

2009 SMARA MINE INSPECTION
Somerset Sand Mine
CA Mine ID No. 91-09-0009
El Dorado County, California
October 22, 2009



Prepared for:
State Mining and Geology Board
801 K Street, Suite 2015
Sacramento, California 95814





STATE MINING AND GEOLOGY BOARD

DEPARTMENT OF CONSERVATION

801 K Street • Suite 2015 • Sacramento, California 95814



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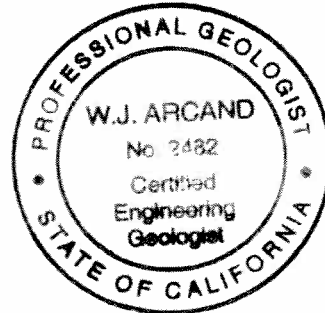
2009 SMARA MINE INSPECTION Somerset Sand Mine CA Mine ID No. 91-09-0009 El Dorado County, California October 22, 2009

Prepared by:

 11/2/09

Will J. Arcand
CEG No. 2482

Date



NOTE: Inquiries regarding the preparation and contents of this report should be made directly to the State Mining and Geology Board.

**2009 SMARA Mine Inspection
Somerset Sand Mine
CA Mine ID No. 91-09-0009
El Dorado County, California**

TABLE OF CONTENTS

Section	Description	Page No.
1.0	Mine Description	1
2.0	Background	2
3.0	Reclamation Objective	2
4.0	Observations	2
5.0	Disturbed Area	4
6.0	Reclaimed Areas	4
7.0	Financial Assurance	4
8.0	Violations / Corrective Measures	4
9.0	References	4

List of Figures

Figure 1	Site Location Map
Figure 2	Site Layout Map

List of Attachments

Attachment A	2008 Mining Operation Annual Report
Attachment B	2009 Surface Mining Inspection Report
Attachment C	Annotated Site Photographs

**STATE MINING AND GEOLOGY BOARD**

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November 2, 2009

State Mining & Geology Board
801 K Street, Suite 2015
Sacramento, California 95814Subject: 2009 SMARA Mine Inspection
Somerset Sand Mine
CA Mine ID No. 91-09-0009
El Dorado County, California

Presented herein is the 2009 Surface Mining and Reclamation Act (SMARA) Mine Inspection report for the Somerset Sand Mine (CA ID #91-09-0009) located in Somerset, El Dorado County, California. SMARA requires that each surface mining operation in the State undergo a physical site inspection at least once each calendar year (Public Resources Code (PRC) Section 2774(b)). These inspections are performed to determine whether the surface mining operation is in compliance with SMARA.

The 2009 SMARA inspection was performed by Mr. Will Arcand, Senior Engineering Geologist with the State Mining and Geology Board (SMGB) on October 22, 2009. Mr. Don Spear, Highway Superintendent for El Dorado County Department of Transportation (EDCDOT), accompanied Mr. Arcand during the inspection.

The scope of work included review of files maintained by the Office of Mine Reclamation (OMR) and the SMGB, and other pertinent documents, conduct of an on-site inspection, preparation of the mine inspection report contained herein, and subsequent presentation of salient points to the SMGB at a public meeting. The 2008 Mining Operation Annual Report as submitted by the operator is provided in Attachment A. The 2009 Surface Mining Inspection Report as prepared by the inspector is provided in Attachment B. Annotated site photographs are provided in Attachment C.

1.0 MINE DESCRIPTION

The Somerset Sand Mine site is used by the EDCDOT to extract decomposed granitic sand. The extraction portion of the operation is seasonal (August to December), with processed material used each year for snow and ice control on county roads, and for emergency services by the Office of Emergency Services for sand bags and flood hazard control. The material is ripped by a dozer and pushed down the east-northeast-facing hillside, processed on site and stockpiled, and then loaded into dump trucks for distribution as needed. The mine area includes a maintenance/storage building, equipment maintenance and staging area, sediment retention

structures, stockpiled sand product and imported material for blending, imported topsoil/overburden stockpile in the southwestern portion of the site, and a revegetation test plot (Photograph Nos. 1 through 5, 9 and 12). The site entrance is immediately east of Sand Ridge Road (Photograph Nos. 2 and 6).

The working face includes south, west, and northwest-facing cut slopes situated in the central portion of the property (Photograph Nos. 3 and 7 through 10). A site location map and site layout map are presented in Figures 1 and 2, respectively.

2.0 BACKGROUND INFORMATION

A chronology of pertinent events and actions is as follows:

1994	Draft Reclamation Plan submitted by EDCDOT
September 1997	Reclamation Plan submitted to El Dorado County
May 14, 1998	Reclamation Plan #94-01 and Financial Assurance approved by El Dorado County
October 8, 2009	Revised Financial Assurance cost estimate approved by SMGB

3.0 RECLAMATION OBJECTIVE

The site is designated to be reclaimed for low-density residential use with a lot pad ready for construction.

4.0 OBSERVATIONS

Mining activities were not occurring at time of inspection, although processed material (primarily granitic sand) had recently been stockpiled on site (Photograph Nos. 1, 3, and 4).

Slope Stability: The Reclamation Plan (page 21) states *"In the event the shrinkage cracks along the upper ridge expand, the cracks are to be sealed to prevent rainfall in filtration."* The Reclamation Plan (page 21) also states *"During the first 20 years of mining the slopes are to be cut at a maximum of 2H:1V."* The Reclamation Plan (page 21) also states *"Each spring after the rainy season, an annual review of slope stability is to be conducted by a registered geologist or engineer to determine whether remedial action is necessary."*

Cut slopes range from about 3H:1V to slightly steeper than 1H:1V on the southeastern portion of the working face, where more resistant rock is exposed (Photograph Nos. 7 through 10). Youngdahl Consulting Group, Inc. has been retained by EDCDOT to perform annual reviews of slope stability for the site. No evidence of active slope instability has been noted in the past several years, including during the most recent review which was conducted on October 15, 2008. No signs of slope instability were noted at time of inspection.

Very few small gullies and rills were noted on the mine extraction slopes at time of inspection (Photograph Nos. 3 and 7 through 10). Such erosional features measured up to six inches deep, up to eight inches wide, and up to 20 feet long. Upper portions of erosional features noted in previous years that were not disturbed during the past year exhibited the onset on natural revegetation by grasses, and sandy material mobilized from these features is contained on the quarry floor.

