

County of Santa Cruz

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131

KATHLEEN MOLLOY, PLANNING DIRECTOR

www.sccoplanning.com

NOTICE OF INTENT TO ADOPT A NEGATIVE DECLARATION

NOTICE OF PUBLIC REVIEW AND COMMENT PERIOD

Pursuant to the California Environmental Quality Act, the following project has been reviewed by the County Environmental Coordinator to determine if it has a potential to create significant impacts to the environment and, if so, how such impacts could be solved. A Negative Declaration is prepared in cases where the project is determined not to have any significant environmental impacts. Either a Mitigated Negative Declaration or Environmental Impact Report (EIR) is prepared for projects that may result in a significant impact to the environment.

Public review periods are provided for these Environmental Determinations according to the requirements of the County Environmental Review Guidelines. The environmental document is available for review at the County Planning Department located at 701 Ocean Street, in Santa Cruz. You may also view the environmental document on the web at www.sccoplanning.com under the Planning Department menu. If you have questions or comments about this Notice of Intent, please contact Matt Johnston of the Environmental Review staff at (831) 454-5357.

The County of Santa Cruz does not discriminate on the basis of disability, and no person shall, by reason of a disability, be denied the benefits of its services, programs or activities. If you require special assistance in order to review this information, please contact Bernice Shawver at (831) 454-3137 to make arrangements.

PROJECT: Felton Quarry APP #: 191104

APNs: 062-181-12, 064-201-13, -79, 80, -81, 064-211-67, -68

PROJECT DESCRIPTION: The project is an amendment of the Felton Quarry Mining Approval to allow eighty (80) additional off-hours operations, which occur outside of the normal operating hours of the quarry, for a total of one hundred (100) off-hours operations per year. The mining operation includes an asphalt plant that processes heavy oil with aggregate to produce asphaltic concrete used in road and highway construction and maintenance throughout Santa Cruz County and the region. Offhours operations include operation of the asphalt plant to supply public paving projects at night and on Saturday. The normal operating hours of the quarry are 6:00 A.M. to 8:00 P.M. Monday through Friday for shipping. The existing Mining Approval allows twenty (20) exceptions to these hours for operation of the asphalt plant and trucking of asphalt to public paving projects at night and on Saturday without prior approval of the Planning Director. One exception is represented by one night operation or one Saturday operation, and one night or Saturday operation may involve varying amounts of truck trips depending on the size of the paving project. The existing Mining Approval also allows the quarry operator to request twenty (20) additional exceptions and the Planning Department has the discretion to approve or deny the request. Approval such a request would allow a total of up to forty (40) off-hours operations per year under the existing Mining Approval. With this application, the quarry operator is seeking to amend the Mining Approval for approval of eighty (80) additional exceptions in addition to the twenty (20) exceptions already allowed by the permit conditions for a total of one hundred (100) exceptions for off-hours operations of the asphalt plant.

The reason for the request is due to a combination of factors. Because of increasing traffic congestion and the impacts on traffic flow, road maintenance projects on major roadways and highways are

increasingly scheduled at night to reduce traffic congestion and improve job safety. In addition, the Road Repair and Accountability Act of 2017 (SB 1) is generating significant new funding for road maintenance projects, which is expected to result in an increase in paving projects occurring at night.

PROJECT LOCATION: The project is located at the end of Felton Quarry Road which extends from San Lorenzo Avenue in the community of Felton in unincorporated Santa Cruz County. Santa Cruz County is located on the central California coast in the northern part of Monterey Bay. The inland boundary of the County follows the crest of the northwest-southeast trending Santa Cruz Mountains. The Felton Quarry is located in an area of granitic rocks in the northern part of the County in a rural area between the town of Felton and the more dispersed community of Bonny Doon.

APPLICANT/OWNER: Granite Construction Company / CGK, Sinnot, Kester, et.al.

PROJECT PLANNER: David Carlson, (831) 454-3173

EMAIL: David.Carlson@santacruzcounty.us

ACTION: Negative Declaration

REVIEW PERIOD: February 3, 2020 through February 24, 2020

This project will be considered at a public hearing before the Planning Commission. The time, date and location have not been set. When scheduling does occur, these items will be included in all public hearing notices for the project.



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123

KATHLEEN MOLLOY, PLANNING DIRECTOR

http://www.sccoplanning.com/

NEGATIVE DECLARATION

Project: Felton Quarry

APPLICATION #: 191104

APNs: 062-181-12, 064-201-13, -79, 80, -81, 064-211-67, -68

Project Description: The project is an amendment of the Felton Quarry Mining Approval to allow eighty (80) additional off-hours operations, which occur outside of the normal operating hours of the quarry, for a total of one hundred (100) off-hours operations per year. The mining operation includes an asphalt plant that processes heavy oil with aggregate to produce asphaltic concrete used in road and highway construction and maintenance throughout Santa Cruz County and the region. Off-hours operations include operation of the asphalt plant to supply public paving projects at night and on Saturday. The normal operating hours of the quarry are 6:00 A.M. to 8:00 P.M. Monday through Friday for shipping. The existing Mining Approval allows twenty (20) exceptions to these hours for operation of the asphalt plant and trucking of asphalt to public paving projects at night and on Saturday without prior approval of the Planning Director. One exception is represented by one night operation or one Saturday operation, and one night or Saturday operation may involve varying amounts of truck trips depending on the size of the paving project. The existing Mining Approval also allows the quarry operator to request twenty (20) additional exceptions and the Planning Department has the discretion to approve or deny the request. Approval such a request would allow a total of up to forty (40) off-hours operations per year under the existing Mining Approval. With this application, the quarry operator is seeking to amend the Mining Approval for approval of eighty (80) additional exceptions in addition to the twenty (20) exceptions already allowed by the permit conditions for a total of one hundred (100) exceptions for off-hours operations of the asphalt plant.

The reason for the request is due to a combination of factors. Because of increasing traffic congestion and the impacts on traffic flow, road maintenance projects on major roadways and highways are increasingly scheduled at night to reduce traffic congestion and improve job safety. In addition, the Road Repair and Accountability Act of 2017 (SB 1) is generating significant new funding for road maintenance projects, which is expected to result in an increase in paving projects occurring at night.

Project Location: The project is located at the end of Felton Quarry Road which extends from San Lorenzo Avenue in the community of Felton in unincorporated Santa Cruz County. Santa Cruz County is located on the central California coast in the northern part of Monterey Bay. The inland boundary of the County follows the crest of the northwest-southeast trending Santa Cruz Mountains. The Felton Quarry is located in an area of granitic rocks in the northern part of the County in a rural area between the town of Felton and the more dispersed community of Bonny Doon.

Owner: CGK, Sinnot, Kester, et.al.

Applicant: Granite Construction Company Staff Planner: David Carlson, (831) 454-3173

Email: David.Carlson@santacruzcounty.us

This project will be considered at a public hearing before the Planning Commission. The time, date and location have not been set. When scheduling does occur, these items will be included in all public hearing notices for the project

California Environmental Quality Act Negative Declaration Findings:

Find, that this Negative Declaration reflects the decision-making body's independent judgment and analysis, and; that the decision-making body has reviewed and considered the information contained in this Negative Declaration and the comments received during the public review period, and; on the basis of the whole record before the decision-making body (including this Negative Declaration) that there is no substantial evidence that the project will have a significant effect on the environment. The expected environmental impacts of the project are documented in the attached Initial Study on file with the County of Santa Cruz Clerk of the Board located at 701 Ocean Street, 5th Floor, Santa Cruz, California.

Review Period Ends:	February 24, 2020	
		Date:
		MATT JOHNSTON, Environmental Coordinator (831) 454-5357



County of Santa Cruz

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 KATHLEEN MOLLOY, PLANNING DIRECTOR

www.sccoplanning.com

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) INITIAL STUDY/ENVIRONMENTAL CHECKLIST

Thursday January 16, 2020 Date:

Application Number:

191104

Project Name:

Felton Quarry

Staff Planner: David Carlson

I. OVERVIEW AND ENVIRONMENTAL DETERMINATION

APPLICANT:

Granite Construction

APN(s):

062-181-12, 064-201-13, -79,

Company

-80, -81, 064-211-67, -68

OWNER:

CGK, Sinnot, Kester, etal.

SUPERVISORAL DISTRICT: 3 and 5

PROJECT LOCATION: The project is located at the end of Felton Quarry Road which extends from San Lorenzo Avenue in the community of Felton in unincorporated Santa Cruz County (Figure 1). Santa Cruz County is located on the central California coast in the northern part of Monterey Bay. The inland boundary of the County follows the crest of the northwestsoutheast trending Santa Cruz Mountains. The Felton Quarry is located in an area of granitic rocks in the northern part of the County in a rural area between the town of Felton and the more dispersed community of Bonny Doon.

SUMMARY PROJECT DESCRIPTION:

The project is an amendment of the Felton Quarry Mining Approval to allow eighty (80) additional off-hours operations, which occur outside of the normal operating hours of the quarry, for a total of one hundred (100) off-hours operations per year. The mining operation includes an asphalt plant that processes heavy oil with aggregate to produce asphaltic concrete used in road and highway construction and maintenance throughout Santa Cruz County and the region. Off-hours operations include operation of the asphalt plant to supply public paving projects at night and on Saturday. The normal operating hours of the quarry are 6:00 A.M. to 8:00 P.M. Monday through Saturday for mining and processing, and 6:00 A.M. to 8:00 P.M. Monday through Friday for shipping. The existing Mining Approval allows twenty (20) exceptions to these hours for operation of the asphalt plant and trucking of asphalt to public paving projects at night and on Saturday without prior approval of the Planning Director. One exception is represented by one night operation or one Saturday operation, and one night or Saturday operation may involve varying amounts of truck trips depending on the size of the paving project. The existing Mining Approval also allows the quarry operator to request twenty (20) additional exceptions and the Planning Department has the discretion to approve or deny the request. Approval of such a request would allow a total of up to forty (40) offhours operations per year under the existing Mining Approval. With this application, the quarry operator is seeking to amend the Mining Approval for approval of eighty (80) additional exceptions in addition to the twenty (20) exceptions already allowed by the permit conditions for a total of one hundred (100) exceptions for off-hours operations of the asphalt plant.

The reason for the request is due to a combination of factors. Because of increasing traffic congestion and the impacts on traffic flow, road maintenance projects on major roadways and highways are increasingly scheduled at night to reduce traffic congestion and improve job safety. In addition, the Road Repair and Accountability Act of 2017 (SB 1) is generating significant new funding for road maintenance projects, which is expected to result in an increase in paving projects occurring at night.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED: All of the following potential					
environmental impacts are evaluated in this Initial Study. Categories that are marked have been analyzed in greater detail based on project specific information.					
	tics and Visual Resources		Mineral Resources		
	ture and Forestry Resources	\boxtimes	Noise		
Air Qua	ılity	Ш	Population and Housing		
Biologic	cal Resources		Public Services		
☐ Cultura	I Resources		Recreation		
Energy		\boxtimes	Transportation		
Geolog	y and Soils		Tribal Cultural Resources		
⊠ Greenh	ouse Gas Emissions		Utilities and Service Systems		
Hazard	s and Hazardous Materials		Wildfire		
☐ Hydrold	ogy/Water Supply/Water Quality		Mandatory Findings of Significance		
□ Land U	se and Planning				
		* :			
DISCRETION	DNARY APPROVAL(S) BEING C	ONS	DERED:		
Gener	al Plan Amendment	$\overline{\Box}$	Coastal Development Permit		
Land [Division		Grading Permit		
Rezon	ing		Riparian Exception		
Develo	ppment Permit		LAFCO Annexation		
☐ Sewer	Connection Permit	\boxtimes	Other: Mining Approval Amendment		
	BLIC AGENCIES WHOSE APPR				
financing a	pproval, or participation agreer	nent)			
Permit Type	Action	Ager	<u>ıcy</u>		
None		None	e		

CONSULTATION WITH NATIVE AMERICAN TRIBES: Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

No California Native American tribes traditionally and culturally affiliated with the area of Santa Cruz County have requested consultation pursuant to Public Resources Code section 21080.3.1.

DE	TERMINATION:
On	the basis of this initial evaluation:
\boxtimes	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.
8447	TT JOHNSTON Environmental Coordinator Date
IVIA I	TT JOHNSTON, Environmental Coordinator Date



This page intentially left blank.

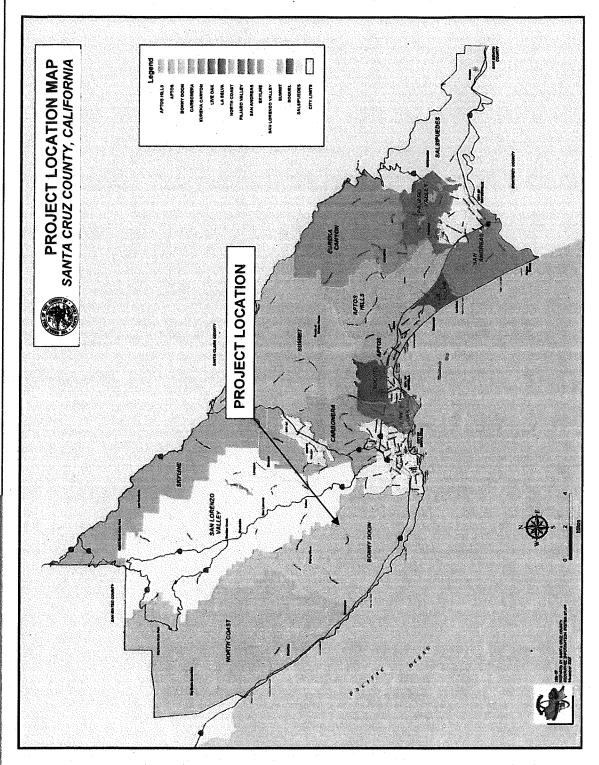


Figure 1



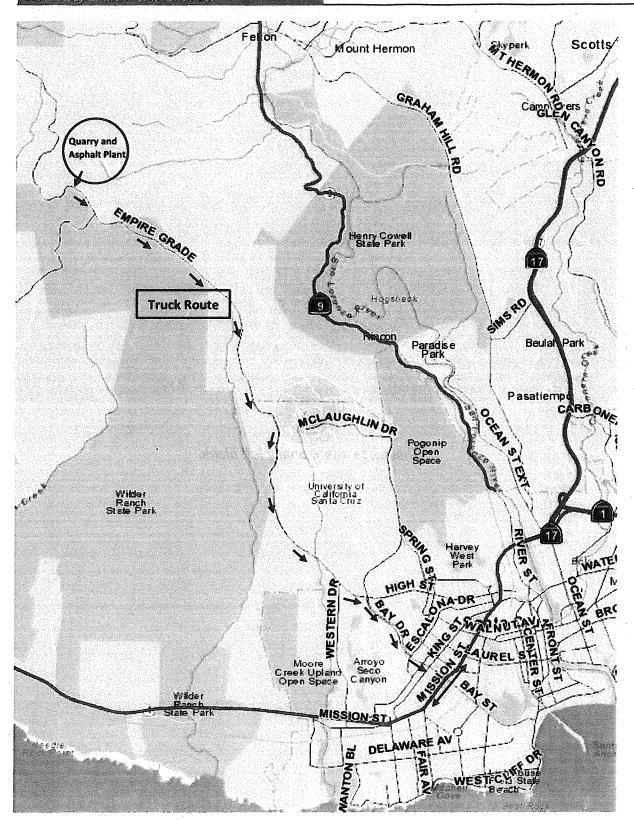
This page intentially left blank.

