Number:

The Honorable Board of Supervisors

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

March 12, 2013 Page 2 of 2

(PRC2773.1(a)(3).

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

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 \$1,021,625 to \$1,073,250. The actual reclamation cost for each mining site or borrow pit is shown on Attachment A. Resolution 2013-070 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 and Resolution 2012-142. 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

## **Board of Supervisors**

## County of Riverside

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## **RESOLUTION NO. 2013-070**

## AMENDING RESOLUTION NO. 97-261

## ESTABLISHING A PLEDGE OF REVENUE

## FOR RECLAMATION OF COUNTY MINED LANDS

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

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

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

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

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

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

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

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

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

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

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.

1	NOW THEREFORE, BE IT RESOLVED, FOUND, DETERMINED AND
2	<b>ORDERED</b> by the Board of Supervisors of the County of Riverside, State of California,
3	in regular session assembled on, 2013, 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
7	Department Fund 20000, Department ID 3130100000 in the amount of
8	\$1,073,250.00 is hereby pledged to reclaim each mine site identified in
9	Attachment A, dated March 11, 2013, which is incorporated herein by this
10	reference.
11	
12	2. Attachment A to Resolution No 97-261 is hereby replaced by said
13	Attachment A, dated March 11, 2013, which is attached and incorporated herein
14	by this reference.
15	

# County Mining Sites Transportation Department March 11, 2013

Name	California Mine I.D Number	Reclamation Cost Estimates
Bradshaw Pit	91-33-0046	\$59,375.00
Brookside Materials Yard	91-33-0094	\$348,250.00
Bundy Canyon Pit	91-33-0049	\$118,250.00
East Benton Pit	91-33-0052	\$40,125.00
Juniper Flats Pit	91-33-0053	\$84,500.00
Little Lake Pit	91-33-0055	\$56,125.00
Markham Pit	91-33-0054	\$141,000.00
Midland Pit	91-33-0051	\$91,750.00
Mountain View Pit	91-33-0048	\$35,625.00
Terwilliger Pit	91-33-0047	\$39,500.00
Thermal Pit	91-33-0090	\$58,750.00
	TOTAL	\$1,073,250.00

## Bradshaw Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0046 3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (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) 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	214.11	70.14	284.25		
Water Truck w/driver	86.55	56.82	143.37		
CAT 120G Grader w/operator	78.68	70.14	148.82		
5-axle Low Bed Truck & Trailer w/driver	116.02	57.64	173.66		
Foreman		108.66	108,66		
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---->>>>

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	9	2,558
Motor Grader w/operator	1	ea	148.82	9	1,339
Low Bed Truck w/driver	1	ea	173.66	8	1,389
Water Truck w/driver	1	ea	143.37	9	1,290
Task 1 Total				35	6,577

<u>Task 2 Broadcast Seeding</u>
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 ---->>>>

Labor & Equipment	Qty	Unit	Rate	Hrs	Total		
Foreman	1	ea	108.66	8	869		
Laborer	2	ea	51.90	20	2,076		
Water Truck w/driver	1	ea	143.37	20	2,867		
Seed mix application	435,600	sf	0.045 _	na	19,602		
Task 4 Total	0		-	48	25,415	say	25,40

35

6,600

59,375

say

**Total Bond Amount** 

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.

J		,			•			
Labor & Equipment Report Preparation Task 5 Total	Qty 4	Unit years	Rate 120.00	No. Hrs 24_	Total 11,520 11,520	say1	1,500	
SUBTOTAL						43	,500	
Bond Amount								
Subtotal						43	,500	
Supervision (5%)						2	2,175	
Mobilization & Demobili		5	,000					
Profit & Overhead (included in Hrly rates for Labor & Equipment)								
Contingency (10%)						4	,350	
Lead Agency Administra	ative Cost	(10%)				4	,350	

## Brookside Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0094 3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) =
- 29.8
- 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)

