State of California
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)	Inspection Date:	CA MINE ID#
Stevens Creek Quarry	9-14-2018	91- 43-0007

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

III. Designated Agent		Telephone
Jason Voss		(408) 640-6160
Mailing Address		
Same as above		
City	**State**	**ZIP Code**
Same as above	Same as above	Same as above
E-mail Address (optional)		
Same as above		

IV. SMARA Lead Agency Name (City, County, BCDC, or SMGB)		
Santa Clara County		
Inspector		**Telephone**
Christopher Hoem, James Baker, and Steve Beams		(408) 299-5784
Title	**Organization**	
Senior Planner, County Geologist, and Construction Inspector	Department of Planning and Development	
Mailing Address		
70 W. Hedding St. East Wing, 7th Floor		
City	**State**	**ZIP Code**
San Jose	CA	95110
E-mail Address (optional)		
christopher.hoem@pln.sccgov.org		

V. Does the operation have:	P	NR	No	Yes
A Permit to Mine	☐	☐	☐	Permit # - Start and Expiration Dates: 1253-94P (Start: 12/17/1996, expires 02/18/2015; renewable)
Vested Right to Mine	☐	☒	☐	Year of Lead Agency determination: Mediated Agreement adopted 10/08/2002
A Reclamation Plan	☐	☒	☐	RP# 1253-94P Date Approved 12/17/1996
Reclamation Plan Amendment	☐	☒	☐	RP Amendment # (as applies) 1253-07P (R2) Date Approved or Status of Amendment 05/14/2009

Has the Operator filed a Mining Operation Annual Report (Form MRRC-2) this Year? Check One: ☑Yes ☐No **Year of Most Recent Filed Annual Report:** 2017

VI. Is this Operation on Federal Land? Check One: If "Yes," Provide One or Both of the Federal Mine Land Identification Numbers Below:	☐Yes	☑No
California Mining Claim Number (CAMC#): N/A	**Latitude/Longitude at Mine Entrance (Decimal Degrees):** 37° 17.785'N / 122° 05.071'W	
U.S. Forest Service or BLM Identification Number (Plan of Operations #) : N/A	**Status of Plan of Operations (Current/Expired/In Process):** N/A	

SURFACE MINING INSPECTION REPORT

VII. Financial Assurance		Inspection Date: 9-14-2018	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		

☐ **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.	**If yes, has the new operator posted a Financial Assurance Mechanism?**	**Does new operator's Notice of Change include a statement of responsibility for reclamation?**
☐Yes ☑No	☐Yes ☐No	☐Yes ☐No
Date of Change: N/A	**If not, describe status of new operators Financial Assurance Mechanism:** N/A	

Date and Amount of Most Recent Approved Financial Assurance Cost Estimate:	**Date:** Statement of Adequacy sent on 4-20-2018. The County recommended no reduction in the FAM. **Amount:** SCQ requested $1,911,126.00. County maintained FAM at $2,304,756.29.
☐ **Financial Assurance Cost Estimate Pending Review with Lead Agency?**	**Date Submitted/Explanation/Amount of pending estimate:** 2018 FACE due October 14, 2018
☐ **Financial Assurance Cost Estimate Appealed by Operator?**	**Date Submitted to State Mining and Geology Board or Lead Agency for Appeal/Explanation:** N/A
☐ **Other?**	N/A

SURFACE MINING INSPECTION REPORT

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. **[Use separate sheet(s) where necessary. Refer to item numbers below]**		CA MINE ID # **91-** 43-0007	
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?
1) General Information 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	Mineral products: aggregate 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.	
2) Boundaries a) Property Boundary b) Permit Boundary c) Rec. Plan Boundary (RPB) d) Setbacks	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.	
3) Slopes – Grading 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	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. See Attachment B.	
4) Erosion Control a) BMPs b) Grading c) Vegetation	Erosion control is managed through revegetation of disturbed slopes as set forth in the RPA, Section 4, and by managing onsite surface water runnoff 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. These areas needed erosion control measures to be installed prior to rain season.	
5) Ponds a) Design – Function b) Capacity (area/depth/volume) c) Maintenance	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 a water treatment device because it is in-stream with Rattlesnake Creek. See Attachment B.	1
6) Stream & Wetland Protection a) Buffers (distance to channel) b) Berms (distance/length/height) c) Best Management Practices d) Drainage e) Grading & Slopes f) Stockpiles g) Stream Diversions	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.	
7) Sensitive Wildlife & Plant Protection a) List Species b) Protection Measures	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 mine or reclamation operations within a 9.5 acre expansion area authorized by the 2009 RPA.	

SURFACE MINING INSPECTION REPORT

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. **[Use separate sheet(s) where necessary. Refer to item numbers below]**		CA MINE ID # **91-** 43-0007	
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?
8) Soil/Overburden Stockpile Management	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 did not observe a stockpile of topsoil on site. Operator stated topsoil will be imported 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			
9) Revegetation	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.	Test plots to test for and ensure success of revegetation plan have been constructed. First round of oak germination appeared successful.	
a) Test Plots			
b) Species Mix			
c) Density			
d) Percent Cover			
e) Species Richness			
f) Protection			
g) Success Monitoring			
h) Invasive Species Control			
10) Structures	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.	
11) Equipment	Equipment used for mining purposes must be removed as part of reclamation of the quarry.	Mining equipment is currently being used in the operation.	
12) Closure of Adits	The mine does not include adits; none are required to be addressed through reclamation.	N/A	
13) Other Reclamation Plan Requirements	N/A	N/A	

SURFACE MINING INSPECTION REPORT

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.
(Add additional sheets as necessary)

The following attachments include additional information:

Attachment A - Notes and Photographs

Attachment B - May 16, 2018 Stipulated Order to Comply

The 2017 violations are being corrected by the Quarry via compliance with the May 2018 Stipulated Order to Comply.

