

CHAPTER 9

Glossary and Acronyms

9.1 Glossary

A number of technical terms are used in surface mining and reclamation and at the Permanente Quarry to describe the operations and equipment that are in use there. This glossary includes selected definitions and acronyms to aid decision-makers and the public in evaluating the environmental impacts of the Project.

backfill	Earth, overburden, mine waste or imported material used to replace material removed during mining (14 Cal. Code Regs. §3501). With implementation of the Project, the Quarry pit would be backfilled using overburden rock from the West Materials Storage Area and ongoing mining activities.
buffer zone	An area within the Project Area of undeveloped, vegetated open space where no active mining activities have occurred and that has been designated to remain in this condition to serve as a physical separation between the Quarry's activities and other land uses.
critical gradient	The maximum stable inclination of an unsupported slope under the most adverse conditions that it will likely experience, as determined by current engineering technology.
crusher	A machine that crushes larger sizes of excavated materials to sizes appropriate for commercial use. There are primary and secondary crushing stations located at the Crusher and Quarry Office Support Area.
East Materials Storage Area (EMSA)	The existing 75.2-acre overburden disposal area on the eastern side of the Project Area.
Exploration Area	The area located south of Permanente Creek that has been subject to mining-related exploratory activities but not mineral extraction.
grizzly unit	A machine that screens larger sizes of excavated materials from smaller pieces. A grizzly unit would be used to screen out materials larger than 12 inches from the West Materials Storage Area for additional processing for commercial uses.
highwall	The unexcavated face of exposed overburden and ore in a surface mine. Some areas of highwall would remain in the Quarry pit after reclamation and would be treated to achieve revegetation.

mined lands	The surface, subsurface, and ground water of an area in which surface mining operations will be, are being, or have been conducted, including private ways and roads appurtenant to any such area, land excavations, workings, mining waste, and areas in which structures, facilities, equipment, machines, tools, or other materials or property which result from, or are used in, surface mining operations are located (Pub. Res. Code §2729).
mining waste	The residual of soil, rock, mineral, liquid, vegetation, equipment, machines, tools, or other materials or property directly resulting from, or displaced by, surface mining operations (Pub. Res. Code §2730). The Project Area is within the jurisdiction of the San Francisco Regional Water Quality Control Board, which regulates the disposal and reclamation of Project-related mining waste.
overburden	Soil, rock, or other materials that lie above a natural mineral deposit or in between mineral deposits, before or after their removal by surface mining operations (Pub. Res. Code §2732). Overburden produced from excavation of the Quarry pit is stored in the East Materials Storage area and West Materials Storage Area, and portions of this overburden would be used to reclaim the Quarry pit.
Permanente Creek Restoration Area (PCRA)	An area of approximately 23.1 acres along Permanente Creek and the adjacent hillsides that have been affected by mining activities, erosion events, and activities to control erosion in that area. The Project would involve activities to reclaim Permanente Creek and the affected upslope areas.
Quarry pit	The 265.4-acre area excavated for mineral extraction. This area would be reclaimed through backfilling, recontouring, and revegetating the remaining slopes.
reclamation	The combined process of land treatment that minimizes water degradation, air pollution, damage to aquatic or wildlife habitat, flooding, erosion, and other adverse effects from surface mining operations so that mined lands are reclaimed to a usable condition for alternate land uses and create no danger to public health or safety. The process may extend to affected lands surrounding mined lands, and may require backfilling, grading, resoiling, revegetation, soil compaction, stabilization, or other measures (Pub. Res. Code §2733). The Project involves the reclamation of disturbed lands within the Project Area.
reclamation plan	The applicant's completed and approved plan for reclaiming the lands affected by its surface mining operations conducted after January 1, 1976, as called for in Section 2772 of the Surface Mining and Reclamation Act of 1975 (SMARA). The Lehigh Southwest Cement Company's existing, completed reclamation plan for the Permanente Quarry was approved by Santa Clara County in 1985 and is referred to in this EIR as the "1985 Reclamation Plan."
rock plant	An existing, fully-integrated rock processing facility in which rocks are crushed, conveyed, washed, and screened into an assortment of types and grades of aggregate products. The rock plant is located southeast of the surge pile and would be reclaimed as part of the Project.