Project Site Plan

Figure 2



This page intentially left blank.



Night and Saturday Truck Route

Figure 3



II. BACKGROUND INFORMATION

EXISTING SITE CONDITIONS:

Parcel Size (acres): 7 parcels, 260 acres; Mining area approximately 90 acres **Existing Land Use:** Mining Mixed evergreen forest outside of mining area Vegetation: Slope in area affected by project: ☐ 0 - 30% ☐ 31 - 100% ☒ N/A **Nearby Watercourse:** Gold Gulch Creek Distance To: Headwaters on site **ENVIRONMENTAL RESOURCES AND CONSTRAINTS:** Fault Zone: Water Supply Watershed: Yes No **Groundwater Recharge:** Yes Scenic Corridor: No Timber or Mineral: Historic: Both No Agricultural Resource: Archaeology: No No **Biologically Sensitive Habitat: Noise Constraint:** No Yes Fire Hazard: Critical/High **Electric Power Lines:** N/A Floodplain: Solar Access: N/A No Erosion: Solar Orientation: Yes Yes Landslide: **Hazardous Materials:** Yes Yes Liquefaction: Other: N/A No **SERVICES:** Fire Protection: **CSA 48** Drainage District: Zone 8 School District: SLV Project Access: Private Sewage Disposal: Water Supply: Wells CSA 12 PLANNING POLICIES: Zone District: Special Designation: M-3, TP No General Plan: Mountain Residential R-M **Urban Services Line:** ○ Outside Inside

ENVIRONMENTAL SETTING AND SURROUNDING LAND USES:

Inside

Natural Environment

Coastal Zone:

Santa Cruz County is uniquely situated along the northern end of Monterey Bay approximately 55 miles south of the City of San Francisco along the Central Coast. The Pacific Ocean and Monterey Bay to the west and south, the mountains inland, and the prime agricultural lands along both the northern and southern coast of the county create limitations on the style and amount of building that can take place. Simultaneously, these natural features create an environment that attracts both visitors and new residents every year. The natural landscape provides the basic features that set Santa Cruz apart from the surrounding counties and require

⊠ Outside

specific accommodations to ensure building is done in a safe, responsible and environmentally respectful manner.

The California Coastal Zone affects nearly one third of the land in the urbanized area of the unincorporated County with special restrictions, regulations, and processing procedures required for development within that area. Steep hillsides require extensive review and engineering to ensure that slopes remain stable, buildings are safe, and water quality is not impacted by increased erosion. The farmland in Santa Cruz County is among the best in the world, and the agriculture industry is a primary economic generator for the County. Preserving this industry in the face of population growth requires that soils best suited to commercial agriculture remain active in crop production rather than converting to other land uses.

There are a number of active mining operations in Santa Cruz County which provide important mineral resources for industrial uses and construction purposes. The mines occur on mineral resource lands that have been classified by the State Geologist and designated by the State Mining and Geology Board as Regionally Significant Mineral Resource Areas. County policies reflect the requirements of State law to protect mineral resource lands for the orderly extraction of minerals with minimal impact on the environment and surrounding land uses, and reclamation of mine (quarry) sites.

PROJECT BACKGROUND:

While mining has taken place at the Felton Quarry for a much longer period of time, a use permit was approved by the County in 1979 following passage of the State Surface Mining and Reclamation Act (SMARA). A major amendment to the use permit was approved in 1993 that established the current mining plan and another amendment was approved in 2000 that allowed additional night operations of the asphalt plant. In addition, the Planning Commission has conducted periodic reviews of the mining operation in 2004 and 2010. As a result of the 2004 review additional measures were implemented by Granite Construction that have significantly reduced noise and improved dust control at the quarry.

DETAILED PROJECT DESCRIPTION:

The Felton Quarry operation mines and processes construction aggregate and asphalt concrete (asphalt) products for construction and maintenance projects throughout Santa Cruz County and regionally. The quarry also provides decorative aggregate materials (California Gold path fines, washed aggregates and accent boulders) that are used throughout northern California. The Felton Quarry operations are currently in their 41st year of mining under the current mining approval. The original mining approval estimated a 50-year operating life, which indicates the remaining lifespan of the Quarry, under the original estimate, would be about 9 years. However, due to a historic rate of mining which has been less than the original estimate, the remaining lifespan will likely be longer than 9 years.

Quarry operations include the excavation, washing, screening, stockpiling and shipping of aggregate resources. Mining operations begin with the stripping of vegetation and removal of topsoil, which is then stockpiled for use in future reclamation activities. The next process is removing raw materials from the deposit by the benching method. The first step in this process is the ripping of the material by a large ripper-equipped bulldozer. This method is occasionally augmented by blasting when necessary. The harvested raw material is loaded onto the primary feeder and a conveyor system transfers the material to the crushing and screening plant for processing.

The process of washing and screening the aggregates to produce the desired products requires the use of large quantities of water. Initially water is stored in a reservoir and is then used for scrubbing and rinsing of the aggregates. The process water is then directed to a clarifier that mechanically separates large amounts of fine sand, silt and clay. The next step in the dewatering process includes a belt press that squeezes out additional water from the silts and clays. The process water is directed back to the plant for washing aggregate. The "mud" is then sold/donated as a product or used in onsite reclamation. This wash water system was improved in 1995 to recycle 100% of the water directly from the clarifier/ belt press system and to eliminate flow to the pond system.

All shipping is accomplished by trucks, which vary in size from pick-ups to double trailer big rigs over specific haul routes.

The operation includes an asphalt plant that processes heavy oil with aggregate to produce asphalt used in road and highway construction and maintenance throughout Santa Cruz County and the region. The asphalt plant can also use Recycled Asphalt Products (RAP) in its mix, processing old asphalt removed from the highway as part of the fresh asphalt mix returned to the highway. The asphalt plant can produce new asphalt that includes 15 percent RAP with plans to increase the portion to 25 percent. This reduces the amount of fresh oil and aggregate needed to produce new asphalt. As allowed under the existing permit, the asphalt plant occasionally operates at night to supply public road paving projects that occur at night. Because of increased traffic congestion and the impacts on traffic flow, road maintenance projects on major roadways and highways are increasingly scheduled at night to reduce traffic congestion and improve job safety.

Twenty exceptions for off-hour operations of the asphalt plant (nights and Saturday) are allowed without prior approval of the Planning Director. An additional 20 exceptions per year may be granted at the discretion of the Planning Director for off-hour operations for a maximum of 40 exceptions per year. In recent years the number of off-hours operations has varied from 1 to 34 per year. All off-hour operations are for public agency projects only. Neighborhood notification is given prior to each off-hour operation. During off-hours operations the quarry monitors speed and decibel levels of trucks along the haul route through the neighborhood. A neighborhood notice that is mailed out to neighbors along the haul route contains telephone numbers of the quarry and the Planning Department quarry planner. The

contact information is intended to enable neighbors to contact the quarry or the Planning Department quarry planner during the off-hours operation to lodge a complaint. In recent years there has been a very small number of complaints, ranging from zero to three per year.

The asphalt plant, which operates at night on the occasion of an exception, is constructed with noise reducing equipment (mufflers, silencers) on noise producing parts of the plant. As a result of the 2010 Planning Commission review additional noise reducing equipment was installed, which further reduced noise level. In addition, since the last Planning Commission review the operator has been using an asphalt odor suppressant added to the asphalt oil to reduce odors in general and during night operations.

The quarry maintains a trucker awareness program consisting of several elements. All first-time truckers receive a copy of the Felton Quarry Trucker Policy consisting of speed, noise and time restrictions along with enforcement actions for violations. The quarry operator conducts occasional radar monitoring of speed to enforce this policy. Signs are posted along the quarry road to remind truckers about speed and noise. Truckers are required to use specific haul routes either through Felton and Scotts Valley or down Empire Grade during normal operations, and down Empire Grade only during night operations. The truck route for a night operation is down Empire Grade, which transitions to High Street within the City of Santa Cruz, right on Bay Drive, which transitions to Bay Street at the bottom of the hill, and left or right on Mission Street, which is the continuation of Highway 1 through the City of Santa Cruz. The Planning Department receives no complaints related to trucking during normal operating hours.

Granite Construction was recently selected by the California Department of Transportation (Caltrans) as the lead contractor on a Highway 17 road repaving project that required approximately 100 nights of paving work in 2019. As with most contemporary Caltrans projects, the contract required paving at night to limit the impact to daytime commuters. Granite Construction did supply the project with asphalt out of multiple area plants and submitted a request to the Santa Cruz County Planning Department to be able to supply 50 of the nights out of the Felton Plant in 2019. Planning Department staff granted the request with concurrence from the Planning Commission as a Minor Variation to their permit. This paving work was facilitated in part as a result of the recent voter-approved increase in gas tax funding and it is anticipated that an increased amount of paving work will continue in future years (In the 2018 election voters defeated Proposition 6, which proposed a repeal of SB 1). In anticipation of this trend, this application by Granite Construction seeks approval of a Minor Amendment to their permit, similar to the 2000 minor amendment, to increase off-hours operations at the Felton Plant to 100 nights and weekends per year.

Santa Cruz County Code Chapters 18.10 Procedures contains several provisions addressing permit amendments and SCCC Chapter 16.54 Mining Regulations contains specific procedures for amendments to mining permits, including a Minor Variation, or Minor or Major Amendment.

A Minor Variation is an amendment to a planning approval, including (without limitation) project design, improvements, or conditions of approval, if the amendment does not affect the overall concept, density, or intensity of use of the approved project, and if it does not involve either a modification of a design consideration, an improvement, or a condition of approval which was a matter of discussion at the public hearing at which the planning approval was granted (SCCC 18.10.134). The Mining Regulations specifically provide that a Minor Variation to any condition of approval of a mining permit may be made by Planning staff, pursuant to the authority contained in SCCC 18.10.134, and shall be forwarded as a written correspondence item on the next Planning Commission agenda. No other public notice is required. In reviewing the Minor Variation the Planning Commission may require the minor variation to be processed as a Minor or Major Amendment or may add, delete, or revise any condition of the Minor Variation (SCCC 16.54.032(e)).

The existing permit allows up to 40 off-hours operations of the asphalt plant and the Minor Variation approved in 2019 allowed up to 50 off-hours operations for the year 2019 only. In future years the existing permit allowance of up to 40 off-hours operations per year would remain in effect unless another permit amendment is granted. The current application is a request to allow up to 100 off-hours operations per year.

A Minor Mining approval amendment means a minor change to a mining operation having no significant impact on the environment, which may include (without limitation), minor change in hours of operation, drainage pattern or operational equipment (SCCC 16.54.020). Based on the analysis in this Initial Study, the proposed project would not have a significant effect on the environment, and a Negative Declaration will be prepared. Therefore, the proposed project qualifies as a Minor Amendment. A Minor Mining Approval Amendment is a staff level review, meaning no public hearing is required, but requires public notice by mail to property owners and occupants within 0.5 miles of the mine and to others who have requested to be on the mailing list.

The mining regulations also require that the mining operation undergo a permit review by the Planning Commission at regular intervals. The last permit review occurred in 2010, therefore, the mining operation is due for another permit review by the Planning Commission. Santa Cruz County Code requires that when more than one permit action is required for any one project, all the required actions for that permit shall, when appropriate, be concurrently acted upon at the highest processing level required for any of the required permit actions for the project (SCCC 18.10.123(B)). This means that the requested permit amendment and the permit review will both be acted on concurrently by the Planning Commission at a public hearing.

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

III. ENVIRONMENTAL REVIEW CHECKLIST

	ESTHETICS AND VISUAL RESOURCES of as provided in Public Resources Code se		would the	project:	
1.	Have a substantial adverse effect on a scenic vista?				
opera	eussion: The project involves a request for ation of an existing asphalt plant and addition project would not directly impact any public	onal trucking	g along an	existing tru	
2.	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes
Grad any s state	eussion: The truck route for off-hours of the which is a County-designated scenic road scenic resources because it does not involve scenic highway, a County-designated scenic enic resource area. Therefore, no impact wo	d. However, e any change road, public	the projects to physic	t would no cal features	t damage within a
3.	Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
Grad the e it do	eussion: The truck route for off-hours of the which is a County-designated scenic road existing visual character or quality of public values and involve any changes to physical feat and occur.	d. However, riews of the s	the projec ite and its s	t would no urrounding	t degrade s because
4.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Discussion: The project would create an incremental increase in night lighting during off-hours operation of the asphalt plant. However, the asphalt plant is not visible from any public areas. Therefore, no impact would occur.

B. AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

Protection regarding the state's inventory of forest Assessment Project and the Forest Legacy A measurement methodology provided in Forest F. Resources Board. Would the project:	ssessment F	Project; and	forest carbon
1. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?			
Discussion: The project would not impact any lar Farmland, or Farmland of Statewide Importance as the Farmland Mapping and Monitoring Program addition, the project does not impact Farmland of Farmland, Unique Farmland, Farmland of Statewid be converted to a non-agricultural use. No impact v	shown on the of the Califo Local Impor e or Farmland	e maps prepa ornia Resour tance. There l of Local Im	ared pursuant to ces Agency. In efore, no Prime portance would
2. Conflict with existing zoning for agricultural use, or a Williamson Act contract?			
Discussion : The project site is not located in an a site's land is not under a Williamson Act contract with existing zoning for agricultural use, or a Willoccur.	Therefore, the	he project d	oes not conflict
3. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by			

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(a))?

	51104(g))?				
	cussion: The project would not impact land	designated a	s Timber F	Resource. T	herefore,
no ii	npact would occur.				
4.	Result in the loss of forest land or conversion of forest land to non-forest use?				
Disc	cussion: No forest land would be affected b	y the projec	t. No impa	ct would o	ccur.
5 .	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				
	cussion : The project would not impact Farm ld occur.	nlands or fore	est lands. T	herefore, n	o impacts
The s	IR QUALITY significance criteria established by the Monto een relied upon to make the following deten	erey Bay Air minations. V	Resource Vould the p	s District (l project:	MBARD) ¹
1. .	Conflict with or obstruct implementation of the applicable air quality plan?				\boxtimes
Plan estir inve sign syste	cussion: The project would not conflict with (AQMP) of MBARD for the North Central enated basin-wide on-road trucking related entories included in the AQMP, impacts to difficant. The project is related to ongoing mem and, therefore, the increased truck trips related asphalt plant supplying the project.	Coast Air Ba missions are air quality naintenance	sin (NCCA accounted plan obje of the exi	B). Becaus I for in the ectives are sting trans	e general emission less than portation
syste impa	nuse the trucking activity would be associated em which does not increase population or he act on the emissions forecast in the AQMP. sistent with the AQMP.	ousing the tr	rucking act	ivity would	l have no
Form	erly known as the Monterey Bay Unified Air Pollution	n Control Distri	ict (MBUAPO	CD).	

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Santa Cruz County is located within the NCCAB. The NCCAB does not meet state standards for ozone (reactive organic gases [ROGs] and nitrogen oxides [NOx]) and fine particulate matter (PM10). Therefore, the regional pollutants of concern that would be emitted by the project are ozone precursors and PM10. General estimated basin-wide trucking-related emissions are included in the MBARD emission inventory and are not expected to prevent long-term attainment or maintenance of the ozone and particulate matter standards within the North Central Coast Air Basin (NCCAB). Therefore, trucking impacts related to air quality plans for these pollutants from the project would be less than significant, and no mitigation would be required, since they are presently estimated and accounted for in the District's emission inventory. No stationary sources would be constructed that would be long-term permanent sources of emissions.

