



**ALVIC & ALUMINA QUARRY  
MINE PLAN NOTES**  
CA Mine ID # 91-36-0105  
Reclamation Plan # 84M-012

**Mine:** Alvic & Alumina Quarry  
**Mineral:** Alumina  
**Mine Operator:** CEMEX Construction Materials Pacific, LLC  
4120 E. Juniper Street, Suite 202,  
Ontario, CA 91761  
(909) 335-2736  
Christine Jones, christine.jones@cemex.com  
**Land Owner:** CEMEX Construction Materials Pacific, LLC  
4120 E. Juniper Street, Suite 202,  
Ontario, CA 91761  
(909) 335-2736  
Christine Jones, christine.jones@cemex.com  
**Applicant:** Same as Operator  
**Owner of Mineral Rights:** Same as Owner  
**Representative:** Lilburn Corporation  
1905 Business Center Drive  
San Bernardino, CA 92408  
909-890-8118  
**Map Preparer:** Same as Representative  
**Soil Engineer/Geologist:** Terrocon Consultants, Inc.  
1355 E. Cooley Drive, Suite C  
Colton, CA 92324  
(909) 824-7311  
Jay Martin, Jay.Martin@terrocon.com  
**Date of Map:** June 2020  
**Utilities:**  
Water: Water truck with water from Cemex wells at adjacent cement plant  
Sewage disposal: Portable toilets  
Electric: Not proposed  
Gas: Not proposed  
Telephone: Mobile phones  
**Land Use District:**  
Project Site: Regional Industrial (RI) (no change proposed)  
**The surrounding land uses are as follows:**  
North BLM, Vacant desert land.  
South BLM, Vacant desert land.  
East BLM, Vacant desert land.  
West CEMEX, Block Mountain Plant and Quarry

**Legal Description**  
APNs: 0464-051-02 (all), 24 (all), and 25 (portion)  
Acres: 535 acres (163-acre Reclamation Plan area)  
**0464-051-02**  
Dixie Line NO 1 Placer Lot 8, S 1/2 NE 1/4 NW 1/4 and Lot 9 N 1/2 SW 1/4 NW 1/4 AND N 1/2 SE 1/4 NW 1/4 SEC 3; Lots 10 AND 11, SEC 4 Dixie Line NO 2 PLACER S 1/2 SW 1/4 NE 1/4 AND N 1/2 SW 1/4 NE 1/4 SEC 3 and BELLE LODGE situated in NW 1/4 SEC 3 and IN NE 1/4 SEC 4; ALL IN TP 6N R 2W EX from BELLE LODGE All the PTH enclosed in DIXIE LINE NO 1 PLACER DECC AS Lot 9 SEC 2 AND Lot 11 SEC 4 TP 6N R 2W, MIN. SURVEY NO 6453; PAT 1217295; 120.03 AC. W/L  
**0464-051-24**  
Alvic No 1 SE 1/4 Sec 4; Alvic No 3 Lot 5 of SW 1/4 Sec 4 Alvic No 4 S 1/2 S 1/2 NE 1/4; Sec 4 all in TP 6N R 2W, Pat No 1172247; 200 AC  
**0464-051-25**  
Alvic No 2 SW 1/4 SEC 3; Alvic No 5 S 1/2 S 1/2 NW 1/4; Sec 3 TP 6N, R 2W, Pat No 1172247; 234.43 AC.

**Area to be Reclaimed:** 163 acres  
**Reclaimed End Use:** Open space  
**Signage (Public Safety):**  
The site is not accessible to the public and access to the mine is not permitted and secured by a security gate. The reclaimed slopes will be posted informing the public of rock fall hazard. Warning signs of least 12" by 12" with contrasting background lettering will be installed every 250 feet along the pit high wall and shall typically read "Danger - Open Pit Mine" and/or "Danger - Steep Slope" and "No Trespassing - Keep Out."

**Reclamation/Revegetation Plan**  
At the completion of mining activities, any over-steepened slopes will be recontoured to 18:1 V per the approved Reclamation Plan and Slope Stability report. Final benches, pit floor, access roads to be reclaimed, and the overburden and operations area will be ripped, partially covered with available growth media, and revegetated. Revegetation activities will generally commence in late fall to early spring to correspond with the rainy season of the area. The revegetation areas will be seeded with the recommended seed mix.

