

## DEPARTMENT OF CONSERVATION

## OFFICE OF MINE RECLAMATION

MRRC-1 (4/97) Page 1 of 5 (Rev. 07/13)

## SURFACE MINING INSPECTION REPORT

(See reverse side of each form page for completion instructions)

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| I. Mine Name (As Shown on Approved Reclamation Plan)<br><b>Stevens Creek Quarry</b> | Inspection Date:<br><b>9-12-2019</b> | CA MINE ID#<br><b>91- 43-0007</b> |
|---|--------------------------------------|-----------------------------------|

|  |                    |  |
|--|--------------------|--|
| II. Mine Operator<br><b>Stevens Creek Quarry, Inc.</b> |                    | Telephone<br><b>(408) 253-2512 ext 210</b> |
| Onsite Contact Person<br><b>Jason Voss</b>             |                    | Telephone<br><b>(408) 640-6160</b>         |
| Mailing Address<br><b>12100 Stevens Canyon Rd.</b>     |                    |  |
| City<br><b>Cupertino</b>                               | State<br><b>CA</b> | ZIP Code<br><b>95014</b>                   |
| E-mail Address (optional)<br><b>Jvoss@scqinc.com</b>   |                    |  |

|   |                               |                                    |
|---|-------------------------------|------------------------------------|
| III. Designated Agent<br><b>Jason Voss</b>        |                               | Telephone<br><b>(408) 640-6160</b> |
| Mailing Address<br><b>Same as above</b>           |                               |                                    |
| City<br><b>Same as above</b>                      | State<br><b>Same as above</b> | ZIP Code<br><b>Same as above</b>   |
| E-mail Address (optional)<br><b>Same as above</b> |                               |                                    |

|   |   |                                    |
|---|---|------------------------------------|
| IV. SMARA Lead Agency Name (City, County, BCDC, or SMGB)<br><b>Santa Clara County</b> |   |                                    |
| Inspector<br><b>Robert Salisbury, James Baker, and Steve Beams</b>                    |   | Telephone<br><b>(408) 299-5785</b> |
| Title<br><b>Senior Planner, County Geologist, and Construction Inspector</b>          | Organization<br><b>Department of Planning and Development</b> |                                    |
| Mailing Address<br><b>70 W. Hedding St. East Wing, 7th Floor</b>                      |   |                                    |
| City<br><b>San Jose</b>   | State<br><b>CA</b>  | ZIP Code<br><b>95110</b>           |
| E-mail Address (optional)<br><b>christopher.hoem@pln.sccgov.org</b>                   |   |                                    |

| V. Does the operation have:  | P                        | NR                                  | No                       | Yes  |
|--|--------------------------|-------------------------------------|--------------------------|--|
| A Permit to Mine   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <b>Permit # - Start and Expiration Dates</b><br>1253-94P (Start: 12/17/1996, expired 02/18/2015)                         |
| Vested Right to Mine   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <b>Year of Lead Agency determination</b><br>Mediated Agreement adopted 10/08/2002  |
| A Reclamation Plan   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <b>RP#</b> 1253-94P <b>Date Approved</b> 12/17/1996  |
| Reclamation Plan Amendment   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <b>RP Amendment # (as applies)</b> 1253-07P (R2) <b>Date Approved or Status of Amendment</b> 05/14/2009                  |
| Has the Operator filed a Mining Operation Annual Report (Form MRRC-2) this Year?<br>Check One: |                          |                                     |                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Year of Most Recent Filed Annual Report: 2018</b> |

|   |   |   |
|---|---|---|
| VI. Is this Operation on Federal Land? Check One:<br>If "Yes," Provide One or Both of the Federal Mine Land Identification Numbers Below: |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| California Mining Claim Number (CAMC#):<br>N/A  | Latitude/Longitude at Mine Entrance (Decimal Degrees):<br>37.296172° / -122.083880° |   |
| U.S. Forest Service or BLM Identification Number (Plan of Operations #):<br>N/A   | Status of Plan of Operations (Current/Expired/In Process):<br>N/A                   |   |