Additional sheets/documents attached: ☑ Yes ☐ No

CA MINE ID #
91- 43-0007

Inspection Date:
9-14-2018

Weather Code(s):
CR

Duration of Inspection: 2 hours

Start Time: 9:30 am

End Time: 11:30 pm

Status of Mine Code(s):
Active

Status of Reclamation Code(s):
R

Approximate Acreage Under Reclamation:
13

Approximate Acreage the lead agency has determined reclaimed in accordance with the approved reclamation plan: 0.0

Approximate Total Disturbed Acreage:
123

Approximate Pre-SMARA Disturbed Acreage:
N/A

Disturbed Acreage Identified in Most Recent Financial Assurance Cost Estimate:
117.8

Previous Inspection Date (and Number of Violations then Noted):
9-14-2017 (7)

Violations Corrected? (explain in block to left)
7

Inspection Attendees and Affiliations:

Santa Clara County:
Christopher Hoem
Jim Baker
Steve Beams

Stevens Creek Quarry:
Jason Voss

X. Number of Current Violations:	Inspectors Signature:	If inspector is a contractor for the lead agency give license type and number:
7	Date Signed:	N/A

Attachment A

2018 Annual SMARA Inspection of

Stevens Creek Quarry
County File 1253-18PAM
State Mine ID #91-43-0007

Inspection Date: September 14, 2018

Report Date: October 3, 2018

The mine entrance is located near latitude 37° 17.785'N and longitude 122° 05.071'W.

The 2018 annual SMARA inspection was conducted for approximately 2 hours on the morning of September 14, 2018. In attendance were James Baker (County Geologist), Christopher Hoem (Senior Planner), Steve Beams (Senior Construction Inspector), and Jason Voss (Operator). The mine was active during the inspection. The weather during the inspection was clear.

The County 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, 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. Weathered overburden is being stockpiled for use as backfill for reclamation. 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 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 topsoil 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. The recycling equipment is located north of the Quarry offices on Parcel A.

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.

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. 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. 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 is currently performing an in-depth geologic evaluation that will inform the Reclamation Plan Amendment process in the near future.

Stormwater Best Management Practices (BMPs): County observed ongoing erosion gullies located on fill slopes (Parcel B) above haul road. Erosion control and BMP measures, including hydroseeding for winter, should be implemented at all locations where active grading or disturbed soil exists (new crusher, fill slope near creek, etc.). The County intends to conduct a final inspection of the completed work.

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. The Quarry excavated the soil from behind the north wall, replaced the wall panels, and recompacted 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.

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. As of the date of the inspection, a large buttress fill was being placed against the lower and middle portions of the slope below the north slope.

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.

The ground surface adjacent to the radio shack has dropped, causing the protrusion of concrete piers. Associated ground cracks were observed at the top of the slope failure, west of the western property boundary.

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 the headscarp of the failure approaching the retaining wall built to protect three PG&E power poles. Landslide debris was observed to have accumulated at the toe of the slope.

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.

Cut Slope Along Southeastern Side of Parcel B:

A slope adjacent to the operating equiping toward the southeastern corner of Parcel B has had a shallow failure. 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. County recommends 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. County recommends Mine Operator 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 recommends the Mine Operator 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*: County inspectors observed fill slopes with no erosion control measures, primarily in area of new crusher and adjacent to haul road. County requires operator to implement soil stabilization measures and install adequate BMPs, including hydroseeding, at all locations where active grading or disturbed soil have occurred. County will perform final inspection of completed work.

4. *Compliance:* In May 2018, the Quarry entered into a Stipulated Order to Comply with the County which requires that the Quarry address issues involving Reclamation Plan boundaries, slope failures, and the Upper Settling Basin.

FINANCIAL ASSURANCE COST ESTIMATE

The Quarry has not yet submitted the 2018 FACE, which is due October 14, 2018.

Photos:

Photo 1: Recycling operation on Parcel A.

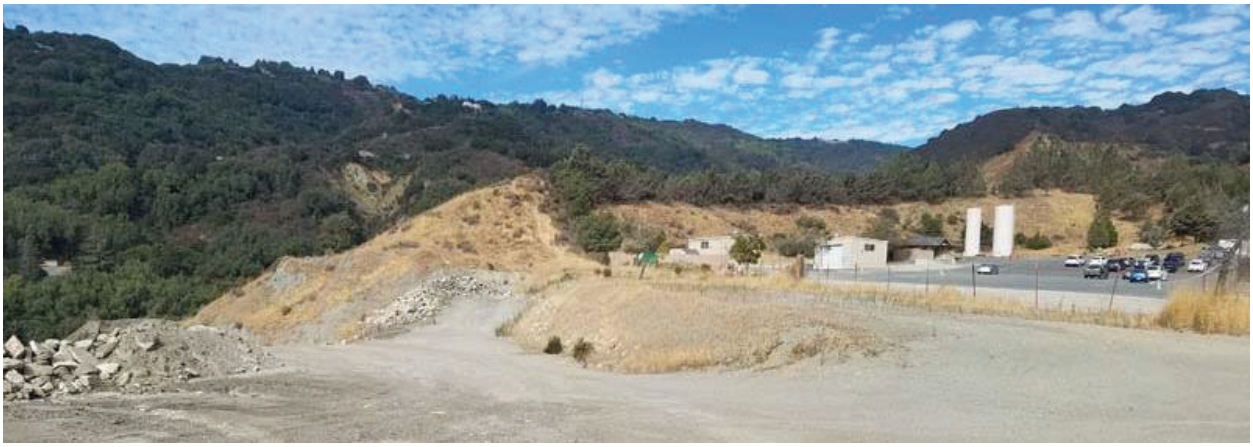

Photo 2: Repaired slope between Parcel A and gun club.

Photo 3: Stockpiled soil on Parcel A.

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

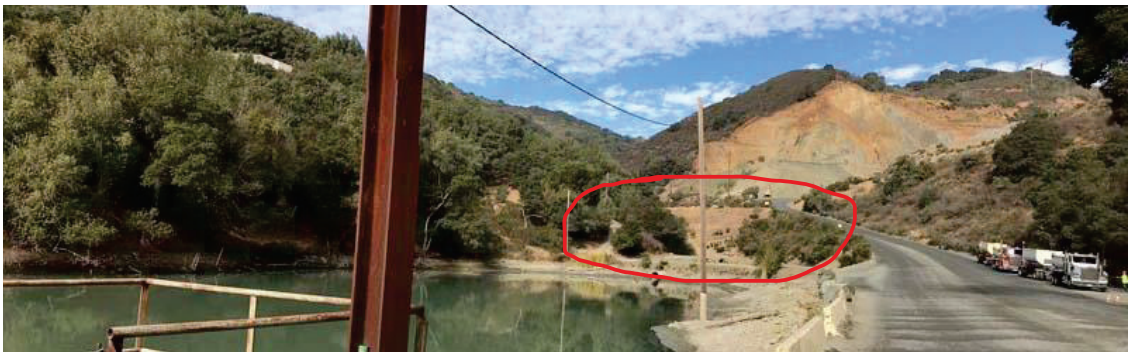

Photo 5: Face of dam between upper and middle settling basins.