Sediment Retention Pond: The Reclamation Plan (page 24) states that *"The detention pond used during the mining operation is to be surrounded by a berm of stockpiled soil, ditching material, excavated decomposed granite, and the unmined hillside. The base elevation of the detention pond is equal to that of the adjacent mined area. That is, no hole is to be excavated for a pond."* At time of inspection, the sediment retention area was graded to be slightly lower in elevation than the surrounding yard, with its western edge defined by a berm constructed with straw bales (Photograph Nos. 3, 5, and 7). Such configuration is deemed adequate, as it is reconstructed every year and is regularly monitored during the rainy season.

Material Stockpiles: No designated topsoil stockpiles were noted on site at time of inspection. Soil and overburden stockpiles, which include imported soil and ditch cleanout material, and small stockpiles of imported aggregate material, are situated in the western portions of the quarry area (Photograph Nos. 1 through 5, 9, 11 and 12). A large fill slope composed of imported soil material and overburden occupies the south-central portion of the quarry property, and exhibits slopes with gradients ranging from 1H:1V to 3H:1V (Photograph Nos. 2 through 5, 9, 11, and 12). The imported soil slopes are heavily vegetated with grasses, with exception to lifts of material that had been recently placed which was covered with straw and chipped vegetative mulch at time of inspection (Photograph Nos. 3, 5, and 9). No indication of potential slope instability was observed on existing material stockpiles or the imported soil slopes at time of inspection.

Winterizing Activities: The Reclamation Plan (page 21) states that *"By October 15 of each year temporary erosion control features that are necessary to prevent damage during the forthcoming winter season shall be constructed and functioning. All storm runoff will be contained within the project in a detention pond. Excavation areas are to be protected from erosion and the resulting siltation by various temporary erosion control measures. These measures include but shall not be limited to lined drainage ditches to prevent water inflow into flow joint systems with wedge failures, filter fabric fences to filter silt from runoff, and earth berms, straw bales or appropriate grading to direct drainage away from sensitive areas. On the southwestern steep cut-slope straw wattles may be used."* Erosion control and winterizing measures were in place and deemed adequate at time of inspection (Photograph Nos. 3, 5, 7 through 9, and 11).

Revegetation Plots: The Reclamation Plan (page 26) states *"five test plots, 4 feet by 4 feet, are to be established on the site."* The Reclamation Plan (page 27) also states *"Monitoring of the five plots will be conducted during the first five years of the reclamation plan..."* In October 2001, a revegetation plot was re-established along the north-central perimeter of the site but the plot was neglected. During October 2003, the revegetation test plot was relocated to a more

convenient area at the northwestern toe of the imported soil stockpile in the west-central portion of the site (Photograph No. 12). Monitoring of the revegetation test plot was conducted from 2003 through 2008, at which time active irrigation and maintenance ceased. At time of inspection, the plot was observed to be grown over with vegetation similar to the surrounding slopes. It is recommended that the operator provide a summary of revegetation test plot findings for review in order to determine if further test plot activities should be conducted.

Noxious Weeds: Efforts to eliminate/minimize the growth of star thistle via the use of an herbicide product called Transline have been undertaken by the operator. Minor star thistle growth was observed at time of inspection at various locations on the property. In large part efforts to control noxious weeds on the mine site have been successful, and the operator reports such efforts will be ongoing.

5.0 DISTURBED AREA

The operator reported approximately 4.42 acres as remaining disturbed at the end of the 2008 reporting year. Approximately 4.5 of a total of 7 acres were deemed disturbed at time of inspection.

6.0 RECLAIMED AREA

No new reclaimed areas were reported by the operator during 2008, and at time of inspection no recently reclaimed areas were observed.

7.0 FINANCIAL ASSURANCE

The established financial assurance is in the form of a pledge of revenue in the amount of \$17,500.00, as approved by El Dorado County on October 20, 1998. On October 8, 2009 the SMGB approved an adjusted financial assurance cost estimate in the amount of \$125,615.00 for the site. A replacement financial assurance instrument is due to the SMGB on or about December 15, 2009.

8.0 VIOLATIONS / CORRECTIVE MEASURES

No violations or corrective measures were noted at time of inspection.

It is recommended that the operator provide a summary of revegetation test plot findings for review in order to determine if further test plot activities should be conducted.

9.0 REFERENCES

Slater, R. S. and Hawkins, B., 1997, Reclamation Plan for Somerset Sand Mine, California Mine ID# 91-09-0009: unpublished report prepared on behalf of the El Dorado County Department of Transportation dated September, 1997.

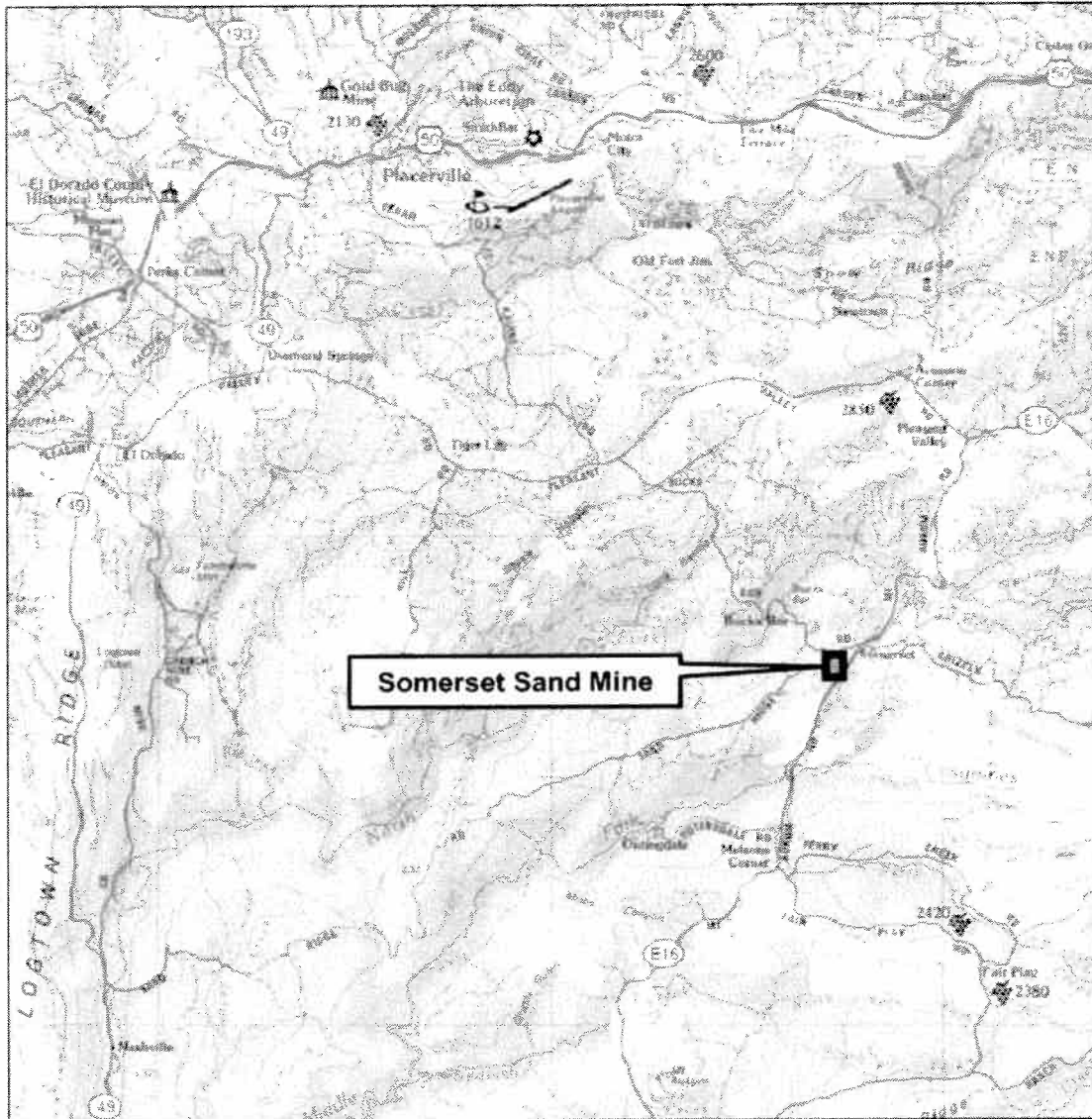
Youngdahl Consulting Group, Inc., 2001, Somerset Sand Mine Slope Stability Review Letter
Report: unpublished letter report dated May 21, 2001.