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	214.11	70.14	284.25		
963 Loader w/operator	137.45	70.14	207.59		
Water Truck w/driver	86.55	56.82	143.37		
Low Bed Truck w/driver	116.02	57.64	173.66		
3-axle End Dump Truck w/driver	76.39	56.82	133,21		
Truck mounted crane w/operator	97.77	70.14	167.91		
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	284.25	343	97,354		
Water Truck w/driver		1	ea	143.37	171	24,551		
Task 1 Total						121,906	say	121,900

## 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

#### 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.

Foreman 1 ea 108.66 40	4,346
Foreman 1 ea 108.66 40	1,010
Laborer 2 ea 51.90 40	4,152
966 Loader w/operator 1 ea 207.59 40	8,303
Truck mounted crane w/operator 1 ea 167.91 40	6,716
Low Bed Truck w/driver 0 ea 173.66 24	0
3-axle End Dump Truck w/driver 1 ea 133.21 24_	3,197
Task 3 Total	26,716

26,700

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

<u>Task 4 Broadcast Seeding</u>
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	108.66	24	2,608		
Laborer	2	ea	51.90	40	4,152		
Water Truck w/driver	1	ea	143.37	24	3,441		
Seed mix application	1,298,524	sf	0.045	na_	58,434		
Task 4 Total				_	68,634	say	68,600

## 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.

for three years following reclamation to	verify the su	ccess stand	ards are bein	g met.			
Labor & Equipment Report Preparation Task 5 Total	Qty 3	Unit years	Rate 120.00	No. Hrs 24	Total 8,640 8,640	say	8,600
SUBTOTAL						2	74,600
Bond Amount							
Subtotal						2	74,600
Supervision (5%)							13,730
Mobilization & Demobilization	(lump sum	1)					5,000
Profit & Overhead (included in	Hrly rates	for Labor	r & Equipn	nent)			
Contingency (10%)							27,460
Lead Agency Administrative C	ost (10%)					;	27,460
Total Bond Amount							48,250

#### Bundy Canyon Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0049 3/11/2013

58

11,100

68,000

say

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	214.11	70_14	284.25	
Water Truck w/operator	86.55	56.82	143.37	
Motor Grader w/operator	78.68	70.14	148.82	
Low Bed Truck w/driver	116.02	57.64	173.66	
Foreman		108.66	108.66	
Laborer		51.90	51.90	
Seed Mix @ \$35/lb			35.00	

#### II. Reclamation Tasks

<u>Task 1 Regrade & Finish Slopes</u> 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---->>>>

No. Man Labor & Equipment Unit Rate 18 D-8R Dozer w/operator ea 284.25 5,116 148 82 Motor Grader w/operator ea 18 2.679 173.66 695 Low Bed Truck w/driver ea Water Truck w/operator 143.37 2.581 ea 18 Task 1 Total 58 11.070

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 ---->>>

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
Foreman	1	ea	108.66	4	435
Laborer	2	ea	51.90	9	934
Water Truck w/operator	1	ea	143.37	9	1,290
Seed mix application	1,452,000	sf	0.045 _	na	65,340
Task 4 Total	0		_	22	67.999

#### Task 3 Monitoring

Labor P. Carriamant

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		Offit	Rate	NO. ITIS	I Otal	
Report Preparation		4	years	120.00	24	11,520	
Task 5 Total						11,520	say <u>11,500</u>
SUBTOTAL							90,600

#### **Bond Amount**

Subtotal	90,600
Supervision (5%)	4,530

Mobilization & Demobilization (lump sum) 5,000

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

9.060 Contingency (10%)

9,060 Lead Agency Administrative Cost (10%)

**Total Bond Amount** 118,250

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

3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (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) 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)

	Н	Hourly Rate			
	Equipment	Labor	Total		
D-8R Dozer w/operator	214.11	70.14	284.25		
Water Truck w/driver	86.55	56.82	143,37		
Motor Grader w/operator	78.68	70.14	148,82		
Low Bed Truck w/driver	116.02	57.64	173.66		
Foreman		108.66	108.66		
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