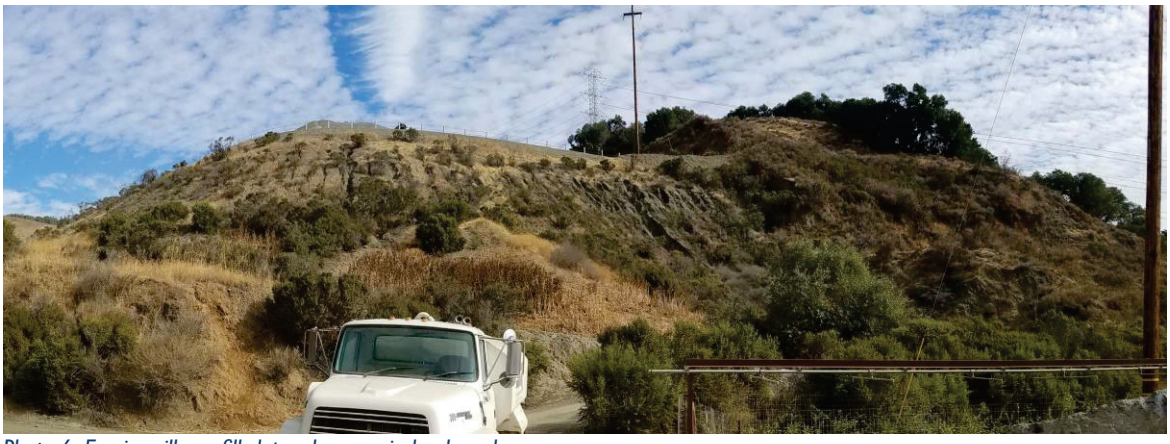

Photo 6: Erosion rills on fill slope above main haul road.

Photo 7: Relocated rock crusher.

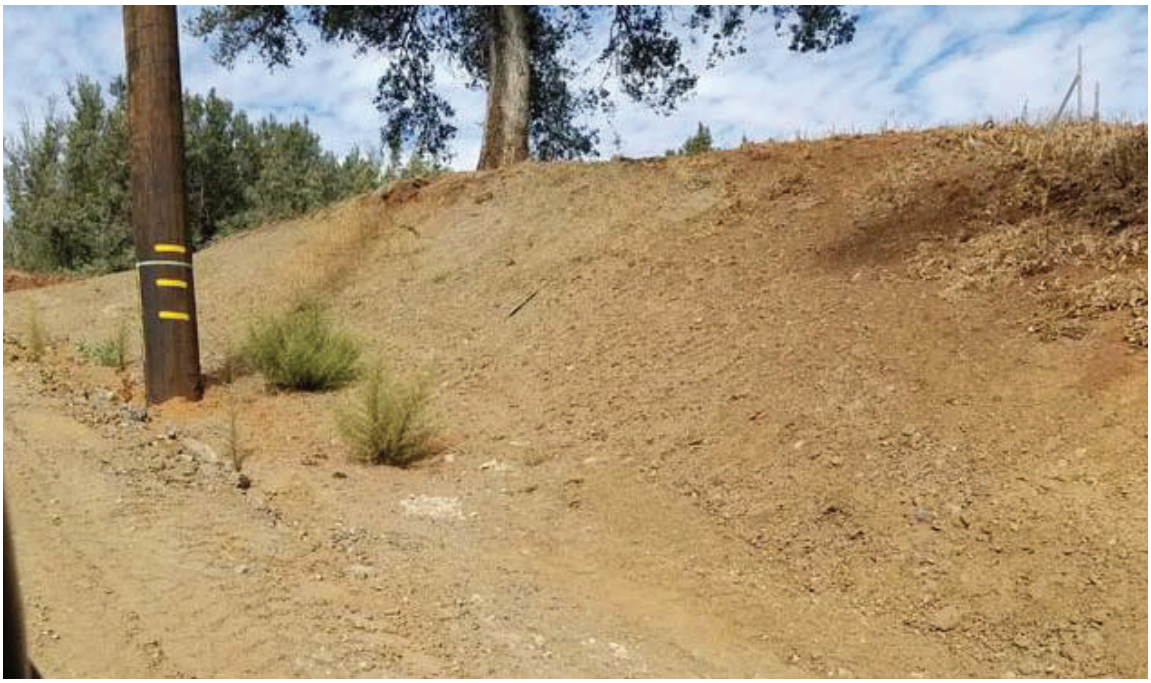

Photo 8: North perimeter road cut slope. Grading has obliterated the ground movement cracks observed in 2017.

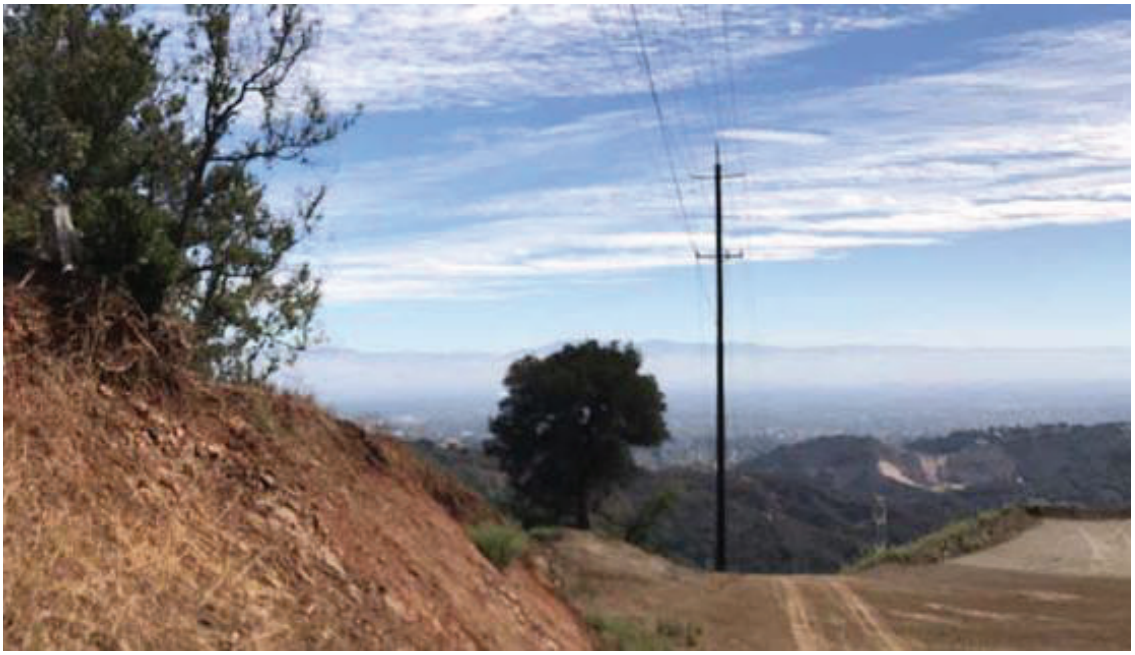

Photo 9: Area of former retaining wall above north high wall.