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|   |  |                               |   |   |
|---|--|-------------------------------|---|---|
| <b>VII. Financial Assurance</b>   |  | Inspection Date:<br>9-12-2019 | CA MINE ID#: 91- 43-0007  |   |
| Type of Financial Assurance Mechanism(s)  | Financial Assurance Mechanism Number(s)  | Amount of Mechanism           | Date of Expiration  | Date of Lead Agency Approval of Mechanism |
| Surety Bond   | Liberty Mutual #70000907   | \$2,304,756.29                | None  | 11-30-2015                                |
| Total Amount of Mechanism(s)  |  | \$2,304,756.29                |   |   |
| <input type="checkbox"/> Financial Assurance Mechanism Pending Review by Lead Agency? If yes, provide date submitted/explanation and amount of pending mechanism:                                   |  |                               |   |   |
|   |  |                               |   |   |
| Has there been a change of operator since last inspection? If yes provide the date of notice.<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Date of Change: N/A | If yes, has the new operator posted a Financial Assurance Mechanism?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If not, describe status of new operators Financial Assurance Mechanism:<br>N/A |                               | Does new operator's Notice of Change include a statement of responsibility for reclamation?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No |   |

|   |  |                        |
|---|--|------------------------|
| Date and Amount of Most Recent Approved Financial Assurance Cost Estimate:                  | Date: February, 2017   | Amount: \$2,144,310.75 |
| <input type="checkbox"/> Financial Assurance Cost Estimate Pending Review with Lead Agency? | Date Submitted/Explanation/Amount of pending estimate:<br>The 2019 FACE has been reviewed and determined to be adequate by the County of Santa Clara on December 11, 2019. |                        |
| <input type="checkbox"/> Financial Assurance Cost Estimate Appealed by Operator?            | Date Submitted to State Mining and Geology Board or Lead Agency for Appeal/Explanation:<br>N/A   |                        |
| <input type="checkbox"/> Other?   | N/A  |                        |

