

# **MINOR AMENDMENT TO RECLAMATION PLAN RP-06-1**

## **JACKSON VALLEY QUARRY (CA MINE ID #91-03-0020)**

**AMADOR COUNTY, CALIFORNIA**

**Prepared for:**

George Reed, Inc.  
140 Empire Avenue  
Modesto, CA 95354

**Prepared by:**

Compass Land Group  
3140 Peacekeeper Way, Suite 102  
McClellan, CA 95652

**April 2021**

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Appendix C Financial Assurance Cost Estimate

## CHART OF SMARA CONTENTS [PRC §2770.5]

SMARA Section	Location in Plan (e.g., Page #s)	Lead Agency Checklist			
SMARA Statutes (California PRC Sections 2772, 2773 and 2773.3)					
2772(b)	Chart of contents	Minor Amendment, Pg. 1-2 (this chart)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(1)	Operator and agent contact info	Minor Amendment, Pg. 4	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(2)	Quantity and type of materials	RP-06-1, Pg. 12	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(3)	Initiation and termination dates	RP-06-1, Pg. 12	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(4)	Maximum anticipated depth	RP-06-1, Pg. 14	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(5)	Reclamation plan maps	RP-06-1, Sheets 1-3, Minor Amendment, Figure 1	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(6)	Mining description and schedule	RP-06-1, Pg. 12-13	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(7)	Proposed or potential end uses	RP-06-1, Pg. 14, Minor Amendment, Pg. 5	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(8)	Reclamation description	RP-06-1, Pg. 16-23, Minor Amendment Pg. 5-9	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(9)	Effect on future mining in area	RP-06-1, Pg. 15	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(10)	Statement of responsibility	Minor Amendment, App. B	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2772(c)(11)	Lead agency requirements	Minor Amendment, Pg. 9	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2773(a)	Site specific reclamation plan	RP-06-1, Pg. 16-23, Sheets 1-3, Minor Amendment Pg. 5-9	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2773.3	Requirements for metallic mines	N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
SMARA Regulations, Article 1, Surface Mining and Reclamation Practice (Title 14, California CCR §3500 et seq.)					
3502(a)	Reclamation objectives	RP-06-1, Pg. 1, 14, Minor Amendment, Pg. 5	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(1)	Environmental setting	RP-06-1, Pg. 2-10, Minor Amendment, Pg. 5	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(2)	Public health and safety	RP-06-1, Pg. 23	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(3)	Final slopes	RP-06-1, Pg. 23	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(4)	Borrow and settlement of fills	N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(5)	Disposition of old equipment	RP-06-1, Pg. 19, Minor Amendment, Pg. 8	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3502(b)(6)	Stream and watershed diversions	RP-06-1, Pg. 16-17, Minor Amendment, Pg. 8	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(a)	Soil erosion control	RP-06-1, Pg. 16-17, Minor Amendment, Pg. 8	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(b)	Water quality / watershed control	RP-06-1, Pg. 19, Minor Amendment, Pg. 8	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(c)	Protection of fish / wildlife habitat	RP-06-1, Pg. 18, Minor Amendment, Pg. 6	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(d)	Disposal of waste / overburden	RP-06-1, Pg. 18, Minor Amendment, Pg. 9	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(e)	Erosion and drainage	RP-06-1, Pg. 16-17, Minor Amendment, Pg. 8	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(f)	Resoiling	RP-06-1, Pg. 19, Minor Amendment, Pg. 9	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3503(g)	Revegetation	RP-06-1, Pg. 19-22, Minor Amendment, Pg. 6-7	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A

SMARA Regulations, Article 9, Reclamation Standards (Title 14, California CCR §3700 et seq.)							
3703	Wildlife and habitat protection	RP-06-1, Pg. 18, Amendment, Pg. 6	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3704	Backfill, grading and slopes	RP-06-1, Pg. 23, Amendment, Pg. 6	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3704.1	...for metallic mines	N/A		<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3705	Revegetation	RP-06-1, Pg. 19-22, Amendment, Pg. 6-7	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3706	Water quality, drainage, runoff	RP-06-1, Pg. 19, Amendment, Pg. 8	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3707	Standards for prime agriculture	RP-06-1, Pg. 2, Amendment, Pg. 8	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3708	Standard for other agriculture	RP-06-1, Pg. 2, Amendment, Pg. 8	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3709	Equipment storage and removal	RP-06-1, Pg. 19, Amendment, Pg. 8	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3710	Surface / groundwater protection	RP-06-1, Pg. 19, Amendment, Pg. 8	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3711	Topsoil salvage and redistribution	RP-06-1, Pg. 19, Amendment, Pg. 9	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3712	Mine waste disposal	RP-06-1, Pg. 18, Amendment, Pg. 9	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	
3713	Drill holes and water wells	RP-06-1, Pg. 23, Amendment, Pg. 9	Minor	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	

## 1.0 INTRODUCTION

This Minor Amendment to Reclamation Plan No. RP-06-1 has been prepared in support of reclamation activities on ±20 acres of land to be used for activities ancillary and accessory to surface mining (e.g., perimeter berms, revegetation plantings, access roads) at the Jackson Valley Quarry in Amador County, California (see Figure 1, Proposed Reclamation Boundary Adjustment). The ancillary use area subject to this Minor Amendment is identified within the “Site Boundary” of the existing Reclamation Plan<sup>1</sup> and is included within the “Project Description & Location” of the existing Conditional Use Permit<sup>2</sup>. Further, the ancillary use area was analyzed and assessed for impacts within the project’s Environmental Impact Report<sup>3</sup> and is included and fully mitigated for within the project’s regulatory permits<sup>4</sup> issued by the California Department of Fish and Wildlife, Army Corps of Engineers, and Central Valley Regional Water Quality Control Board. Notwithstanding, the ancillary use area is not currently included within the disturbance / reclamation boundary of the existing Reclamation Plan. This Minor Amendment proposes to adjust the reclamation boundary to include the ancillary use area, which will achieve alignment and consistency between the Reclamation Plan and other entitlements at the site. No mining will occur within the ancillary use area and no change to the annual extraction amount, mining and reclamation methodologies, equipment used, reclamation end use, or any other fundamental element of the operation is proposed or required. In addition, no change to any condition of approval or adopted mitigation measure is necessary in connection with this Minor Amendment.

This Minor Amendment has been prepared pursuant to the requirements of the California Surface Mining Reclamation Act of 1975 (“SMARA”), as well as Amador County Code. In accordance with 14 CCR 3502(f), this Minor Amendment affects only the ±20-acre portion of the site (ancillary use area) that will be added to the disturbance / reclamation boundary. Reclamation Plan No. RP-06-1 otherwise remains in full force and effect.

### 1.1 Site and Entitlement History

George Reed, Inc. (hereafter referred to as “GRI” or “Operator”) operates the Jackson Valley Quarry (“JVQ”), a hard rock mining and processing site located approximately 3 miles south of the city of Ione in the southwestern portion of Amador County (“County”). The site totals approximately 159 acres on a single Assessor’s Parcel Number (APN 005-230-018). Mining at JVQ reportedly began in the 1970’s. In 2013, a Use Permit Amendment and Reclamation Plan was approved authorizing expansion of the quarry from 73.63 acres to include an additional 85.73 acres to the east. The 2013 expansion approval allowed for mining of approximately 50 million tons of aggregate material over a 35-year period.