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

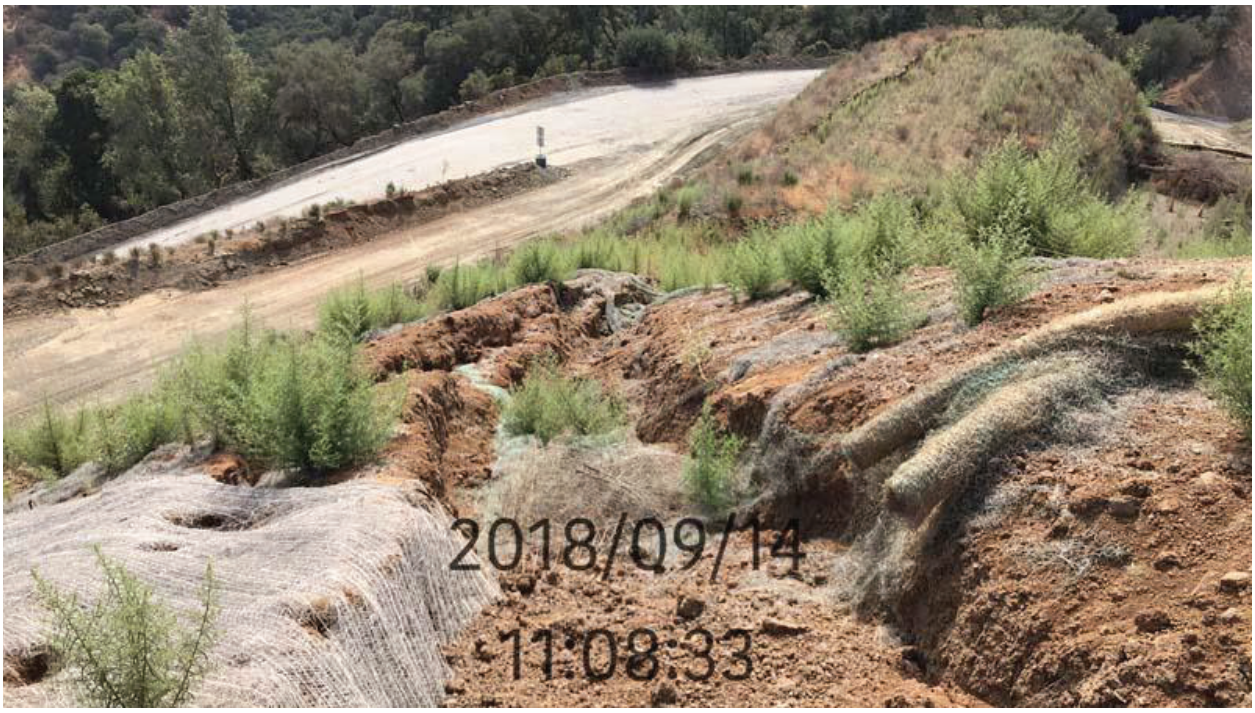

Photo 11: Ground crack on east-facing fill slope near northeastern corner of property. Haul road to Lehigh visible.

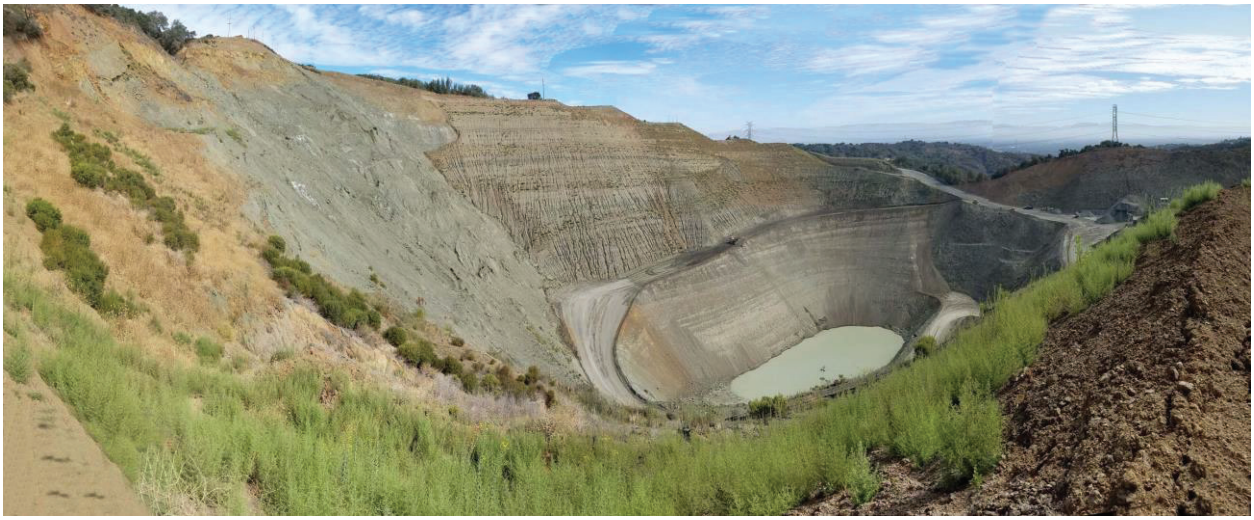

Photo 12: Buttress fill on north high wall. West side of pit visible on the left.