5.900

10,700

sav

Labor & Equipment				No. Man	
	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	9	2,558
Motor Grader w/operator	1	ea	148.82	9	1,339
Low Bed Truck w/driver	1	ea	173.66	4	695
Water Truck w/driver	1	ea	143.37	9	1,290
Task 1 Total				31	5,883

<u>Task 2 Broadcast Seeding</u>
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 ---->>>>

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
Foreman	1	ea	108.66	8	869
Laborer	2	ea	51.90	8	830
Water Truck w/driver	1	ea	143.37	8	1,147
Seed mix application	174,240	sf	0.045	na	7,841
Task 4 Total			-	24	10,687

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 Task 5 Total	4	years	120.00	24_	11,520 11,520	say11,500
SUBTOTAL						28,100
Bond Amount						
Subtotal						28,100
Supervision (5%)						1,405
Mobilization & Demobili	zation (lum	p sum)				5,000
Profit & Overhead (inclu	ded in Hrty	rates for	Labor & E	quipment)		
Contingency (10%)	Se					2,810
Lead Agency Administra	ative Cost (	10%)				2,810
Total Bond Amount						40,125

## 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) =

- 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	214.11	70.14	284.25	
Water Truck w/driver	86.55	56.82	143.37	
Motor Grader w/operator	78.68	70.14	148.82	
Low Bed Truck w/driver	116.02	57.64	173.66	
Foreman		108,66	108.66	
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---->>>>

			No. Man			
Labor & Equipment	Qty	Unit	Rate	Hrs	Total	
D-8R Dozer w/operator	1	ea	284.25	20	5,685	
Motor Grader w/operator	1	ea	148.82	10	1,488	
Low Bed Truck w/driver		ea	173.66	8	1,389	
Water Truck w/driver	1	ea	143.37	10	1,434	
Tack 1 Total				//8	900 0	

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

10,000

42,100

sav

		No. Man					
Labor & Equipment	Qty	Unit	Rate	Hrs	Total		
Foreman	1	ea	108.66	8	869		
Laborer	2	ea	51.90	8	830		
Water Truck w/driver	1	ea	143.37	8	1,147		
Seed mix application	871,200	sf	0.045	na	39,204		
Task 4 Total	0			24	42,051		

#### 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 Report Preparation   4   years   120.00   24   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520   11,520							
SUBTOTAL 63,600  Bond Amount  Subtotal 63,600  Supervision (5%) 3,180  Mobilization & Demobilization (lump sum) 5,000  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%)	Labor & Equipment	Qty	Unit	Rate	No. Hrs	Total	
SUBTOTAL 63,600  Bond Amount  Subtotal 63,600  Supervision (5%) 3,180  Mobilization & Demobilization (lump sum) 5,000  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360		4	years	120.00	24_		
Bond Amount  Subtotal 63,600  Supervision (5%) 3,180  Mobilization & Demobilization (lump sum) 5,000  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	Task 5 Total					11,520	say11,500
Bond Amount  Subtotal 63,600  Supervision (5%) 3,180  Mobilization & Demobilization (lump sum) 5,000  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	OUDTOTAL						
Subtotal 63,600  Supervision (5%) 3,180  Mobilization & Demobilization (lump sum) 5,000  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	SUBTOTAL						63,600
Subtotal 63,600 Supervision (5%) 3,180 Mobilization & Demobilization (lump sum) 5,000 Profit & Overhead (included in Hrly rates for Labor & Equipment) Contingency (10%) 6,360 Lead Agency Administrative Cost (10%) 6,360							
Supervision (5%)  Mobilization & Demobilization (lump sum)  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%)  Lead Agency Administrative Cost (10%)  3,180  5,000  6,360	Bond Amount						
Supervision (5%)  Mobilization & Demobilization (lump sum)  Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%)  Lead Agency Administrative Cost (10%)  3,180  5,000  6,360							
Mobilization & Demobilization (lump sum) 5,000 Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	Subtotal						63,600
Mobilization & Demobilization (lump sum) 5,000 Profit & Overhead (included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360							
Profit & Overhead (Included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	Supervision (5%)						3,180
Profit & Overhead (Included in Hrly rates for Labor & Equipment)  Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360							
Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360	Mobilization & Demobil	ization (lum	p sum)				5,000
Contingency (10%) 6,360  Lead Agency Administrative Cost (10%) 6,360							
Lead Agency Administrative Cost (10%) 6,360	Profit & Overhead (incl	uded in Hrly	rates for	Labor & E	quipment)		
Lead Agency Administrative Cost (10%) 6,360							
	Contingency (10%)						6,360
Total Bond Amount 84,500	Lead Agency Administr	ative Cost (	10%)				6,360
Total Bond Amount 84,500							
	Total Bond Amount						84,500