Youngdahl Consulting Group, Inc., 2002, Somerset Sand Mine Slope Stability Review Letter
Report: unpublished letter report dated October 1, 2002.

Youngdahl Consulting Group, Inc., 2003, Somerset Sand Mine Slope Stability Review Letter
Report: unpublished letter report dated September 3, 2003.

Youngdahl Consulting Group, Inc., 2004, Somerset Sand Mine Slope Stability Review Letter
Report: unpublished letter report dated June 22, 2004.

Youngdahl Consulting Group, Inc., 2008, Somerset Sand Mine Slope Stability Review Letter
Report: unpublished letter report dated October 16, 2008.



**FIGURE 1
SITE LOCATION MAP**

SOMERSET SAND MINE
CA MINE ID No. 91-09-0009
EL DORADO COUNTY, CALIFORNIA

October, 2009

Note:

1. Map source = 1998 DeLorme Northern California Atlas and Gazetteer.
2. Not to scale.

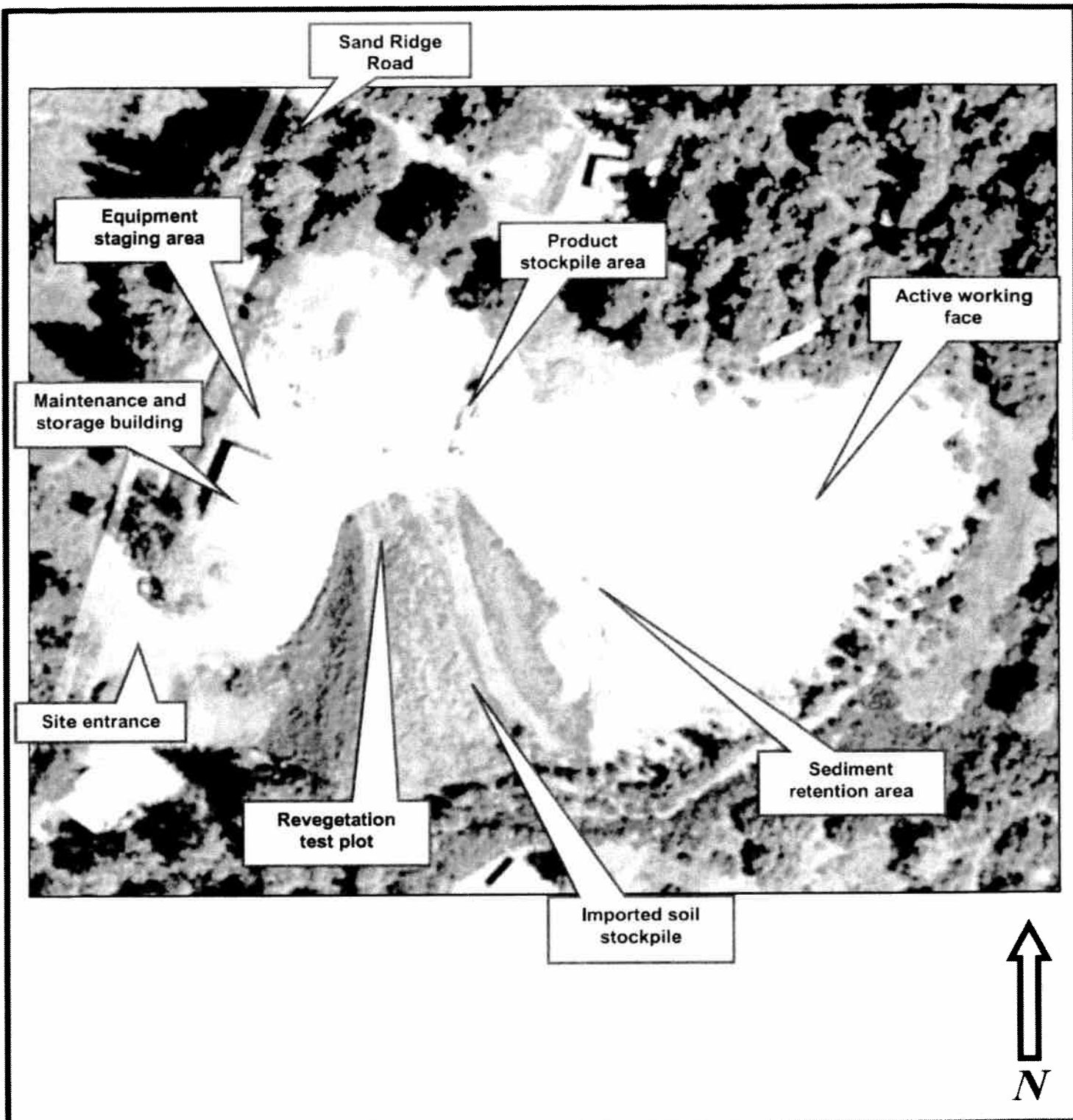


FIGURE 2 SITE LAYOUT MAP

SOMERSET SAND MINE
CA MINE ID No. 91-09-0009
EL DORADO COUNTY, CALIFORNIA

October, 2009

Note:

1. Photo source = Microsoft Live Earth Maps, 2008. (image date uncertain)
2. Not to scale.
3. Some features visible on air photo may not be reflective of current site conditions.