Given that no new basin-wide traffic would be generated by the project there is no indication that new emissions of ROGs or NOx would exceed MBARD thresholds for these pollutants; and therefore, there would not be a significant contribution to an existing air quality violation.

Although not a mitigation measure per se (i.e., required by law), California ultralow sulfur diesel fuel with a maximum sulfur content of 15 ppm by weight will be used in all diesel-powered equipment, which minimizes sulfur dioxide and particulate matter. In addition, California regulations require the types of trucks typically used to haul asphalt to reduce exhaust emissions by meeting particulate matter (PM) filter requirements and upgrade to a 2010 or newer engine model year (EMY).

The asphalt plant is subject to operating permits from the MBARD which sets no limits on the throughput and fuel use to operate the plant. The permits are renewed annually at which time annual process throughput, along with propane and diesel fuel usage are reported to the District. An increase in the number of allowed night operations of the asphalt plant is not limited by the existing operating permit. Therefore, the increase in night operations of the asphalt plant, subject to the existing operating permit, would not conflict with or obstruct implementation of the air quality plan.

2.	Result in a cumulatively considerable net increase of any criteria pollutant for which		\boxtimes
	the project region is non-attainment under		
	an applicable federal or state ambient air		
	quality standard?		•

Discussion: The primary pollutants of concern for the NCCAB are ozone and PM10, as those are the pollutants for which the district is in nonattainment. The criteria for assessing cumulative impacts on localized air quality are the same as those for assessing individual project impacts. Projects that do not exceed MBARD's construction or operational thresholds and are consistent with the AQMP would not have cumulatively considerable impacts on

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

regional air quality (MBARD, 2008). Because the project would not exceed MBARD's thresholds and is consistent with the AQMP, there would not be cumulative impacts on regional air quality.

3 .	Expose sensitive receptors to substantial	П	n .		
	pollutant concentrations?	لــا	L	لاسيا	L

Discussion: The project is an amendment of the Felton Quarry Mining Approval to allow eighty (80) additional off-hours operations, which occur outside of the normal operating hours of the quarry, for a total of one hundred (100) off-hours operations per year. Off-hours operations include operation of the asphalt plant to supply public paving projects at night and on Saturday. The truck route for a night operation is down Empire Grade, which transitions to High Street within the City of Santa Cruz, right on Bay Drive, which transitions to Bay Street at the bottom of the hill, and left or right on Mission Street, which is the continuation of Highway 1 through the City of Santa Cruz. Sensitive receptors along the truck route primarily consist of residences. Along Bay Drive/Street and High Street the homes are typically setback from the front property line at least 20 feet, more in some cases, with additional distance represented by sidewalks and landscaping areas between the property line and the travel lane of the street. Sensitive receptors exist further up Empire Grade in an isolated rural residential neighborhood where the homes are typically setback from the road by much greater distances compared to homes within the city limits. There is a private school along the truck route on Empire Grade but school would not be in session during a night operation of the asphalt plant.

Diesel exhaust contains substances (diesel particulate matter [DPM], toxic air contaminants [TACs], mobile source air toxics [MSATs]) that are suspected carcinogens, along with pulmonary irritants and hazardous compounds, which may affect sensitive receptors such as young children, senior citizens, or those susceptible to respiratory disease. Where trucking activity occurs in proximity to long-term sensitive receptors, a potential could exist for unhealthful exposure of those receptors to diesel exhaust, including residential receptors.

MBARD's CEQA Air Quality Guidelines indicate that the following traffic effects should be assumed to generate a significant carbon monoxide (CO) impact, unless CO dispersion modeling demonstrates otherwise:

- Intersections or road segments that operate at level of service (LOS) D or better would operate at LOS E or F with the project's traffic;
- Intersections or road segments that operate at LOS E or F where the volume-to-capacity (V/C) ratio would increase 0.05 or more with the project's traffic;
- Intersections that operate at LOS E or F where delay would increase by 10 seconds or more with the project's traffic;

Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

- Unsignalized intersections which operate at LOS E or F where the reserve capacity would decrease by 50 or more with the project's traffic; or
- The project would generate substantial heavy-duty truck traffic or generate substantial traffic along urban street canyons or near a major stationary source of CO.

Impacts

The asphalt plant is subject to operating permits from the MBARD which sets no limits on the throughput and fuel use to operate the plant. The permits are renewed annually at which time annual process throughput, along with propane and diesel fuel usage are reported to the District. An increase in the number of allowed night operations of the asphalt plant is not limited by the existing operating permit. Therefore, the increase in night operations of the asphalt plant, subject to the existing operating permit, would not conflict with or obstruct implementation of the air quality plan and would have a less than significant impact on sensitive receptors in the vicinity of the plant.

Diesel particulate matter was identified as a toxic air contaminant (TAC) by the State of California in 1998. Following the identification of diesel as a TAC, the California Air Resources Board (CARB) developed a comprehensive strategy to control diesel PM emissions. The "Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles"—a document approved by ARB in September 2000—set goals to reduce diesel PM emissions in California by 75% by 2010 and 85% by 2020. This objective would be achieved by a combination of approaches (including emission regulations for new diesel engines and low sulfur fuel program). An important part of the Diesel Risk Reduction Plan is a series of measures for various categories of in-use on- and off-road diesel engines, which are generally based on the following types of controls:

- Retrofitting engines with emission control systems, such as diesel particulate filters or oxidation catalysts,
- Replacement of existing engines with new technology diesel engines or natural gas engines, and
- Restrictions placed on the operation of existing equipment.

Once the Diesel Risk Reduction Plan was adopted, the ARB started developing emission regulations for a number of categories of in-use diesel vehicles and equipment. In July 2007, the ARB adopted regulations for in-use, diesel vehicles that will significantly reduce particulate matter emissions by requiring fleet owners to accelerate turnover to cleaner engines and install exhaust retrofits.

The trucking activity would involve the use of diesel trucks and equipment that will emit diesel exhaust, including diesel particulate matter, which is classified as a TAC. Adjacent

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

residents and businesses would be exposed to diesel emissions related to the diesel trucking activity, but the trucking activities would be of intermittent and of short-term duration. CARB has identified diesel exhaust particulate matter as a TAC, and assessment of TAC cancer risks is typically based upon a 70-year exposure period. The diesel trucking activity would expose receptors to possible diesel exhaust for a limited number of days and hours out of a 70-year (365 day per year, 24-hour per day) period. Because exposure to diesel exhaust will be well below the 70-year exposure period and given the intermittent and short-term duration of the trucking activity, trucking related diesel emissions are not considered significant. Furthermore, the State is implementing emission standards for different classes of on and off-road diesel vehicles and equipment that apply to on-road diesel fleets and includes measures such as retrofits. Additionally, Title 13 of the California Code of Regulations (section 2485(c)(1)) prohibit idling of a diesel engine for more than 5 minutes in any location.

Additionally, the trucking would occur for a limited number of nights (up to 100 nights per year) and the trucks would not be limited to operations on a constrained site such as a construction site. Rather the trucks would be traveling along a designated truck route on an arterial street at regular intervals. It can be reasonably concluded that the exposure rate would be well below the 70-year (365 day per year, 24-hour per day) period. Therefore, the increased night trucking would not expose sensitive receptors (i.e. residents, schools, hospitals) to toxic air contaminants that exceed health exposure rates.

The City of Santa Cruz considers "D" or better to be an acceptable intersection level of service for intersections. According to the EIR for the City of Santa Cruz General Plan 2030, the signalized intersections along the truck route all operate at acceptable levels of service during peak traffic hours and would continue to operate at acceptable levels of service with the build-out assumptions in the General Plan 2030. The off-hours increase in truck traffic would occur during non-peak hours. Therefore, it can be reasonably concluded the increased truck traffic would not cause impacts to LOS at any intersections along the truck route. This also means the increased night truck traffic during non-peak hours would not cause a significant carbon monoxide (CO) impact.

The project would not be expected to expose sensitive receptors to substantial pollutant concentrations. Impacts would be less than significant.

4.	Result in other emissions (such as those leading to odors) adversely affecting a		
	substantial number of people?		

Discussion: The County has received complaints about odor from the asphalt plant from one neighbor of the operation. The County has not received complaints about odor from trucks from any residents along the truck route. This does not represent a substantial or considerable number of people. The asphalt plant operates under permits from the MBARD with annual reporting on throughput and resulting emissions from the plant. Based on this

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

regulatory oversight, and compliance with the operating permits, the operation of the asphalt plant does not represent a health or safety danger to the public. Therefore, the operation of the asphalt plant associated with the increased night trucking would not create objectionable odors in substantial concentrations, affecting a substantial number of people, which could result in injury, nuisance or annoyance to a considerable number of persons or would endanger the comfort, health or safety of the public.

CIIG	anger the comfort, heater or surety of the public.				
	BIOLOGICAL RESOURCES Id the project:				
1.	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife, or U.S. Fish and Wildlife Service?				
truc eith sens	cussion: The project consists of operation of thing activity along an existing truck route. The paper directly or through habitat modifications, or sitive, or special status species in local or regional afornia Department of Fish and Wildlife, or U.S. F	oroject v n any s plans,	would not pecies ide policies, o	have an acentified as or regulation	dverse effect a candidate
2.	Have a substantial adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, regulations (e.g., wetland, native grassland, special forests, intertidal zone, etc.) or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
truc on a poli	cussion: The project consists of operation of a king activity along an existing truck route. The p any riparian habitat or sensitive natural commun- cies, regulations or by the California Departmen dlife Service.	roject v ity ider	would not ntified in l	have an ac	dverse effect gional plans,
3.	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal,				

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

	filling, hydrological interruption, or other means?				
trucl	cussion: The project consists of operation of cing activity along an existing truck route. The state or federally protected wetlands through the cruption, or other means.	e project wo	ould not h	ave an adve	rse effect
4.	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
	eussion: The project does not involve any ements or migrations of fish or wildlife or imp				
5.	Conflict with any local policies or ordinances protecting biological resources (such as the Sensitive Habitat Ordinance, Riparian and Wetland Protection Ordinance, and the Significant Tree Protection Ordinance)?			·	
Disc	cussion: The project would not conflict with	any local p	olicies or o	ordinances.	
6.	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				
Con	eussion: The project would not conflict wiservation Plan, Natural Community Conservation plan. Therefore, no in	ion Plan, or	other app		
	ULTURAL RESOURCES d the project:				
1.	Cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5?				\boxtimes
	cussion: The project would not include an area change in the significance of a historical re		that could	l cause a su	ıbstantial

	rnia Environmental Quality Act (CEQA) Study/Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
2.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?					
	ussion: The project would not include a rese change in the significance of an archaeol	•		cause a	substantial	
3 .	Disturb any human remains, including those interred outside of dedicated cemeteries?					
	ussion : The project would not include an remains.	ny activity	that could	potential	ly disturb	
	NERGY I the project:					
1.	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?					
Discussion : The project is related to ongoing maintenance of the existing transportation system and, therefore, the increased truck trips and asphalt plant operations related to this project would occur regardless of the particular asphalt plant supplying the project. Therefore, the project will not result in wasteful, inefficient, or unnecessary consumption of energy resources. Impacts would not occur.						
2.	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?					
syster projec There	ussion: The project is related to ongoing an and, therefore, the increased truck trips are twould occur regardless of the particular of the project would not conflict with wable energy or energy efficiency.	and asphalt ılar asphalt	plant opera t plant sup	tions relace the plying the	ted to this e project.	

Less than Significant California Environmental Quality Act (CEQA) Potentially Less than with Initial Study/Environmental Checklist Significant Mitigation Significant No Impact Incorporated Impact Impact G. GEOLOGY AND SOILS Would the project: Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: A. Rupture of a known earthquake fault, \boxtimes as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. Strong seismic ground shaking? В. C. Seismic-related ground failure, including liquefaction? D. Landslides? X Discussion (A through D): The asphalt plant is existing, and the increased trucking would occur on an existing truck route. Therefore, the project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving any geologic hazards. 2. Result in substantial soil erosion or the X loss of topsoil? **Discussion**: The project would not result in substantial soil erosion or the loss of topsoil. No impact would occur.

App. No. 191104: Felton Quarry

冈

collapse?

3.

Be located on a geologic unit or soil that is

unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Discussion: The project would not be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project. 4. Be located on expansive soil, as defined X in section 1803.5.3 of the California Building Code (2016), creating substantial direct or indirect risks to life or property? **Discussion**: The project would not be located on expansive soil. No impact would occur. 5. Have soils incapable of adequately X supporting the use of septic tanks, leach fields, or alternative waste water disposal systems where sewers are not available for the disposal of waste water? **Discussion**: The soils at the facility are capable of adequately supporting the use of a septic tank and leach filed currently serving the facility and permitted by Environmental Health. The project would have no impact on the existing septic system. 6. Directly or indirectly destroy a unique X paleontological resource or site of unique geologic feature? **Discussion:** There are no unique paleontological resources or unique geologic features associated with the existing facility. No impact would occur. H. GREENHOUSE GAS EMISSIONS Would the project: Generate greenhouse gas emissions, X either directly or indirectly, that may have a significant impact on the environment?

Discussion: The project is related to ongoing maintenance of the existing transportation system and, therefore, the increased truck trips related to this project would occur regardless of the particular asphalt plant supplying the project or the origin of the truck trips. Given that no new traffic would be generated by the project there is no indication the project would generate additional greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

The project would not be responsible for an incremental increase in greenhouse gas (GHG) emissions by usage of fossil fuels. For a given public roadway paving project the source of the asphalt and the trucking of the asphalt to the job site would involve operation of a nearby asphalt plant and truck transport to the job site. The Felton asphalt plant is the subject of this

Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

application and is operated by Granite Construction Company (Granite). Other asphalt plants operated by Granite are located in Salinas and Santa Clara. For a given paving project where Granite is the contractor the source of the asphalt would be determined by the most economical source in terms of distance from the job site and other limitations such as the current limitation on the number of night operations at the Felton plant. For example, for a public paving project in Santa Cruz County the closest source of asphalt would be the Felton plant because other plants operated by Granite are located further away from any point in the County compared to the Felton plant.

Therefore, the ability of Granite to source asphalt from the asphalt plant closest to any given paving project site is beneficial in terms of greenhouse gas emission produced by trucking operations. For a large paving project where the most efficient source of asphalt is the Felton plant requiring more than the current Felton plant allowance of forty (40) night operations per year, additional asphalt would have to be sourced from a plant further away, increasing greenhouse gas emissions as a result of trucking the asphalt a further distance compared to the Felton plant. This recently occurred in the summer of 2019 during the project to repave Highway 17 in Santa Cruz County. The project was supplied out of the Felton plant for forty (40) nights and an addition ten (10) nights allowed by a one-time exception. The additional night operations required to complete the job were supplied out of the Santa Clara plant which is further away from the job site. Trucking asphalt from a plant further away from the job site resulted in greater greenhouse gas emissions than would have occurred had the entire job been supplied out of the Felton plant. Therefore, increasing the allowed number of night operations out of the Felton plant would reduce greenhouse gas emission related to large paving projects or multiple separate paving jobs cumulatively requiring forty (40) or more night operations per year.