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

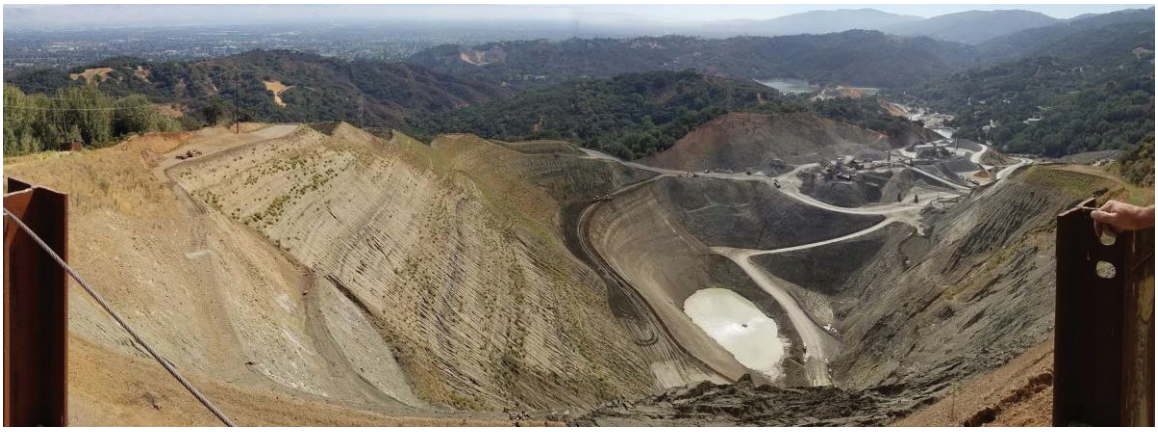

Photo 14: Panorama of buttress fill below retaining wall on northwest high wall.

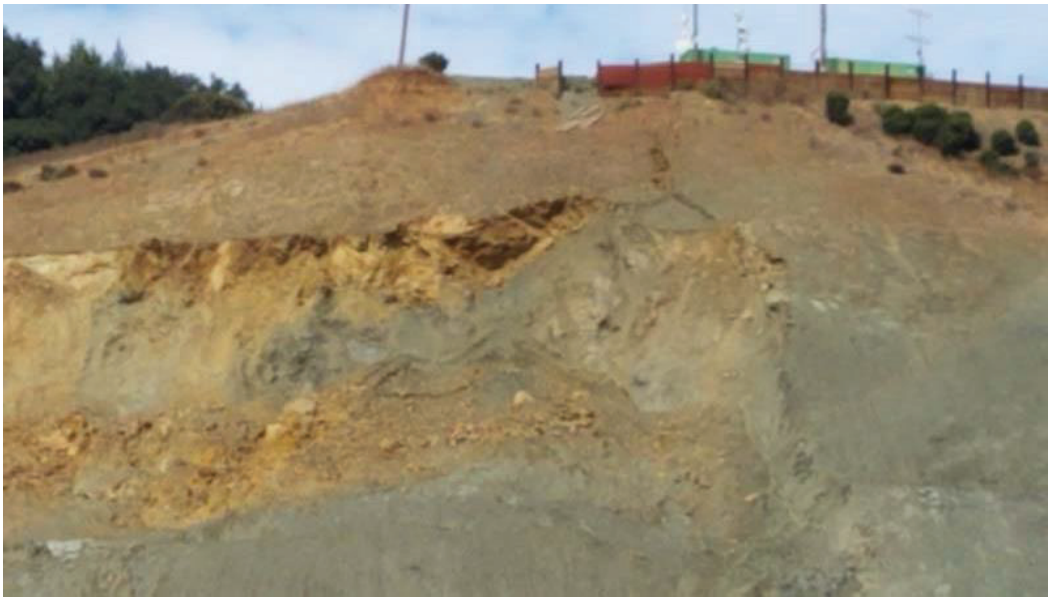

Photo 15: Slope failure on western high cut wall.

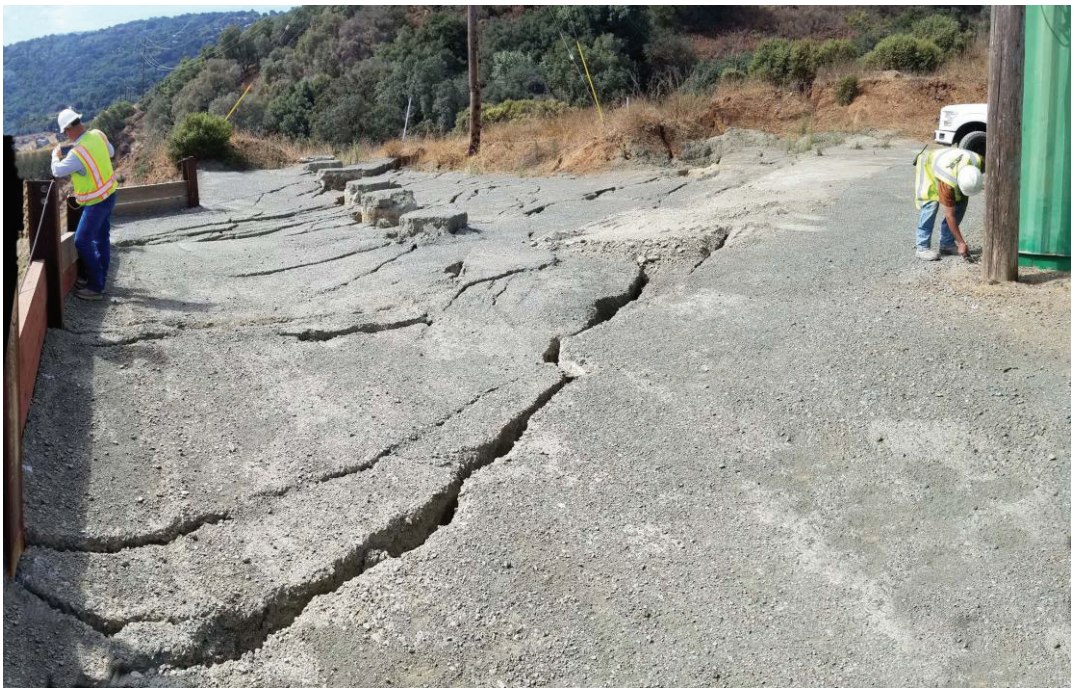

Photo 16: Ground cracks and subsidence at northwest property line.