**Proposed Native Plant Species**

Scientific Name	Common Name	Pounds Per Acre
Alysicarpus debertorum	desert chrysothemum	0.25
Amorpha canescens	fieldweed	0.25
Chenopodium fremontii	desert pigweed	0.25
Cryptantha interspersa	common cryptantha	0.25
Eriogonum fasciculatum	fat-rumped buckwheat	2.00
Elymus repens	Mormon tea	1.50
Eriogonum fasciculatum	fat-rumped buckwheat	0.25
Eriogonum multifidum	desert trumpet	1.00
Larrea tridentata	creosote	2.00
Lycium brevipes	pearthorn	2.00
Molochnia glabrata	desert dodder	0.75
Munroa affinis	bioregator	0.50
Olneyia lasiocarpa	leaved comb	0.50
Pectocarya arborescens	winged combseed	0.25
Pectocarya recurvata	curvum combseed	0.25
Phacelia distans	phacelia	0.25
Prosopis juliflora	date	2.00
Sphaeralcea obtusicauda	desert mallow	0.75
Sida spaldingii	desert mallow	0.25
<b>TOTAL pounds per acre</b>		<b>15.20</b>

**Slope Stability (Appendix C)**  
The California Professional Geologist/Certified Engineering Geologist and the California Certified Engineering Geologist, by stamping the Slope Stability Investigation Report for the Alvic & Alumina Quarry Reclamation Plan for CEMEX Construction Materials Pacific, Inc. (May 2020) (attached in Appendix C) for CEMEX Construction Materials Pacific, Inc. in respect to the report's scope of work, is accepting responsibility for its findings and recommendations within said report.  
We have completed the Slope Stability Investigation services for the above referenced project. This study was performed in general accordance with Terrocon Proposal No. FC2020021 dated February 17, 2020. This report presents the findings of the data review, geologic mapping, laboratory testing and structural evaluation, and provides recommendations concerning suitable slope angles and heights for reclamation consistent with Surface Mining and Reclamation Act (SMARA) requirements.  
We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.  
Sincerely,  
Terrocon Consultants, Inc.  
John S. McKinnon, C.E.G. 2386  
Senior Geologist  
Jay Martin, C.E.G. 1529  
Principal Geologist

**Aerial Mapping/Topography (Cooper Aerial Surveys Co.)**  
This (topographic base) map has been produced according to procedures that comply with national standard for spatial data accuracy (NSSDA) for a contour interval of 1-foot and a map scale of 1" = 100'. Dash contours inside vegetated areas and shadow outlined areas may not meet mapping standards and should be field checked. The computer plotted map was generated from data compiled by digital stereo methods using aerial photography.  
TAKEN ON FEBRUARY 2, 2015.

Revised By: **LILBURN CORPORATION**  
Date: **April 2019**  
Scale: **1 inch = 300 feet**  
Map Prepared By: **Lilburn Corporation (TAG)**  
Projection: **CA SPCS, Zone 5, NAD83 US Feet**  
April 2019

**LEGEND**

- Property Boundary (In-fee)
- Reclamation Plan Boundary 535 Acres
- Approved Mine Plan Boundary 28.7 Acres
- Unpatented Claim
- Planned Reclamation Limit (shown as white)
- T06N R02W USGS Township and Range
- APN: 0464-051-02 Parcel Line and Number
- Revegetation

**CRAG JOHNSON L.S. 7562**  
Professional Geologist License No. 7562  
State of California

**RECLAMATION PLAN  
ALVIC and ALUMINA QUARRY**  
RECLAMATION PLAN No. 84M-012  
CA Mine ID # 91-36-0105  
SAN BERNARDINO COUNTY, CALIFORNIA

**CEMEX**

**SHEET INDEX**

#	Title
1	Operations Summary and Notes
2	Site Plan
3	Reclamation Plan
4	Soil Stability and Details

Scale: 1" = 300'  
Date: 06/2020 (TAG)  
Drawn: S024/04/08 Mine Plan Alvic 2020 24.26.gpn  
Sheet **3** of **4**