Due to the nature of a typical public road paving project, distance to the job site from the asphalt plant creates another trucking impact that effects greenhouse gas emissions. The asphalt supply needs to be transported to the job site in regular intervals to keep the job progressing without backing up asphalt trucks at the job site where there is typically limited space in the roadway to accommodate waiting trucks. The trucks arrive at regular intervals so that as one truck leaves empty another full truck arrives to keep the paving going without delay. This is important on a public road paving project involving lane closures and equipment mobilization on a given night to maximize progress on the job and minimize disruption of roadway operations for the public. To maintain this regular interval of asphalt supply from a plant closer to the job site would require fewer trucks to maintain a steady supply to the job compared to transporting asphalt from a plant further away which would require more trucks to maintain a steady supply while driving a longer distance to the job site. Therefore, based on the unique nature of a public road paving project, this is another

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

way in which supplying the project from the closest asphalt plant reduces greenhouse gas emissions.

A further consideration is the infrastructure for the production of asphalt at the various plants. The Felton plant is combined with the Felton quarry which produces the aggregate rock used in the production of asphalt. The Granite asphalt plants in Santa Clara and Salinas are not located on quarry sites and aggregate rock must be imported to these plants in order to produce asphalt. The trucking operations represented by the need to import aggregate to these other plants to produce asphalt represents increased greenhouse gas emissions compared to the production of asphalt at the Felton plant which does not require import of aggregate rock. For a given paving project that would be preferentially supplied out of the Felton plant greenhouse gas emissions associated with the production of the asphalt would be less compared to the other Granite asphalt plants.

In conclusion, increasing the number of night operations allowed out of the Felton plant for public paving projects would have the effect of reducing greenhouse gas emissions related to large paving projects or multiple separate paving jobs cumulatively requiring forty (40) or more night operations per year.

2.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
Dis	cussion: See the discussion under H-1 above.	No signi	ficant im	oacts are antic	cipated.
	IAZARDS AND HAZARDOUS MATERIALS Id the project:				
1.	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				

Discussion: The project would not create a significant hazard to the public or the environment. No routine transport or disposal of hazardous materials is proposed. No impacts are anticipated. The mining operation and the asphalt plant involve the use and storage of petroleum products and other fluids commonly associated with operation of the heavy equipment and machinery. The operation has obtained a hazardous materials permit from the County of Santa Cruz Environment Health Department and is subject to at least annual routine inspections by the department to verify safe storage and handling of hazardous materials.

	ornia Environmental Quality Act (CEQA) Study/Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
Discussion: See discussion under I-1 above. No impacts are anticipated.					
3.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
Discussion : The project would not result in hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. No impacts are anticipated.					
4.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
Discussion : The project site is not included on the list of hazardous sites in Santa Cruz County compiled pursuant to Government Code section 65962.5. No impacts are anticipated from project implementation.					
5.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				
<i>Discussion</i> : The project is not located within two miles of a public airport or public use airport. No impact is anticipated.					
6.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
<i>Discussion</i> : The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, no impacts					

Less than Significant California Environmental Quality Act (CEQA) Potentially with Less than Initial Study/Environmental Checklist Significant Mitigation Significant Impact Incorporated **impact** No Impact to an adopted emergency response plan or evacuation plan would occur from project implementation. 7. Expose people or structures, either X directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? **Discussion**: The project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. No impact would occur. J. HYDROLOGY, WATER SUPPLY, AND WATER QUALITY Would the project: 1. Violate any water quality standards or X waste discharge requirements or otherwise substantially degrade surface or ground water quality? Discussion: The project would not discharge runoff either directly or indirectly into a public or private water supply. No impacts are anticipated. 2. Substantially decrease groundwater \boxtimes supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? **Discussion:** The project would not decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin. No impact would occur. 3. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: A. result in substantial erosion or siltation M on- or off-site;

B. substantially increase the rate or

amount of surface runoff in a manner

M

	Environmental Quality Act (CEQA) dy/Environmental Checklist	Potentially Significant Impact	Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
	which would result in flooding on- or offsite;					
C.	create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial					
	additional sources of polluted runoff; or;					
D.	impede or redirect flood flows?					
	sion : The project would not alter the exis would occur.	ting draina	ge pattern o	f the site or	rarea. No	
ris	flood hazard, tsunami, or seiche zones, sk release of pollutants due to project undation?			. 🗆		
	sion: The project is not located in a flood to inundation. No impact would occur.	l hazard, tsı	ınami, or se	iche zone a	and is not	
a	onflict with or obstruct implementation of water quality control plan or sustainable oundwater management plan?					
Discussion : The project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. No impact would occur.						
	D USE AND PLANNING ne project:					
	hysically divide an established ommunity?					
	sion: The project does not include any hed community. No impact would occur.	element t	hat would _J	physically	divide an	
du po pu	ause a significant environmental impact ue to a conflict with any land use plan, plicy, or regulation adopted for the urpose of avoiding or mitigating an avironmental effect?					
J.						

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Discussion: The project would not cause a significant environmental impact due to a conflict with any land use plan, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect. No impacts are anticipated.

The project was analyzed with respect to General Plan policies of the County of Santa Cruz and the City of Santa Cruz because the trucking route travels through the city where the majority of the residential uses exist along the trucking route. Policy considerations related to air quality, noise, and transportation are the same in the City's and the County's General Plans. The policy basis for the impact analysis contains the same thresholds of significance in each of these areas. See the sections on air quality, noise and transportation for these analyses.

	IINERAL RESOURCES Id the project:				
1.		e loss of availability of a known			
perr	nitted mining operation produces a mineral	railability of a known			
2 .	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? Viscussion: The existing asphalt plant is located on the site of an existing quarry. The exmitted mining operation produces a mineral resource of value to the region and residents of the state. No impact is anticipated from project implementation. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? Viscussion: The existing mining operation and the on-site asphalt plant utilized a locally-important mineral resource delineated in the General Plan. No impact would occur as a result of the project. NOISE NOISE Sould the project result in:				
the region and the residents of the state? Discussion: The existing asphalt plant is located on the site of an existing quarry. The permitted mining operation produces a mineral resource of value to the region and resident of the state. No impact is anticipated from project implementation. 2. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? Discussion: The existing mining operation and the on-site asphalt plant utilized a locall important mineral resource delineated in the General Plan. No impact would occur as a result of the project. M. NOISE Nould the project result in: 1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or	-				
1.	permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or				
	- · · · · · · · · · · · · · · · · · · ·		_	_	_

Less than Significant Impact

No Impact

operation of the asphalt plant is monitored on a regular basis, and a long history of compliance has been established as documented by the monitoring results.

The Santa Cruz County General Plan Land Use Compatibility Chart for Exterior Community Noise (General Plan Figure 9-2) identifies a "normally acceptable" exterior noise exposure compatibility level of 60 dBA LDN (Day-Night Level). County Mining Regulations Section 16.54.050 sets a maximum noise level measured at property boundaries of no greater than 60 dBA for a cumulative period of 15 minutes during any hour of operation (L25). Condition of Approval II.H.9 of the mining permit requires the operator to submit a noise monitoring report every third year to determine compliance with noise standards. Noise monitoring at the quarry by the quarry's acoustical consultant indicates that noise levels during normal quarry operations and off-hours operations of the asphalt plant at the property line and at the nearest residence are in compliance with both standards listed above (60dBA LDN and 60dBA L25). Provided the mining operation continues to meet these standards on a daily and hourly basis the noise standards place no limit on the number of days the asphalt plant may operate at night. Therefore, increasing the number of allowed night operations of the asphalt plant would not result in a significant impact relative to noise generation.

Noise policies in the Santa Cruz County General Plan have been located in the Public Safety Element but were recently amended and moved to a new stand-alone Noise Element in Chapter 9. The introduction to the new Chapter explains the County has no direct control over noise produced by trucks, cars and trains because state and federal regulations preempt local laws. Given that the County cannot control transportation noise at the sources, County policies focus on reducing the impact of transportation noise along freeways, arterial roadways and rail corridors.

A series of policies address the exposure of new development to existing noise sources, such as transportation noise along a truck route. Sound insulating features would be required in the new development to mitigate existing excessive noise levels such as setback, site and floor plan design, and special sound insulating construction.

There is a series of policies that address the exposure of existing development defined as a sensitive receptor such as an existing house to new sources of noise from new commercial or industrial development on nearby property. The policies focus on stationary noise sources on the site of the new development, but also address transportation projects. This project is not a transportation project because it does not involve the construction or modification of a roadway. The project would involve increased truck traffic on an existing roadway system utilizing a designated truck route. The project is a request to allow additional trucking at night to supply asphalt to road paving projects. While the County has no direct control over truck noise, there is policy language addressing how to determine if a new activity would represent a significant degradation of the existing noise environment.

Less than Significant Impact

No Impact

Objective 9-2 of the General Plan is to minimize exposure of existing noise-sensitive land uses and receptors to excessive, unsafe, or disruptive noise that may be generated by new land uses and development projects.

Policy 9.2.2 requires site-design and noise reduction measures for any project, including transportation projects, that would cause significant degradation of the noise environment due to project effects that could:

- (a) Increase the noise level at existing noise-sensitive receptors or areas by 5 dB or more, where the post-project CNEL or DNL will remain equal to or below 60 dB;
- (b) Increase the noise level at existing noise-sensitive receptors or areas by 3 dB or more, where the post-project CNEL or DNL would exceed 60 dB;

Policy 9.2.2 further states that the policy shall not be interpreted in a manner that would limit the ability of the County to require noise-related mitigation measures or conditions of approval for projects that may generate lesser increases than the above. Special consideration may also be applied to special events or activities subject to permit requirements, or to land use development permits for uses and activities exempted from County noise control regulations.

This policy provides a standard by which to measure the impact of additional truck traffic on the existing noise environment and provides the authority to require noise related mitigation measures for any increase in noise levels as a result of the project activity.

The noise environment along Bay Street was studied in 2000 as part of a previous request for additional night operations. At that time the quarry operator was requesting 20 additional night operations. The study by Consultants in Engineering Acoustics recorded noise levels in the front yard of a residence at the corner of Bay Street and Escalona Drive. The noise monitoring equipment was set up to record the noise environment for 24 hours on each of three days. Two of the days included night operations truck traffic from the quarry and one of the days did not. The results show that the trucks associated with the night operations of the asphalt plant did not exceed the noise limit specified at that time in the Motor Vehicle Code (86 dBA at 50 feet). The results also indicate that the night trucking caused an increase in average noise levels from the average noise level without night trucking of LDN of 62.7 dBA to an average noise level with night trucking of LDN of 64.5 dBA. The increase in average noise levels of 1.8 dBA is not considered significant and did not exceed the level in County General Plan Policy 9.2.2 of 3 dBA. Although this study was conducted in 2000, it is still considered valid because noise measurement techniques and equipment have not changed and ongoing periodic speed and noise monitoring of nighttime trucking operations to the present time, as required by the quarry permit, continues to show data consistent with the data collected for the 2000 study.

Less than Significant Impact

No Impact

As noted in the detailed project description, during off-hours operations the quarry monitors speed and decibel levels of trucks along the truck route and submits the data to the Planning Department. During the most recent off-hours operation in 2019 Planning Department staff requested speed and noise monitoring by a qualified third-party acoustical consultant for quality control. Comparing noise data is complicated by the location of the sound level meter and the distance to the source. However, the third-party data is generally consistent with historic quarry data in terms of the sound level of trucks. Comparing the data from the acoustical consultant in 2000 to the data from the acoustical consultant in 2019 by correcting for distance of the sound level meter from the source does show a potential trend, however. Average maximum truck sound level appears to be reduced by approximately one decibel for trucks traveling downhill and by approximately five decibels for trucks traveling uphill. A difference of one decibel is generally not noticeable, but a difference of five decibels is generally noticeable as a reduction in sound level. Residents can still hear and count the trucks and the five-decibel reduction may not be as noticeable over a long period of time between 2000 and 2019, but it appears to be a real reduction in sound level. A possible explanation for the trend shown in the consultant data may be a gradual evolution of the truck fleet to include more modern trucks, and truck engine upgrades mandated by state law to improve air quality.

The Noise Element contains a series of policies to reduce the effects of noise generated by transportation projects. The policies suggest ways to minimize ground transportation related noise impacts including speed limits, road surfacing and maintenance, and a policy to continue to consider noise concerns in evaluating all proposed development decisions related to roadway and other transportation projects. The existing permit for the quarry and asphalt plant contains conditions of approval requiring the quarry to maintain an ongoing trucker education program to, among other requirements, obey posted speed limits and prohibits the use of loud engine brakes, known as "jake breaks".

While the noise standards use average noise levels over a 24-hour period, residents can hear the noise from individual trucks. The quarry use permit contains a condition of approval that attempts to gauge the community's response to noise based on complaints. The volume of complaints would be used to gauge the significance of the community response along with consideration of the speed and noise monitoring data from the night operations. The condition of approval indicates that widespread complaints would be grounds for not granting approval for further night operations. The community response to noise chart referenced in the condition of approval indicates that widespread complaints would be associated with a project sound level that exceeds the ambient or background sound level by a certain amount. The acoustical study has already demonstrated that the change in average sound level as a result of truck traffic during a night operation do not increase average

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

sound levels by a significant amount. Furthermore, the number of complaints received during the longest duration night operations is not considered to be widespread.

The City of Santa Cruz General Plan 2030 includes the following policy regarding truck traffic:

Policy M3.3 Discourage, reduce, and slow through-traffic and trucks on neighborhood streets.

According to the EIR for the City's General Plan 2030:

"The City's road system consists of arterial highways and arterial, collector and local streets. These different classifications relate to different transportation functions and are classified in terms of access, mobility, design and use. Additionally, visitor/coastal access and truck routes have been designated to facilitate the movement of visitor traffic and commodities. Highways and arterial streets carry the City's heaviest traffic flows and provide regional and inter-community access." Bay Street and Empire Grade west of Bay are designated as arterial streets.

Truck routes are intended to channel trucks through the community and away from residential and other areas where they would be a nuisance. The truck routes in the City are Highway 1 – Mission Street, Highway 17, Bay Street north of Mission, Empire Grade west of Bay, Highway 9, Morrissey Boulevard, and Soquel Avenue.

Therefore, it is expected that Bay Street will carry significant amount of truck traffic to facilitate commodities movement and protect other local streets from excessive truck traffic.