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<sup>1</sup> Ref. Section 2.1, Figures 9, 12, 13, 15, and Sheets 1-3 of Reclamation Plan No. RP-06-1

<sup>2</sup> Ref. Page 1, Project Description & Location, of Conditional Use Permit UP-06; 9-2

<sup>3</sup> Ref. Figures 3.1-1, 3.6-1 and associated tables and narrative of the Jackson Valley Quarry EIR (SCH # 2007042002)

<sup>4</sup> Ref. Streambed Alteration Agreement (1600-2015-0053-R2); Section 404 Army Corps of Engineers Permit (SPK-2011-00164); Section 401 Water Quality Certification (WDID#5B03CR00073); Cosumnes Floodplain Mitigation Bank Agreement for Sale of Mitigation Credits (July 30, 2018)

## **1.2 Purpose for Minor Amendment**

The approved Reclamation Plan identifies a reclamation boundary that includes lands to be disturbed by surface mining activities and reclaimed. The existing reclamation boundary totals approximately 139 acres of the 159-acre JVQ site. The areas of the site excluded from the reclamation boundary are located in the northeast and southeast corners of APN 005-230-018. These areas of the site are not proposed for mining; however, they will be subject to miscellaneous disturbances ancillary and accessory to surface mining. For example, access roads within the northeast corner are critical to allow for the completion of the noise and visual attenuation berm along Highway 88, while access roads, berm development, and mitigation tree plantings will occur along the perimeter of the site in the southeast corner. Adjusting the reclamation boundary to include the entire 159-acre site will bring consistency between the Reclamation Plan and other project entitlements, and ensure that all areas with surface disturbances are properly accounted for within the Reclamation Plan.

## **2.0 CLARIFICATIONS TO RP-06-1 TO ACCOUNT FOR THE ANCILLARY USE AREA**

### **2.1 Name and Address of Operator/Agent**

Surface Mining Operator:

George Reed, Inc.  
140 Empire Avenue  
Modesto, CA 95354

Operator's Agent(s):

Jordan Main  
Compass Land Group  
3140 Peacekeeper Way, Suite 102  
McClellan, CA 95652

### **2.2 Quantity and Type of Mineral to be Mined**

No change.

### **2.3 Initiation and Termination Date**

No change.

### **2.4 Maximum Anticipated Depth of Mining**

No change.

## **2.5 Property Description**

The ancillary use area subject to this Minor Amendment consists of approximately 20 acres in the northeast and southeast corners of APN 005-230-018 (see Appendix A, Site Legal Description).

Predominant land uses in the vicinity of the ancillary use area are Highway 88 and scattered rural residential to the north, Jackson Valley Road and scattered rural residential to the south, the existing JVQ mining operation to the west, and an undeveloped property under common ownership to the east.

The Amador County General Plan land use designation for the site is Mineral Resource Zone (MRZ) and Agricultural-General (A-G), while the site's zoning designation is Special Use (X). Mining is an allowed use per Amador County ordinance under these land use designations.

Surface and mineral interests on the project site are owned by a GRI affiliate company:

The Reed Leasing Group LLC  
928 12<sup>th</sup> Street  
Modesto, CA 95354

## **2.6 Proposed End Use**

The proposed end use for the ancillary use area following reclamation will be open space, consistent with the historical use of the property and the existing Reclamation Plan. The owner's acknowledgment of this end use is evidenced by the execution of the statement of reclamation responsibility (see Appendix B, Statement of Reclamation Responsibility).

## **3.0 ARTICLE 9 RECLAMATION STANDARDS APPLICABLE TO THE ANCILLARY USE AREA**

SMARA Section 3502(f) requires current reclamation standards, as set out in Article 9 of the regulations, to apply to areas or portions of an approved reclamation plan affected by a minor reclamation plan amendment. Only the ±20-acre ancillary use area is affected by this Minor Amendment to Reclamation Plan RP-06-1. Accordingly, the following reclamation standards shall apply within the ancillary use area.

### **3.1 Financial Assurances (CCR §3702)**

The Jackson Valley Quarry is presently subject to financial assurance requirements under SMARA and County Code. Financial assurances shall remain in effect for the duration of the mining operation and any additional period until reclamation is complete. JVQ's current Financial Assurance Cost Estimate ("FACE") has been revised to reflect the addition of the ancillary use area, and will continue to be updated annually and submitted to the County for review (see Appendix C, Financial Assurance Cost Estimate).



### 3.2 Wildlife Habitat (CCR §3703)

The ancillary use area was included within the area assessed by the 2013 Environmental Impact Report associated with the JVQ expansion project. The ancillary use area is largely comprised of California annual grassland with some blue oak woodland, but does contain approximately 0.39 acres of jurisdictional water features. Impacts to potential wildlife habitat within the ancillary use area, including impacts to the jurisdictional water features, have been fully analyzed and mitigated for through purchase of mitigation credits at the Cosumnes Floodplain Mitigation Bank, and through acquisition of a Streambed Alteration Agreement from the California Department of Fish and Wildlife, Section 404 Permit from the Army Corps of Engineers, and Section 401 Water Quality Certification from the Central Valley Regional Water Quality Control Board. Avoidance and minimization measures contained within the aforementioned regulatory permits will continue to be adhered to mitigate potential impacts to wildlife within the ancillary use area.

### 3.3 Backfilling, Regrading, Slope Stability, and Recontouring (CCR §3704)

Not applicable - no mining is proposed within the ancillary use area.

### 3.4 Revegetation (CCR §3705)

Consistent with the approved Reclamation Plan, species to be planted within the ancillary use area will consist of grasses that have evidenced good success on disturbed soils and are prompt generating grasses acclimated to varying harsh site conditions. Table 1, Revegetation Seed Mix, identifies the existing approved seed mix and application rates:

**TABLE 1**  
**REVEGETATION SEED MIX**

<b>Plant Species</b>	<b>Common Name</b>	<b>Pure Live Seed Per Acre</b>
<i>Leymus triticoides</i>	Creeping Wildrye	10
<i>Bromus carinatus</i>	Cucamonga Brome	10
<i>Elymus glaucus</i>	Blue Wildrye	10
<i>Vulpia microstachys</i>	Small Fescue	2
<i>Nassella cernua</i>	Nodding needlegrass	10
<i>Trifolium wildenovii</i>	Tomcat Clover	4
<i>Phacelia cicutaria</i>	Phacelia	0.50

*Note: Grass will be seeded in the fall, before the winter rains. Modifications to the dryland seed mix may be implemented based on cost, availability from suppliers, and success rates.*

#### *Site Preparation*

Application of selective herbicides may be used ahead of planting to minimize potential for weed growth. If needed, revegetation areas will be ripped, disked and/or scarified to establish a suitable root zone in preparation for reseeding.

### *Access Roads*

At landowner's discretion, perimeter access roads may remain following reclamation to facilitate the proposed end use (e.g., maintenance of perimeter fencing). If removed, roads will be stripped of any roadbase materials, decompacted (ripped/disked), covered with suitable growth media and revegetated consistent with the proposed seed mix in Table 1, above. No temporary access routes are proposed as part of reclamation.