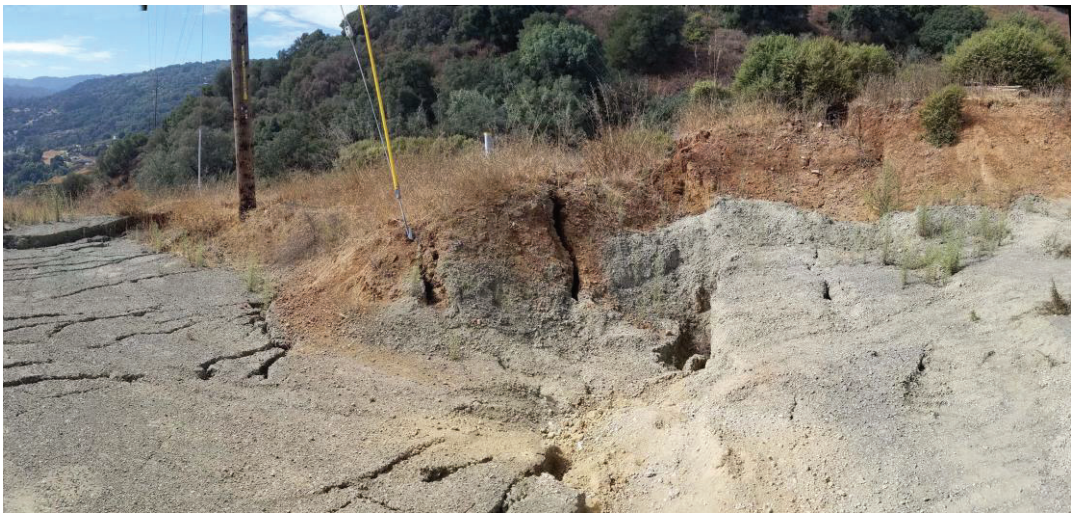

Photo 17: Ground cracks and headscarp beyond northwest property line.

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

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

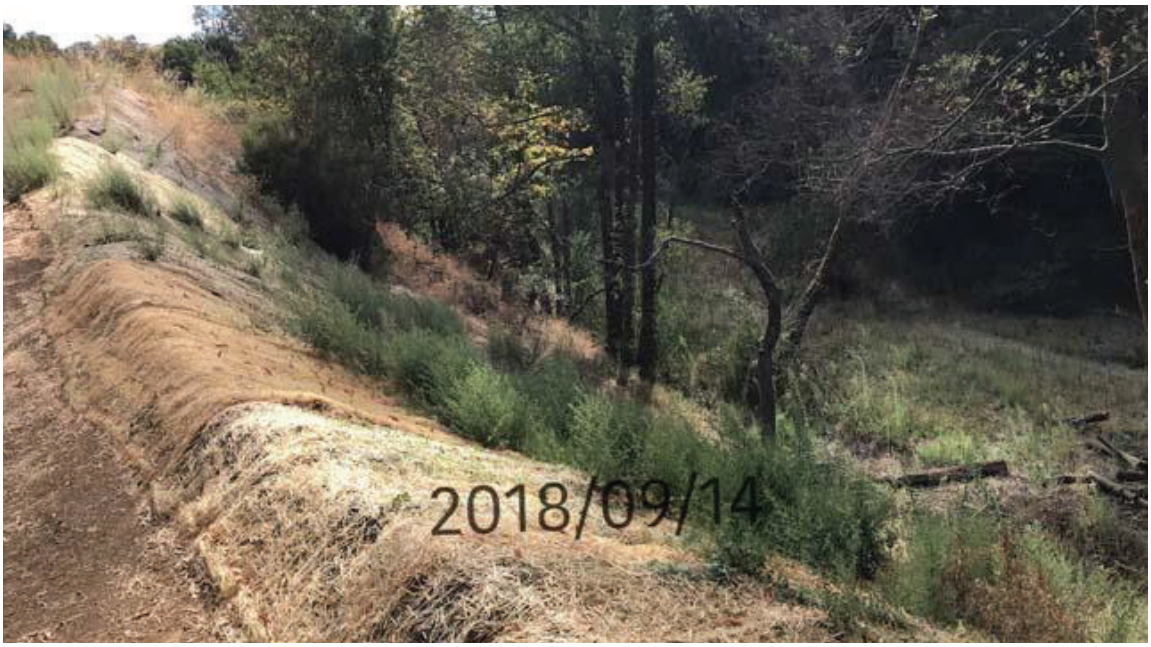

Photo 20: Regraded slope along the north side of Rattlesnake Creek.

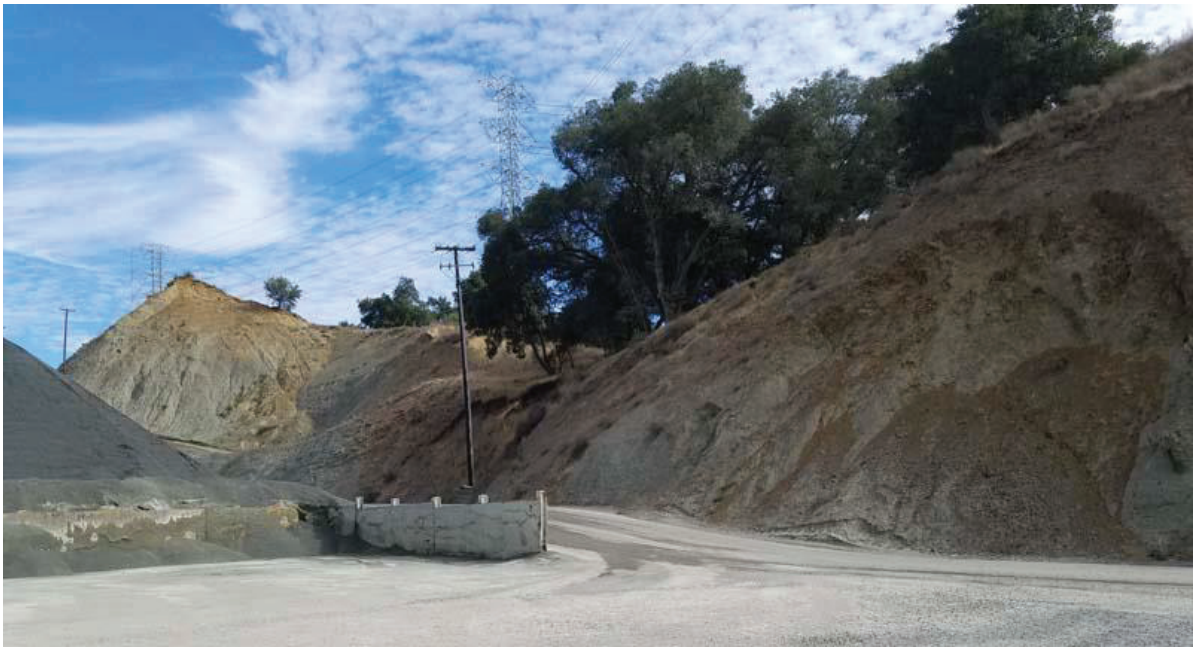

Photo 21: Shallow failures of cut slope along east side of Parcel B.