Attachment A

2008 Mining Operation Annual Report



CA MINE ID # 91- 09-0009

MINE NAME Somerset Sand Mine

1. Company Operating El Dorado County	Site Contact Person Tom Celio	Telephone (530) 642-4905
Street Address/P.O. Box No. 2441 Headington Road	City Placerville	State/ZIP Code/County CA 95667
2. Designated Agent's Name (individual must reside in CA) El Dorado County	Mailing Address 2441 Headington Road	
City Placerville	ZIP Code 95667	Telephone (530) 642-4909

ITEMS BELOW WHICH ARE PRECEDED BY A BOX LABELED N.C. MAY BE CHECKED - IF THERE ARE NO CHANGES IN THE INFORMATION FROM THE LAST REPORTING YEAR. (NOTE: IF THIS IS THE FIRST TIME YOU HAVE FILED A REPORT, ALL SECTIONS MUST BE COMPLETED.)

3. Owner of Mining Operation El Dorado County	Telephone (530) 642-4905
Mailing Address (this address will be used to send next year's report form) 2441 Headington Road	
City Placerville	State/ZIP Code CA 95667
	Country (If other than U.S.A.)
Was this operation purchased by you during reporting year? <input type="checkbox"/> Yes. If yes, date of purchase _____ <input checked="" type="checkbox"/> No.	Was this operation sold by you during reporting year? <input type="checkbox"/> Yes. If yes, date of sale _____ <input checked="" type="checkbox"/> No.

4. Landowner same as owner	Assessor's Parcel # 93-150-21 & 93-150-12
Mailing Address	Telephone (530) 642-4905
City/State/ZIP Code	Country (if other than U.S.A.)

5. Status of Mining Activities DURING THE REPORTING YEAR **CHECK 1 ONLY**

- Newly Permitted-Not yet in operation. Date Permitted _____
- Active.
- Idle (as defined in Public Resources Code Section 2727.1). Complete the following:
 - Date operation became idle _____
 - Copy of Approved Interim Management Plan attached.
 - Interim Management Plan pending with Lead Agency. **ATTACH PROOF OF SUBMITTAL**
- Closed with no intent to resume. Date mining ceased _____
- Closed—reclamation certified complete by Lead Agency. Date mining ceased _____

Received by DOC/OMR

JUL 1 2009

Reporting Section

6. Status of Reclamation Activities DURING THE REPORTING YEAR **CHECK 1 ONLY**

- Reclamation not started.
- Reclamation in progress (attach updated reclamation plan map indicating progress)
- Reclamation certified complete by Lead Agency **ATTACH CERTIFICATION**
 - Reclamation certified complete on _____ (Date).
 - Financial Assurances released on _____ (Date).

DISTRIBUTION: Original to State Copy to Lead Agency Copy to Operator

7 Yes No Inspection completed by Lead Agency during the reporting year.

If yes, attach a copy of the Surface Mining Inspection Report (MRRC-1). If inspection report is not attached, please explain on Page 4.

N.C. 8A. SMARA Lead Agency (city OR county ONLY) State Mining & Geology Brd

N.C. 8B. Reclamation Plan Status **CHECK ONE**
 No Plan
 Approved on _____ (date). Attach copy with amendments, conditions, and PROOF of approval.
 _____ Number of acres subject to Reclamation Plan
 Pending. Submitted to Lead Agency on _____ (date). **ATTACH PROOF OF SUBMITTAL**
 On Appeal. Submitted to SMGB on _____ (date). **ATTACH PROOF OF SUBMITTAL**

9. Yes: Financial Assurances approved by Lead Agency. **ATTACH COPY AND PROOF OF APPROVAL**
 Complete below for approved Financial Assurances:

Amount	Type	Date Posted	Date of Annual Review by Lead Agency	Expiration Date or Renewal Date (if applicable)

No: Financial Assurances NOT approved by Lead Agency.
 Financial Assurances pending with Lead Agency. Submitted on May 2009 (date) **ATTACH PROOF OF SUBMITTAL**

IF APPLICABLE, INFORMATION REQUIRED IN ITEMS 10 THROUGH 13 MUST BE PROVIDED FOR EACH SEPARATE PLOT

N.C. 10. ATTACH NAMED U.S. GEOLOGICAL SURVEY MAP — 7.5' OR 15' QUAD — SHOWING BOUNDARIES OF MINING OPERATION

Latitude	Longitude	Section—Township—Range—Base Meridian	Quad Name	County

N.C. 11. Type Code(s) of Mining Operation _____ **SEE EXHIBIT A FOR TYPE CODES**

12. DISTURBED ACREAGE **COMPLETE ENTIRE SECTION**

Handwritten notes:
 4.42
 1.27

- 4.42 Approximate disturbed acreage at beginning of 2008. (This figure should match the figure from item 12, line 5 on your 2007 annual report. If it does not match, please explain on Page 4.)
- 0 Approximate acreage disturbed during 2008.
- 4.42 (ADD LINE 1 TO LINE 2)
- 0 Approximate disturbed acreage reclaimed during 2008.
- 4.42 (SUBTRACT LINE 4 FROM LINE 3) Approximate disturbed acreage remaining at end of 2008.

N.C. 13. **CHECK ALL THAT APPLY**
 Acres Permitted: _____ & Permit # _____
 Acres Vested (Acres disturbed prior to January 1, 1976): _____
 Acres on Federal Lands: _____ & Permit/ID # _____

N.C. 14. \$ _____ Current total assessed value of mining operation as established by County Assessor's Office.