### *Soil Amendments*

Fertilizer (a slow release of organic Biosol Mix [N-P-K=7-2-3] at a rate of 1,000 pounds per acre, or similar) will be applied only if revegetation areas or soil tests show the need for amendments. Soil amendments, if required during revegetation efforts, will be applied according to manufacturer's specifications and will not contribute to contamination of on- or off-site water sources.

### *Irrigation and Soil Stabilization*

Following the initial establishment period, irrigation or further soil stabilizing practices should not be necessary based on the proposed seed mix. Should soil stabilizing practices be needed, straw mulch and/or other BMPs will be used as necessary to control soil erosion.

### *Noxious Weed Control*

Infestations of nonnative plants will be reduced and controlled throughout the ancillary use area if these areas are providing a significant source of weed seeds. Several control measures are available to manage invasive and noxious weeds to stabilize the native environment and achieve management objectives. Appropriate control measures are selected by considering the management objectives, effectiveness of control measures against the target invasive and/or noxious species, environmental factors, economics, policy and legal restrictions, practicality, safety, cost, and geographical extent of the infestation. Below is a list of standard weed management control measures:

- **Prevention:** Emphasizes the prevention and detection of new invasive and/or noxious weed infestations (e.g., removing seed sources from roads and other dispersal routes; reestablishing vegetation in disturbance areas; washing vehicles and equipment to remove weed seeds before they are moved into new areas).
- **Biological Control:** Uses animals, fungi, or other microbes that prey on, consume, or parasitize target invasive and/or noxious weed species (e.g., grazing animals).
- **Chemical Control:** Uses herbicides (chemicals that kill or inhibit plant growth) to reduce or eliminate invasive and/or noxious weed populations.
- **Manual and Mechanical Control:** Uses manual and mechanical techniques to physically remove individual invasive and/or noxious weeds (e.g., pulling weeds by hand, pulling with tools, weed-eating, tilling).

- **Physical Control:** Uses physical means to reduce or eliminate invasive and noxious weed infestations (e.g., fire, flooding, mulching).
- **Cultural Control:** Uses cultivation to limit invasive and noxious weed populations. Cultural control is implemented by introducing pest-resistant native plants suited for the soil and water conditions of the site.

### *Success Criteria*

Performance standards to be met before release of revegetation financial assurance will include a cover value of 80 percent with at least three species of perennial grass per 100 square feet. Revegetation will be reviewed annually by the Lead Agency until reclamation is deemed complete.

### **3.5 Drainage, Diversion Structures, Waterways, and Erosion Control (CCR §3706)**

Mining will not occur within the ancillary use area. Surface runoff will be controlled to protect surrounding land and water resources in accordance with SMARA Regulations section 3706. During site activities, conventional storm water best management practices such as berms, silt fences, revegetation, and hay bales will be used, as needed, to ensure that land and water resources are protected from erosion, gullyng, sedimentation, and potential contamination. Upon completion of mining operations, the ancillary use area will be graded to minimize erosion, revegetated and left in a condition suitable for open space.

### **3.6 Prime Agricultural Land Reclamation (CCR §3707)**

Not applicable - the approved end use for the non-mining areas at the site is open space.

### **3.7 Other Agricultural Land (CCR §3708)**

Not applicable – the approved end use for the non-mining areas at the site is open space.

### **3.8 Building, Structure, and Equipment Removal (CCR §3709)**

Facilities, structures, and equipment associated with mining will be removed from the ancillary use area following final reclamation with the exception of property line fencing and perimeter access roads, which may remain at the landowner’s discretion to facilitate the end use

### **3.9 Stream Protection, Including Surface and Groundwater (CCR §3710)**

No mining will occur within the ancillary use area. Stormwater protection measures designed to minimize or eliminate the potential for erosion and sedimentation discharges offsite are currently in place and will be implemented in the ancillary use area. These measures comply with appropriate sections of the Federal Clean Water Act, Porter-Cologne Act, and the California Regional Water Quality Control Board regulations. The Lead Agency will conduct annual inspections to ensure implementation of these water quality protection measures.

### **3.10 Topsoil Salvage, Maintenance, and Redistribution (CCR §3711)**

Not applicable – no mining will occur within the ancillary use area.

### **3.11 Tailing and Mine Waste Management (CCR §3712)**

Overburden stockpiles and perimeter berms will be graded, wetted, and revegetated, as needed, to minimize water and wind erosion, and will not restrict natural drainage courses. Overburden materials will either be sold as a product (e.g., fill) or used in reclamation.

### **3.12 Closure of Surface Openings (CCR §3713)**

Not applicable – no surface openings occur within the ancillary use area.

## **4.0 LEAD AGENCY REQUIREMENTS [PRC §2772(C)(11)]**

Section 4.0 of this Plan addresses specific lead agency reclamation requirements, where it is believed those requirements either supplement or amplify the requirements of SMARA as outlined in Section 3.0. This part is not intended to restate or address every SMARA code section or policy related to the reclamation of mined lands.

Surface mine reclamation is regulated by Amador County primarily through Amador County Code, Chapter 7.36, Surface Mining and Reclamation (“SMARA Ordinance”), which addresses County regulations and procedures governing the establishment, use and reclamation of mined lands in accordance with the County General Plan, including mining reclamation plans, financial assurances, reporting, inspections and violations.

### **4.1 Surface Mining and Reclamation Code [Chapter 7.35]**

The County’s SMARA Ordinance incorporates SMARA (including the SMGB’s implementing regulations) by reference, except when the provisions of the SMARA Ordinance are more restrictive than correlative state provisions. The following sections outline the SMARA Ordinance’s requirements related to the reclamation of mined lands, with references to where the required standards are addressed in this Plan.

#### **4.1.1 Required Information and Documents [7.36.130]**

Section 7.36.130 tracks the requirements of SMARA Section 2772. Please reference page 1, Chart of SMARA Contents, for a reference table identifying the location of the required elements of PRC Section 2772.