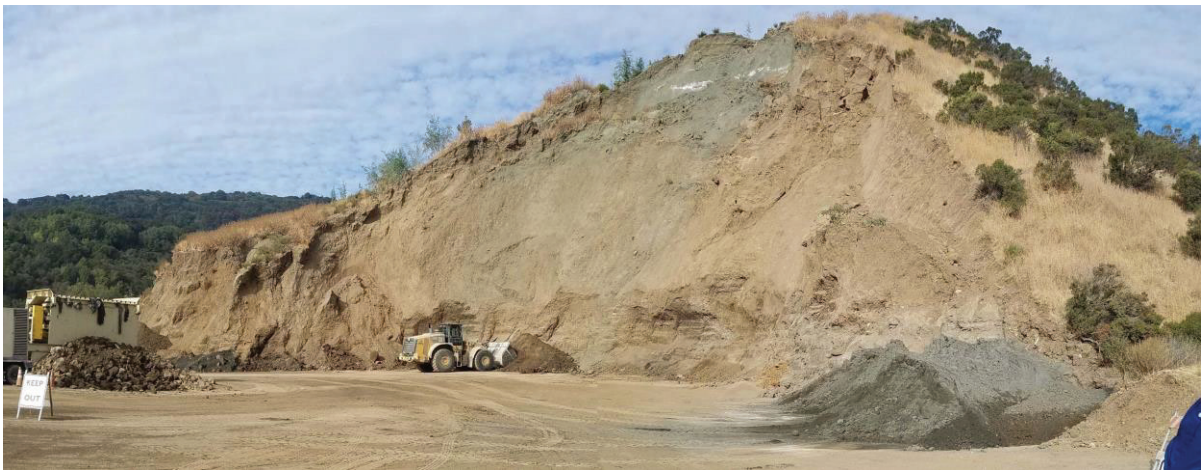

Photo 22: Dirt stockpile at eastern portion of Parcel A.

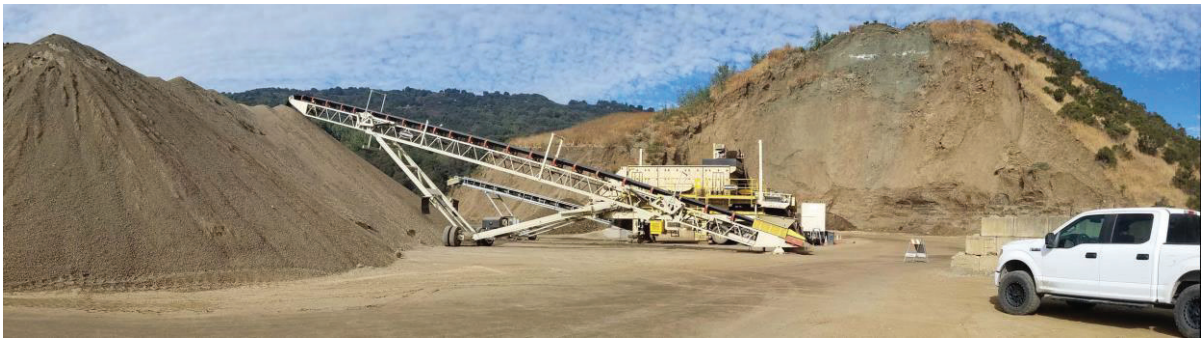

Photo 23: Dirt stockpile processing at eastern portion of Parcel A.

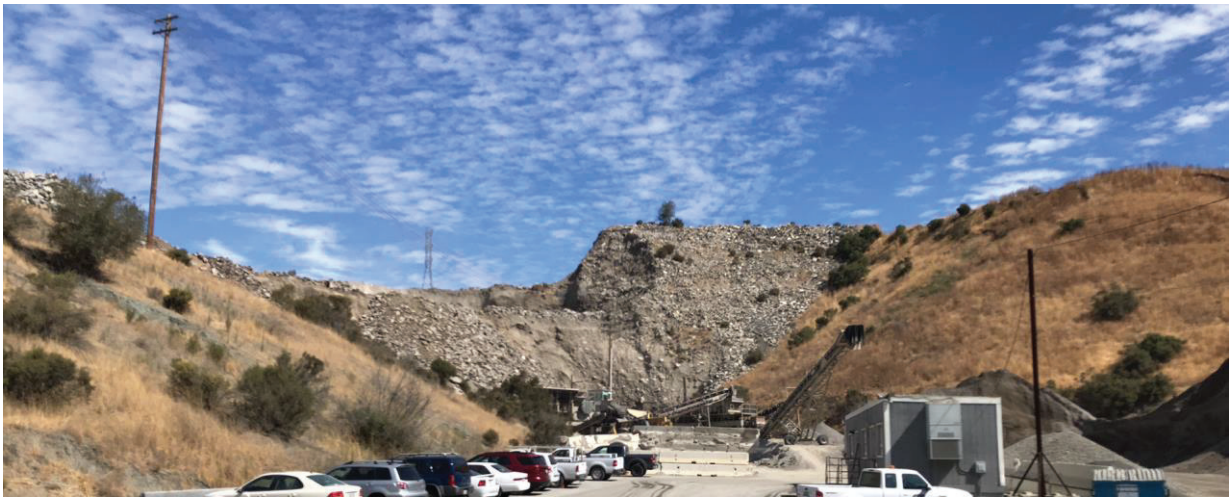

Photo 24: Recycle stockpile has been reduced in size.

Photo 25: Upper Settling Basin showing area where discharge pipe was removed and straw wattles placed.