#### Little Lake Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0055 3/11/2013

This cost estimate is based on the following assumptions:

1) The maximum amount of disturbance (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) 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)

	H	Hourly Rate				
	Equipment	Labor	Total			
D-8R Dozer w/operator	214.11	70.14	284.25			
Water Truck w/driver	86.55	56.82	143.37			
Motor Grader w/operator	78.68	70.14	148,82			
Low Bed Truck w/driver	116.02	57.64	173,66			
Foreman		108.66	108.66			
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

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	25	7,106
Motor Grader w/operator	1	ea	148.82	25	3,721
Low Bed Truck w/driver	1	ea	173.66	4	695
Water Truck w/driver	1	ea	143.37	25	3,584
Task 1 Total			_	79	15,105

#### 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

15,100

14,300

56,125

say

sav

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
Foreman	1	ea	108.66	4	435
Laborer	2	ea	51.90	18	1,868
Water Truck w/driver	1	ea	143.37	15	2,150
Seed mix application	217,800	sf	0.045	na	9,801
Task 4 Total	0			37	14,255

**Total Bond Amount** 

<u>Task 3 Monitoring</u>
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						40,900		
Bond Amount								
Subtotal						40,900		
Cupanisian (EN)						2.045		
Supervision (5%)						2,045		
Mobilization & Demobilization	zation (lun	np sum)				5,000		
Profit & Overhead (included in Hrly rates for Labor & Equipment)								
Contingency (10%)						4,090		
Lead Agency Administra	tive Cost	(10%)				4,090		
		/				,,,,,		

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

3/11/2013

This cost estimate is based on the following assumptions:

- The maximum amount of disturbance (acres) = 11.8
   Slopes will be recontoured and graded to blend with the surrounding area.
   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)

	Н	Hourly Rate				
	Equipment	Labor	Total			
D-8R Dozer w/operator	214.11	70.14	284.25			
Water Truck w/driver	86.55	56.82	143.37			
Motor Grader w/operator	78.68	70.14	148.82			
Low Bed Truck w/driver	116.02	57.64	173.66			
Foreman		108.66	108.66			
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

50,800

say

				No. Man	
Labor & Equipment	Qly	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	2	ea	284.25	120	34,110
Motor Grader w/operator	1	ea	148.82	40	5,953
Low Bed Truck w/driver	1	ea	173.66	8	1,389
Water Truck w/driver	1	ea	143.37	65	9,319
Task 1 Total				233	50,770

<u>Task 2 Construct Drainage Structures</u> Construct interceptor drain, down drain & install rip rap.