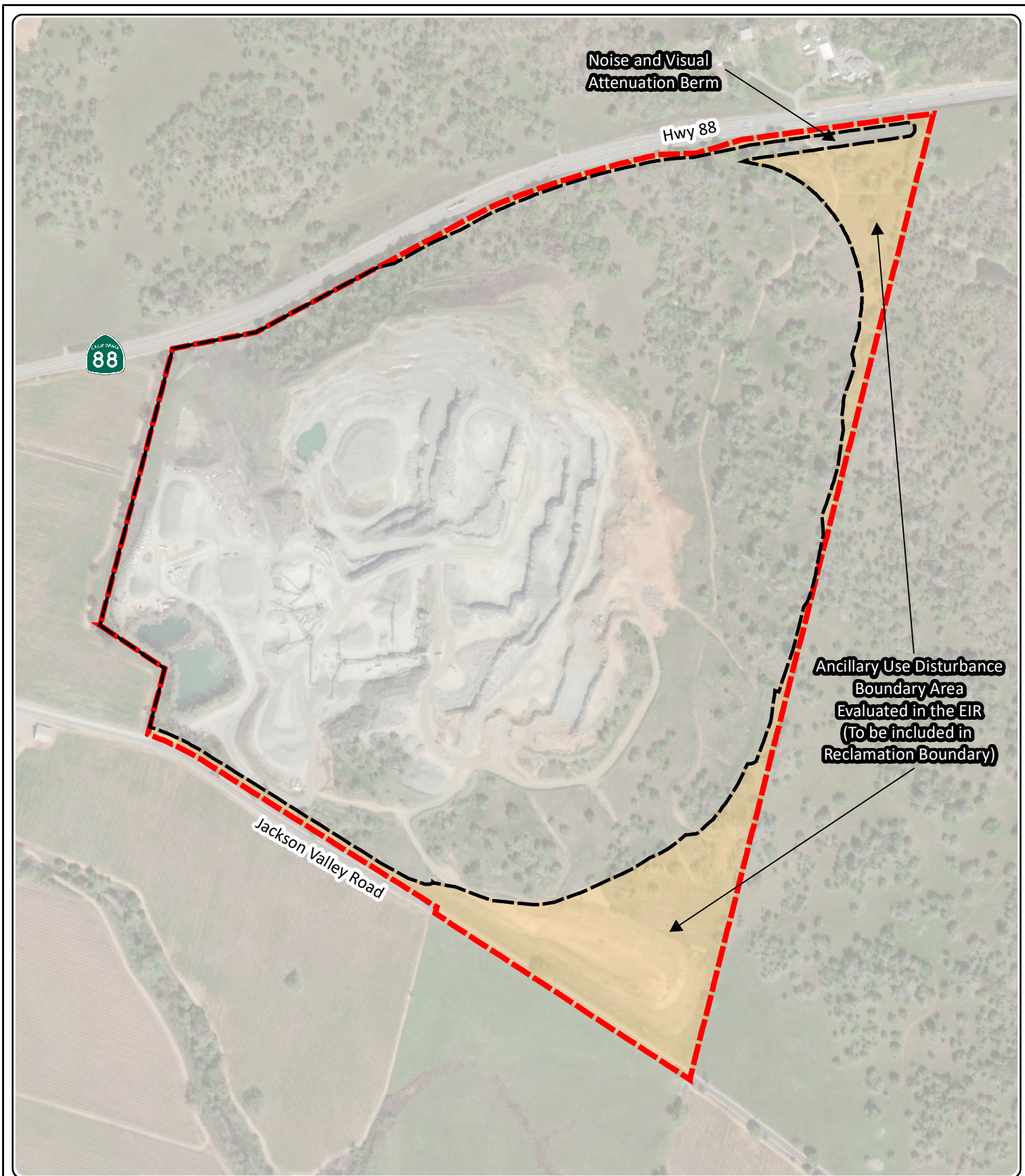
#### **4.1.2 Amendments to Plan [7.36.180]**

Section 7.36.180 of the SMARA Ordinance identifies procedures for amendments to an approved reclamation plan. Consistent with 7.36.180, this Minor Amendment shall be placed on the consent

agenda for approval by the board of supervisors following recommendation by the land use director and agriculture and natural resources committee.

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**FIGURE 1**  
**PROPOSED RECLAMATION BOUNDARY ADJUSTMENT**



Aerial Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Legend:**

- - - Proposed Reclamation Boundary (159.7 Acres)
- Existing Reclamation Plan Boundary RP-06-1 (±139 Acres)
- Ancillary Use Area (±20 Acres)

0      300      600 Feet

N

**Proposed Reclamation  
 Boundary Adjustment  
 Jackson Valley Quarry**  
 George Reed, Inc.  
 Amador County, California

Figure 1	4/21/2021
Disclaimer: The data was mapped for planning purposes only. No liability is assumed for accuracy of the data shown.	

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**APPENDIX A**  
**SITE LEGAL DESCRIPTION**



Recording Requested by:

AND WHEN RECORDED MAIL THIS DEED  
AND, UNLESS OTHERWISE SHOWN BELOW,  
MAIL TAX STATEMENTS TO.

Jeffrey R. Reed  
The Reed Leasing Group, LLC  
928 12<sup>th</sup> Street, Suite 700  
Modesto, CA 95354



Amador County Recorder  
Sheldon D. Johnson

DOC- 2012-0000058-00

Check Number 7887

REQD BY BRUNN & FLYNN

Wednesday, JAN 04, 2012 10:36:01

Ttl Pd \$13.00

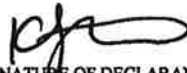
Nbr-0000218122

CT1/R1/1-3

APN: 005-230-016

SPACE ABOVE THIS LINE FOR RECORDERS USE

**GRANT DEED**

DOCUMENTARY TRANSFER TAX \$ <u>0</u>
<input type="checkbox"/> computed on full value of property conveyed, or
<input type="checkbox"/> computed on full value less liens and encumbrances remaining at time of sale

SIGNATURE OF DECLARANT OR AGENT DETERMINING TAX
Brun & Flynn FIRM NAME

FOR VALUABLE CONSIDERATION, receipt of which is acknowledged, REED FAMILY VINEYARDS, LLC, a California Limited Liability Company grants to THE REED LEASING GROUP, LLC, a California Limited Liability Company, all right, title, and interest in the real property situated in the County of Amador, State of California, described as follows:

See "Exhibit A" attached hereto and made a part hereof.

Dated: 12-9, 2011

REED FAMILY VINEYARDS, LLC

By:   
Jeffrey R. Reed, Manager

**ACKNOWLEDGMENT**

State of California  
County of Stanislaus

On December 9 2011 before me, Mardi E. Courtright, Notary Public  
(insert name and title of the officer)

personally appeared Jeffrey R. Reed  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct

WITNESS my hand and official seal.

Signature Mardi E. Courtright (Seal)

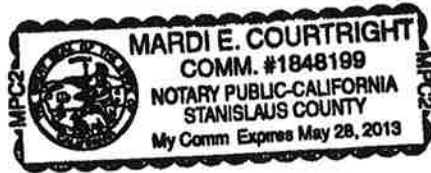


EXHIBIT A

THE LAND REFERRED TO IN THIS REPORT IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF AMADOR, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1 AS SHOWN AND DELINEATED ON PARCEL MAP NO. 2071 FOR NORMAN D. BORTH, ET UX, FILED IN THE OFFICE OF THE COUNTY RECORDER OF AMADOR COUNTY ON OCTOBER 24, 1984 IN BOOK 38 OF MAPS AND PLATS, AT PAGE 73.

EXCEPTING FROM THAT PORTION OF SAID LAND LYING WITHIN LOT NO. 98 AS SHOWN BY STRATTON'S MAP OF SAID RANCHO ARROYO SECO, THE MINERAL ON SAID LAND WITH THE RIGHT TO MINE THE SAME, AS RESERVED IN DEED FROM J. MORA MOSS, ET AL, TO J.C. HAMERICK RECORDED NOVEMBER 23, 1865 IN BOOK "J" OF DEEDS, PAGE 21, RECORDS OF AMADOR COUNTY.

EXCEPTING FROM THE REMAINDER THEREOF, ALL THE MINERALS BENEATH THE SURFACE OF SAID TRACT OF LAND AND OF ALL AND EVERY OF THEM AND ESPECIALLY THE COAL, CLAY AND OTHER LIKE SUBSTANCES WITH THE FULL RIGHT, POWER AND PRIVILEGE TO WORK AT AND MINE FOR AND TAKE OUT AND EXTRACT THE SAME, ALL AS MORE PARTICULARLY PROVIDED IN DEED FROM DAVID D COLTON TO DAVID GOODMAN, RECORDED JUNE 2, 1877 IN BOOK "P" OF DEEDS, PAGE 422, RECORDS OF AMADOR COUNTY.