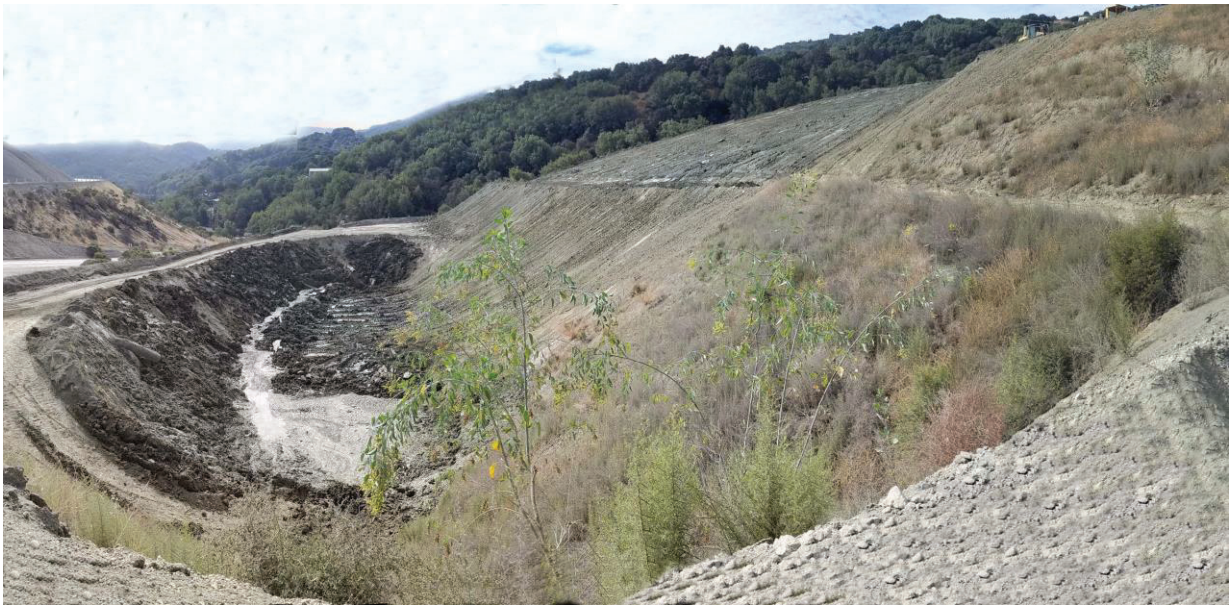

Photo 26: Pond 5.

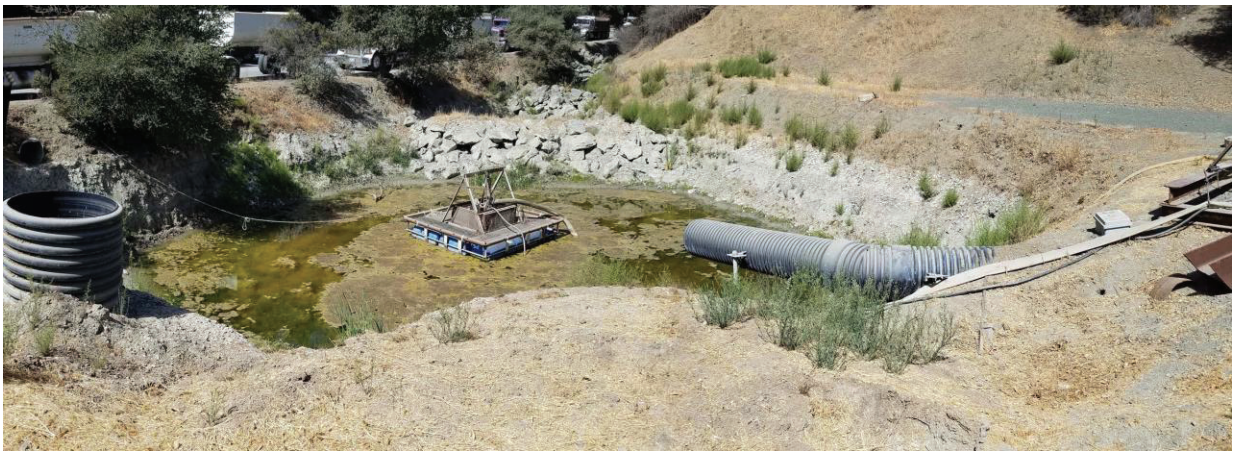

Photo 27: Pond west of office.

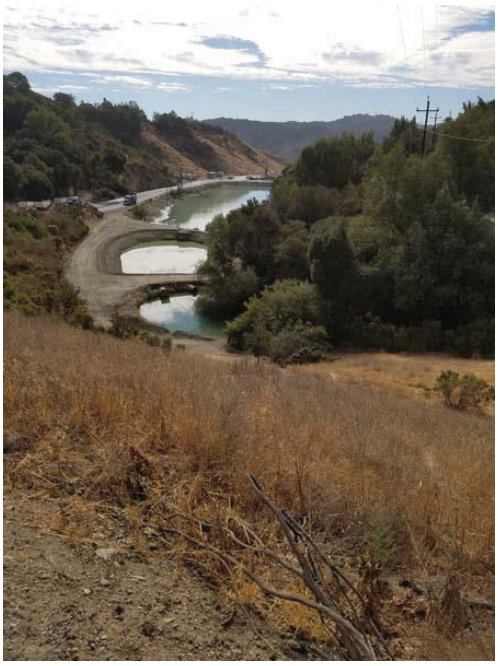

Photo 28: Middle and Lower Settling Basins.

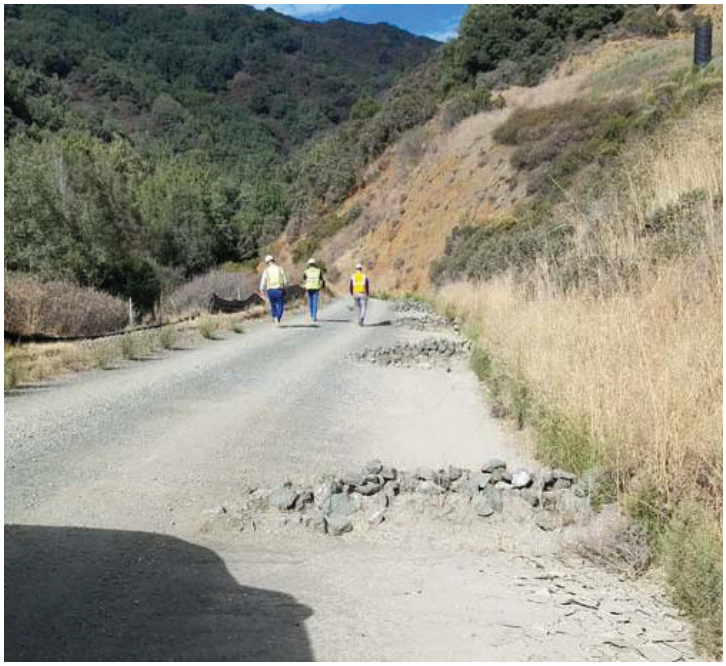

Photo 29: Check dams along road by northside of Rattlesnake Creek.