DISTRIBUTION: Original to State Copy to Lead Agency Copy to Operator

15. COMMODITIES AND PRODUCTION

SEE EXHIBIT B FOR COMMODITIES AND UNITS OF MEASURE

PRODUCTION INFORMATION IS PROPRIETARY AND
 WILL BE KEPT CONFIDENTIAL PURSUANT TO
 PUBLIC RESOURCE CODE SECTION 2207(g)

List All Commodities (from Exhibit B)	Category Number (from Exhibit B)	Check here if No Production for a Commodity	TOTAL PRODUCTION			
			Amount of Production	Tons	Troy Ounces	Pounds
A. PRIMARY COMMODITY PRODUCED BY OPERATION: <i>Do Composed 500mt.</i>						
B. ALL OTHER COMMODITIES PRODUCED BY OPERATION (include any production of gold and silver):						

CHECK ONE

16. FEES SCHEDULE

USING BOTH YOUR CATEGORY NUMBER AND TOTAL PRODUCTION FROM 15(A) ABOVE, REFER TO EXHIBIT C TO FIND YOUR
 CORRESPONDING PRODUCTION RANGE. ENTER YOUR CORRESPONDING PRODUCTION CODE IN 16(A) AND FEE IN 16(B) BELOW.

A. PRODUCTION CODE... FROM EXHIBIT C

B. REPORTING FEE..... FROM EXHIBIT C \$

GOLD AND SILVER FEE:

IF GOLD OR SILVER PRODUCTION IS REPORTED IN SECTION 15(A) OR 15(B), CONTINUE ON TO COMPLETE 16(C) AND (D)

C. GOLD FEE (_____ Ounce(s) of gold) X (\$5.00 per ounce) = \$

D. SILVER FEE (_____ Ounce(s) of silver) X (\$0.10 per ounce) = \$

TOTAL FEES DUE: SUM OF 16(B), (C) AND (D) \$ (ATTACH ONE CHECK FOR TOTAL)

17. SUBMITTED BY:

Name (Please print) Thomas M. Celio
 Mailing Address 2441 Headington Road
 City/State/ZIP Code Placerville, CA 95667 Telephone Number (530) 642-4905

I certify that the information submitted herein is complete and accurate (failure to submit complete and accurate requisite information may result
 in an administrative penalty as provided for in Public Resources Code Section 2774.1).

SIGNATURE OF SUBMITTER *Tom Celio* DATE 6/26/09

TITLE OF SUBMITTER Deputy Director, Transp. Maint.

Please mail annual report, reporting fee, gold and silver fee and ALL required attachments to:

DEPARTMENT OF CONSERVATION
 Office of Mine Reclamation
 801 K Street, MS 09-06
 Sacramento, CA 95814-3529

Received by DOC/OMR

JUL 1 2009

DISTRIBUTION: Original to State Copy to Lead Agency Copy to Operator
 Reporting Section

9. a. Copy of El Dorado County Board of Supervisor's Resolution
No. 247-98 dated October 20, 1998.

b. Updated Financial Assurance May 2009

Annual Somerset Sand Mine Slope Stability Review dated October 16, 2008.

DISTRIBUTION: Original to State Copy to Lead Agency Copy to Operator

Attachment B

2009 Surface Mining Inspection Report

SURFACE MINING INSPECTION REPORT

Instructions for completing this form are on the reverse side. Attach notice(s) of violation(s) and order(s) to comply for all observed non-compliance.

I. Mine Name as reported by Operator on Mining Operation Annual Report Somerset Sand Mine	Inspection Date: October 22, 2009	CA MINE ID#: 91-09-0009
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II. SMARA Lead Agency Name (City or County <u>only</u>) State Mining and Geology Board (SMGB)		
Inspector Will J. Arcand, CEG No. 2482	Telephone (916) 322-1082	
Title Senior Engineering Geologist	Organization SMGB	
Mailing Address 801 K Street, Suite 2015		
City Sacramento	State CA	ZIP Code 95814
E-mail Address (Optional) will.arcand@conservation.ca.gov		

III. Mine Operator El Dorado County		
Contact Person Tom Celio	Telephone (530) 642-4905	
Mailing Address 2441 Headington Road		
City Placerville	State CA	ZIP Code 95667
E-mail Address (Optional)		

IV. Does the operation have:	P	NR	No	Yes
A permit to mine?		X		Permit #
An approved Reclamation Plan?				RP # 94-01 County Approved May 1998
Has the operator filed a Mining Operation Annual Report (form MRRC-2)? Check one: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				
Is this operation on Federal Land? Check one. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If "Yes" provide one or both of the Federal Mine Land Identification Numbers below:				
California Mining Claim Number (CAMC#): N/A				
U.S. Forest Service Identification Number (USFS ID#): N/A				

DISTRIBUTION: Original to Operator. Copies to: State (by Lead Agency), Lead Agency, State (by Operator), and BLM or USFS (if required).

**DEPARTMENT OF CONSERVATION
OFFICE OF MINE RECLAMATION**

SURFACE MINING INSPECTION REPORT

V Does the Operator currently have a Lead Agency approved Financial Assurance? Check one: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", complete section below. If "No", refer to instructions on the reverse of this page and complete Section VI		Inspection Date: October 22, 2009	CA MINE ID# 91-09-0009
Type of Financial Assurance Mechanism(s)	Financial Assurance Mechanism Number(s)	Current Amount on File	Date of Expiration
Surety Bond		\$	
Certificate of Deposit		\$	
Letter of Credit		\$	
Trust Fund		\$	
<input checked="" type="checkbox"/> Pledge of Revenue	El Dorado County Resolution No. 24-98	\$ 17,500.00	10/20/2018
Budget Set Aside		\$	
		\$	
The Financial Assurance Amount must be adjusted annually. Attach a copy of the revised Financial Assurance Amount calculation with this report.		Date of Financial Assurance Amount Calculation: July 15, 2009	
Does the current mechanism(s) on file cover the new annual calculation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If "No", date operator was notified that a new mechanism is required: October 12, 2009	

VI Financial Assurance comments.

The established financial assurance is in the form of a pledge of revenue in the amount of \$17,500.00, as approved by El Dorado County on October 20, 1998. On October 8, 2009 the SMGB approved an adjusted financial assurance cost estimate in the amount of \$125,615.00 for the site. A replacement financial assurance instrument is due to the SMGB on or about December 15, 2009.

DISTRIBUTION: Original to Operator. Copies to: State (by Lead Agency), Lead Agency, State (by Operator), and BLM or USFS (if required).