APN. 005-230-016

END OF DOCUMENT



**ACKNOWLEDGMENT**

State of California  
County of Stanislaus

On January 21, 2013 before me, Mardi E Courtright  
(insert name and title of the officer)

personally appeared Jeffrey R. Reed  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)  are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
 his/her/their authorized capacity(ies), and that by  his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct

WITNESS my hand and official seal

Signature Mardi E. Courtright (Seal)





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**APPENDIX B**  
**STATEMENT OF RECLAMATION RESPONSIBILITY**

# STATEMENT OF RESPONSIBILITY (SOR)

Reference SMARA 2772.C.10

In consideration of approval by the lead agency of this application for a Surface Mining Permit and/or Reclamation Plan, the undersigned, jointly and severally, hereby covenant with the lead agency and the Department of Conservation as follows:

**MINE NAME:** Jackson Valley Quarry

**CALIFORNIA MINE ID #:** 91- 03-0020

**LEAD AGENCY:** Amador County

**CONDITIONAL USE PERMIT #:** UP-06; 9-2

I hereby acknowledge that all of the provisions of said permit and reclamation plan, and any and all conditions appended thereto shall be faithfully performed and completed by the undersigned within the time therein provided, or within any additional time as may be allowed pursuant to the Surface Mining Ordinance Code of the lead agency and with the applicable requirements of Articles 1 and 9 (commencing with section 3500 et seq., respectively) of chapter 8, division 2, title 14, of the California Code of Regulations, the Surface Mining and Reclamation Act of 1975 (SMARA), as amended (section 2710 et seq. of the Public Resources Code) which are incorporated herein by reference.

That the obligations of the undersigned to perform and complete the provisions of said permit and/or plan, including any and all conditions appended thereto, shall be subject to the provisions of said Ordinance Code and SMARA and the State Mining and Geology Board's implementing regulations and guidelines.

That the place of performance by the undersigned of the covenants herein, shall be the area managed by the lead agency in the State of California.

That, pursuant to Public Resources Code section 2774.1 (a) notice procedures, any notice required to be given, or otherwise given to the undersigned may be by personal service or by certified mail.

<b>Owner of Operation Business Structure:</b> (check one)	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Limited Partnership
	<input type="checkbox"/> Limited Liability Corporation	<input type="checkbox"/> Individual
	<input type="checkbox"/> General Partnership	

Check one:



<b>I have</b> posted an adequate financial assurance mechanism pursuant to Public Resources Code section 2773.1 that is equal to or greater than the lead agency approved financial assurance cost estimate.	<b>Date Posted:</b> _____		
<b>Mechanism Type (check one)</b>			
<input checked="" type="checkbox"/> Surety Bond	<input type="checkbox"/> Certificate of Deposit	<input type="checkbox"/> Letter of Credit	<input type="checkbox"/> Other: _____

Or



<b>I will</b> post an adequate financial assurance mechanism, pursuant to Public Resources Code section 2773.1 that is equal to or greater than the lead agency approved financial assurance cost estimate.			
<b>Mechanism Type (check one)</b>			
<input type="checkbox"/> Surety Bond	<input type="checkbox"/> Certificate of Deposit	<input type="checkbox"/> Letter of Credit	<input type="checkbox"/> Other: _____

Dated this 15<sup>th</sup> day of April, 2021

Jeffrey Reed  
Printed Name of Owner of Operation

[Signature]  
Signature of Owner of Operation  
(to be acknowledged by a Notary Public)

<b>FOR DEPARTMENT USE ONLY</b> (completed by staff after approval of project)	
SMARA Database Entry Date	Analyst Initials



# ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
County of Stanislaus

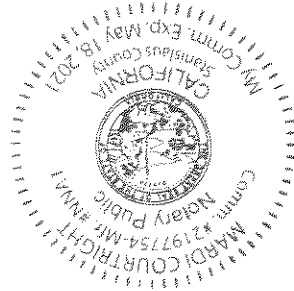
On April 15, 2021 before me, Mardi E Courtwright, Notary Public  
(insert name and title of the officer)

personally appeared Jeffrey Reed  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies); and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Mardi E Courtwright (Seal)



## **STATEMENT OF RESPONSIBILITY (SOR)**

### **INSTRUCTIONS FOR AN EXISTING MINING OPERATION**

Surface mining operations are subject to the requirements of the Surface Mining and Reclamation Act (Public Resources Code 2710 et seq., California Code of Regulations, title 14, section 3500 et seq.) and applicable administrative regulations as well as lead agency (LA) ordinance requirements. When a new mine site operator is going to assume legal and operational responsibility for an existing mining operation in California, it is required to file a Statement of Responsibility (SOR). (Reference PRC section 2772(c)(10)). This statement formally notifies the LA and the State Department of Conservation (Department) that a new individual and/or company is assuming all permitted responsibility for operating the mining site in compliance with the LA-approved Surface Mining Permit and Reclamation Plan, local ordinances, the Surface Mining and Reclamation Act of 1975 (SMARA), associated regulations, and guidelines. If the mining operation will be assumed by someone other than the legal landowner of the property, written authorization from the property owner(s) of record is also required.

The attached forms include places to provide the LA and the Department with the pertinent contact information for the new mine site operator and other information related to the mine site. The SOR form should be signed and acknowledged by a Certified Public Notary and returned, together with the other requested information, to the LA. Once a determination is made by LA staff that the forms have been properly filled out and executed, the LA will notify the Department of the change, and copy the new mine site operator.

Before filing a SOR to assume legal and operational responsibility for a mining operation, the new mine site operator should secure a copy of the approved surface mining permit and reclamation plan from the current or previous property owner and become thoroughly familiar with the requirements that the LA has imposed with respect to the affected mine site.

Additionally, the new mine site operator should request the property owner provide a copy of the latest Surface Mining Inspection Report (MRR-1) prepared by the LA's Mining Inspector and a copy of the latest State Mining Operation Annual Report (MRR-2) filed with the Department and the LA.

Once the new mine site operator has received written confirmation that this filing has been satisfactorily completed, a new financial assurance mechanism must be submitted to the lead agency and reviewed by the Department before existing financial assurance instruments of the previous mine operator can be released by the LA and the Department. (Reference: CCR section 3805.5)

In order to ensure that the required forms have been properly executed, please include the following appropriate documentation with your submittal:

- 1) If the mining operation has been acquired through a change in ownership, the signatures of all the legal owners of record for that property must be included on the SOR.
- 2) If the new or current property owners will be allowing mining operations to be assumed by a third party, a separate letter of authorization to assume this mining operation, signed by each new owner of record, shall be submitted.
- 3) If the person filing the SOR is acting on behalf of a corporation, a resolution from the corporation's board of directors should be submitted which provides authority for this filing and which indicates who has the ability to execute the statement on behalf of the corporation. A minimum of two (2) signatures are required.
- 4) If the person filing the SOR is acting on behalf of a Limited Liability Company, a copy of the company's Articles of Organization must be submitted which clearly indicate who has authority to execute the statement on behalf of the company.
- 5) If the person filing the SOR is acting on behalf of a General Partnership, verification is required to ensure that the signatory is a current partner.
- 6) If the person filing the SOR is acting on behalf of a Limited Partnership, a copy of the partnership agreement must be submitted which indicates who is designated as a general partner within the partnership. Only a general partner may sign the SOR on behalf of the partnership.