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| VIII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VIII on reverse side of page.<br><b>[Use separate sheet(s) where necessary. Refer to item numbers below]</b> |  | CA MINE ID #<br><div style="font-size: 1.5em; font-weight: bold;">91- 43-0007</div>  |     |
|--|--|--|-----|
| Potential Reclamation Plan Requirements:   | List Reclamation Plan Requirements (Recommended to be filled out prior to field inspection)  | Note Site Conditions and Compliance Issues (Note additional comments on Page 5 as necessary)   | VN? |
| <b>1) General Information</b>  | Mineral products: aggregate<br>No limit of product as set forth by County approvals. End of operations is not defined in the reclamation plan. The permit has expired and the mine operator has agreed to apply for a new permit. End use pursuant to the Reclamation Plan is Open Space.  | Inspectors observed active mining and recycling operations.  |     |
| a) Permitted Mineral Product(s)  |  |  |     |
| b) Approved Production Amount (Annual/Gross)   |  |  |     |
| c) End Date of Operations Per RP   |  |  |     |
| d) Permit end date   |  |  |     |
| e) End Use   |  |  |     |
| <b>2) Boundaries</b>   | Property and reclamation plan boundaries are shown in Figures 6 and 8 of the reclamation plan approved in May 2009. The property boundary of Parcel B was subsequently modified in a lot line adjustment approved by the County in 2013 to include the Upper Settling Pond.  | The County Surveyor confirmed mining-related ground cracks are located beyond the north & west property lines. A lot line adjustment/legal access will be required for both issues. The area of the recorded lot line adjustment for the Upper Settling Basin and dam is beyond the approved reclamation boundary. All three issues require a Reclamation Plan Amendment (RPA) to comply with the May 2018 Stipulated Order to Comply. |     |
| a) Property Boundary   |  |  |     |
| b) Permit Boundary   |  |  |     |
| c) Rec. Plan Boundary (RPB)  |  |  |     |
| d) Setbacks  |  |  |     |
| <b>3) Slopes – Grading</b>   | Max. working slopes 1.5:1 as shown on Figures 6 and 8 of 2009 reclamation plan amendment (RPA), and on Sheet 2 of 6 of the RPA drawings. Reclaimed in Parcel A to be 1.5:1 slopes as shown in Figure 11, and will vary from 1.5:1 finished cut slopes and 2:1 to 3:1 finished fill slopes in Parcel B, as shown in Figure 13 of the RPA, and on Sheet 3 of 6 of the RPA drawings. See also Appendix D of the RPA (Slope Stability Report) for further information. | Open cracks and vertically displaced scarps were observed on the north, northwest, and southwest finished cut and fill slopes of the quarry. All three issues require a RPA. May 2018 Stipulated Order to Comply included as Attachment B.   | 1   |
| a) Fill Slopes – Note Condition of:  |  |  |     |
| i) Slopes – Working (max/current)  |  |  |     |
| ii) Slopes – Reclaimed   |  |  |     |
| iii) Compaction  |  |  |     |
| b) Cut Slopes – Note Condition of:   |  |  |     |
| i) Slopes – Working (max./current)   |  |  |     |
| ii) Slopes – Reclaimed   |  |  |     |
| <b>4) Erosion Control</b>  | Erosion control is managed through revegetation of disturbed slopes as set forth in the RPA, Section 4, and by managing onsite surface water runoff as shown on Sheet 6 of 6 of the RPA drawings by Resource Design Technology. Erosion control and BMPs are also detailed in Table WQ-4 of the Initial Study for the RPA.   | Inspectors observed fill and recently graded areas. During the inspection it was observed that these areas needed erosion control measures to be installed prior to rain season. Subsequent BMP inspection revealed that these measures were installed.  |     |
| a) BMPs  |  |  |     |
| b) Grading   |  |  |     |
| c) Vegetation  |  |  |     |
| <b>5) Ponds</b>  | RPA Sheet 6 of 6 shows six basins at full excavation and three permanent ponds at final reclamation.   | The Regional Water Quality Control Board (RWQCB) and the County have each issued a Notice of Violation indicating that the Upper Settling Pond cannot be used as a water treatment device because it is in-stream with Rattlesnake Creek. A reclamation plan amendment is required to correct this violation.  | 1   |
| a) Design – Function   |  |  |     |
| b) Capacity (area/depth/volume)  |  |  |     |
| c) Maintenance   |  |  |     |
| <b>6) Stream &amp; Wetland Protection</b>  | Stream protection is addressed in the RPA through erosion control and surface water management as described in RPA Initial Study, implementation of a Storm Water Pollution Prevention Program (SWPPP), dated 2015.  | A discharge pipe was removed from the north side of the Upper Settling Basin. A new stormwater control system is being implemented in compliance with RWQCB requirements.  |     |
| a) Buffers (distance to channel)   |  |  |     |
| b) Berms (distance/length/height)  |  |  |     |
| c) Best Management Practices   |  |  |     |
| d) Drainage  |  |  |     |
| e) Grading & Slopes  |  |  |     |
| f) Stockpiles  |  |  |     |
| g) Stream Diversions   |  |  |     |
| <b>7) Sensitive Wildlife &amp; Plant Protection</b>  | Sensitive wildlife and plant species are described in the RPA initial study, and addressed through mitigation measures, are included in the RPA as Conditions of Approval 14 through 17.   | Mitigation measures are triggered when new areas of disturbance occur through mining or reclamation operations within a 9.5 acre expansion area authorized by the 2009 RPA.  |     |
| a) List Species  |  |  |     |
| b) Protection Measures   |  |  |     |

