

ADDENDUM

Application for Environmental Clearance Amended July 2011

Project Description:

2. Describe the project (i.e., What will be constructed? Proposed use? Project objectives?):

The proposed project is Santa Clara County's ("County") approval of an amendment to the existing reclamation plan ("Amendment") for the Permanente Quarry ("Quarry"). A complete description of the project, including the proposed uses and project objectives, is included in the Amendment, and in supporting materials on file with the Planning Department.

The project would update the Quarry's reclamation plan, approved in March 1985, to include mining and reclamation activity over the next approximately 20-year period. Currently, mining operations cover approximately 543 acres of the Project Area. Lehigh estimates that continuing mining and future reclamation activity will occupy another 51 acres, for 593 acres of ultimate disturbance. To this, Lehigh has added an approximately 217-acre vegetated buffer area where no mining operations will occur, for a total Project Area of 811 acres.

3. What factors make the site suitable for the project?

Mining activities are well established on-site uses. The project is suitable for the site because state law and the County's regulations impose certain requirements for the reclamation of mined lands that would be satisfied by the approval of the Amendment.

4. Is the project part of a master plan, or a phase of a larger project?

No. A reclamation plan was previously approved in March 1985, which will be subsumed within the Amendment to establish a single comprehensive reclamation plan. The project does not foreclose future mining operations on the site.

5. Where on the site will project construction and activities occur?

The 811-acre Project Area is described and mapped in detail in the Amendment. The Project Area represents the north-central portion of Lehigh's approximately 3,510-acre property. Reclamation activities will occur across the entire Project Area on lands that have been disturbed by mining activities.

6. Site and project area information:

(b) Describe all buildings (existing and proposed) associated with the proposed use:

There are no new buildings proposed by the project. Existing buildings and structures (administrative offices, processing facilities and conveyors, equipment storage and maintenance)

that support current mining activities are described in the Amendment. A series of photographs of existing structures in the Project Area is attached as Exhibit A.

- (f) Describe any other outdoor areas dedicated to activities of the proposed use (e.g. sales, storage, animal confinement, etc).**

The Project Area includes mining and reclamation activities across the entire 811-acre Project Area. The activities that would be undertaken under the project involve outdoor uses, including mineral extraction, on-site hauling and transportation, processing, and reclamation work. All proposed outdoor uses are identical to uses and activities that currently exist within the Project Area.

- (g) Indicate total area (sq. feet or acres) of vacant or undeveloped land, and land not devoted to the proposed use.**

The entire 811-acre Project Area is devoted to mining-related uses. Within this area, approximately 593 acres are dedicated under the project to existing and ongoing mining, material processing and sales, topsoil and overburden storage and reclamation work. The remaining 217 acres will be left as undisturbed buffer zone to protect the Quarry from land use encroachment, and protect adjacent land uses from the effects of mining activities.

7. Grading (cut and/or fill)

Mining and overburden storage are described in detail in the Amendment. These activities are subject to the County's surface mining ordinance and exempt from the County's grading permit requirements (County Ord., § C12-421, subd. (i)).

- (c) Discuss briefly the physical and engineering aspects of the project (e.g., building materials to be used, significant grading required, etc.):**

Mining and reclamation activities will establish cut and fill slopes in various areas. All significant cut and fill slopes are supported by geotechnical analysis as described in the Amendment. Materials used in grading and creating the final landforms are natural on-site materials generated by the mining process. Final overall slope angles will not exceed 2.5(H):1.0(V) site-wide.

8. Are any structures proposed to be demolished?

The project addresses the reclamation of mining-related structures, including administrative offices, conveyors, and rock processing facilities. Final reclamation of these areas involves the dismantling and removal of these structures.

11. If the project is of an institutional, commercial or industrial nature, answer the following:

- (a) Number of daily customers, residents or other users of your project?**

The Quarry currently produces a variety of aggregate rock products, which are sold to customers through the Rock Plant. The annual and average number of visiting customers is detailed in the

original Project Description and in other materials filed with the County. Project approval would not change the number of daily customers visiting the Quarry.

(b) Basis for this number (e.g., seating, etc.)?

No new customer haul truck traffic will occur as a result of project approval. Existing customer haul truck traffic, as described in the original Project Description, was determined based on Lehigh's sales records.

(c) Number of employees?

The Quarry has employed an average of 63 on-site persons over approximately the past ten years, depending upon market conditions and the level of production. The project is expected to result in no change in the number of employees at the Quarry while mining operations continue. Lehigh will employ additional biologists and consultants during reclamation and revegetation efforts.