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**APPENDIX C**  
**FINANCIAL ASSURANCE COST ESTIMATE**

# FINANCIAL ASSURANCE COST ESTIMATE FOR

Jackson Valley Quarry

(Mine Name)

CA Mine ID # 91- 03-0020

Reclamation Plan #/Name RP-06-1/ JACKSON VALLEY QUARRY

<p>Prepared by: <i>(Name &amp; Affiliation)</i></p> <p><u>Kenneth Cooper</u></p> <p><u>George Reed inc.</u></p> <p>_____</p> <p>_____</p> <p>Date: <u>9/19/2020</u></p>	<p>This financial assurance cost estimate prepared and submitted pursuant to <i>(choose one)</i> :</p> <p><input type="checkbox"/> A new or amended reclamation plan approved on (Date): _____</p> <p>An annual mine inspection performed on <input checked="" type="checkbox"/> (Date): <u>9/22/2019</u></p> <p><input type="checkbox"/> Other: Please Specify: _____</p>
---	--

## Most Recent Approved Financial Assurance Cost Estimate

Date: 11/25/2019

Amount: \$ 716,385.00

## Amount of existing Financial Assurance Mechansim(s)

Date: 4/21/2020

Amount: \$ 717,000

## **I. SUPPORTING DOCUMENTS**

This estimate represents the cost of conducting and completing reclamation in accordance with the Surface Mining and Reclamation Act (SMARA) and the following supporting documents:

### **Reclamation Plan Approval Date and Number**

07/30/2013 RP-06-1

### **Permits and/or Environmental Documents Approved as, or Conditional upon, the Reclamation Plan**

Conditional Use Permit No. UP-06;9-2

### **Other Agency Financial Assurances Securing Reclamation of Disturbed Lands**

N/A

**Wage Rates used in Cost Estimate\*** (cost estimates are required to use current 'General prevailing wage determinations made by the director of industrial relations' where applicable (<http://www.dir.ca.gov/OPRL/PWD/index.htm>) with employer labor surcharge added, or greater)

California Director's General Prevailing Wage Determinations 2020-2021

**Equipment Rates used in Cost Estimates\*** (use current 'Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)' equipment rates published by Caltrans (<http://www.dot.ca.gov/hq/construc/equipmnt.html>) or other publicly available and verifiable local rates)

Cal Trans Equipment Rental rates and Labor Surcharge 04/01/2020 - 03/31/2021

**Equipment Production Rates used in Cost Estimate** (Use of current Caterpillar Performance Handbook or equivalent published production rates is required)

Caterpillar Performance Handbook

*\*Many mine sites are remote projects that require hours of travel (to and from) and sometimes require additional time to prepare for even the simplest of tasks. In accordance with labor Code Sections 1773.1 and 1773.9, contractors are required to make travel and/or subsistence (per diem) payments to each worker to execute the work. These arrangements can be quite variable and site specific.*

### **Attachments:**

## II. Description of Current Site Conditions

*(i.e., disturbed acres, slope conditions, excavation depths, topsoil and overburden stockpiles, equipment and facilities, reclamation in progress, erosion control status, required corrective actions, etc.)*

The Operator continues to mine the existing and new quarry faces, which consist of benches throughout most of the quarry. Processing operations for stockpiles and staging areas occupy much of the pit floor. Most reclamation tasks will not be undertaken until the conclusion of mining. Topsoil is stockpiled onsite for use in final reclamation. These stockpiles are identified in attached map. The operator will continue mining in the easterly direction, and intends to establish a berm location along Highway 88, which will increase the total area of disturbance slightly. The total disturbance from after the 2020-2021 season is estimated to be around 110 acres, this also includes the plant processing facility.

The Jackson Valley Quarry site Reclamation Plan provides for a reclaimed site land use of open space with a basin suitable for water storage at mining end-use.

## III. Description of Anticipated Site Conditions (12 months from date of estimate)

*(i.e., increase of disturbed acres, increase of depth, increases in amount of equipment and/or facilities, required corrective actions, etc.)*

The increase of disturbance area from the FACE submitted in 2020 to the FACE submitted in 2021 is estimated to be 110 acres. This is a combination of additional increase over the remainder of 2020 calendar year as well as the projected increase throughout 2021. The total depth of mining has not changed and remains constant with the previous FACE submitted.

## IV. Description/Justification of Cost Increase/Decrease

Cost changes are due to change in footprint as well as change in equipment and labor rates. No significant change was made to the Reclamation Plan.

## V. PLANT STRUCTURES AND EQUIPMENT REMOVAL *( use multiple sheets as needed)*

*Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.*

### Current Site Condition:

The Operator continues to mine the existing and new quarry faces, which consist of benches throughout most of the quarry. Processing operations for stockpiles and staging areas occupy much of the pit floor. Most reclamation tasks will not be undertaken until the conclusion of mining. Topsoil is stockpiled onsite for use in final reclamation. These stockpiles are identified in attached map. The operator will continue mining in the easterly direction which will increase the total area of disturbance slightly. The total disturbance from after the 2020-2021 season is estimated to be around 110 acres, this also includes the plant processing facility.

### Reclamation Plan Performance Standard (End Use):

The Jackson Valley Quarry site Reclamation Plan provides for a reclaimed site land use of open space with a basin suitable for water storage at mining end-use.

### Describe tasks:

The cost of dismantling saleable equipment, demolishing footings, removing demolished concrete and scrap metal from site, and any other minor site cleanup is estimated. The cost of removing septic system, capping the well and removing overhead power to the site is to prevent nuisance and reduce liability.

NOTE: If the mine were to be abandoned within the near future, considerable resources would remain. The Lead agency may determine that the plant could remain on-site to facilitate reactivation of the mine by another operator.

All equipment is well maintained, in working condition, and is considered company assets. Possible structures needing removal are predominantly foundations and steel support structures.

Disposal costs are per dumpster including hauling and tipping fees. Concrete (10 yd<sup>3</sup> dumpster) Misc. M

Equipment on site wholly owned by operator?:  YES  NO

*(if no, please provide the name/s and contact information for any lien holder)*

**V. PLANT STRUCTURES & EQUIPMENT REMOVAL**

(↑ Describe Reclamation Activity Being Estimated)

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
Caterpillar 980G Front End Loader (LDRRT 2382)	hr	\$200.00	60.0	\$12,000
Cat 436 loader w/ backhoe (LDRRT 1866)	hr	\$46.00	60.0	\$2,760
P&H Omega 40 Crane, 670 TC (S&CTK 7790)	hr	\$123.00	60.0	\$7,380
Water Truck, 4000 gal (T&TT 36-48)	hr	\$64.00	60.0	\$3,840
Cat 345 Hyd Exc w/ hyd hammer (HCECL 0355, 0540)	hr	\$233.00	60.0	\$13,980
Total Equipment Cost for this Task =				\$39,960