2.	Generation of excessive groundborne vibration or groundborne noise levels?				
do l	hear the sound of and vibration from individucking does not exceed established thresholds appliance with existing permit conditions.	al trucks. H	owever, th	e analysis s	hows the
3.	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public				
	airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				

and the second			
Calling	s Epvironmo	ala Cuella	ı Acı (CEQA,
Initial Stu			

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Discussion: The project is not in the vicinity of a private airstrip or within two miles of a public airport. Therefore, the project would not expose people residing or working in the project area. No impact is anticipated.

proj	ect area. No impact is antici	pated.				
	OPULATION AND HOUSI d the project:	NG				
1.	Induce substantial unplant growth in an area, either d example, by proposing new businesses) or indirectly (f through extension of roads infrastructure)?	irectly (for w homes and or example,				
projeto or ex scale fami	ect does not propose any pher encourage population grow extended infrastructure or pure residential development; ally use; or regulatory characteristics. No impact would occur	ysical or regulator with in the area income blic facilities; new accelerated conver nges including Grions, sewer or w	y change the cluding, but commercion of he ceneral Pla	hat would restricted to all or industricted to comes to come amendm	emove a re the following rial facilities mmercial of ents, speci	striction ing: new es; large- r multi- fic plan
2.	Displace substantial numb people or housing, necess construction of replacement elsewhere?	itating the				
Dis	cussion: The project would	d not displace any	existing ho	using. No i	mpact wou	ld occur.
	UBLIC SERVICES Id the project:					
1.	Would the project result in the provision of new or phy physically altered governm significant environmental in response times, or other pe	vsically altered governtal facilities, the mpacts, in order to	/ernmental e constructi e maintain a	facilities, n on of which acceptable	eed for nev could caus service rati	v or se os,
	a. Fire protection?					\boxtimes
•	b. Police protection?					\boxtimes
	c. Schools?					\boxtimes

	ornia Environmental Quality Act (CEQA) I Study/Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	d. Parks?				
	e. Other public facilities; including the maintenance of roads?				
	cussion (a through e): The project woul es, or other performance objectives for any ar.		-		
	ECREATION Id the project:				
1.	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
	cussion: The project would not increase the sor other recreational facilities. No impact			oorhood ar	nd regional
2.	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				
	cussion: The project does not propose the tional recreational facilities. No impact wou		n or require	the cons	truction of
	RANSPORTATION d the project:				
1.	Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				
route	cussion: This analysis will focus on the pro e through the City of Santa Cruz. This is ing signalized intersections, which are all lo	because th	ne policy co		
	erms of traffic congestion the City of Santa Cowing information regarding intersection fur		l Plan 2030	EIR provid	les the
	e City of Santa Cruz considers "D" or better t ice for intersections, which is a policy in the		· -		
		•			

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

X

the proposed General Plan. A significant impact would result if LOS dropped below a "D" level of service or where a project would contribute traffic increases of more than 3% at intersections currently operating at unacceptable levels (E or F), as further described below. The existing and proposed General Plans also account for accepting a LOS below "D" at major regional intersections where improvements would be prohibitively costly or result in significant, unacceptable environmental impacts. There are no other adopted plans, ordinances or policies that establish "measures of effectiveness" for the performance of the circulation system."

According to the EIR, the signalized intersections along the truck route all operate at acceptable levels of service during peak traffic hours and would continue to operate at acceptable levels of service with the build-out assumptions in the General Plan 2030. The off-hours increase in truck traffic would occur during non-peak hours. Therefore, it can be reasonably concluded the increased truck traffic would not cause impacts to LOS at any intersections along the truck route.

2.	Would the project conflict or be	Γ
	inconsistent with CEQA Guidelines	L
	section 15064.3, subdivision (b)(1)	
	(Vehicle Miles Traveled)?	

Discussion: In response to the passage of Senate Bill 743 in 2013 and other climate change strategies, the Governor's Office of Planning and Research (OPR) amended the CEQA Guidelines to replace LOS with vehicle miles traveled (VMT) as the measurement for traffic impacts. The "Technical Advisory on Evaluating Transportation Impacts in CEQA," prepared by OPR (2018) provides recommended thresholds and methodologies for assessing impacts of new developments on VMT. Tying significance thresholds to the State's GHG reduction goals, the guidance recommends a threshold reduction of 15% under current average VMT levels for residential projects (per capita) and office projects (per employee), and a tour-based reduction from current trips for retail projects. Based on the latest estimates compiled from the Highway Performance Monitoring System, the average daily VMT in Santa Cruz County is 18.3 miles per capita (Department of Finance [DOF] 2018; Caltrans 2018). The guidelines also recommend a screening threshold for residential and office projects—trip generation under 110 trips per day is generally considered a less-than-significant impact.

The project is related to ongoing maintenance of the existing transportation system and, therefore, the increased truck trips related to this project would occur regardless of the location of the particular asphalt plant supplying the project or the origin of the truck trips. Given that no new traffic would be generated by the project there is no indication the project would conflict with or be inconsistent with CEQA Guidelines related to VMT. No impact would occur.

	omia Environmental Quality Act (CEQA) Study/Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
3.	Substantially increase hazards de geometric design feature (e.g., sl curves or dangerous intersection incompatible uses (e.g., farm equ	narp S) or			
alon occu occu	g an existing truck route. Nighttir urring at night when traffic congest	ne trucking activity ion is less and to su	is intended pply public l	to reduce l nighway pr	hazards by ojects that
4.	Result in inadequate emergency	access?			\boxtimes
Disc	cussion: The project would have	no impact on emerg	ency access.		
1.	cultural resource, defined in Publi feature, place, cultural landscape and scope of the landscape, sacra	Potentially Significant Mitigation Significant Impact No			
	A. Listed or eligible for listing in California Register of Historia Resources, or in a local register of historical resources.	the cal ster of		Value to a	
	A. Listed or eligible for listing in California Register of Historic	the cal ster of ction		value to a	\boxtimes

App. No. 191104: Felton Quarry

	la Environmental Quality Act (CEQA) udy/Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
.	LITIES AND SERVICE SYSTEMS the project:				
c v a te	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water frainage, electric power, natural gas, or elecommunications facilities, the construction or relocation of which could cause significant environmental effects?				
new o	ssion: The project would not require or rexpanded water, wastewater treatment l gas, or telecommunications facilities. No in	or storm w	ater draina		
s fo	Have sufficient water supplies available to serve the project and reasonably preseeable future development during normal, dry and multiple dry years?				
permit	ssion : The existing facility has sufficiented mining operation and hydrogeologic means current water supply conditions. The page 1.	onitoring is	performed	on a regula	ır basis to
ti s c	Result in determination by the wastewater reatment provider which serves or may serve the project that it has adequate apacity to serve the project's projected lemand in addition to the provider's existing commitments?				
	ssion : The project is not served by a washave no impact on wastewater treatment ca		eatment pr	ovider. Th	e project
lo C O	Generate solid waste in excess of state or ocal standards, or in excess of the apacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
or in ex	ssion : The project would not generate solic excess of the capacity of local infrastructure, or reduction goals. No impact would occur.		*		

California Environmental C Initial Study/Environmental		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
management ar	leral, state, and local nd reduction statutes and ted to solid waste?				\boxtimes
-	roject would comply with solid waste disposal. No in			d local st	atutes and
T. WILDFIRE If located in or near sta	ate responsibility areas or l the project:	ands classi	ified as very	high fire h	nazard
Substantially im emergency resp evacuation plan	onse plan or emergency				\boxtimes
Discussion: The property Therefore, no impact	roject will not conflict wit would occur.	h emergen	cy response	or evacua	tion plans.
factors, exacerb thereby expose pollutant concer	revailing winds, and other pate wildfire risks, and project occupants to, attractions from a wildfire or spread of a wildfire?				
Discussion: The p	roject would not exacerbat	e wildfire r	isks. No im	pact would	d occur.
associated infra fuel breaks, emo power lines or o exacerbate fire i	allation or maintenance of structure (such as roads, ergency water sources, ther utilities) that may risk or that may result in going impacts to the				
-	oject does not require the in	stallation a	ny new infr	astructure.	No impact
would occur.					
risks, including of flooding or lands	or structures to significant downslope or downstream slides, as a result of slope instability, or es?				
	oject would not exacerbate ream impacts as a result of		sk, therefore	e, would n	ot result in

California Environmental Quality Act (CE) Initial Study/Environmental Checklist	24)	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
U. MANDATORY FINDINGS Of a Does the project have a fish or wildlife propulation self-sustaining levels, threat eliminate a plant or animal substantially reduce the nutthe range of a rare or endar animal community or eliminal examples of the major periods.	potential to uality of the reduce the pecies, cause to drop below ten to community, mber or restrict ngered plant or ate important)			
California history or prehistory. Discussion: The potential to substantially reduce the habitat or to drop below self-sustaining less substantially reduce the number or eliminate important examples considered in the response to each As a result of this evaluation, there with this project would result. The Mandatory Finding of Significance.	substantially of a fish or wildlife vels, threaten to or restrict the rate of the major perion in Security is no substantial herefore, this property is substantial.	e species, ca eliminate nge of a rare ods of Califo ction III (A l evidence t	use a fish or a plant or e or endange ornia history through T) hat significa	wildlife po animal cor ered plant o y or prehist of this Init	opulation nmunity, or animal cory were ial Study. associated
2. Does the project have impaindividually limited, but currensiderable? ("cumulative considerable" means that the effects of a project are considerable in connection with the past projects, the effects of projects, and the effects of projects)?	ulatively ly ne incremental siderable when he effects of other current				
Discussion: In addition to project potential for incremental effects evaluation, there were determined associated with this project. The Mandatory Finding of Significance	that are cumu ned to be no erefore, this pro	latively con potentially	siderable. significant	As a resucumulativ	lt of this re effects
3. Does the project have envir effects which will cause sub adverse effects on human be directly or indirectly?	stantial				

Less than Significant Impact

No Impact

Discussion: In the evaluation of environmental impacts in this Initial Study, the potential for adverse direct or indirect impacts to human beings were considered in the response to specific questions in Section III (A through T). As a result of this evaluation, no potentially adverse effects to human beings associated with this project were identified. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

IV. REFERENCES USED IN THE COMPLETION OF THIS INITIAL STUDY

California Department of Fish and Wildlife, 2019

California Natural Diversity Database Felton USGS 7.5-minute quadrangle; queried 1/6/20.

CalFIRE, 2010

Santa Cruz County-San Mateo County Community Wildfire Protection Plan. May 2010.

City of Santa Cruz, 2012a

General Plan 2030 for the City of Santa Cruz, California. Adopted by the City Council in June 2012.

City of Santa Cruz, 2012b

Environmental Impact Report for the City of Santa Cruz General Plan 2030. Adopted by the City Council in June 2012.

Consultants in Engineering Acoustics, 2000

Noise at Two Residences Associated with Asphalt Plant Operation and Trucks during Nighttime Paving. August 31, 2000. (Attached)

County of Santa Cruz, 1994

1994 General Plan and Local Coastal Program for the County of Santa Cruz, California, as amended. Adopted by the Board of Supervisors on May 24, 1994 and certified by the California Coastal Commission on December 15, 1994.

County of Santa Cruz, 2013

County of Santa Cruz Climate Action Strategy. Approved by the Board of Supervisors on February 26, 2013.

County of Santa Cruz, 2015

County of Santa Cruz Local Hazard Mitigation Plan 2015-2020. Prepared by the County of Santa Cruz Office of Emergency Services.

Environmental Consulting Services, 2019

Monitoring of Speed and Noise of Vehicles Using Empire Grade in Santa Cruz During Evening Haul Periods. June 11, 2019. (Attached)

FEMA, 2012

Flood Insurance Rate Map Panel 0211 Federal Emergency Management Agency. Effective on May 6, 2012.

MBARD, 2008

Monterey Bay Air Resources District (MBARD), CEQA Air Quality Guidelines. Prepared by the MBARD, Adopted October 1995, Revised: February 1997, August 1998, December 1999, September 2000, September 2002, June 2004 and February 2008.

MBARD, 2017

MBARD Air Quality Management Plan, Triennial Plan Revision 2012-2015. Adopted March 15, 2015.

OPR, 2018

"Technical Advisory on Evaluating Transportation Impacts in CEQA." Available online at http://www.opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

consultants in engineering acoustics

Analysis and Planning for Vibration and Noise Control Thomas R. Norris, P.E.,

Jerome S. Lukas, Ph.D., and Associates

August 31, 2000

Mr. Mike Ray Plants Manager Granite Construction Company P.O. Box 720 Watsonville, CA 95077-0720

Subject: Noise at Two Residences Associated with Asphalt Plant Operations and Trucks during Nighttime Paving

Dear Mr. Ray:

Nighttime paving operations between 8:00 PM and 3:00 AM were scheduled on Monday through Thursday during the four weeks of August 2000, beginning August 7. Nighttime paving did not occur on Fridays. Consultants in Engineering Acoustics ("CIEA") measured noise levels near two residences for three days beginning on Wednesday, August 9, 2000 to ascertain whether noise from the asphalt plant and trucks complied with Santa Cruz County Noise Standards.

Three major sections comprise this report. The first is a summary, details are provided in the second, and two recommendations are made in the third.

Summary

The County's Noise Standard (Reference 1) for homes affected by truck noise is $L_{dn} = 60^{-1}$ The criterion noise level is $L_{25} = 50$ dBA² at homes affected directly by nighttime noise from asphalt plant operations (Reference 2).

Noise levels near the residence at the intersection of Escalona Drive and Bay Street affected by nighttime truck operations exceeded the County's criterion ($L_{dn} = 60$) whether or not Granite Construction's trucks were operating. The average level was $L_{dn} = 64.5$ for

 $^{^{1}}$ L_{dn} , or average day/night sound level, is a calculated description of sound over a 24-hour period, which takes account of the fact that sounds are more annoying at night (10:00 PM to 7:00 AM) than during the day (7:00 AM to 10:00 PM). It is calculated by determining the L_{eq} , or equivalent sound level, over a 24-hour period after adding 10 dBA to the sound levels occurring in the period between 10:00 PM and 7:00 AM. For reference, a sound that occurs over a 24-hour period and has an L_{eq} = 43 dBA would be equivalent to $L_{dn} \approx 50$ dBA.

² dBA, or decibel A-weighted, refers to the electronic technique by which the response of the sound level meter simulates the relative response of the human auditory system to the different frequencies comprising a sound or noise. L₂₅ is the noise level exceeded 25 percent of the time during any hour, or 15 minutes in any hour, according to the Mining Code, Section 16.54.06(d)1 (Reference 3).

the two days when Granite's trucks operated and $L_{dn} = 62.7$ on Friday when Granite's trucks were not operating. Generally heavy traffic on both Bay and Escalona accounts for the noise levels exceeding the County's standard, although the noise level was reduced about 1.8 dB when Granite's trucks did not operate at night.

A noise reduction of 1.8 dB is neither dramatic nor considered significant, even though residents along Bay Street can easily hear the trucks passing by. A difference of at least 3 dB and, more typically, a difference of 5 dB is necessary for people to reliably detect and comment upon a change in the average environmental noise level (Reference 4).

The average hourly noise level (Leq³) was about 44.5 dBA at the Simpson residence (260 Bonnywood Way) during the nighttime hours when the asphalt plant could be operating (8:00 PM to 3:00 AM) and 36.0 dBA on Friday night when the asphalt plant was inoperative. This is a significant difference. However, the noise level (44.7 dBA) when the asphalt plant was in full operation is also significantly less than the County's criterion of 50 dBA (Reference 2). It is concluded, therefore, that although asphalt plant noise is clearly audible at the Simpson residence, its loudness is well below the County's criterion of acceptability.

Under the usual operating conditions, that is, when the asphalt plant is not operating at night, the noise level limit is $L_{dn} = 60$ dBA at the Simpson/Granite Construction property line (Reference 5). The measured level when the asphalt plant was inoperative at night was $L_{dn} = 47$ dB, which is very nearly the same as the $L_{dn} = 48$ dB measured in 1998 (Reference 6). With the asphalt plant operative, the $L_{dn} = 53$ dB averaged over the two nights. Thus, under both conditions the noise level at approximately the eastern property line is in compliance with the County's Noise Limit.