12. Indicate the water source serving the proposed use. Include provide name if applicable.

The project will not increase water use above existing levels. Rock processing operations currently use 90 percent recycled water, with make-up water from the San Jose Water Company. Water used in the Quarry for dust-control is taken from on-site surface water impoundments. The amount of existing water usage is detailed in the original Project Description.

13. If there are existing wells on the property:

(a) How many are functioning?

There currently are two monitoring wells within the Project Area, located adjacent to the EMSA to the north. Another six monitoring wells lie south of the Project Area within Lehigh's property.

(b) How many are abandoned?

Historical records indicate that 21 wells have at times been previously installed within the Project Area and thereafter abandoned according to state law and Santa Clara Valley Water District ordinance. This is in addition to numerous borings for the purposes of geologic exploration.

(c) Are the abandoned wells sealed?

All abandoned monitoring wells have been sealed as required by state law and Santa Clara Valley Water District ordinance, with the exception that a number of monitoring wells identified in historic records could not be located in 2008 after field investigations. In November 2000, the Santa Clara Valley Water District deemed the non-locatable wells to be abandoned.

14. What is the distance to the nearest water line?

The nearest public water line is adjacent to Project Area along the main Quarry access road, approximately 75 feet from the Project Area at the nearest point in the EMSA. The project will not require the extension of any water lines or the provision of public water service.

15. Indicate the method of sewage disposal for the proposed use. Include sewer district name if applicable.

The project would not require new sewage disposal facilities.

Environmental Setting:

1. Describe the natural characteristics (e.g., topography, vegetation, drainage, soil stability, habitat, etc.) on the project site.

Topography in the Project Area and surrounding land consists of gentle to steep terrain. These areas contain a series of ridges and valleys trending in a general east-west direction. Steep slopes predominate, with flatter terrain occurring within some previously disturbed areas. Elevations within the larger Quarry ownership generally increase from west to east, ranging from about 500 feet mean sea level (msl) near the entrance to the Quarry to over 2,000 feet msl in the western portion of the property.

Natural hydrological sources for the Project Area include direct precipitation and limited surface run-off from adjacent lands. Overland flows from most of the Project Area drain into Permanente Creek through various storm water facilities located on-site. Overland flows originating in the far northern portion of the Project Area drain to the north, and enter Permanente Creek via an unnamed USGS blue-line stream to the north of the Project Area. After leaving the property, Permanente Creek flows generally northwards where it receives flows from Hale Creek in Mountain View before reaching Mountain View Slough and South San Francisco Bay.

The Project Area is situated upon eight native soil types (map units) and one map unit identifying excavated Quarry areas as a "Pit" soil type. The eight native soil types consist of: 1) Azule silty clay, 20-30 percent slopes, 2) Los Gatos clay loam, 20-35 percent slopes, 3) Los Gatos clay loam slightly eroded, 20-35 percent slopes, 4) Los Gatos - Maymen stony soils, undifferentiated, 50+ percent slopes, 5) Maymen loam, moderately eroded, 20-35 percent slopes, 6) Permanente stony soils, undifferentiated, 50+ percent slopes, 7) Soper gravelly loam, 20-35 percent slopes, and 8) Soper gravelly loam, 35-50 percent slopes.

Biological communities in the Project Area were classified based on specific vegetation alliances observed within each community. Fifteen (15) distinct biological communities are located within the Project Area. Non-sensitive biological communities include: 1) ruderal herbaceous grassland, 2) mixed scrub, 3) northern mixed chaparral, 4) chamise chaparral, 5) oak chaparral, 6) poison oak scrub, 7) non-native annual grassland, 8) California bay forest, 9) revegetated areas, 10) active quarry, 11) disturbed areas, and 12) settling ponds and operational water features. Sensitive biological communities include: 13) willow riparian forest and scrub, 14) oak woodland and 15) streams and ponds.

Portions of the Project Area are marked by past and existing mining operations. The attached Amendment and supporting technical documents provide complete information on the natural characteristics of the Project Area.

2. Describe the existing land uses on the project site.

Surface mining is the primary current land use within the Project Area.

3. Describe the existing land uses adjacent to the project site (note location in relation to the project site):

The uses immediately surrounding the Project Area are owned and controlled by Lehigh and generally function as a buffer between mining operations and other land uses. In many areas, these buffers are substantial. The nearest non-owned land-use to the west of the Project Area is approximately 0.5 miles away and is utilized as open space. To the south, the nearest non-owned land-use is another mining operation. Other non-owned land uses to the south, including scattered residences and small agricultural operations are over 0.5 miles away. Existing uses of non-owned lands to the north include the Rancho San Antonio County Park and lands of the Mid Peninsula Regional Open Space District (MPROSD). Non-owned lands to the east include the Rancho San Antonio County Park, a cemetery and residential subdivisions. The nearest residence is located approximately 2,000 feet to the northeast of the Project Area. Surrounding lands are generally subject to the General Plans and zoning ordinances of Santa Clara County, the City of Cupertino (to the east) and the City of Palo Alto (to the west).