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
Equipment Operator (x4 @ 60hr each)	\$83.00	\$0.00	240.0	\$19,920
Truck Driver (Water Truck)	\$64.00	\$0.00	60.0	\$3,840
Laborer (x3)	\$57.00	\$0.00	180.0	\$10,260
Structural Steel Worker (x3)	\$86.00	\$0.00	120.0	\$10,320
Electrician	\$80.00	\$0.00	60.0	\$4,800
Total Labor Cost for this Task =				\$49,140

C. Demolition - List all structures and equipment to be dismantled or demolished and removed from site

Structure/Equipment to be removed	Type of Material	Volume/ Quantity	Unit Cost Basis	Disposal Cost	Cost (\$)
Foundation / Footings / Scrap	concrete	413.00	\$32.00	\$0.00	\$13,216
General Site Cleanup	misc	100.00	\$27.00	\$0.00	\$2,700
Remove Septic System		0.00	\$0.00	\$2,500.00	\$2,500
Cap Well		0.00	\$0.00	\$1,500.00	\$1,500
Remove overhead power lines		0.00	\$0.00	\$1,200.00	\$1,200
Total Materials Cost for this Task =					\$21,116

D. Total Direct Cost of Structure and Equipment Removal (Total A+B+C)

Equipment Cost + Labor Cost + Demolition Cost = \$110,216

E. Net Salvage Value\* (Supported by properly prepared third party estimate, bid, or cost calculation)

Net Salvage Value = \$ 0.00

F. Total Cost of Structure and Equipment Removal (Subtract Line D from Line E)

Total Cost of Structure and Equipment Removal = \$110,216

**NOTE: Above Total Cost will display \$0.00 if net of entered removal costs and salvage value is negative.**

\*Note: Salvage value may only be used to offset the direct cost of removing the single item for which salvage value is being claimed. Salvage value shall not be used to offset any other demolition, general cleanup, or reclamation costs.



## VI. PRIMARY RECLAMATION ACTIVITY

Use multiple sheets as necessary to estimate the cost of each activity required. Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department if necessary.

### Current Site Conditions:

At this point, the Reclamation Plan would not consider reclaiming the sediment / retention ponds necessary; if they remain they may serve a useful purpose (perhaps as stock ponds, wildlife habitat or for future mining operations) Reclamation would not prohibit future quarrying of the significant remaining reserves.

### Reclamation Plan Performance Standard (End Use):

Reclamation Objective (near-term): Open-Space Grazing  
Reclamation Objective (end-use): Basin Suitable for Water Storage

### Describe tasks, methods, equipment, etc:

*Decompaction, cut, fill, haul, slope reduction, compaction, grading, topsoil placement, drainage work, soil amendment, special requirements, etc. Separate sheets may be used for each task if necessary.*

TASK 1: Crest and face bench cleaning with excavator where needed to remove rock fall hazards. 25' wide horizontal benches in active quarry area are cleaned to rough grade with D-10 dozer. Vertical walls (40') of quarry area are left intact at a 1.2 (H):1 (V) slope, as mined. Slope stability analysis indicates appropriate factor of safety reached with this slope. No action or remediation needed. Combined length of benches approx 12,182 ft. = approx. 10 ac of horizontal benches. Remaining material is to be pushed to bottom of pit.

TASK 2: The plant area of 19.8 acres could be reclaimed for agricultural use (livestock grazing). Although the pit area would not be suitable for livestock grazing, it could be re-vegetated. Areas which will be spread with topsoil and re-vegetated will be ripped, where possible. These areas are: plant area (19.8 ac) & area at northeast of site (2.2 acres) haul / access roads around circumference of expanded pit area. Stockpiled topsoil will be spread evenly across the unripped hard rock quarry floor (4.4 ac) and benches (10 ac).

### Provide Quantities:

*Overburden and topsoil, cut and fill, import or export (cubic yards), area (acres), haul distance (feet), equipment production rates (cubic*

TASK 1: Assume a maximum of 24,000 tons (equivalent to 1 production shot) of excess material remaining on pit benches (equivalent to 10,666 cu. yds.). Based on CAT Performance Handbook a push distance of 100 ft has a push rate of 1700 CY/hr. Assume 50% efficiency based on working conditions not allowing a complete bucket push. Assume material needs to be pushed a max of 3 benches. 10,666 CY / 850 CY/hr \* 3 benches = 37 hours. Berm material around quarry benches is to remain in place for safety reasons. Excavator hours are dependent of bench conditions. Benches remain to be in stable conditions not permitting many hours of excavation.

TASK 2: Area to be ripped is approx 22 acres = 958,320 sq. ft. The multi-shank dozer has width of 9 ft. 958,320 sq ft / 9 ft = 106,480 linear ft (20.2 miles) of ripping. A multi-shank dozer has an average speed of 1 mph and has an average rip depth of 2'10". Assume 50% efficiency for unknown material in plant area. Stockpiled topsoil from the west-central area of the pit is to be distributed among the quarry floor and benches. A dozer will push material into quarry floor. 4.4 acres x 2 ft depth = 14,197 CY of material required to cover 2 ft depth of quarry floor. 14,197 CY / 315 CY/hr = 45 hours. Topsoil material from the south-eastern stockpile area will be loaded into end-dumps and distributed among quarry benches. 10 acres x 2 ft depth = 32,552 CY of required top soil for benches. Additional dozer work to spread material on bench floor is approximately 32,552 CY / 850 CY/hr = 38 hrs. Front End Loader w/ 6 CY bucket will load top soil into end dump to be moved. 32,552 CY / 6 CY / 50 buckets per hour = 109 hrs. Three end dump trucks will be used to transport the topsoil material 3 trucks x 109 hrs = 327 truck hours required.

TASK1: Clean Quarry Benches - TASK 2: Spread  
 (↑ Describe Reclamation Activity Being Estimated)

**VI. PRIMARY RECLAMATION ACTIVITY**

Acres:		Overburden (cy):	
Haul Distance (ft):		Topsoil (cy):	
Production Rate (cy/hr):		(NOTE: no automatic calculations occur to data in this upper table)	

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation jobs, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
Cat D-10 Dozer (TRACC 5220) (T1=37hr, T2= 83hr)	hr	\$393.00	120.0	\$47,160
Water Truck, 4000 gal (T&TT 36-48) (T1=37hr, T2= 83hr)	hr	\$64.00	82.0	\$5,248
Cat 345BL Hyd Excavator (HCECL 0355) (T1=24hr, T2= 0hr)	hr	\$198.00	24.0	\$4,752
Cat D-10 Dozer w/ R-7 ripper (TRACC 5220) (T1=0hr, T2= 42hr)	hr	\$393.00	42.0	\$16,506
Cat 980G Front end loader (LDRRT 2382) (T1=0hr, T2= 83hr)	hr	\$200.00	83.0	\$16,600
High Side End Dump (18-22) (x3)	hr	\$81.00	327.0	\$26,487
Total Equipment Cost for this Task =				\$116,753

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge/Hr (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
Equipment Operator (Dozer) (T1=37hr, T2= 112hr)	\$80.00	\$0.00	149.0	\$11,920
Equipment Operator (Excavator) (T1=24hr, T2= 0hr)	\$80.00	\$0.00	24.0	\$1,920
Water Truck Driver (T1=37hr, T2= 83hr)	\$64.00	\$0.00	120.0	\$7,680
Equipment Operator (Loader) (T1=0hr, T2= 83hr)	\$82.00	\$0.00	83.0	\$6,806
Truck Driver (T1= 0hr, T2= 109hr) (x3)	\$64.00	\$0.00	327.0	\$20,928
	\$0.00	\$0.00	0.0	\$0
Total Labor Cost for this Task =				\$49,254

C. Materials - List all materials required to complete identified task

Item	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)
		0.0%		
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
Total Materials Cost for this Task =				\$0

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = **\$166,007**

## VII. REVEGETATION *(use multiple sheets as needed)*

*Provide documentation showing that rates, prices, and wages are available locally to the lead agency and/or the Department.*

### Current Site Condition:

The Operator continues to mine the existing and new quarry faces, which consist of benches throughout most of the quarry. Processing operations for stockpiles and staging areas occupy much of the pit floor. Most reclamation tasks will not be undertaken until the conclusion of mining. Topsoil is stockpiled onsite for use in final reclamation. These stockpiles are identified in attached map. The operator will continue mining in the easterly direction which will increase the total area of disturbance slightly. The total disturbance from after the 2020-2021 season is estimated to be around 110 acres, this also includes the plant processing facility.