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| VIII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VIII on reverse side of page.<br><b>[Use separate sheet(s) where necessary. Refer to item numbers below]</b> |  | CA MINE ID #<br><div style="font-size: 1.2em; font-weight: bold;">91- 43-0007</div>  |     |
|--|--|--|-----|
| Potential Reclamation Plan Requirements:   | List Reclamation Plan Requirements<br>(Recommended to be filled out prior to field inspection)   | Note Site Conditions and Compliance Issues<br>(Note additional comments on Page 5 as necessary)  | VN? |
| <b>8) Soil/Overburden Stockpile Management</b>   | Stockpiles of topsoil and overburden are shown in the Existing Conditions, Figures 3 and 4 of the 2009 RPA. A stockpile is located in the east portion of Parcel A that includes topsoil that will be used throughout the site as part of final reclamation. The final slopes are shown on Sheet 6 of 6 of the 2009 RPA.   | Inspectors observed a stockpile of topsoil on site. Operator stated additional topsoil will be imported as needed for final reclamation.   |     |
| a) Topsoil   |  |  |     |
| i) Location  |  |  |     |
| ii) Slope Stability  |  |  |     |
| iii) BMPs  |  |  |     |
| b) Overburden  |  |  |     |
| i) Location  |  |  |     |
| ii) Slope Stability  |  |  |     |
| iii) BMPs  |  |  |     |
| c) Topsoil Application   |  |  |     |
| i) Amendments  |  |  |     |
| ii) Depth  |  |  |     |
| iii) Moisture  |  |  |     |
| iv) Application Methods  |  |  |     |
| <b>9) Revegetation</b>   | The approved RPA revised the plant list of vegetation to be used for revegetation of disturbed areas during reclamation. The plant list is included in Section 4.3 of the RPA (Table 1, "Revised Revegetation Palette"). Location of vegetation types is shown in Figures 16 and 17 of the RPA, as well as Sheet 5 of 6 of the drawings by Resource Design Technology. | An oak tree nursery is in place on-site, germination of oak trees from locally harvested acorns appeared successful, and oak seedlings appear to be generally healthy and growing. Nursery area is irrigated and being maintained by the operator. |     |
| a) Test Plots  |  |  |     |
| b) Species Mix   |  |  |     |
| c) Density   |  |  |     |
| d) Percent Cover   |  |  |     |
| e) Species Richness  |  |  |     |
| f) Protection  |  |  |     |
| g) Success Monitoring  |  |  |     |
| h) Invasive Species Control  |  |  |     |
| <b>10) Structures</b>  | Structures not shown on the reclamation plan to remain following reclamation of the quarry must be removed.  | Structures will be removed prior to final reclamation.   |     |
| <b>11) Equipment</b>   | Equipment used for mining purposes must be removed as part of reclamation of the quarry.   | Mining equipment is currently being used in the operation.   |     |
| <b>12) Closure of Adits</b>  | The mine does not include adits; none are required to be addressed through reclamation.  | N/A  |     |
| <b>13) Other Reclamation Plan Requirements</b>   | N/A  | N/A  |     |

## SURFACE MINING INSPECTION REPORT

|   |   |
|---|---|
| <p>IX. List comments/description/sketches to support observations of mine site conditions, including violations. Where any violations are noted, list in numerical order, along with suggested corresponding corrective actions. Also describe preventative measures recommended by the inspector to avoid or remedy potential violations. Indicate if you have attached photos, sketches, and/or notice(s) of violation(s) or other documents to this form.<br/> <b>(Add additional sheets as necessary)</b></p> <p>The following attachments include additional information:</p> <p>Attachment A - Notes and Photographs</p> <p>Attachment B - 2017 Notice of Violation</p> <p>Attachment C - 2018 Stipulated Order to Comply</p> <p>Stevens Creek Quarry has ceased discharging process water into the in-stream detention basin, thereby correcting the four water quality violations listed as 1 (a), (b), (c), and (d) in the attached 2017 NOV.</p> <p>The 2017 violations related to slopes failures and disturbances outside of the approved reclamation plan boundary (2017 NOV - violations 2,3,4) will be corrected by the operator via submittal and approval of a reclamation plan amendment. A revised compliance agreement is being drafted to ensure that the operator submits the required reclamation plan amendment application and completes the review and approval process.</p> <p>No new violations were observed during the 2019 inspection.</p> <p>Additional sheets/documents attached: <input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p> | <p>CA MINE ID #<br/> <b>91- 43-0007</b></p> <hr/> <p>Inspection Date:<br/> <b>9-12-2019</b></p> <hr/> <p>Weather Code(s):<br/> <b>CR</b></p> <hr/> <p>Duration of Inspection: 2.5 hours<br/>       Start Time: <b>10:00 am</b><br/>       End Time: <b>12:30 pm</b></p> <hr/> <p>Status of Mine Code(s):<br/> <b>Active</b></p> <hr/> <p>Status of Reclamation Code(s):<br/> <b>R</b><br/>       Approximate Acreage Under Reclamation:<br/> <b>13</b><br/> <small>Approximate Acreage the lead agency has determined reclaimed in accordance with the approved reclamation plan: 0.0</small></p> <hr/> <p>Approximate Total Disturbed Acreage:<br/> <b>123</b><br/>       Approximate Pre-SMARA Disturbed Acreage:<br/> <b>N/A</b></p> <hr/> <p>Disturbed Acreage Identified in Most Recent Financial Assurance Cost Estimate:</p> <hr/> <p>Previous Inspection Date (and Number of Violations then Noted):<br/> <b>9-11-2018 (7)</b><br/>       Violations Corrected? (explain in block to left)<br/> <b>No</b></p> <hr/> <p>Inspection Attendees and Affiliations:</p> <p><b>Santa Clara County:</b><br/> <b>Robert Salisbury</b><br/> <b>Jim Baker</b><br/> <b>Steve Beams</b></p> <p><b>Stevens Creek Quarry:</b><br/> <b>Jason Voss</b></p> |
|---|---|