**DEPARTMENT OF CONSERVATION
OFFICE OF MINE RECLAMATION**

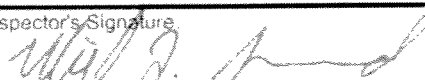
SURFACE MINING INSPECTION REPORT

VII. Is the operation in compliance with provisions of the approved Reclamation Plan with respect to:	OK	VN	NI	NA	CA MINE ID # 91 -09-0009
Wildlife Habitat	X				Inspection Date: October 22, 2009
Revegetation	X				
Agricultural Land				X	Weather Code(s): CR = Clear
Stream Protection	X				Duration of Inspection: 1.5 Hours
Tailings and Mine Waste Management	X				
Closure of Surface Openings				X	Approximate Disturbed Acreage: 4.5 of 7 acres
Building, Structure, and Equipment Removal	X				
Topsoil Salvage, Maintenance, and Redistribution	X				Status of Operation Code(s): A = Active during past year
Backfilling, Regrading, Slope Stability, and Recontouring	X				
Drainage, Diversion Structures, Waterways, and Erosion	X				Status of Reclamation Code(s): RN = Reclamation not begun
Other (list or explain below)					

VIII. Comments/Description of Violation(s) and Corrective Measure(s) Required
 [NOTE: please indicate if you have attached notice(s) of violation(s) and correction order(s), in lieu of description on this form]:

No violations or corrective measures were noted at time of inspection.

It is recommended that the operator provide a summary of revegetation test plot findings for review in order to determine if further test plot activities should be conducted.

IX. Number of Violations: None	Inspector's Signature: 	Date Signed: 11/2/09
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DISTRIBUTION: Original to Operator. Copies to: State (by Lead Agency), Lead Agency, State (by Operator), and BLM or USFS (if required).

State of California

DEPARTMENT OF CONSERVATION
Financial Assurance Cost Estimate
Form OMR-23 (New 06/96)

FINANCIAL ASSURANCE COST ESTIMATE

FOR

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

CA MINE ID # 91-09-0009

Prepared by:
Robert Slater, PE
Barbara Hawkins

Updated by:
Tom Celio, Deputy Director of Maintenance
Michele Smith

Prepared: September 1997
Updated: May 2009

Note: This worksheet was developed by the Office of Mine Reclamation to assist lead agencies and operators prepare a reclamation cost estimate and determine an appropriate amount for financial assurance in conformance with Section 2773.1 of SMARA. It should be used in conjunction with the *Financial Assurance Guidelines* adopted by the State Mining and Geology Board.

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

I. PRIMARY RECLAMATION ACTIVITIES

Description of Task:

Remove 2700 lineal feet of chain link fencing. Store at main corporation yard.

Methods to be Used:

Two DOT employees are to remove the fence then transfer it to the yard in a pick up truck.

Miscellaneous Information:

Overburden (cu yds): _____ Topsoil (cu yds): _____ Acres: _____

Production rate (cu yds/hr)

1	2	3	4
1	2	3	4

Haul Distance (feet):

A. Equipment - List all equipment required to complete identified task.

	Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
1	pickup truck 3/4 ton and lighter	1	\$ 15.00	16	\$ 240.00
2					\$ -
3					\$ -
4					\$ -

Total Equipment Cost for this Task \$ 240.00

B. Labor - List all labor categories to complete identified task.

Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
Laborer	2	\$ 33.00	16	\$ 1,056.00
				\$ -
				\$ -
				\$ -
				\$ -

Total Labor Cost for this Task \$ 1,056.00

C. Materials - List all materials required to complete identified task (include disposal costs).

	Quantity	\$/Unit		Cost (\$)
no materials needed				

Total Materials Cost for this Task \$ -

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 1,296.00

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

I. PRIMARY RECLAMATION ACTIVITIES

Description of Task:

Regrade excavated site with maximum height of 70 feet at 1H:2V slopes and 20 foot wide benches to 2H:1V slope with benches sloping 2 percent into the heel of the fill. Distribute fill around site to meet reclamation slope requirements of 2H:1V.

Methods to be Used:

A dozer will be used to recontour the site: 1706 cubic yards are to be cut and 32,894 cubic yards of stock piled road spoils are to be pushed a maximum distance of 500 grry (the average is 300 feet). A sheepsfoot is to be attached to the dozer with a water truck following behind to meet compaction requirements.

Miscellaneous Information:

Surface Acres (cut): 0.35

Fill (cu yds): 32,894 Topsoil (cu yds): _____

Acres (fill): 1.35

Production rate (cu yds/hr)

1	300	2	
1	300	2	

Haul Distance (feet):

A. Equipment - List all equipment required to complete identified task.

	Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Dozer (D5)	1	\$ 57.00	110	\$ 6,270.00
2	Sheepsfoot	1	\$ 2.00	110	\$ 220.00
3	Water Truck	1	\$ 26.00	110	\$ 2,860.00
4					\$ -

Total Equipment Cost for this Task \$ 9,350.00

B. Labor - List all labor categories to complete identified task.

	Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
	Dozer Operator	1	\$ 55.00	110	\$ 6,050.00
	Water Truck Operator	1	\$ 45.00	110	\$ 4,950.00

Total Labor Cost for this Task \$ 11,000.00

C. Materials - List all materials required to complete identified task (include disposal costs).

	Quantity	\$/Unit	Cost (\$)
Fill (road spoils) cubic yards	32,394	\$ -	0
	see "Notes" for calculation		

Total Materials Cost for this Task \$ -

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 20,350.00

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

I. PRIMARY RECLAMATION ACTIVITIES

Description of Task:

Redistribute overburden or topsoil amended with road ditching soil and wood chips from road maintenance activities.

Methods to be Used:

Replace topsoils and road soils from maintenance ditching to a depth of three feet over the 5 acres.

Miscellaneous Information:

Overburden (cu yds): 36,400 Topsoil (cu yds): 5,000 Acres: 5

Production rate (cu yds/hr)

1	1,100	2		3		4	
---	-------	---	--	---	--	---	--

Haul Distance (feet):

1	300	2		3		4	
---	-----	---	--	---	--	---	--

A. Equipment - List all equipment required to complete identified task.

Total

	Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Dozer (D5)	1	\$ 57.00	38	\$ 2,166.00
2	Water Truck Operator	1	\$ 26.00	2	\$ 52.00
3					\$ -
4					\$ -

Total Equipment Cost for this Task \$ 2,218.00

B. Labor - List all labor categories to complete identified task.

	Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Dozer Operator	1	\$ 55.00	38	\$ 2,090.00
2	Water Truck Operator	1	\$ 45.00	2	\$ 90.00
					\$ -
					\$ -
					\$ -

Total Labor Cost for this Task \$ 2,180.00

C. Materials - List all materials required to complete identified task (include disposal costs).

Stockpiled overburden and spoils from maintenance activities.	41,400	0		0

Total Materials Cost for this Task \$ -

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 4,398.00

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

I. PRIMARY RECLAMATION ACTIVITIES

Description of Task:

Add keyway 20 feet wide by one foot deep and drain pipe four to six inches in diameter with 1/4 inch perforations at 12 to 20 inches on center in the heels of bottom benches of flat areas.