### Reclamation Plan Performance Standard (End Use):

Reclamation Objective (near-term): Open Space, Grazing  
Reclamation Objective (end-use): Basin Suitable for Water Storage

### Describe Tasks:

Following the next year of mining, the site would be reclaimed to an agricultural end use, primarily for dry land grazing, except in the pit area. Re-vegetation would not prohibit future quarrying of the significant remaining reserve.

Areas to be re-vegetated (hydroseeded for erosion control), include: 14.4 acres

Horizontal benches (10ac) + Pit floor (4.4 ac)

Areas to be re-vegetated for grazing / grass mix include: 49.9 acres

Plant processing area (19.8 ac) + northeast corner (2.2 ac) = 22 acres

Disturbed areas peripheral to the mine (topsoil stockpile areas, etc.) 27.9 acres

TOTAL: 64.3 acres

Hydroseeding is estimated at \$ .055 - \$0.058 per sq. ft.

Maintain drainage facilities until site is adequately re-vegetated to control erosion. Restore runoff control features as needed. "V" ditches for hydrology control. General grading and erosion control. Site is primarily internally drained. Dozer will be used for drainage maintenance (approx 17 hr).

**VII. REVEGETATION** (use multiple sheets as needed)

(↑ Describe Revegetation Activity Being Estimated)

Methods to be used:

A. Equipment - List equipment to complete identified task. For large reclamation projects, separate mine areas.

Equipment	Unit of Measure	\$/Unit	# of Units	Cost (\$)
Cat D-10 Dozer (TRACC 5220)	hr	\$393.00	17.0	\$6,681
Power Mulcher (BRUCP 00-09)	hr	\$30.00	10.0	\$300
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
		\$0.00	0.0	\$0
Total Equipment Cost for this Task =				\$6,981

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

Labor Category	\$/Hour (prevailing wage)	Labor Surcharge /HR (where applicable) (enter % of wage)	# of Hours	Cost (\$)
		0.0%		
Operator (Dozer)	\$80.00	\$0.00	17.0	\$1,360
Laborer	\$57.00	\$0.00	20.0	\$1,140
Laborer (installation of livestock fence)	\$46.00	\$0.00	32.0	\$1,472
	\$0.00	\$0.00	0.0	\$0
	\$0.00	\$0.00	0.0	\$0
Total Labor Cost for this Task =				\$3,972

C. Materials - List all materials required to complete identified task

Item/Plant Species	Unit of measure	\$/Unit	Sales tax (enter local rate in %)	Quantity	Cost (\$)
			8.0%		
Erosion control: Hydroseeding	acre	\$2,460.00	\$196.80	14.4	\$38,258
Hydroseeding (2-Year Follow Up)	acre	\$2,460.00	\$196.80	7.2	\$19,129
Revegetation (grazing grasses): Hydroseeding	acre	\$2,460.00	\$196.80	49.9	\$132,574
Hydroseeding (2-Year Follow Up)	acre	\$2,460.00	\$196.80	25.0	\$66,420
		\$0.00	\$0.00	0.0	\$0
		\$0.00	\$0.00	0.0	\$0
		\$0.00	\$0.00	0.0	\$0
		\$0.00	\$0.00	0.0	\$0
		\$0.00	\$0.00	0.0	\$0
		\$0.00	\$0.00	0.0	\$0
Total Materials Cost for this Task =				\$256,381	

D. Total Direct Cost for this task

Equipment Cost + Labor Cost + Materials Cost = \$267,334

**VIII. MISCELLANEOUS COSTS** *(use multiple sheets as needed)*

Provide documentation showing that rates, prices, and wages are available locally to all persons, including the lead agency and/or the Department.

Examples of this type of cost may include temporary storage of equipment and materials off site, special one-time permits (i.e. transportation permits for extra wide overweight loads, etc.), decommissioning a process mill (i.e. decontamination of equipment), disposal of warehouse inventories, well abandonment, remediation of fueling and waste oil storage sites, septic system removal, costs to prepare closure and monitoring reports, site security, preserving potable water and maintaining utilities, etc.

Item/Task	Quantity	\$/Unit	Cost (\$)
Straw (per acre)	12.0	\$120.00	\$1,440
Silt Fencing (per linear ft)	1,500.0	\$3.00	\$4,500
Livestock (barbed wire) fencing (per linear ft)	1,200.0	\$5.00	\$6,000
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
	0.0	\$0.00	\$0
Total Miscellaneous Costs =			\$11,940

**IX. MONITORING COSTS**

Monitoring Task	\$/Visit	# of Visits/Year	# of Monitoring Years	Cost (\$)
Monitoring (per EIR MMRP - for interim use; mitigation monitoring if required)	\$1,720.00	1.0	2.0	\$3,440
Closure Report	\$1,720.00	1.0	2.0	\$3,440
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
	\$0.00	0.0	0.0	\$0
Total Monitoring Costs =				\$6,880

**X. SUMMARY OF COSTS**

This section shall be used to summarize all the cost sheets in one place.

(V) Total of all Plant Structures & Equipment Removal Costs	\$	110,216
(VI) Total of all Primary Reclamation Activities Costs	\$	166,007
(VII) Total of all Revegetation Costs	\$	267,334
(VII) Total of all Miscellaneous Costs	\$	11,940
(IX) Total of all Monitoring Costs	\$	6,880
<b>Total of Direct Costs</b>	<b>\$</b>	<b>562,377</b>

**XI. SUPERVISION / PROFIT & OVERHEAD / CONTINGENCIES / MOBILIZATION**

(A) Supervision ( <u>4.9</u> %)	\$	27,606
(B) Profit/Overhead ( <u>9.8</u> %)	\$	55,347
(C) Contingencies ( <u>7.0</u> %)	\$	39,366
(D) Mobilization ( <u>2.0</u> %)	\$	11,248
<b>Total of Indirect Costs</b>	<b>\$</b>	<b>133,567</b>
<b>Total of Direct and Indirect Costs</b>	<b>\$</b>	<b>695,944</b>
(E) Lead Agency and/or Dept. of Conservation Administrative Costs ( <u>10%</u> )	\$	69,594
<b>Total Estimated Cost of Reclamation</b>	<b>\$</b>	<b>765,539</b>