4. Will the project constitute a land use that currently exists elsewhere in the project's vicinity? If yes, indicate the similar land use(s) and locations:

The primary existing land use in the Project Area is surface mining. Lands adjacent to the Project Area are being held by Lehigh as buffer zones or areas for potential future mining development. An independent mining operation, the Stevens Creek Quarry, lies on adjacent landholdings to the south of the Project Area.

5. Are there any known professional reports regarding the property (e.g., geologic, biological, archaeological, environmental impact reports, etc.)? Indicate which reports will be submitted with this application:

The list of reports submitted under the amended application includes the following, which supplement the materials already on file with the Planning Department:

- Biological Resources Assessment
- Hydrologic Investigation
- Drainage Report
- Geotechnical Evaluations and Design Recommendations
- Revegetation Plan
- Water Quality Analysis
- Air Quality Technical Analysis

Lehigh may provide additional technical reports in the future if necessary to assist the County's review.

Environmental Aspects of the Project:

1. Geology:

- (a) Are there any known geologic hazards on the site or in the immediate area. (e.g., earthquake faults, landslides, subsidence, steep slopes, etc.)? If yes, describe:**

The Geotechnical Report submitted with the application provides a comprehensive review and analysis of geologic conditions, including faults, landslides, and slope angles. In brief, localized geologic faulting, characteristic of the region, occurs under and in the vicinity of the Project Area. A number of existing and historic slide areas also have been identified within the Project Area. These seismic and geologic factors have been considered and are addressed by in the Geotechnical Report.

- (b) Will construction occur on slopes greater than 10%? If yes, indicate percent of slope...and describe how erosion/siltation will be prevented?**

No new structures of any type will occur within the Project Area. Mining and reclamation operations currently exist, and will continue, involving slopes exceeding 10% steepness. All mining and reclamation activities proposed under the project are supported by a detailed analysis contained within the Geotechnical Report. Final overall slope angles will not exceed 2.5(H):1.0(V) in any area.

Erosion and siltation control measures are described in the Amendment and in the Drainage Report submitted with the application materials. By way of overview, erosion and siltation will be prevented through a series of BMPs to collect and direct surface water flows. Surface flow in all areas will be directed into drainage ditches, settling ponds or desiltation basins. The project also will implement erosion control seeding and restoration planting. Additional BMPs may include rock berms, straw mulch, and straw wattles in appropriate areas.

2. Trees

Reclamation activities are expected to result in the removal of a small area (less than 3.0 acres) of oak woodlands, shown on the attached Exhibit B. The Amendment includes a Revegetation Plan that describes tree replanting and other revegetation in the Project Area.

3. Agriculture:

- (f) Are there open space uses on-site? If yes, describe location.**

Areas outside of the Project Area and within Lehigh's property are largely undeveloped and would continue to provide open space functions. Additionally, the project proposes to reclaim mining operations to open space uses, including open-space functions and values that do not currently exist.

- 4. Drainage/Flooding/Riparian: Are there any watercourses and riparian habitat (e.g., drainage swale, stream course, spring, pond, lake, creek, tributary of creek, wetlands) within 500 feet of proposed construction or grading?**

Permanente Creek passes south and east of the Project Area. Reclamation work within currently-disturbed areas in the North Quarry will occur within 500 feet of Permanente Creek. A detailed description of impacts to watercourses and riparian habitat is contained in the Biological Resources Assessment included in the application materials. The project has been designed to avoid impacts to creeks and drainages.

5. Transportation:

(a) Name streets to be used to access project:

The entrance to the Project Area is at the western terminus of Stevens Creek Boulevard.

(b) Approximate number of vehicle trips per day to be generated by the project (Please note that each direction equals one trip)?

The Quarry currently produces a variety of aggregate rock products which are sold for customer pickup at the Rock Plant. Project approval is not projected to add aggregate sales or change the number of customers visiting the Quarry on a daily or annual basis compared to existing traffic levels.

Project approval would, during reclamation periods, result in a small number of additional vehicles visiting the site. These would primarily include light-vehicle trips for the delivery of reclamation materials, work crews and contractors. Reclamation-related traffic is expected to result in approximately 300 vehicle trips per year, with a peak of 12 daily trips during the fall months when most revegetation activities would occur.