Methods to be Used:

Approximately 75 of cubic inches of drain rock four inches from the base of the heel is to surround the perforated drain pipe. A dump truck is to deliver the rock, the pipe is to be layed, then a layer of rock is to cover the pipe.

Miscellaneous Information:

Overburden (cu yds): _____ Topsoil (cu yds): _____ Acres: _____

Production rate (cu yds/hr)	1	2	3	4
Haul Distance (feet):	1	2	3	4

A. Equipment - List all equipment required to complete identified task.

	Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Dump Truck	1	\$ 31.00	9	\$ 279.00
2					\$ -
3					\$ -
4					\$ -

Total Equipment Cost for this Task \$ 279.00

B. Labor - List all labor categories to complete identified task.

	Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Dump Truck Operator	1	\$ 45.00	9	\$ 405.00
2	Laborer	2	\$ 33.00	8	\$ 528.00
3					\$ -
4					\$ -

Total Labor Cost for this Task \$ 933.00

C. Materials - List all materials required to complete identified task (include disposal costs).

	Quantity	\$/Unit		Cost (\$)
Drain rock (cubic yards)	1663	\$ 13.00		\$ 21,619.00
Schedule 40 PVC perforated pipe (per lineal feet)	500	\$ 7.87		\$ 3,935.00

Total Materials Cost for this Task \$ 25,554.00

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 26,766.00

II. REVEGETATIONPage 5 of 10Description of Task:

Seeding and revegetation costs.

Methods to be Used:

The method to be used is to be based upon the test plots. This estimate is based upon the most conservative cost estimate. Hydroseeding of grasses, legumes, compost, and fiber is to be followed by an application of straw and emulsion. Then seedlings with a packet of slow release fertilizer are to be planted in the flat areas.

A. Equipment - List all equipment required to complete identified task.

	Equipment	Quantity	\$/Acre	# of Acres	Cost (\$)
1	Hydroseeder - contract	1	\$ 1,695.00	5	\$ 8,475
2					\$ -
3					\$ -

Total Equipment Cost for this Task \$ 8,475

B. Labor - List all labor categories to complete identified task.

	Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Laborer for planting	2	\$ 33.00	24	\$ 1,584
2					\$ -
3					\$ -

Total Labor Cost for this Task \$ 1,584

C. Materials - List all materials required to complete identified task (include disposal costs).

	Unit of measure	# of Units	\$/Unit	Cost (\$)
Quercus wislizenii seedling	each	42	\$ 11.95	\$ 502
Arctostaphylos manzanita	each	24	\$ 5.75	\$ 138
Ceanothus cuneatus	each	24	\$ 6.90	\$ 166
Heteromeles arbutifolia	each	12	\$ 7.95	\$ 95
RTI Booster fertilizer packet	each	100	16.6	\$ 1,660
Bromus marginatus	5 acres	4 lbs/acre	hydroseed contract	
Festuca idahoensis	5 acres	6 lbs/acre	hydroseed contract	
Lotus purshianus	5 acres	3 lbs/acre	hydroseed contract	
Trifolium hirtum hykon	5 acres	7 lbs/acre	hydroseed contract	
fiber	5 acres	300 lbs/acre	hydroseed contract	
compost	5 acres	1200 lbs/acre	hydroseed contract	
straw	5 acres	2 tons/acre	hydroseed contract	

Total Materials Cost for this Task \$ 2,561

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 12,620

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

III PLANT STRUCTURES AND EQUIPMENT REMOVAL

Page 6 of 10

Description of Task:

Removal of storage shed.

Methods to be Used:

The building is an un-insulated metal shell. Four people can dismantle the building, break down the materials store the salvageable building materials at the corporation yard and dispose of the remaining debris.

A. Equipment - List all equipment required to complete identified task.

	Equipment	Quantity	\$/Hour	# of Hours	Cost (\$)
1	1 ton dump truck	1	\$ 20.00	32	\$ 640.00
2	Pick up truck	2	\$ 15.00	32	\$ 960.00
3	Excavator (rental) (Cat 225)	1	\$ 75.00	32	\$ 2,400.00
4	Track loader (rental) (Cat 935)	1	\$ 38.00	32	\$ 1,216.00

Total Equipment Cost for this Task \$ 5,216.00

B. Labor - List all labor categories to complete identified task.

	Labor Category	Quantity	\$/Hour	# of Hours	Cost (\$)
1	Laborer	3	\$ 33.00	32	\$ 3,168.00
2	Cat 225 Operator	1	\$ 57.00	32	\$ 1,824.00
3	Cat 935 Operator	1	\$ 55.00	32	\$ 1,760.00
4					\$ -
5					\$ -

Total Labor Cost for this Task \$ 6,752.00

C. Materials - List all materials required to complete identified task (include disposal costs).

	Cost (\$)
Disposal of materials	500

Total Materials Cost for this Task \$ 500.00

D. Direct Cost for this Task

Equipment Cost + Labor Cost + Materials Cost = \$ 12,468.00

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

Page 7 of 10

E.	Surplus/Salvage Value	
	1 Total cost to dismantle/demolish plant structures and equipment pursuant to the approved reclamation plan.	\$ 12,468.00
	2 Net salvage value of plant structures and equipment.	\$ -
	3 Subtract Line 2 from Line 1	\$ 12,468.00
	4 If Line 3 is greater than \$0 enter this amount on the total plant structures and equipment removal cost line under Section VIII (Summary of Costs). If Line 3 is less than \$0, enter \$0 on the appropriate line in Section VIII.	\$ 12,468.00

NOTE This is the value of plant structures, buildings and equipment on a salvage basis - e.g. after the structures and equipment have been removed for sale or use off-site. In order to include net salvage value in the financial assurance calculation, the operator must provide a letter of agreement, signed contract, bid or quote from an independent company which provides industrial dismantling or equipment salvage services, or is in the business of buying and selling scrap metals or similar products.