|   |  |   |
|---|--|---|
| <p>X. Number of Current Violations:<br/> <b>3</b></p> | <p>Inspectors Signature: <i>Robert Salisbury</i><br/> <small>DocuSigned by:</small></p> <p>Date Signed: <b>12/13/2019</b><br/> <small>C140DFC1F718456...</small></p> | <p>If inspector is a contractor for the lead agency give license type and number:<br/> <b>N/A</b></p> |
|---|--|---|

## **Attachment A**

### **2019 Stevens Creek Quarry Annual SMARA Inspection**

**County File 1253-19PAM  
State Mine ID #91-43-0007**

**Inspection Date: September 12, 2019**

**Report Date: December 12, 2019**

The mine entrance is located near latitude 37.296172° and longitude -122.083880°.

The 2019 annual SMARA inspection was conducted for approximately 2.5 hours on the morning of September 12, 2019. In attendance were James Baker (County Geologist), Robert Salisbury (Senior Planner), and Jason Voss (Operator). The mine was active during the inspection. The weather during the inspection was clear.

In addition to the annual SMARA inspection, the County also inspects Stevens Creek Quarry (Quarry) on a monthly basis to monitor stormwater controls and any other compliance issues.

#### **BACKGROUND**

Stevens Creek Quarry lies in a north-northwest trending canyon on the northeast side of Monte Bello Ridge in the Santa Cruz Mountains. The access to the mine is off of Stevens Canyon Road, which runs along the west side of the Stevens Creek Reservoir and Stevens Creek County Park. The County approved the current Reclamation Plan Amendment in May 2009. The current mining operations occur in two areas commonly referred to as "Parcel A" and Parcel "B". Parcel A encompasses 51 acres on the southeast side and Parcel B, encompassing a combined 96 acres on the northwest. The mine operations and reclamation plan encompass approximately 147 acres of a 167-acre site. Parcel A is the southeastern portion of the mine and contains the mining operations offices, shops, and maintenance facilities. The County issued a Use Permit in 1996 for recycling concrete, asphalt, and soil; this recycling facility is also located on Parcel A.

Mineral extraction primarily occurs on Parcel B where rock is mined from a large, steep-walled pit and the crushing, screening and sorting equipment occupy a portion of Parcel B. Mining in Parcel B extracts primarily Franciscan greenstone for aggregate. The land to the north, east, and west sides of Parcel B is undeveloped land owned by Lehigh Southwest Cement Company. The adjacent properties to the south of the main quarry pit are residential (single-family residences).

#### **SITE CONDITIONS**

Recycling Operations: The northeastern portion of Parcel A was previously mined and is currently used for (1) storage of overburden materials to eventually be used to backfill the lower portion of the cut slopes of the Quarry pit on Parcel B, and (2) recycling of concrete, asphalt and

soil that are brought to the site from nearby construction projects. Large stockpiles of these imported materials are placed along the northern portion of the Parcel A boundary and partially bury the previously mined slope. [See **Photo 1** below.] The recycling equipment is located north of the Quarry offices on Parcel A. [See **Photos 23 and 24** below.]