				No. Mar	1		
Labor & Equipment	Qty	Unit	Rate	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

				No. Man			
Labor & Equipment	Qty	Unit	Rate	Hrs	Total		
Foreman	1	ea	108.66	24	2,608		
Laborer	2	ea	51.90	36	3,737		
Water Truck w/driver	1	ea	143.37	24	3,441		
Seed mix application	514,008	sf	0.045	na	23,130		
Task 4 Total			_	84	32,916	say	32,900
	0					-	

<u>Task 4 Monitoring</u>
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. 11.0

Labor & Equipment	Qty		Unit	Rate	No. Hrs	Total	
Report Preparation Task 5 Total		4	years	120.00	24_	11,520 11,520	say11,500
SUBTOTAL							108,800

Bond Amount	
Subtotal	108,800
Supervision (5%)	5,440
Mobilization & Demobilization (lump sum)	5,000
Profit & Overhead (included in Hrly rates for Labor & Equipment)	
Contingency (10%)	10,880
Lead Agency Administrative Cost (10%)	10,880
Total Bond Amount	141,000

#### Midland Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0051 3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (acres) =
- Slopes will be recontoured and graded to blend with the surrounding area.
   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	214.11	70,14	284.25		
Water Truck w/driver	86.55	56.82	143.37		
Motor Grader w/operator	78.68	70.14	148.82		
Low Bed Truck w/driver	116.02	57.64	173.66		
Foreman		108.66	108.66		
Laborer		51.90	51.90		
Seed Mix @ \$35/lb			35,00		

#### II. Reclamation Tasks

<u>Task 1 Regrade & Finish Slopes</u>
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--->>>>

14,300

say

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	27	7,675
Motor Grader w/operator	1	ea	148,82	9	1,339
Low Bed Truck w/driver	1	ea	173.66	8	1,389
Water Truck w/driver	1	ea	143.37	27	3,871
Task 1 Total			_	71	14,274

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 --->>>>

				No. Man			
Labor & Equipment	Qty	Unit	Rate	Hrs	Total		
Foreman	1	ea	108.66	8	869		
Laborer	2	ea	51.90	8	830		
Water Truck w/driver	1	ea	143.37	8	1,147		
Seed mix application	906,048	sf	0.045	na	40,772		
Task 4 Total				24	43,619	say	43,600

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 Task 5 Total	4	years	120.00	24_	11,520 11,520	say11,500
					11,020	3uy11,000
SUBTOTAL						69,400
Bond Amount						
Subtotal						69,400
Supervision (5%)						3,470
Mobilization & Demobil	5,000					
Profit & Overhead (incl	uded in Hrly	rates for	Labor & I	Equipment)	•	
Contingency (10%)						6,940
Lead Agency Administr	ative Cost (	10%)				6,940
Total Bond Amount						91,750

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

3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (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) 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	214.11	70,14	284.25	
Water Truck w/driver	86.55	56,82	143.37	
Motor Grader w/operator	78,68	70.14	148.82	
Low Bed Truck w/driver	116,02	57.64	173,66	
Foreman		108,66	108,66	
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

			No. Man					
Labor & Equipment	Qty	Unit	Rate	Hrs	Total			
D-8R Dozer w/operator	1	ea	284,25	9	2,558			
Motor Grader w/operator	1	ea	148,82	9	1,339			
Low Bed Truck w/driver	- 1	ea	173,66	4	695			
Water Truck w/driver	1	ea	143.37	9	1,290			
Task 1 Total				31	5.883			

5,900

## 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.

Mix seed into soil by dragging a chain over the area. Estimated manhours ---->>>>

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
Foreman	1	ea	108.66	2	217
Laborer	2	ea	51.90	4	415
Water Truck w/driver	1	ea	143.37	4	573
Seed mix application	130,680	sf	0.045	na	5,881
Task 4 Total				10	7,087
	0				

7.100 say

<u>Task 3 Monitoring</u>
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 Report Preparation Task 5 Total	Qty 4	Unit years	Rate 120,00	No. Hrs 24	Total 11,520 11,520	say11,500
SUBTOTAL						24,500
<b>Bond Amount</b>						
Subtotal						24,500
Supervision (5%)						1,225
Mobilization & Demobili	ization (lum	p sum)				5,000
Profit & Overhead (inclu	ıded in Hrly	rates for	Labor & E	quipment)		
Contingency (10%)						2,450
Lead Agency Administra	ative Cost (	10%)				2,450
Total Bond Amount						35,625