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

checked by [unclear] 8/10/09

V. MISCELLANEOUS COSTS

Page 8 of 10

Examples of this type of cost could include temporary storage of equipment and materials off site, special one-time permits (i.e. transportation permits for extra wide or overweight loads, etc.) decommissioning a process mill (i.e. decontamination of equipment), disposal of warehouse inventories.

Item/Task	Quantity	\$/unit	Cost (\$)
Closure permitting	1	\$ 200.00	\$ 200.00
			\$ -
			\$ -
			\$ -

Total Miscellaneous Costs \$ 200.00

V. MONITORING

Labor Category	\$/visit	# of visits/yr	# of monitoring years	Cost (\$)
Lead Agency Annual SMARA Inspection	\$ 1,250.00	1	5	\$ 6,250.00
				\$ -
				\$ -
				\$ -

Total Monitoring Costs \$ 6,250.00

VI. SUPERVISION/PROFIT & OVERHEAD/CONTINGENCIES/MOBILIZATION

- A. Supervision - *21.66%* of labor (Graph #1) *5.1%*
- B. Profit and Overhead - None (Graph #2) *0.0%*
- C. Contingencies - 10% for unanticipated project cost
- D. Mobilization - *Costs included in equipment rates for Department of Transportation*

21.66% of labor = 5.1%

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
SOMERSET SAND MINE - CA MINE ID# 91-09-0009

Completed 10/16/07

VII. SUMMARY OF COST

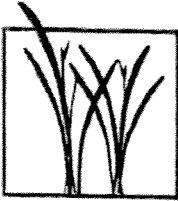
Page 9 of 10

Total Reclamation
Cost (\$)

Total of all Primary Reclamation Activities		\$ 52,810
Total of all Revegetation Costs		\$ 12,620
Total of all Plant Structures & Equipment Removal Costs		\$ 12,468
Total of all Miscellaneous Costs		\$ 200
Total of all Monitoring Costs		\$ 6,250
		<hr/>
	Total Direct Costs	\$ 84,348
Supervision (Graph #1 = 5.75%)		\$ 5,378 <i>4378</i>
Profit/Overhead (Graph #2 = 12.25%)		\$ 11,460 <i>11218</i>
Contingencies (10%)		\$ 9,355 <i>9355</i>
Mobilization (1.5%)		\$ 1,403 <i>1403</i>
	Total Indirect Costs	<hr/> \$ 27,596 <i>27596</i>
	Total Direct and Indirect Costs	\$ 111,944 <i>111944</i>
Lead Agency Admin Cost (15%)		\$ 18,171 <i>18171</i>
	Total Estimated Reclamation Cost	<hr/> <hr/> \$ 130,115 <i>130115</i>

Summary by Expenditure Type

Labor	\$ 23,505
Equipment	\$ 25,778
Materials,	\$ 34,865
Misc	\$ 200
Indirect	\$ 5,378
Contingency	\$ 9,355
Profit/Overhead	\$ 11,460
Mobilization	\$ 1,403
Lead Agency Admin	
Cost	\$ 18,171
	<hr/> \$ 130,115



**Selby's Soil
Erosion Control Co. Inc.**

June 10, 2009

To: El Dorado County Department of Transportation
Attn: Tom Celio
Re: El Dorado Sand Mine - Somerset Area

Bids: June 10, 2009

Certified by Department of General Services, Office of Small Business Certification and Resources SBE #18762 Expiration 08/30/09

Members of Laborers Local #185 Union

Item No.	Item	Unit of Measure	Estimated Quantity	Price	Total
	Hydroseed/Straw/Tack (Fiber 1250 lb/A) (Seed Selby Mix 50 lb/A) (Compost 2 CY/A) (Straw 4000 lb/A) (Tack 100 lb/A)	Acre	1.00	1,695.00	\$ 1,695.00
				Total:	\$ 1,695.00

Proposal Conditions

- 1) Price includes all Labor, Materials, Equipment, Taxes, Etc.
- 2) Prime Contractor to supply Water Meter and Traffic Control.
- 3) Move-Ons will be \$300.00 each
- 4) Stand-By time will be billed at \$250.00 per hour.
- 5) Price does not include any soil preparation.
- 6) Bond Rate is 2%; California Contractors License expiration date: 7/31/2011
- 7) Quotation is valid for (60) calendar days.
- 8) Project Area/Quantity to be verified by customer upon order to start work.
- 9) Although extreme caution will be to minimize dust, subject fines will be the owners responsibility.

ACCEPTED and AGREED:	
Buyer/Company: _____	Selby's Soil Erosion Control Co., Inc.
By: _____ /Date: _____	By: <u>Eric van der Welle</u>
Signature	Eric van der Welle

Attachment C

Annotated Site Photographs



Photograph No. 1. Overburden stockpile (foreground), processed sand stockpile, equipment maintenance and storage building, imported aggregate and recyclable asphaltic material stockpiles, equipment staging area and truck loading area (viewing west).



Photograph No. 2. Site entrance and equipment staging area adjacent to maintenance building along western site boundary. Portion of imported soil stockpile visible at upper right (viewing northeast).



Photograph No. 3. Overview of quarry floor with sediment settling area in center, straw- and mulch-covered imported soil on left, material stockpiles at right, equipment maintenance and staging areas at center, and recent extraction area in foreground (viewing west-southwest).



Photograph No. 4. Overview of northwest quarry floor showing material stockpiles, equipment shed and loading area. Vegetated surface of imported soil stockpile in foreground (viewing northwest).



Photograph No. 5. View of imported and graded soil stockpile and sediment retention area. Toe of recent extraction area visible at lower left (viewing south).



Photograph No. 6. Site entrance, equipment staging area, and maintenance building (upper right) immediately east of Sand Ridge Road (viewing north).



Photograph No. 7. Central pit showing working face of recent extraction area and sediment retention structures at center (viewing east).



Photograph No. 8. View of upper working face in northeast corner of site (viewing northeast).



Photograph No. 9. Overview of southeastern portion of active pit. Imported soil stockpile at right (viewing southwest).



Photograph No. 10. View of minor erosional feature development on upper eastern working face. Slope at lower left showing signs of natural vegetation establishment by grasses (viewing east-northeast).



Photograph No. 11. Sediment check dams in drainage ditch at base of topsoil stockpile in western portion of quarry (viewing west).



Photograph No. 12. Revegetation test plot located on the northwest slope of the imported soil stockpile (viewing southwest).