Study Details and Results

Details

Magnetic tape recordings of noise occurred in the front yard of the Carlyle-Bodge residence at 1106 Escalona Drive(at Bay Street) and on the rear deck of the Simpson residence at 260 Bonnywood Way, which overlooks Granite Construction's Felton Quarry. The microphones (attached to tripods) were placed at an elevation of five to six feet above ground and at a location with unimpeded acoustical views of traffic on Bay

C

 $^{^3}$ L_{eq}, or the equivalent level, is the sound level of a continuous, or steady, sound that contains the same sound energy as the actual tone varying sound over a specified time period (one hour in the present case). According to References 2 and 3, the criterion noise level is L₂₅ = 50 dBA. L₂₅ is the noise level exceeded 25 percent of the time. This level is only about 0.5 dB louder than the L_{eq} and, as a result, CIEA did not modify its computer program to produce both the L_{eq} and L₂₅ metrics.

The sound recording system⁴ was calibrated and set to record samples of the noise environment on magnetic tape over a period of about 24 hours on each of three days. Nighttime asphalt plant operations occurred on only two nights. Each sample had a duration of seven seconds and a sample was obtained every four minutes throughout the recording period. The sampling period (every four minutes) was selected to best catch the movements of the asphalt-carrying trucks, which were estimated to occur once every six minutes. The tape recordings began at approximately 2:00 PM on Wednesday, August 9, 2000 and ended at roughly 11:00 AM on Saturday, August 12, 2000. The recorded noise was analyzed in CIEA's acoustic laboratory using a special-purpose computer program.

Results

At Escalona Drive and Bay Street

Tables 1A, 1B, and 1C show the distributions of hourly noise levels and the most prominent sources contributing most to those noise levels. It should be noted that the major source of noise is traffic at the Escalona and Bay intersection. (See the Prominent Noise Sources column.) My observations indicated that most of this traffic was on Bay Street, but a significantly large component used Escalona Drive to and from Bayona Drive to reach homes on the hill above Escalona Drive. Escalona and Bay is a very busy intersection with a large number of trucks passing by. These daytime trucks were operating at a construction site at the University of California at Santa Cruz.

Table 2 provides counts of the number of trucks and buses on Bay Street passing Escalona Drive at different times and dates. It is immediately apparent that non-Granite trucks were operating almost exclusively during the daytime whereas Granite Construction's trucks operated primarily at night. For example, on August 10 between 11:15 AM and 12:15 PM only three Granite Construction trucks passed by on Bay while 21 trucks from organizations other than Granite Construction passed by. In contrast, during the two-hour nighttime period (beginning at 9:30 PM) on the same date, 33 of Granite Construction's trucks passed by on Bay Street while only one non-Granite truck passed by.

Table 3 shows the maximum noise levels from the various heavy vehicles passing by on Bay Street. It can be seen that, on average, Granite Construction's trucks are quieter than non-Granite trucks, but the differences are 2 dB or less, which is generally not detectable by the average listener. These trucks and the buses did not exceed the noise limit (86 dBA at 50 feet) specified in Section 23130(a) of California's Motor Vehicle Code.

The noise levels shown in the L_{eq} columns of Tables 1A, 1B, and 1C were used to calculate the L_{dn} noise levels at the Bay Street/Escalona Drive intersection, as shown in

⁴ The system consisted of a Quest model 215R sound level meter, a Sony TDC5M cassette tape recorder, and a Sharp model PD 1500 (A) pocket computer controller. It is self-contained and battery-operated.

Table 4. The noise limit at the property line of residences along Bay Street is $L_{dn} = 60 \text{ dB}$. The data provided in Table 4 show that this limit was exceeded whether or not Granite Construction's trucks were operating on Bay Street between about 8:00 PM and about 3:00 AM. Truck operations are necessary at this time to supply asphalt for paving operations that must occur at night so as not to affect normally heavy daytime traffic. Relatively high volumes of traffic on Bay Street and Escalona Drive is the reason that the Ladinger and the County's limit, whether or not Granite Construction's trucks were operating. Note, for example, in Tables 1A, 1B, and 1C that the hourly average noise levels (the L_{eq} column) typically are in the low-60-dBA range throughout the daytime hours (say, 7:00 AM to 8:00 PM, or 0700 to 2000 hours) when Granite Construction's trucks were not present. These daytime noise levels have a major influence on the L_{dn} .

It should also be pointed out that the maximum 2.3-dB difference between the L_{dn}'s with and without Granite Construction's trucks operating at night typically is not detectable by the average listener, although the listener is able to hear and count those trucks. However, as shown in Table 4, the aggregate community response is expected to be an increase of between 1.7 and 3.1 percent in numbers of people reporting high annoyance with the nighttime asphalt truck traffic. In other words, about 15.6 percent of people on Bay Street near this intersection, if asked, are expected to express a high degree of annoyance with the noise environment due to traffic on Bay Street and Escalona Drive. With the addition of Granite Construction's truck traffic, up to about 18.7 percent would express a high degree of annoyance with the noise. This is not considered a large or significant change, since it probably is well within the normal range of measurement variability of annoyance surveys.

At the Simpson Residence

Tables 5A, 5B, and 5C show the distribution of noise levels at the rear deck of the Simpson residence. This deck overlooks Granite Construction's Felton Quarry, which contains the asphalt plant. The L_{eq}'s do not clearly reflect (increase) startup of the asphalt plant, which occurred during the 1800 hour (6:00 PM) on August 9 and 10, although asphalt plant noise is clearly audible on the tape recordings. This is the result of the relatively high ambient noise levels from the quarry, traffic on Empire Grade, and other environmental noise sources. However, early in the morning these miscellaneous noise sources are absent and shutdown for the asphalt plant shows up clearly in the L_{eq}'s.

For example, in Table 5A it can be seen that L_{eq}'s between 1800 hours (6:00 PM) and 0100 hours (1:00 AM) were in the high-40-dBA range. During the 0200 hour (2:00 AM) hour, when the asphalt plant shut down at about 0208 hours (see the Prominent Noise Sources column), the L_{eq} was reduced to 37.9 dBA, and during the following hour (0300)

⁵ Quarry sounds are clearly audible at the Simpson residence but the associated operations cannot be seen because of numerous tall evergreens at and beyond the Simpson property line, which is approximately 100 feet downhill from the measurement location.

the L_{eq} was down to 29.6 dBA. (Note also the changes in the L_{99} column.) Similar changes can be seen in Table 5B. The asphalt plant was inoperative during the time periods shown in Table 5C and the changes in hourly noise levels are due to other sources.

In all three tables, the increase in hourly noise levels with startup of the quarry at about 0600 hours (6:00 AM) is apparent. For example, on August 10 in Table 5A, the ambient, or background, noise level was 33.3 dBA at 0500 hours (5:00 AM), but it increased to 43.1 dBA with the beginning of quarry operations during the 0600 hour. Similar changes can be seen in Tables 5B and 5C.

Table 6 shows the noise levels between 8:00 PM and 3:00 AM at the rear deck of the Simpson residence with and without asphalt plant operations. Clearly, asphalt plant noise was audible and measurable at this location. The increase of about 8 dBA in noise level with asphalt plant operations is significant. However, the noise level limit specified by the County (Reference 2) is 50 dBA and an average level of 44.5 dBA with asphalt operations is significantly less.

Table 7 shows the L_{dn} 's near Granite Construction's eastern property line with and without asphalt plant operations. Santa Cruz County has specified (Reference 5) a limit of $L_{dn} = 60 \text{ dBA}$ at the property line for quarry operating noises. Table 7 shows that the noise level was $L_{dn} = 53.0 \text{ dB}$ under the worst operating condition when the asphalt plant was operating, a level significantly less than the limit. When the asphalt plant is inoperative at night, the L_{dn} is 13 dB lower than the limit.

Recommendations

Granite Construction should investigate techniques to (1) reduce and control asphalt plant and to (2) reduce and control noise from the main crusher.

Please call with questions about the preceding.

Sincerely,

Juan D. Lubas (JKK)

Jerome S. Lukas, Ph.D. EXHIBIT C •

References

- County of Santa Cruz, Noise Element, Section 3.6 of the General Plan (revised January 1985); see Table 3-1, "Land Use Compatibility Chart for Exterior Community Noise."
- 2. Letter dated October 29, 1992 from Kim Tschantz to Mike Ray; subject: Environmental Review of Application 91-0364.
- 3. County of Santa Cruz, Mining Ordinance, Ordinance Amending Chapter 15.54; see Section 16.54.060.(d)1, "Noise and Vibration."
- 4. International Organization for Standardization, ISO Recommendation R1996, "Assessment of Noise with Respect to Community Response," 1st edition, May 1971.
- 5. County of Santa Cruz, Planned Quarry Permit 74-633-PD, Section III.A.1, Operating Requirements, Noise and Vibration.
- 6. Letter dated November 6, 1998 from Jerome Lukas to Eric Gaboury; subject: Annual Report on Noise from the Felton Quarry.
- 7. S. Fidell and D.M. Green, "Noise-Induced Annoyance of Individuals and Communities" in C.M. Harris, ed., *Handbook of Acoustical Measurements and Noise Control*, 3rd edition, New York, McGraw Hill Inc., 1991, Chapter 23.

Enclosures: Tables 1 through 7

EXHIBIT C .

JSL:jkk GRN-0829.MR

Table 2

Number of Passbys at Bay Street and Escalona Drive
by Selected Vehicles

					Vehic	cle Type		
Time		Time Granite Trucks		Non-Granite Trucks		Buses		
Date	From	То	Uphill	Downhill	Uphill	Downhill	Uphill	Downhill
8/09/00	8:20 PM	9:00 PM	9	5	0	0	4	4
8/09/00	9:00 PM	10:00 PM	7	- 11	0	0	4	4
8/09/00	10:00 PM	11:00 PM	11	4	0	0	1	3
8/10/00	11:15 AM	12:15 PM	1	2	10	11	4	3
8/10/00	9:30 PM	11:30 PM	14	19	0	1	5	6

Table 3

Average Maximum Noise Levels of Trucks and Buses on Bay Street at Escalona Drive as a Function of Direction of Travel on Bay Street

	Direction ¹							
Vehicle Type	Uphill	Number	Downhill	Number				
Granite Construction	74.7 dBA	12	74.2 dBA	15				
Other than Granite Construction	76.9	10	76.2	11				
Buses	77.1	6	69.8	3				

Vehicles traveling uphill were about 80 feet from the microphone, while vehicles traveling downhill were about 50 feet from the microphone. State law prohibits a noise level in excess of 86 dBA at 50 feet by heavy trucks traveling under the speed and grade conditions of Bay Street.

TABLE 1A

DISTRIBUTION OF NOISE LEVELS near the NORTHWEST CORNER OF BAY ST. and
LIUS ESCALONA DR. (THE CARLYLE-BODGE RESIDENCE) BEGINNING ON WEDNESDAY, AUGUST 9, 2000

41TH NISHT PAVING

DAY/ DATE	HOUR BEGINNING AT	Leq	<u>L01</u>	<u>L10</u> '	L50	L90	<u> </u>	PROMINENT NOISE SOURCES
WED., 8/9	1400	62.4	72.9	65.4	59.7	49.2	47.1	traffic with trucks
	1500	59.8	67	63.å	57	47.7	45.5	traffic
	1600	61.7	70.2	65.6	59.2	52	44.7	traffic
	1700	63.9	73.3	67.4	60	51.8	48	#traffic with trucks
	1800	62.3	68.4	65.7	61	52.8	48.8	traffic
	1700	64.5	77.1	64.6	56.4	47.6	45.4	motorcycle, traffic
	2000	59.8	67.1	64.4	58.8	49.8	43.7	traffic
	2100	58.6	67.4	64.2	52.4	42.6	40.7	traffic with trucks
	2200	60.7	72.4	64.4	50.7	40	38.7	airolane, traffic with trucks
	2300	59.4	67.5	63.6	55.3	37.9	36.7	traffic
THUR.,	2400	61.9	70.1	48.4	45.3	40	39.3	trucks, lite traffic, distant police sirens
8/10	100	43.5	53.2	45.8	40.5	38.5	36.6	lite traffic, 1 truck
	200	45.6	59.2	41.9	38.6	37.5	36.4	lite traffic
	200	53	67.1	54.1	38.3	37.6	37.4	3 truck smpls
(400	45.2	59.2	40.7	38.3	37.7	37.4	1 auto
	500 (35.6	65.8	62	39.9	38.5	38.1	traffic begins
	600	60.5	69.5	55	51.7	40.8	40.3	2 or 3 trucks + other traffic
	700	63.4	72.4	68.6	57	49.1	44.5	3 trucks & other traffic
	800	61.2	69.3	65.2	58.3	50.1	42.4	2 trucks & traffic
	900	61.5	71.7	64	56.5	45.8	43.9	truck and traffic
	1000	61.2	70.1	65	57.7	48.6	46.5	truck + traffic
	1100	60.2	69.2	64.3	55.6	51.2	48.5	truck and traffic
	1200	41.9	68.2	64.7	50.6	55.7	51.3	traffic
	1300	61.4	b8.5	£5.7	59,1	51.2	43.7	traffic
	1400	59.6	67.3	63.2	56.7	50.4	43.8	traffic + truck
	1500 -	58.6	66.5	63.9	51.6	28.5	28.5	traffic. last smol @ 1524*

Leg, or Equivalent Sound Level. is the sound level of a continuous, or steady, sound which contains the same sound energy as the actual time varying sound over a specified period, one hour in the present case.

LOI, LIO, etc., are the noise levels exceeded 01, 10, etc. percent of the time, one hour in the present case.

LOI may be considered to be near the highest, or loudest, noise level, and 199 as nearly the lowest, or most quiet, level.

EXHIBIT C :

TABLE 1B

DISTRIBUTION OF NOISE LEVELS near the NORTHWEST CORNER OF BAY ST. and
1106 ESCALONA DR. (THE CARLYLE-BODGE RESIDENCE) BEGINNING ON THURSDAY, AUGUST 10, 2000
HITH NIGHT PAVING

DAY/ DATE	HOUR BEGINNING AT	Leq	L01	<u>L10</u>	<u>L50</u>	L90	L99	PROMINENT NOISE SOURCES
THUR.	1515	61.1	69.5	65.3	56.9	47.6	44.2	traffic
8/10	1600	60.3	66.4	63.4	59.7	51.1	44.5	traffic
	1700	50.5	66.2	63.6	59.7	51.8	39.8	traffic .
	1800	61.6	67.9	65.1	40.5	49.5	42.5	traffic
	1900	60.2	67.5	65.1	55.8	48.7	46.4	traffic
<i>(</i>	2000	61.3	70.5	64.6	58,1	52.3	49.5	traffic + 1 truck @ 1956
	2100	59.6	67.2	63.4	57.5	47.4	43.4	traffic 2 trucks
	2200	57.4	69,4	61.5	56.9	41	78.4	several trucks + traffic
	2300	62.4	74	67.2	54.6	38.4	34.7	2 trucks - traffic
FRI	2400	54	64.3	58.9	43.8	38.7	35.1	traffic
8/11	100	. 57	67	62.6	41.8	38.9	38.2	trucks + traffic
	200	47.8	59.4	48	37.9	36.5	34.9	almost no traffic
	300	50.5	63.2	40.9	39.1	37.4	36.9	l auto, quiet otherwise
	400	48.8	64.5	45.5	40.2	39.2	38.9	1 auto, quiet otherwise
	500	52.4	64.3	57	43.1	40.6	40	about 5 autos, quiet otherwise
	600	57.3	70.3	59.4	18.1	43.7	42.4	1 truck ?. traffic otherwise
	700	64	72.2	69.5	58	49.2	46.6	3 trucks + traffic
	800	61	71.6	63.5	57.7	49.9	47.6	1 truck + traffic
	900	58.5	67.4	62.1	55.9	47.9	42.6	traffic
	1000	62.5	70.4	67.6	58.5	48.6	45.8	1 truck + traffic
	1100	51.3	71.1	64.2	58.2	47.1	41.3	1 truck + traffic
	1200	63.9	70:2	66.1	64	59.4	58.3	traffic, ended at 1208

Leg. or Equivalent Sound Level, is the sound level of a continuous, or steady, sound which contains the same sound energy as the actual time varying sound over a specified period, one hour in the present case.