*Slump Repair:* An area located east of the recycling operation on Parcel A had a slump repair (2012) that is now buried and appears stable. [See **Photo 2** below.]

*Stockpile Parcel A:* Inspectors observed a large stockpile of topsoil on Parcel A.

*Settling Basins:* Stormwater from the Quarry is stored in a series of settling basins (Upper Settling Basin, Middle Settling Basin, Lower Settling Basin) located in the southern portion of the site. Two of these basins (Middle and Lower) are in Parcel A, the Lower basin being the largest. [See **Photo 28** below.] The settling basins eventually discharge off-site via a southeastern stormwater detention basin adjacent to the mine entrance. Discharge water enters a tributary feeding Stevens Creek Reservoir. An earthen dam (approximately 55 feet high) is located between Upper Settling Basing and Middle Settling Basin. [See **Photo 25** below, taken from top of dam.] The southern portions of the dam and Upper Settling Basin were previously located beyond the property line. A lot line adjustment was recorded on July 19, 2017 to expand the property boundary to include these features. A Reclamation Plan Amendment (RPA) is needed to modify the boundary of the Reclamation Plan area to include the entirety of the Upper Settling Basin and dam. The County identified this violation and sent the Quarry a Notice of Violation in September 2017. The Quarry subsequently entered into a Stipulated Order to Comply and Compliance Agreement with the County on May 16, 2018. The Quarry operator will be submitting a Reclamation Plan Amendment application in the near future. The County is drafting a new Compliance Agreement which will include RPA submittal deadline, and other RPA application processing deadlines to ensure that processing of the forthcoming RPA application is not unduly delayed.

*Stormwater Best Management Practices (BMPs):* County previously observed ongoing erosion gullies located on fill slopes (Parcel B) above haul road. The operator implemented erosion control and BMP measures at the suggestion of the County including hydroseeding. These measures appear to be functioning adequately. [See **Photo 29** below.] The County will continue to inspect this area to ensure these necessary BMPs are maintained.

*Crusher and Retaining Wall:* Mining is conducted in Parcel B in a north-northwest trending quarry where Franciscan greenstone bedrock is extracted. Equipment for crushing and sorting rock materials is located on Parcel B. Inspectors observed crusher equipment was relocated to , the southeast portion of Parcel B. [See **Photo 7** below.] Last year the operator excavated soil from behind the north wall, replaced the wall panels, and recompact the slope behind the wall.

*Failure of North “Finished” Cut Slope:*

County inspectors observed the repair of the perimeter access road which was previously disrupted by the headscarp of a large landslide. [See **Photo 9** below.]

Operator submitted a geologic report dated 1-29-2017 that recommended an additional width (200 feet) of buttress be added to the toe of the slope in order to achieve an acceptable factor of

safety. Last year a large buttress fill was being placed against the lower and middle portions of the slope below the north slope. This year County inspectors observed that additional buttress fill had been placed. [See **Photo 14** below.] However, County inspectors observed new ground cracks in the buttress fill material. [See **Photo 10** below.]

*Failure of Northwest “Finished” Cut Slope:*

Another slope failure has disrupted the cut slope on the northwest side of the quarry pit. The headscarp of that failure has affected the southern end of the retaining wall built to protect the radio shack at the top of the slope. [See **Photos 13 and 15** below.]

Last year, County inspectors observed that the ground surface adjacent to the radio shack had dropped, causing protrusion of concrete piers. Since then, the operator placed gravel, burying the piers. [See **Photo 16** below.] However, associated ground cracks were observed at the top of the slope failure, west of the western property boundary. [See **Photo 17** below.] The County has requested additional geotechnical analysis of these slopes as part of the forthcoming RPA needed to fully abate existing SMARA violations.

*Failure of Southwest “Finished” Cut Slope:*

Another slope failure has disrupted the cut slope on the southwest side of the quarry on Parcel B. Inspectors observed that the headscarp of the failure had approached the retaining wall built to protect three PG&E power poles. [See **Photo 18** below.] Last year, County inspectors observed landslide debris accumulation at the toe of the slope. During the current inspection, the operator was in the process of removing this material. [See **Photo 19** below.]