#### Terwilliger Road Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0047 3/11/2013

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (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) 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)

10

#### 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	214.11	70.14	284,25		
Water Truck w/driver	86.55	56.82	143.37		
Motor Grader w/operator	78.68	70.14	148.82		
Low Bed Truck w/driver	116.02	57.64	173.66		
Foreman		108,66	108,66		
Laborer		51.90	51.90		
Seed Mix @ \$35/lb			35,00		

#### II. Reclamation Tasks

<u>Task 1 Regrade & Finish Slopes</u>
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

5,100

11,000

sav

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	9	2,558
Motor Grader w/operator	1	ea	148.82	4	595
Low Bed Truck w/driver	1	ea	173.66	4	695
Water Truck w/driver	1	ea	143.37	9	1,290
Task 1 Total				26	5,138

#### 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 ---->>>>

				No. Man	
Labor & Equipment	Qty	Unit	Rate	Hrs	Total
Foreman	1	ea	108.66	2	217
Laborer	2	ea	51.90	4	415
Water Truck w/driver	11	ea	143.37	4	573
Seed mix application	217,800	sf	0.045	na	9,801
Task 4 Total	0		72	10	11.007

<u>Task 3 Monitoring</u>
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 Report Preparation Task 5 Total	Qty 4	Unit years	Rate 120,00	No. Hrs 24_	Total 11,520 11,520	say <u>11,500</u>
SUBTOTAL						27,600
Bond Amount						
Subtotal						27,600
Supervision (5%)						1,380
Mobilization & Demobili	ization (lum	p sum)				5,000
Profit & Overhead (inclu	aded in Hrly	rates for	Labor & E	Equipment)		
Contingency (10%)						2,760
Lead Agency Administr	ative Cost (	10%)				2,760
Total Bond Amount						39,500

#### New Thermal Canyon Material Site Financial Assurance Calculations for Reclamation California Mine I.D Number 91-33-0090 3/11/2013

80

15,600

15.900

sav

This cost estimate is based on the following assumptions:

- 1) The maximum amount of disturbance (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) 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)

	H	Hourly Rate			
	Equipment	Labor	Total		
D-8R Dozer w/operator	214.11	70.14	284.25		
Water Truck w/driver	86.55	56.82	143.37		
Motor Grader w/operator	78.68	70.14	148.82		
Low Bed Truck w/driver	116.02	57.64	173.66		
Foreman		108,66	108.66		
Laborer		51.90	51.90		
Seed Mix @ \$35/lb			35.00		

#### II. Reclamation Tasks

<u>Task 1 Regrade & Finish Slopes</u>
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---->>>>

Labor & Equipment	Qty	Unit	Rate	Hrs	Total
D-8R Dozer w/operator	1	ea	284.25	27	7,675
Motor Grader w/operator	1	ea	148.82	18	2,679
Low Bed Truck w/driver	1	ea	173.66	8	1,389
Water Truck w/driver	- 1	ea	143,37	27	3,871
Task 1 Total			-	80	15,614

#### 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 ---->>>>

	No. Man						
Labor & Equipment	Qty	Unit	Rate	Hrs	Total		
Foreman	1	ea	108.66	В	869		
Laborer	2	ea	51.90	8	830		
Water Truck w/driver	1	ea	143.37	8	1,147		
Seed mix application	290,400	sf	0.045	na	13,068		
Task 4 Total	0		-	24	15,915		

<u>Task 3 Monitoring</u>
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 Task 5 Total	4	years	120.00	24_	11,520 11,520	say11,500		
SUBTOTAL						43,000		
Bond Amount								
Subtotal						43,000		
Supervision (5%)						2,150		
Mobilization & Demobiliz	5,000							
Profit & Overhead (included in Hrly rates for Labor & Equipment)								
Contingency (10%)						4,300		
Lead Agency Administra	tive Cost (	10%)				4,300		
Total Bond Amount						58,750		