EXHIBIT C .

^{101, 110,} etc., are the noise levels exceeded 01, 10, etc. percent of the time, one hour in the present case.

¹³¹ may be considered to be near the highest, or loudest, noise level, and 139 as nearly the lowest, or most quiet, level.

TABLE 1C

DISTRIBUTION OF NOISE LEVELS near the NORTHWEST CORNER OF BAY ST. and
1106 ESCALONA DR. (THE CARLYLE-BODGE RESIDENCE) BEGINNING ON FRIDAY, AUGUST 11, 2000
WITHOUT NIGHT PAVING

DAY/ DATE	HOUR BEGINNING AT	Leo	<u>L01</u>	L10	L50 ·	<u> </u>	199	PROMINENT NOISE SOURCES
FRI.,	1216	60.1	70.9	62.6	57.1	49.6	44.9	traffic with 1 truck
8/11	1300	63.5	72.3	67	60.5	52	49.9	traffic with 1 truck
2	1400	61.7	71.8	55.9	56.8	49.7	47	traffic with 1 truck
	1500	60.9	68.4	45	58.5	51.7	47.1	traffic with trucks
	1600	60	66.4	63.6	58.7	45	43.9	traffic
	1700	62.6	69.9	65.8	61.2	54.9	52.2	truck + traffic
	1800	62.1	69.2	66	59.5	51.9	44.9	traffic
	1900	60.2	67.4	64.6	57.1	50.4	46.5	traffic
	2000	58.4	65.3	62.2	50.3	51.4	47.3	traffic
	2100	58	67.5	63	52.2	42.1	41.2	traffic
	2200	59.9	68.1	63.9	56.1	43.2	41.3	traffic
	2300	59	68.5	63.1	52.6	44	42.9	motorcycle + traffic
SAT.	2400	56.7	65.8	61.8	51.5	41.9	41.1	traffic
8/12	100	54.2	65.4	58.7	43.5	41	40.5	traffic
0/12	200	43.9	50.3	47.1	41.8	40.4	39.8	distant police siren, lite traffic
	300	46.5	58.4	44	40.8	40	39.6	lita traffic
	400	46.4	59.9	47.2	40.7	39.3	39.5	2 or 3 autos, quiet otherwise
	500	47.8	55.8	47.9	42	40.7	40.2	2 autos, quiet otherwise
	500	47.2	61.4	47.4	41.3	40	39.3	1 auto, 1 distant auto, woulet otherwise
	700	55.8	69.8	59	45.7	40.3	38.6	traffic
	800	59.8	68.5	64.9	52.4	44.5	40.7	traffic
	900	56.5	66	61.2	52.5	45,4	41.6	traffic

Leg, or Equivalent Sound Level, is the sound level of a continuous, or steady, sound which contains the same sound energy as the sctual time varying sound over a specified period, one hour in the present case.

LOI, LIO, etc., are the noise levels exceeded OI, iO, etc. percent of the time, one hour in the present case.

LOI may be considered to be near the highest, or loudest, noise level, and LOO as nearly the lowest, or most quiet, level.

EXHIBIT C +

Table 4

Average Day/Night Noise Levels (L_{dn}) Near the Intersection of Bay Street and Escalona Drive

Date	Granite Const. Trucks at Night?	$L_{ m dn}$	Percent Highly Annoyed ¹		
August 9-10, 2000	Yes	65.0 dB	18.7 %		
Ayoust 10-11, 2000	Yes	64.0	17.3		
August 11-12, 2000	No	62.7	15.6		

See Reference 7

 $\label{eq:continuous} Table~6$ Average Hourly Noise Levels (Leq) between 8:00 PM and 3:00 AM on the Rear Deck of the Simpson Residence

Date	Asphalt Plant Operating?	L_{eq}		
August 9-10, 2000	Yes	44.7 dBA		
August 10-11, 2000	Yes	44.3		
August 11-12, 2000	No	36.0		

 $Table \ 7$ Average Day/Night Noise Levels (L_{dn}) at the Simpson Residence and near the Eastern Property Line of Granite Construction's Felton Quarry

Date	Asphalt Plant Operating?	L_{dn}	Percent Highly Annoyed	
August 9-10, 2000	Yes	53.0 dB	7.0%	
August 10-11, 2000	Yes	52.3	6.6	
August 11-12, 2000	No	46.6	4.9	

TABLE 5A DISTRIBUTION OF NOISE LEVELS near the SIMPSON RESIDENCE at 260 BONNYWOOD WAY SANTA CRUZ COUNTY, BEGINNING ON WEDNESDAY, AUGUST 9, 2000 WITH NIGHT PAVING

DAY/ DATE	HOUR BEGINNING AT	Leo	<u>L01</u>	110	[60	L70	<u> 199</u>	PROMINENT NOISE SOURCES
WED8/9	1524	48.6	53.8	51.1	48.3	40.9	39	quarry ops. back up beepers(bub)
HLL TILL	1600	49.5	53.8	51.8	49.2	44.1	40.5	main crusher (crusher)
	1700	49	52.6	51.2	48.7	44.7	42.2	crusher & trucks
	1800	45.4	52.3	49.4	46.3	39	35.9	quarry quiet, far BUB, asphalt plant (ap) start up
	1900	49.7	54.3	52.3	49.1	46,4	45.2	AP
	2000	48.9	53.1	51.2	48.3	45.8	43.7	AP as in prevous hours
	2100	50	55.4	51.9	49.4	46.9	45	AP
	2200	48.1	50.5	49.5	48	46.2	43.5	AP plus trucks
	2300	49	51.7	50.7	49.1	45.9	44	AP + trucks and ringing- like souns
UR.,	2400	49.5	54.2	51.9	48.7	46.5	44.5	same motor+ trucks and?(ringing like sound)
8/10	100	47.4	51.7	48.9	47.1	45.1	42.9	AP, here and elsewhere loudness is variable
2.2.	200	37.9	47.5	44	30.1	28.2	27.5	4P off @ 0208, some traffic noise, then quiet @ 28dBA*
	300	29.6	37.2	29.6	28.2	27.3	26.3	some h2o pump-like @ 0320°, 1 smol, quiet other times
	400	30.4	38.4	34.9	27.8	26.8	26.3	same h2o oump as before, i smpl. far motorcycle, barking
	500	33.3	41.5	35.5	31.2	28.5	27.1	traffic started about 0530
	500	43.1	52.4	46.5	38.7	31.8	30.7	quarry started & 0620°; trucks. BUB, conveyor, crusher
	700	51.4	55.8	53.9	51.6	44.8	42.9	loud trucks & BUS, quarry sounds in general
•	300	50.5	36.2	53.3	49.5	46.3	44.3	numerous quarry sounds
	500	51.3	58	53	50.6	48.1	45	BUB, crusher, and other quarry sounds
	1600	51.9	58.8	54	50.6	48.3	46.9	BUB, other quarry sounds
*	1100	52	58.3	54.2	51.4	48.5	46.8	quarry sounds quarry sounds, but quieter for a while- LUNCH?
	1200	49.9	55.8	52.4	49.1	45.2	43.7	quarry sounds, but dutetes to a where estates
	1300	50,9	55.5	53	50.4	47.8	46.5	BUB, quarry sounds, crusher
-	140.	49.7	52.6	51.7	48.9	47.9	47.6	sound of asphalt plant, quarry sounds, off & 1416

Leg. or Equivalent Sound Level, is the sound level of a continuous, or steady, sound which contains the same sound energy as the actual time varying sound over a specified period, one hour in the present case. 101, 110, etc., are the noise levels exceeded 01, 10, etc. percent of the time, one hour in the present case. LOI may be considered to be near the highest, or loudest, noise level, and L99 as nearly the lowest, or most quiet, level.

EXHIBIT C

TABLE 58
DISTRIBUTION OF NOISE LEVELS near the SIMPSON RESIDENCE at 260 BONNYWOOD WAY SANTA CRUZ COUNTY. BEGINNING ON THURSDAY, AUGUST 10, 2000
HITH NISHT PAYING

DAY/	HOUR Beginning	-						
DATE	AT	Leo	L01	L10	L50	L90	199	PROMINENT NOISE SOURCES
THUR.,	1428	50.1	54.3	52.8	49.4	47.1	46	quarry sounds, wind chimes
8/10	1500	50.9	57	53.3	50.1	45.1	41.8	quarry sounds, prominent crusher, 2 smpls tracked whicle
	1600	51.1	57.8	53.1	50.3	47	45.2	* BUB, quarry sounds, train horn, wind chimes
	1700	49.2	54.2	51.9	49.2	38.9	35.8	quarry sounds until 1745", then quiet
	1800	46	55.3	47.7	45.4	35.6	32.6	quiet until 1824" when asphalt plant was activated
	1900	46.5	49.8	48.3	46.3	43.7	42.5	asphalt plant throughout hour
	2000	46.1	50.2	47.7	45.8	43.8	42.4	asphalt plant + trucks
	2100	46.3 3:	49.5	47.8	46.1	44.7	43	asphalt plant
	2200	8, A&	49	48,1	45.7	45.1	43.1	asphalt plant, trucks,& a few wind chimes
	2300	47.5	50.8	49.4	47.1	44.9	42.7	asphalt plant, a few trucks
FRI.,	2400	48.5	53.8	50.2	48	46.8	44.3	truck, asphalt plant
8/11	100	47.8	49.7	49	47.3	46.4	42.5	asphalt plant, and a few distant trucks
/ · '	200	37	47.6	38.7	20	28.7	27.9	asphalt clant until 0212°, then quiet
	200	34.8	45.5	36.5	28.8	27.6	27.	some traffic. wind chimes 2 smpls, quiet otherwise
	400	32.2	41	35.5	29.5	28	27	wind chimes 2 smpls.h2o-like pump 1 smpl.quiet othrwise
	500	35.6	40.1	38.2	34.8	31.7	29.5	traffic begins
	600	46.1	53.8	49.3	44.2	39.9	37	quarry sounds begin @ 0600,+ smpls of tracked vhole
	700	50.3	54.1	52.4	50.5	46.1	37	quarry sounds, tracked vehicle, airplane 1 smpl
	800	46.6	51.8	49.2	45.7	43.5	41.2	quarry is relatively quiet
	o00	46.7	53.3	50.1	44,4	42.5	41.1	some strange mechanical sound last 2 smpls, quarry quiet
	1000	49.3	59	49.9	46.7	41,9	39.7	nearby dog barks, stange mechanical, quarry quiet rityly
	1100	48.4	51.9	50.2	48	46	44.9	relatively quiet quarry, stopped at 1136*

Leg. or Equivalent Sound Level, is the sound level of a continuous, or steady, sound which contains the same sound energy as the actual time varying sound over a specified period, one hour in the present case.

LOI, LIO, etc., are the noise levels exceeded 01, 10, etc. percent of the time, one hour in the present case.

LOI may be considered to be near the highest, or loudest, noise level, and L99 as nearly the lowest, or most quiet, level.

EXHIBIT C.

TABLE 5C
DISTRIBUTION OF NOISE LEVELS near the SIMPSON RESIDENCE at 260 BONNYHOOD WAY
SANTA CRUZ COUNTY, BEGINNING ON FRIDAY, AUGUST 11, 2000
HITHOUT NIGHT PAVING

DAY/ DATE	HOUR BEGINNING AT	Lea	<u>L01</u>	L10	150	L90	<u> </u>	PROMINENT NOISE SOURCES
FRI.	1144	47.4	50.5	48.9	47.2	45.5	44.7	quarry equipment, crusher not operating
8/11	1200	48	50.5	49.6	47.7	46.1	45	quarry is relatively quiet
•	1300	49.3	54.6	51.9	48.5	45.4	43.1	wairplane 1 snpl, quarry
	1400	48.6	53.6	51.1	47.9	45.1	43.1	dratth
	1500	47.3	50.1	48.9	47.1	44.7	43.5	quarry 8 14304
	1600	48.5	54.6	52	47.4	41	25	airplane 1 smpl, quarry, and guarry shut down @ 1630~
	1700	46.8	53.1	49.8	45.3	41.7	40.5	autos and some track-like sound 1 smol
	1800	45.3	57.4	47.9	37.8	36.1	34.8	motorcycle, jet, autos, wind chimes, quiet otherwise
	1900	36.4	38.7	37.4	36.2	35.2	34.3	none apparent, quiet
	2000	41.5	52.2	42.9	37.5	35.2	34	airolane I smpl, quiet otherwise
	2100	37.2	42.3	39.5	36.5	34.4	33.6	autos on Empire Grade, quiat otherwise
	2200	- 38	41.7	39.9	37.7	35.4	34.1	autos on Empire Grade, and some far mechanical sound
<i>i</i>	2300	36.8	39.3	38.7	35.6	33.9	31.7	autos on Empire Grade, Mechanical sound is gone
£	2400	38.3	43.1	41	37.9	32.6	31.1	sorinklers ? on for 1/2 mour, quiet otherwise wind chimes several smpls, h2o-like cump sound 1 smpl
8/12	100	34.8	41.3	37.2	33.5	31	30.1	wind Chimes Several embies and live pamb agence - and
	200	31.7	35.6	33.4	31.2	30	29.3	1 auto, quiet otherwise h2o-like pump sound 1 saol, buzzing loudness up/down
	300	29.4	34.5	31.7	28.5	27.6	27.1	h20-like pump sound 1 smol, autos, buzz on & off, mech.?
	400	33.1	39.2	36.8	30.5	25	27.6	PSO-11kb Drub Ednut 1 Panti agree fort an a and
	500	36.6	41.8	39	35.0	33.6	32.6	autos?, some mechanical sound don't know source
	500	42.3	47.5	44.3	41.4	38.5	36.6	quarry sounds: conveyor?, tracked vehicle
	700	44.4	50.1	46.9	43.5	40	35.1	mechanical quarry sounds, some hammering
	300	45.7	50.7	47.3	45.1	41.7	39,2	vehicles, quarry-like sounds
	900	44.5	Ψć	46.5	44	40.8	38	Chaile admiga
	1000	44.8	52	48.3	43.4	37.5	35.2	quarry
	1100	46.4	19.4	48.4	45,9	44,3	43.4	quarry sounds. 1 smpl only

Leg, or Equivalent Sound Level, is the sound level of a continuous, or steady, sound which contains the same sound energy as the actual time varying sound over a specified period, one hour in the present case.

101, 110, etc., are the noise levels exceeded 01, 10, etc. percent of the time, one hour in the present case.

101 may be considered to be hear the highest, or loudest, noise level, and 199 as nearly the lowest, or most quiet, level.