*Rattlesnake Creek:*

In 2017, County observed a slope failure above Rattlesnake Creek along a road towards the west end of Parcel B. The Quarry built a fill slope to repair the road and installed jute netting on said slope. [See **Photo 20** below.]

*Cut Slope Along Southeastern Side of Parcel B:*

A slope adjacent to the operating equipping toward the southeastern corner of Parcel B has had a shallow failure. [See **Photo 21** below.] Although the ground has moved, the County expects this area to be corrected during final reclamation.

**ACTION ITEMS**

1. *Revegetation:* Operator has installed a nursery with an automatic watering system to germinate and raise native oak trees. [See **Photo 4** below.] County suggested that the Mine Operator establish vegetation test plots on quarried conditions similar to those that will exist for reclamation to prove the viability of proposed reclamation plantings, and retain a botanist or



qualified biologist for the installation and reporting to achieve results for revegetation in accordance with the standards of the Reclamation Plan.

2. *Mine Boundary*: County has directed the Mine Operator to demarcate the property line with T-stakes painted in a bright color (e.g., orange) to ensure mining activities do not extend beyond the property line.
3. *Stormwater BMPs*: Last year, County inspectors observed fill slopes with no erosion control measures, primarily in the area of the new crusher and adjacent to the haul road. County required the operator to implement soil stabilization measures and install adequate BMPs, including hydroseeding, at all locations where active grading or disturbed soil have occurred. Subsequently, these measures were implemented and appeared to be functioning adequately. The County will perform follow-up inspections to verify that BMPs are maintained.
4. *Compliance*: In May 2018, the operator entered into a Compliance Agreement with the County which requires that the operator apply for a Reclamation Plan Amendment to modify the Reclamation Plan boundary, address slope failures, and relocate the Upper Settling Basin outside of Rattlesnake Creek. As noted above, the County is preparing a modified Compliance Agreement which will specify an RPA application submittal deadline and processing milestones.

#### **FINANCIAL ASSURANCE COST ESTIMATE**

The operator submitted the 2019 FACE on October 11, 2019.

**Photos:**



*Photo 1: Recycling operation on Parcel A.*



*Photo 2: Repaired slope between Parcel A and gun club.*

*Photo 3: Stockpiled soil on Parcel A – photo not taken during 2019 inspection.*



Photo 4: Nursery for germinating native oak trees with close-up inset.

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Photo 5: Face of dam between upper and middle settling basins – photo not taken in 2019.

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Photo 6: Erosion rills on fill slope above main haul road - photo not taken in 2019.

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Photo 7: Relocated rock crusher.

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Photo 8: North perimeter road cut slope. No change in condition – photo not taken in 2019.

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*Photo 9: Area of former retaining wall above north high wall.*

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*Photo 10: Ground crack on top of buttress fill of north high wall.*

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*Photo 11: Ground crack on east-facing fill slope near northeastern corner of property - photo not taken in 2019.*

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*Photo 12: Buttress fill on north high wall – photo not taken in 2019.*

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*Photo 13: Buttress fill on north high wall. West side of pit visible on the left.*

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*Photo 14: Panorama of buttress fill below retaining wall on northwest high wall.*

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*Photo 15: Slope failure on western high cut wall.*

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*Photo 16: Ground cracks near northwest property line.*

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*Photo 17: Ground cracks and headscarp beyond northwest property line.*

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*Photo 18: Slope failure on southwestern high cut wall, looking south. (Profile view)*

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*Photo 19: Slope failure on southwestern high cut wall, looking west. (Head-on view)*

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*Photo 20: Regraded slope along the north side of Rattlesnake Creek.*

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*Photo 21: Shallow failures of cut slope along east side of Parcel B.*

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*Photo 22: Dirt stockpile at eastern portion of Parcel A.*



*Photo 23: Dirt stockpile and processing equipment at eastern portion of Parcel A.*



*Photo 24: Recycle stockpile has been reduced in size since last year.*



*Photo 25: Upper Settling Basin.*

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*Photo 26: Pond 5.*

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*Photo 27: Pond west of office.*

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*Photo 28: Middle and Lower Settling Basins.*

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*Photo 29: Check dams along road by northside of Rattlesnake Creek.*

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*Photo 30: Settling basin near main entrance.*

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