settling pond	A collection basin for stormwater runoff that allows suspended materials to settle out of the water. Settling ponds are operated and maintained within and adjacent to the Project Area for water quality control purposes.
surface mining operations	All, or any part of, the process involved in the mining of minerals on mined lands by removing overburden and mining directly from the mineral deposits, open-pit mining of minerals naturally exposed, mining by the auger method, dredging and quarrying, or surface work incident to an underground mine. Surface mining operations shall include, but are not limited to: (a) Inplace distillation or retorting or leaching; (b) The production and disposal of mining waste; and (c) Prospecting and exploratory activities (Pub. Res. Code §2735). The term also includes segregation and stockpiling of mined materials and the recovery of same (14 Cal. Code Regs. §3501).
surge pile	An existing, approximately 9-acre stockpile of crushed aggregate located southeast of the Quarry pit that holds mined materials pending transport via conveyor belt to the rock plant for further processing.
telestacker	A telescoping conveyor that distributes material in stockpiles for placement by heavy earthmoving equipment.
West Materials Storage Area (WMSA)	The existing 172.6-acre overburden disposal area on the western side of the Project Area.
Crusher/ Quarry office support area	An existing, approximately 60-acre area located east of the Quarry pit and west of the East Materials Storage Area. It contains primary and secondary crushing stations, two portable trailers used for office purposes, and maintenance areas, and serves as a general support area for ongoing Quarry operations. This area would be reclaimed as part of the Project.

9.2 Acronyms and Abbreviations Used in this EIR

µg/l	micrograms per liter
µPa	micro-Pascals
AB 32	California Global Warming Solution Act of 2006
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ACMs	Asbestos Containing Materials
ADT	average daily traffic
AGO	Australian Greenhouse Office
AGR	Agricultural Water Supply
ALG	Ashworth Leininger Group
ALUC	Airport Land Use Commission

amsl	above mean sea level
ARRA	American Recovery and Reinvestment Act of 2009
ASA	Architecture and Site Approval
ASCE	American Society of Civil Engineers
AST	aboveground storage tank
ATCM	Asbestos Airborne Toxic Control Measure
BAAQMD	Bay Area Air Quality Management District
BAT	best available technology
BCT	best conventional pollutant control technology
BFEs	base flood elevations
bgs	below ground surface
BLM	Bureau of Land Management
BMPs	Best Management Practices
BOS	Board of Supervisors
CAA	Clean Air Act
CaCO ₃	calcium carbonate
CalFIRE	California Department of Forestry and Fire Protection
Cal-OSHA	California Occupational Safety and Health Administration
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CAR	Climate Action Reserve
CARB	California Air Resources Board
CASQA	California Stormwater Quality Association
CAT	Climate Action Team
CBC	California Building Code
CBECs	Commercial Buildings Energy Consumption Survey
CCR	California Code of Regulations
CDDD	Construction and Demolition Debris Deposit
CDFG	California Department of Fish and Game
CDMG	California Division of Mining and Geology
CDPR	California Department of Pesticide Regulation
CEC	California Energy Commission
CEQA	California Environmental Quality Act

CESA	California Endangered Species Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
CH ₄	methane
CHP	California Highway Patrol
CIWMB	California Integrated Waste Management Board
CLUP	Comprehensive Land Use Plan
cm	centimeters
CMP	Congestion Management Program
CMSA	Central Materials Storage Area
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	CO ₂ equivalents
COLD	Cold Freshwater Habitat
CRLF	California red-legged frog
CSRL	California Soil Resource Lab
CUPA	Certified Unified Program Agency
CUSD	Cupertino Union School District
CWA	Clean Water Act
CWTMP	<i>1995 Santa Clara County Countywide Trails Master Plan Update</i>
dB	decibels
DOC	California Department of Conservation
DOC	California Department of Conservation's State Mining and Geology Board and Office of Mine Reclamation
DOT	California Department of Transportation
DPM	diesel particulate matter
DTSC	California Department of Toxic Substances Control
DWR	Department of Water Resources
EEI	Electricity Energy Intensity
EIR	Environmental Impact Report

EMSA	East Materials Storage Area
ESLs	Environmental Screening Levels
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FMMP	Farmland Mapping and Monitoring Program
FOS	factor of safety
FTA	Federal Transit Administration
FUHSD	Fremont Union High School District
FY	fiscal year
g	gravity
g/bhp-hr	grams per brake horsepower-hour
GHG Plan	Greenhouse Gas Emissions Reduction Plan
GHG	greenhouse gas
GIS	geographic information system
GLO	United States General Land Office
gpm	gallons per minute
GWP	Global Warming Potential
H	horizontal distance
HABS	Historic American Building Survey
HAER	Historic American Engineer Record
HALS	Historic American Landscapes Survey
HAPs	Hazardous Air Pollutants
HCP	Habitat Conservation Plan
HDPE	high-density polyethylene
HFCs	hydrofluorocarbons
HMBPs	Hazardous Materials Business Plans
HRA	Health Risk Assessment
HRSA	Health Risk Screening Assessment
Hz	Hertz
I-280	Interstate 280
IBC	International Building Code