EXHIBIT C'

Environmental Consulting Services

Phone: (408) 257-1045

18488 Prospect Road – Suite 1, Saratoga, CA 95070 stanshell99@toast.net

June 11, 2019

Ms. Christine Williams Mr. Mitchell Bush Granite Construction 1800 Felton Quarry Road Santa Cruz County, CA

Subject: Monitoring of Speed and Noise of Vehicles using Empire Grade in Santa Cruz during evening haul periods

Dear Christine and Mitchell.

At your request I have measured the noise generated by vehicles using Empire Grade on two nights last week, as well as their speed. The data is attached to this letter for your review.

Noise Measurement Procedures

Vehicle noise measurements were made on the evenings of June 4th and 5th, using a CEL-440 Precision Noise Meter and Analyzer, with a Type 1 ½" microphone and amplifier, calibrated with a B & K Model 4230 Sound Level Calibrator. Noise levels were measured and are reported using A-weighted decibels with Slow meter response. Speed measurements were made with a Pocket Radar, Model PR1000. Notations showing the type of vehicle and whether traveling up or down on Empire Grade are recorded on the datasheets. On June 4 measurements were made between 10 pm and 1 am at the Waldorf School entrance driveway at 2190 Empire Grade, Santa Cruz. The meter was extended out of the window of the car, about 15 feet from the center of the "up" vehicle lane and 25 feet from the "down" lane. The car was parked parallel to the roadway. A good sample of vehicles passing in both directions were monitored and recorded. Obviously, because of bunching and the time necessary to record speed and noise level, data on many vehicles could not be recorded. Ambient noise levels in the absence of vehicles was 33 to 35 dBA.

On June 5 measurements were made between 10 pm and 1 am at the entrance to the UCSC Arboretum, Arboretum Drive at Empire Grade, Santa Cruz. Again, the meter was extended out of the window of the car, about 15 feet from the center of the "up" vehicle lane (25 feet from the "down" lane). For the first 1.5-hour monitoring period, the car was parked perpendicular to the roadway, and for the second monitoring period it was parked parallel to the road, as at Waldorf School. The distance to the roadway was the same in each case.

If I may be of further assistance on this project, please do not hesitate to contact me.

Respectfully submitted,

Stan Shelly
H. Stanton Shelly

Acoustical Consultant
Board Certified Member (1982)
Institute of Noise Control Engineering

	. A]	В	c	D	E	F	G
1	<u>Date</u>	Location	Direction	Vehicle type	Speed (MPH)	Noise (dBA)	Notes
2							
3	Inc4	waldong Sch	Dn	car	27	68	Ambient 33-35 dB Dist-up= 15' to com Pist-Ph= 25' to co
4	lopm	2190 EG	Ü,	<	35	75 63	
5		11 to sheet		e	30		Dist-up= 15 to com
6		,	J.	Trug	25_	84	
7			Þ	00000	38	73	Dist-14= 25 to a
8			Ŭ D	<u>C</u>	40	<u> </u>	
9			D_		38	76	
10			U	<u> </u>	44	75	
11			U	<u>C</u>	38	76	
12			D	1	38	72	
13			D		38	76	
14			Ų	L.I	20	85	
15			7		26	82	The state of the s
16			U	1	22	85	
17			D	<i>-</i>	38	77	
18		·	U	MC	40	78	
19	and the co		D	<u>c</u>	37	67	Mildermilderminer (1, 1, 1, 1, 1, 1) or the conference and the conference of the con
20			U		42	75	The second secon
21			D _		38	17	
22			P	<u> </u>	30	70	er en rich der andre delta des binderes bindelte des en en procedit de des transportes bindelte des en en procedit de des en
23			P	ा	30	80	
24			U		28	84	garante de la composição de la composiçã
25			\mathcal{P}	<u> </u>	32	66	The second secon
26			U	C	40	67	est (de mange esta constitue esta esta esta esta esta esta esta est
27	1		U	5	40	69	
	•		V		18	86	
29			D	1	26	85	The second secon
30			D	T	25	78	magamanagan ar 11 maga d aganagan gangangangangan (1997 - Vandadanan ang magamanagan (1997 - 1998 - 1998 - 1998 -
31]		D	Œ	34	79	enterprise de la companya de la comp
32			D	T	32	2,8	
33			D		36	69	
34		groupspale (registrate) and the control of the cont	U	1	30	83	and the second s
35			D	MC		88	Page 21.
36	1		U	1	30	84	one of the contraction of the co
37	7		U	C	33	69	
38		A CONTRACTOR OF THE PROPERTY O	D	1	26	74	
39			U	C	30	74	T
4(The second secon		17	24	84	- Commission of the Commission

	Α	В	С	Ď	E	F	G
1	Date	<u>Location</u>	Direction	<u>Vehicle type</u>	Speed (MPH)	Noise (dBA)	Notes
2	June 4	warded sch	U	C	33	74	Cel 93.8V
3		115pm	V	C	35	68	Temp 55°F
4			U	C	43	75	
5			じじ	1	73	87	
6			U	T	25	85	
7			υ	T	24	86 78	
8			D	7	28	78	
9			Þ Ţ	ー	26	71	
10			V	c	26 27 32	72	
11			P	<u> </u>	32	76	·
12			2	1	23	76	
13			\(\mathcal{V} \)	C	31	90	
14			V	Č.	37 50	74	
15			₽	<u> </u>	50	75	
16			* V	1	24	85	
17			V	1	21	86	
18			D	C	35	68	
19			U	С	32 30	73 80 78	
20			V	MC	30	80	
21			V	! .	44	78	
22			U	<u>C</u>		R I	
23			D	1	38 27	84	
24			O	T	25	83	
25		-) -)	P U	7	25 30	84 83 79	
26			U	C	36	72	
27			U	1	21	84	
28	•		V.	T	20	80	
29			Ú	Ċ	30	71	
30			\mathcal{D}	. 1	27	77	
31			がこ	Ī	28	78 83 78 75	
32			U	MC	40 30 42	83	
33			U ⊅ U	7	30	78	
34				C	42	75	
35			U		20	93	
36		No. of Automotive Prince	v	C	25 27	67 68	
37			U	2	27	68	
38			Ð		24	74	
39			U	<u> </u>	35	77	
40		e en	D	τ	30	78	

	Α	В	c	D	E	F	G
1	<u>Date</u>	Location	Direction	Vehicle type	Speed (MPH)	Noise (dBA)	Notes
2	June4	Waldorf 5d	U	C	28	68	
3	1245 AM		D	T	32	80.	and the second s
4	r		V	7	28	85	Section was proceedings to the process of the section of the secti
5			V	1	25	83	
6			\cup	T	23	85	
7		•)				Space Suit 1865 our 1865 our 1866 our 186 5 our 1866 our	gangan managan peruggan pangan pangan managan keri managan keri dalam kerikalah mengan kerikan pengan pengan p
8	·			·			
9						programme and any process concerns to an administrative and administrative administrative and administrative administrative and administrative administrati	
10							
11	JUNE	Arboretum	·V	C	44	69	15 H from near lave
12	(000	ave uc	U	C	40	67	(up)
13	pm	_L to street	Ø	<u> </u>	41	75 74	25 H Crom down
14	an agreement to the same of th	(back sent)	U	C		74	25 /t from down lane center
15		to the same of the	U	7	35	82	And the second section of the second
16				C	37	67	Ambjort 34-36 deft
17		and the state of t	P	c	23	70	
18		- managan da ana ana ana ana ana ana ana ana an	U	C	35	75	57°F
19			U	ر	33	72	
20			D	<u> </u>	43	65	heg wind
21		Por many contracts	P	C	42	68	
22	and the second second second second second	The state of the s	P	C	50	73	
23			V	T	25	85	
24			P	G	40	68	
25	The second secon	orates i Chronilland dans unbrancombillen i schlambilikolorinerasi kere erefolisien i kiri ya zien ester. Marke	V	C	43 44	76	
26			V	C	44	75	
27			V	Ş	,50	76	
28	**************************************		4	7	30	84	
29			U	T	:35	85	
30			D	C	38	67	
31	The same of the Paris of the Control	The state of the s	P	C	40	70	
32			V	T	34	85	
33	array (1000) (100) (100) (100) (100) (100) (100)		D	T	25	76	
34	and the second second	Samuel Commission and Proceedings of the Commission of the American State of the Commission of the Com	U	C	33	73	
35	and the second		D	Bus	34	78	
36			v	T	36	87	
37			V.	7	28	82	grangeren erren vor erreinische Schrifte vor der Webberg der der Beitricht der Beitric
38	mouth		V	C	36	68	as a comment to the company of the c
39	* 11		D	C	47	69	
40		erocumatica de partir de co _{ntro} construença e de la colonidad de control de	Ū	C	37	74	

	A Date	8	C C	D Valida saa	E Const (nome)	F States (Ame)	<u> </u>
1	JUhe 5	Location	<u>Direction</u>	Vehicle type	Speed (MPH)	Noise (dBA)	<u>Notes</u>
2	-JVNL >	The second secon	U	<u> </u>		83	
3		- to road	Y		32	82	
4	D Later to this how to work to the constant		U	<u> </u>	37	72	
5		With the street of the street	pn	<u>e</u>	34	72	
6			Ų	्र	3.7	80	
7	***************************************		U		34	83	i e
٤	M manage	447 (1996). Сеген на възгленизат о и уче <mark>ни дере</mark> н использова може пред на того и на наструга предоду учену пред	P		36	78 72	
و	* - pr - // - management - p - p - non-		U	೭	37	72	
10			U	C	43	75	
11			B	C	50	67	er and the second secon
12			U	<u>د</u> د	50 43	82	and the second s
13			U	C	47	76	
14		ganta demandado continuo continuo non continuo nado i mentinada machinada alganica i ganti page segagagango	<u> </u>	C.	50	77	
15			U	C C	47	74	
7			Ū	C	39	93	
6		entendere militario (1964 - 1967) y 1944 (1967) y 1964 (1967) andreas also province also service again, a serv	Ď	7	33	85	
7			V				PRESENT PROPERTY AND A SECURITY OF SECURITY AS SECURITY AS A SECURITY ASSESSMENT OF THE SECURITY ASSESSMENT ASSESSMENT OF THE SECURITY ASSESSMENT ASSESSME
8			-	C	39	75	
9		and a survey of the survey of	D D	C	37	73	
20			L		43 30	76	
4			Ϋ́	ユニ	.50	19	
2			8	7	<u> 3</u> 8	75	
3		met il se Kriberoweren i sentemmak i versikker i se selanope gapte se naps alanapangangan	eter management and an all and a second		31	80	
4		en de la companya del companya de la companya del companya de la companya del la companya de la	V.	C	40	73	
5						p ^{agg}	-
	JUNE 5	Alboretum	υ	C	40	75	16' from up center 26' from down cent
7	11 15 5	11 to road	P	C	49	73	Jellen down cont
8			D	T	40	79	to from acount and
9		The manufacture of the property of the policy of the commence	Ď	T	37	84	
0			Ū	1	32	82_	
1		perfect to the angle of the property of the perfect	D	Ċ	50	73	
2			D	<	43	70	
٦			V	<i>C</i>	46	77	
3		- Control Make Constant - Assessment - Asses	D	MC	5.5	81	a di distributi dentra per del del Sistema de deservir e distribution de la completa del la completa de la completa del la completa de la completa de la completa del la completa de la completa del la com
4	··			C	35		The second section of the second section is the second section of the second section of the second section of the second section is the second section of the
5			$-\gamma$	0	35	74_	ett det til til til som en skriver og fyrir er sa ge r mente att <mark>fanns som en menne menne senere søger segere e</mark> n sage st
4	:		$\frac{1}{\lambda}$		37	7]	ети меттикат такаменун ашырын, энцинизги к, так-жиги также такжени газаны, таканы (облас учетынының сыны),
4.		and the second of the second o	P		75	69	randormi ya note Alaini Malaininin kada dalaininin maafaanaan oo saraa adismaan dalainin kada dalainin ahaa aa
8	 	and the same of th		C	44	75	
9			<u> </u>		31	82	
			<i>V</i>	C	36	74	

1 0-	Α		c	D .	E	F	G
2 6 3 1 1 4	Date	Location	Direction	Vehicle type	Speed (MPH)	Noise (dBA)	Notes
3	,-5	Arboretum	· U		25	86	
4 5 6 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 2 29 30 31 32 33 34 35 35	140	11 to road	D	C	37	74	
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35 35			D	C	37	72	
6 7 8 9 9 110 111 112 113 114 115 116 117 118 119	namen and a second a		D D U		50	74	
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			U	<	43	18	The second secon
8 9 9 110 111 112 113 114 115 116 117 118 119 119 119 119 119 119 119 119 119			U	5	46	78	
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			D		46	74	
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35 35			U	CONO	44	79 73 82 75	The state of the s
11			D		47	73	and the state of t
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			D	7	31	82	
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			\mathcal{D}	<i>C</i>	42	75	
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35		·	U	C	46	76	
15 16 17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			D	C	46 39 36 35	76	
16 17 18 19 20 21 22 23 24 25 26 27 28 2 29 30 31 32 33 34 35			U	T	36	89	the same and contribute to the same and the
17 18 19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			U	C	35	79	
19 20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			U	T C	35 40 25 34	79	to Control and Con
20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			\mathcal{P}		40	フラー	
20 21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			U	T	25	80 76 80	
21 22 23 24 25 26 27 28 = 29 30 31 32 33 34 35			D	T	34	76	
23 24 25 26 27 28 = 29 30 31 32 33 34 35			V	T	25	80	
24 25 26 27 28 = 29 30 31 32 33 34 35			D	E	24	76 76 75 78	
24 25 26 27 28 = 29 30 31 32 33 34 35			<u> </u>		72	76	and are considered to the considered of the cons
26 27 28 = 29 30 31 32 33 34 35			P	<i>C C C C</i>	47 50 38 35	75	
27			U D	C	50	78	The state of the s
28 = 29 30 31 32 33 34 35				L C	38	72 69	
29 30 31 32 33 34 35	- ameriya'nya riikka bibeyikeri sakilya sac-isac-ifi s		A		35	69	
30 31 32 33 34 35			D		43	73	
31 32 33 34 35	~~~		U	<u>C</u>	48	79	· · · · · · · · · · · · · · · · · · ·
32 33 34 35	a company of the contraction of the contraction		D	7	48 35 48 43	84 76 72 77	. The state of the
33 34 35			U		48	16	
35			_P		43	1/2	- Colores - Colo
35			D	C 7 0 0	50	17	Met opplikken op 10 state for the same to the same that the same that the same that the same that the same the same the same that the same tha
	MANAGEMENT OF THE PARTY		<u> </u>	1 7	34	85	and the state of t
36			<i>U</i>	'C	37 44 53 39	74 73 80	SOMEON CONTROL VICTORIAN CONTROL CONTR
		a kan ni da niga kangada da	D	C	44	/3	
37	· · · · · · · · · · · · · · · · · · ·		D	17_	53	00	As a new medical months of the state of the
38				<u>C</u>	34	71	agranda and a characteristic and a characteristic control of the c
39	makangana sa sa sa Saba at danda	рын үчин тарын марамаанын үчүн үчин аруунун учин аруун тарын түрүү үчүн түрүү түү түү түү түү түү түү түү түү	L V	C	45	76	and the second section of the sect
40			LP.		50	77	
41			U	C	36	2/_	
42		-	P	IT	28	177	