(c) Indicate the days and times you expect most trips to occur:

Most existing vehicle trips to the Quarry property occur during daytime hours (6:00 a.m. to 6:00 p.m.), 365 days per year. Some vehicle trips also occur outside these hours, up to 24 hours per day, dependent on market demand and the types of construction projects being supported by the Quarry. The additional vehicle traffic described above that would result from project approval in the form of reclamation-related traffic would occur almost exclusively during daytime hours.

6. Safety/Health:

(a) To your knowledge, do potentially hazardous materials exist on either this site or nearby property? (e.g., fuels, chemicals, industrial residue, etc.) If yes, describe:

No new hazardous materials, or hazardous materials storage facilities, would be introduced in the Quarry as a result of the project. The Quarry currently uses, stores and maintains materials considered hazardous under the applicable laws. Most are connected to vehicle and/or equipment maintenance. Liquids include liquid polymer, sulfuric acid (battery acid), ethylene glycol (coolant), and parts cleaner. These liquids are stored in 25- and 55-gallon drums using secondary containment, or in above-ground storage tanks ranging in capacity from 150 gallons to 1,000 gallons. The Quarry also uses miscellaneous containerized (less than one gallon capacity) chemicals, including spray paints, glass cleaner, etc. Gasoline and diesel are stored in above-ground storage tanks including diesel (12,000 gallons), oil (500 gallons) and grease (55 gallons).

The Quarry stores other gases such as acetylene, argon/carbon dioxide, oxygen, nitrogen, and helium in cylinders with capacities of 230 cubic feet. Storage of hazardous chemicals is overseen by the Hazardous Materials Compliance Division of Santa Clara County. Above-ground storage tanks are operated under permits issued by the County. An inventory of these materials is available upon request.

- (b) Will the project require the use, storage or disposal of hazardous materials such as toxic substances, flammables, or explosives (e.g., diesel generator, underground storage of chemicals)?**

The Quarry currently uses explosives as part of the mineral extraction process. The Quarry will also continue to use fuels and other materials considered hazardous as part of the ongoing Quarry operation, and as detailed above. No new hazardous materials use, storage or handling will be required as a result of the project other than that currently in use.

- (d) Do any sections of proposed roads or driveways exceed 15% grade?**

No.

7. Air/Noise:

- (a) Describe the types (and numbers) of construction equipment that will be used during project construction? (e.g., grader, backhoe, pile driver, jackhammer).**

Conventional heavy earth moving equipment will continue to be used to extract material from the North Quarry and place material within the overburden storage sites. Typical equipment will include power shovels, front-end loaders, dozers, excavators, off-road haul trucks, scrapers, rock drills, water trucks and conveyor systems. A complete list of the equipment to be used and model numbers will be made available upon request. The numbers and types of equipment used will vary from year to year, as equipment usage is dependent on market demand and the geologic conditions encountered during the mining process. In addition to the conventional heavy earth moving equipment listed above, reclamation activities will involve various light-duty on-road vehicles for contractor visits, work crew transportation, materials deliveries and hydroseeding.

- (b) Will the ongoing operation of the proposed use generate dust, smoke, fumes, odors, or noise? If yes, describe:**

The project will generate minor amounts of dust, fumes and noise, typical of earth-moving equipment. Because of the phased nature of the project, the extent of these emissions will vary. Detailed summaries and evaluations of project-related noise and air emissions are contained in the Air Quality Technical Analysis.

8. Aesthetic:

- (a) Does the property contain natural features of scenic value or rare or unique characteristics (e.g., rock outcropping, mature trees)? If yes, describe:**

The Project Area contains areas of mature trees that are largely avoided by continuing mining and reclamation activities. The location, density and types of mature trees in the Project Area are

described in detail in the Revegetation Plan and Biological Resources Assessment, and shown on Exhibit B. The Project Area does not contain any other natural features deemed to have scenic value or rare or unique characteristics.

(b) Will construction occur at or near a ridgeline or hilltop?

Mining and reclamation activities will occur at or near certain ridgelines. As much as possible, however, the project has been designed to preserve the northern ridgeline by ensuring slope stability and preventing ridgeline degradation.

(c) Will the project include design review mitigation (i.e., new landscaping, light reflectivity value of exterior surfaces less than 45)? If yes, describe:

The project will not add any exterior reflective surfaces within the Project Area.

Reduction or Avoidance of Impacts:

Discuss possible actions that could reduce or avoid any adverse environmental affects raised in the previous section, *Environmental Aspects of the Project*. Use appropriate reference numbers.

The project would reclaim areas disturbed by mining activities. Reclamation has beneficial impacts in terms of visual appearance, drainage and erosion control, water quality and habitat quality. The attached Amendment and supporting technical documents detail substantial reclamation obligations that Lehigh proposes to accept in order to reclaim existing and future mining disturbance at the site. Any potential adverse environmental affects will be identified in the environmental review for the project.