IND	Industrial Service Water Supply
IPCC	Intergovernmental Panel on Climate Change
<i>Kg</i>	greenstone
<i>Kls</i>	limestone
<i>Ks</i>	greywacke
kW	kilowatts
kWh	kilowatt hours
LCFS	Low Carbon Fuel Standard
L_{dn}	Day-Night Average Level
L_{eq}	Equivalent Sound Level
L_{max}	Maximum Sound Level
L_n	Percentile-Exceeded Sound Level
LOS	Level of Service
LUST	leaking underground storage tank
M	Richter Magnitude
MACT	Maximum Achievable Control Technology
MCLs	Maximum Contaminant Levels
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MIGR	Fish Migration
MM	Modified Mercalli
MOA	Memorandum of Agreement
MPROSD	Mid-Peninsula Regional Open Space District
MPROSP	Mid-Peninsula Regional Open Space District's Rancho San Antonio Preserve
MRZ	Mineral Resource Zone
MSHA	Mine Safety and Health Administration
MT	metric tons
MTBA	Migratory Bird Treaty Act
MTC	Metropolitan Transportation Commission
MUN	Municipal and Domestic Water Supply
Mw	Maximum Moment Magnitude Earthquake

N ₂ O	nitrous oxide
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Plan
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOD	Notice of Determination
NOP	Notice of Preparation
NOV	Notice of Violation
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NWIC	Northwest Information Center
O ₃	Ozone
OEHHA	Office of Environmental Health Hazard Assessment
OES	California Office of Emergency Services
OHP	Office of Historic Preservation
OPR	California Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PCRA	Permanente Creek Restoration Area
PFCs	perfluorocarbons
PG&E	Pacific Gas and Electric Company
PGA	peak ground acceleration
PLM	Polarized-Light Microscopy
PM	particulate matter
Porter-Cologne	Porter-Cologne Water Quality Control Act
POST	Peninsula Open Space Trust
ppm	parts per million
PPV	peak particle velocity
PROC	Industrial Process Water Supply

PSHA	probabilistic seismic hazard assessment
PVC	polyvinyl chloride
REC-1	Body Contact Recreation
REC-2	Noncontact Recreation
REL	reference exposure level
RMS	root mean square
ROG	reactive organic gases
ROWD	Report of Waste Discharge
RPA	Lehigh Permanente Quarry Reclamation Plan Amendment
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SBCAPCD	Santa Barbara County Air Pollution Control District
SBFZ	Sargent-Berrocal Fault Zone
SCBWMI	Santa Clara Basin Watershed Management Initiative
SCCDEH	County Department of Environmental Health
SCCFD	Santa Clara County Fire Department
SCCOS	Santa Clara County Office of the Sheriff
SCCPRD	Santa Clara County Parks and Recreation Department
SCCVCD	County Vector Control District
SCVTA	Santa Clara Valley Transportation Authority
SCVURPPP	Santa Clara Valley Urban Runoff Pollution Prevention Program
SCVWD	Santa Clara Valley Water District
SF ₆	sulfur hexafluoride
SFHA	Special Flood Hazard Area
SFRWQCB	San Francisco Bay Regional Water Quality Control Board
SHPO	State Historic Preservation Officer
SiO ₂	Silica
SIPs	State Implementation Plans
SJWC	San Jose Water Company
SMARA	Surface Mining and Reclamation Act of 1975
SMGB	State Mining and Geology Board
SO ₂	sulfur dioxide
SPL	sound pressure level
SPWN	Fish Spawning

SR 85	State Route 85
SVP	Society of Vertebrate Paleontology
SWITRS	Statewide Integrated Traffic Records System
SWMP	Storm Water Monitoring Program
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SWRCB	State Water Resources Control Board
TACs	Toxic Air Contaminants
T-BACT	Best Available Control Technology for Toxics
TCR	The Climate Registry
TDM	transportation demand management
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Loads
TPZ	Timberland Production Zone
UCMP	University of California Museum of Paleontology
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDI	United States Department of the Interior
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
V	vertical height
VdB	Decibel notation
VOCs	volatile organic compounds
VTA	Santa Clara Valley Transportation Authority
WARM	Warm Freshwater Habitat
WILD	Wildlife Habitat
WMSA	West Materials Storage Area
WPCP	Water Pollution Control Plant